



Era of Hope

Department of Defense
Breast Cancer Research
Program Meeting

June 25–28, 2008
Baltimore Convention Center
Baltimore, Maryland

Time for Action

PROGRAM



About the Meeting

Meeting Intent

The Era of Hope meeting is a visible, international meeting that highlights research efforts supported by the Department of Defense (DOD) Breast Cancer Research Program (BCRP) and recent advancements toward the eradication of breast cancer. This unique meeting also provides a forum for productive dialogue between scientists, clinicians, and breast cancer consumer advocates to foster progress toward the eradication of breast cancer.

Investigators funded by the DOD BCRP from fiscal year 2004 (FY04) through FY06 are obligated to attend the 2008 meeting and report on their research findings. In honor of their long-standing research in breast cancer, those investigators funded in previous years (FY92 through FY03) have also been invited to submit abstracts for presentation at this meeting. Participation by consumer advocates is a hallmark of the BCRP and an integral part of the Era of Hope meeting. Breast cancer consumer advocacy organizations have also been invited to submit abstracts for consideration for presentation at Era of Hope 2008.

Program Highlights

- The overall theme of the 2008 Era of Hope Meeting is "Time for Action."
- The Plenary Sessions have been organized around three themes: The three themes are:
 - (1) Risk and Prevention Across the Spectrum of Breast Cancer
 - (2) Breast Cancer Diagnosis – What's on the Horizon?
 - (3) Managing Breast Cancer Across the Spectrum of Disease
- Focused Symposia Sessions and Poster Sessions highlighting the work of the DOD BCRP grantees as well as consumer advocates are the heart of the meeting.
- Daily Early Morning Sessions are planned to explore specific topics of interest to meeting participants.
- An Innovation Session will be presented by Dr. Robert Wolcott from the Kellogg School of Management at Northwestern University. In this session, Dr. Wolcott will be addressing the topic of "Fostering Innovation."
- A special Spotlight Session will follow the Innovation Session and will highlight the BCRP Era of Hope Scholar award recipients.
- A Controversy Session is planned to address controversial issues pertaining to the treatment of breast cancer.
- The Closing Session will feature select recipients of the BCRP Innovator Award, who will address the topic, "How will we eradicate breast cancer?"

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Please Note

Still photography and background video footage will be shot of various portions of the meeting. We will not be videotaping the oral presentations or photographing posters. However, the session rooms and poster hall will be videotaped and/or photographed. Photo and video image use would be limited to the purpose of illustrating, depicting, and promoting the Congressionally Directed Medical Research Programs (CDMRP) in projects such as annual reports, brochures, displays, and research program videos. Your attendance and participation in this meeting release the CDMRP and Science Applications International Corporation from all claims and demands arising out of or in connection with the use of these images. Anyone who does not wish his or her identifiable image to be used in this manner must fill out and sign a non-release form available in the Speaker Ready Room during this meeting. Thank you for your assistance.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
US ARMY MEDICAL RESEARCH AND MATERIEL COMMAND
504 SCOTT STREET
FORT DETRICK, MD 21702-5012

MAY 05 2008

Office of the Commander

Dear Colleagues:

Welcome to the U.S. Department of Defense (DOD) Breast Cancer Research Program (BCRP) 2008 Era of Hope meeting. This meeting represents the collaborative efforts of many people to reduce breast cancer's impact on the lives of all who are affected by the disease. The 2008 meeting highlights the multidisciplinary, high-impact, innovative research that the DOD BCRP has funded in our efforts to eradicate breast cancer.

One of the DOD BCRP's most notable hallmarks is the unique collaboration among the research community, breast cancer consumers, and the U.S. Government. This collaborative spirit represents the culmination of hard work initiated and sustained by survivors and advocates, Congress's decision to continue research funding for breast cancer, and the dedication of scientists and clinicians to the program. This Era of Hope meeting demonstrates the U.S. Army Medical Research and Materiel Command's commitment to manage the DOD BCRP in a manner responsive to the vision and equal to the dedication of all of our partners.

To facilitate communication and encourage greater interaction among the many diverse disciplines in attendance, the Era of Hope 2008 meeting focuses on "Time for Action," and is organized around three unifying themes: Risk and Prevention Across the Spectrum of Breast Cancer, Breast Cancer Diagnosis – What's on the Horizon, and Managing Breast Cancer Across the Spectrum of Disease. All BCRP award recipients from fiscal years 1992-2006 were invited to this meeting to present their research findings and discuss promising directions in breast cancer research. Breast cancer consumers, who have been an integral part of the DOD BCRP since its inception, are serving side-by-side with the scientists as co-chairs and speakers in all sessions at this meeting.

My staff and I thank you for your continuing partnership and dedication in our efforts to eliminate this disease, sustain health, and improve the quality of life for those living with breast cancer.

Sincerely,

George W. Weightman
Major General, Medical Corps
Commanding General



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
US ARMY MEDICAL RESEARCH AND MATERIEL COMMAND
1077 PATCHEL STREET
FORT DETRICK, MD 21702-5024

June 25, 2008

Congressionally Directed Medical Research Programs

Dear Colleagues:

It is with great pleasure and honor that the Department of Defense (DOD) Breast Cancer Research Program (BCRP) highlights the research it has funded at this fifth Era of Hope meeting – Time for Action. The Era of Hope 2008 Meeting marks the 16th anniversary of the DOD BCRP. During this time, the DOD BCRP has emerged as a leader in funding innovative, high-impact, multidisciplinary research focused on breast cancer. The scientific excellence and innovation of the research presented at this Era of Hope meeting are testimony to the many talented and creative researchers supported by the DOD BCRP.

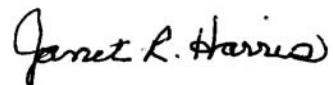
The DOD BCRP was created in response to the concerns of those directly affected by breast cancer. Breast cancer survivors and advocates have had a tremendous impact on this program with their participation in all aspects of the vision setting and review processes. The fruitful collaboration among survivors, advocates, scientists, clinicians, and the federal government is one of the DOD BCRP's most significant achievements. I believe that the success of this partnership is due to their shared dedication and commitment to eradicate breast cancer.

I express my deepest gratitude to all of the people who have participated in the DOD BCRP, to all who embrace this time as a “Time for Action”:

- Breast cancer survivors and advocates, whose courage and commitment created this program. They instill their passion, inspiration, and vision of eradicating breast cancer into the program.
- Researchers funded by the program who, through their research, are rising to the challenge of eliminating breast cancer. They provide hope for one day, finding a cure.
- Members of the Integration Panel, present and past, who craft a responsive, dynamic, and comprehensive program every year through fiscally responsible investment strategies and award mechanisms supporting these strategies and identify the research to most effectively move us closer to a cure.
- Members of the DOD BCRP peer review panels, who have met the challenge of reviewing over 35,000 proposals during the past 16 years. Their expertise and perseverance have assisted us in finding the best research to move us closer toward the program's vision.
- Members of the DOD, the U.S. Army Medical Research and Materiel Command, the BCRP Program Management Team, and support staff, whose energy, enthusiasm, and diligence sustain the DOD BCRP.

I gratefully acknowledge the intellectual and visionary contributions of all of these individuals who are committed to the DOD BCRP as it blazes new trails toward eradicating breast cancer. This fifth Era of Hope meeting is the culmination of 16 years of progress by the DOD BCRP in the fight against breast cancer. I thank you for your participation in this "Time for Action."

Sincerely,

A handwritten signature in black ink that reads "Janet R. Harris".

Janet R. Harris, Ph.D., RN
Colonel, U.S. Army Nurse Corps
Director

Technical Planning Committee

Graham Casey, Ph.D.

Era of Hope TPC Co-Chair

BCRP IP Chair Emeritus; Department of Preventive Medicine, Keck School of Medicine, University of Southern California

M. Carolina Hinestrosa, M.A., M.P.H.

Era of Hope TPC Co-Chair

BCRP IP Chair; Co-founder and Director, Nueva Vida

Karin Decker Noss*

(passed away on February 16, 2008)

Era of Hope TPC Co-Chair

Virginia Breast Cancer Foundation

Olufunmilayo (Funmi) Olopade, M.D.

Era of Hope TPC Co-Chair

Director, Cancer Risk Clinic, University of Chicago Medical Center

COL Janet Harris, R.N., Ph.D.

Director, Congressionally Directed Medical Research Programs (CDMRP), U.S. Army Medical Research and Materiel Command (USAMRMC)

Patricia Modrow, Ph.D.

Era of Hope Conference Chair

CDMRP, USAMRMC

Stephanie Birkey Reffey, Ph.D.

Era of Hope Program Representative

Senior Life Scientist, Science Applications International Corporation (SAIC)

Carol Evans

Era of Hope Program Representative

BCRP Integration Panel Liaison, SAIC

Elizabeth Jaffee, M.D.

Co-Director, Cancer Immunology Program and the Immunology and Hematopoiesis Division, Dana and Albert "Cubby" Broccoli Professorship in Oncology, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University

H. Kim Lyerly, M.D.

BCRP IP Member; Director, Duke Comprehensive Cancer Center

Ngina Lythcott, Dr.P.H.

BCRP IP Member; Breast Cancer Liaison, Black Women's Health Imperative; Associate Dean for Students, Boston University School for Public Health

Mark Pegram, M.D.

Department of Hematology/Oncology, Sylvester Comprehensive Cancer Center, University of Miami

Malcolm Pike, Ph.D.

BCRP IP Member; Flora L. Thornton Chair in Preventive Medicine, Department of Preventive Medicine, Keck School of Medicine, University of Southern California/Norris Comprehensive Cancer Center

Donald Plewes, Ph.D.

BCRP IP Member; Department of Imaging Research, Sunnybrook & Women's College Health Sciences Centre, University of Toronto

Michael Press, M.D., Ph.D.

Harold E. Lee Chair in Cancer Research, Keck School of Medicine, University of Southern California/Norris Comprehensive Cancer Center

Nirmala (Nimmi) Ramanujam, Ph.D.

Director, Tissue Optical Spectroscopy Lab, Biomedical Engineering Department, Pratt School of Engineering, Duke University

William H. Redd, Ph.D.

BCRP IP Member; Department of Oncological Sciences, Derald H. Ruttenberg Cancer Center, Mount Sinai School of Medicine

Rosemary Rosso, J.D.

Metro DC Breast Cancer Coalition

Mihaela Skobe, Ph.D.

James H. Godbold Department of Oncological Sciences, Mount Sinai School of Medicine

Dennis J. Slamon, M.D., Ph.D.

Chief, Division of Hematology/Oncology; Director, Clinical/Translational Research; Jonsson Comprehensive Cancer Center; David Geffen School of Medicine at UCLA

George Sledge Jr., M.D.

Balvie-Lantero Professor of Oncology, Indiana Cancer Pavilion, University of Indiana

Patricia S. Steeg, Ph.D.

Director, Molecular Therapeutics Program; Chief, Women's Cancers Section, Laboratory of Pathology, National Cancer Institute

Fran Visco, Esq.

BCRP IP Member; President, National Breast Cancer Coalition

Vernal Branch

Y-Me National Breast Cancer Organization

Karen Burg, Ph.D.

Hunter Endowed Chair and Professor of Bioengineering, Department of Bioengineering, Clemson University

Frank J. Calzone, Ph.D.

BCRP IP Member; Scientific Director, Oncology Research, Amgen Inc.

Robert D. Cardiff, M.D., Ph.D.

University of California Davis (UCD) Center for Comparative Medicine; Department of Pathology and Laboratory Medicine, UCD School of Medicine

Mauro Ferrari, Ph.D.

Professor and Director, Center for NanoMedicine, Brown Foundation Institute of Molecular Medicine; Chair, Department of Biomedical Engineering, The University of Texas Health Science Center at Houston; President, Alliance for NanoHealth, Houston



In Memoriam

*Karin Decker Noss

Virginia Breast Cancer Foundation

Karin Noss was initially diagnosed with breast cancer in 1995 and experienced a recurrence in 2000 with metastases in her hip and spine. Since that time, she worked tirelessly as an advocate for improved quality and access to breast cancer care. Ms. Noss served the DOD Breast Cancer Research Program (BCRP) as a member of the

Integration Panel from fiscal year 2006 to 2008 and was elected Chair of the BCRP Integration Panel for fiscal year 2008. In addition, she was co-chair of the Era of Hope Technical Planning Committee and was actively engaged in planning for the Era of Hope meeting at the time of her death on February 16, 2008. Karin will be gratefully remembered for her positive spirit and tireless advocacy efforts. We lovingly dedicate this meeting to her memory.

Abstract Subcommittee

Gregory Adams, Ph.D.

Steve Anderson, Ph.D.

Vimla Band, Ph.D.

James Basilion, Ph.D.

William Beck, Ph.D.

Deborah Bowen, Ph.D.

Vernal Branch

Edward B. Brown, Ph.D.

Karen Burg, Ph.D.

Frank Calzone, Ph.D.

Sharon Cantor, Ph.D.

Robert Cardiff, M.D., Ph.D.

Graham Casey, Ph.D.

Junjie Chen, Ph.D.

Wendy Chen, M.D., M.P.H.

Steve Coats, Ph.D.

Stanley Cohen, M.D.

Scott Alexander Coonrod, Ph.D.

Adrienne Cox, Ph.D.

Massimo Cristofanilli, M.D.

Carl D' Orsi, M.D.

Kay Dickersin, Ph.D.

Gerald Diebold, Ph.D.

Mauro Ferrari, Ph.D.

Sue Friedman, D.V.M.

Andra R. Frost, M.D.

Marilie Gammon, Ph.D.

Joe W. Gray, Ph.D.

Gregory Hannon, Ph.D.

Patricia Haugen

M. Carolina Hinestrosa, M.A.,

M.P.H.

Stephen Albert Johnston, Ph.D.

Mary Justice, M.S.N., R.N.C.,
C.N.E.

Yibin Kang, Ph.D.

Peter P. Lee, M.D.

Kim Lyerly, M.D.

Ngina Lythcott, Dr.P.H.

John Mackey, M.D.

Robert Mass, M.D.

Christine Norton

Funmi Olopade, M.D.

Malcolm Pike, Ph.D.

Don Plewes, Ph.D.

Michael F. Press, M.D., Ph.D.

Nazneen Rahman, M.D., Ph.D.

Nirmala Ramanujam, Ph.D.

William Redd, Ph.D.

Rosemary Rosso, J.D.

Connie Rufenbarger

Erkki Ruoslahti, M.D., Ph.D.

Lupe Salazar, M.D.

Jeffrey Segall, Ph.D.

Shiladitya Sengupta, Ph.D.

Dennis Sgroi, M.D.

Dennis Slamon, M.D., Ph.D.

George Sledge, M.D., Ph.D.

David I. Smith, Ph.D.

Mark Stearns, Ph.D.

Patricia Steeg, Ph.D.

Janet Stein, Ph.D.

Saraswati Sukumar, Ph.D.

Martin Tornai, Ph.D.

Eva Turley, Ph.D.

Fran Visco, Esq.

Yong Wan, Ph.D.

Valerie Marie Weaver, Ph.D.

Dihua Yu, M.D., Ph.D.

BCRP Leadership

Responding to the National Breast Cancer Coalition's efforts to increase research aimed at overcoming breast cancer, Congress appropriated funds to the DOD beginning in FY92 to be directed toward breast cancer research. The USAMRMC was given responsibility for managing the BCRP. A management team of scientists, headed by Colonel Janet R. Harris, is dedicated to the fight against breast cancer. An Integration Panel provides scientific and consumer expertise to fulfill the goals of the program.

George W. Weightman, M.D.

Major General, U.S. Army Medical Services Corps
Commanding General, U.S. Army Medical Research and Materiel Command and Fort Detrick

Janet Harris, Ph.D., R.N.

Colonel, U.S. Army Nurse Corps
Director, CDMRP, USAMRMC

Elaine Melissa Kaime, M.D., F.A.C.P.

Captain, U.S. Navy Medical Corps
Deputy Director, CDMRP, USAMRMC

Patricia Modrow, Ph.D.

Conference Chair, CDMRP, USAMRMC

Gayle Vaday, Ph.D.

Program Manager, BCRP, CDMRP, USAMRMC

Jennifer Fallas, Ph.D.

Grants Manager, BCRP, CDMRP, USAMRMC

Donna Kimbark, Ph.D.

Grants Manager, BCRP, CDMRP, USAMRMC

Theresa Miller, Ph.D.

Grants Manager, BCRP, CDMRP, USAMRMC

Allison Milutinovich, Ph.D.

Grants Manager, BCRP, CDMRP, USAMRMC

Katherine H. Moore, Ph.D.

Grants Manager, BCRP, CDMRP, USAMRMC

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BCRP Coordinator, SAIC

Carol Evans

Integration Panel Liaison, SAIC

Julia Huiberts

Biomedical Scientist, SAIC

Herbert Avila, Ph.D.

Peer Review Coordinator, Constella Health Sciences

BCRP Integration Panel Members

Integration Panel Members

The U.S. Army gratefully acknowledges the intellectual strength and vision that past and present Integration Panel members have provided in crafting a BCRP that has received accolades from Congress and both the scientific and the consumer communities. Current Integration Panel members include:

M. Carolina Hinestrosa, M.A., M.P.H.

(Chair)
Nueva Vida

Graham Casey, Ph.D.

(Chair Emeritus)
University of Southern California

Frank J. Calzone, Ph.D.

(Executive Committee Member-at-Large)
Amgen, Inc.

Fran Visco, Esq.

(Executive Committee Member-at-Large)
National Breast Cancer Coalition

Susan G. Hilsenbeck, Ph.D.

Baylor College of Medicine

Clifford A. Hudis, M.D.

Memorial Sloan-Kettering Cancer Center

H. Kim Lyerly, M.D.

Duke Comprehensive Cancer Center

Ngina Lythcott, Dr.P.H.

Black Women's Health Imperative and Boston University School of Public Health

Malcolm C. Pike, Ph.D.

University of Southern California

Donald B. Plewes, Ph.D.

University of Toronto Sunnybrook & Women's College Health Sciences Centre

William H. Redd, Ph.D.

Mount Sinai School of Medicine

Invited Speakers

Stephen B. Baylin, M.D.

Professor of Oncology, The Johns Hopkins University School of Medicine

Leslie Bernstein, Ph.D.

Director, Department of Cancer Etiology, Division of Population Sciences, City of Hope

Donald A. Berry, Ph.D.

Head, Division of Quantitative Sciences, University of Texas M. D. Anderson Cancer Center

Doug Bishop, Ph.D.

Professor, Department of Radiation and Cellular Oncology, University of Chicago

Amy Bonoff

National Breast Cancer Coalition

Christine Brunswick, J.D.

Metropolitan Washington, DC Chapter of NBCC

Karen J.L. Burg, Ph.D.

Hunter Endowed Chair and Professor of Bioengineering, Clemson University

Aman U. Buzdar, M.D.

Ashbel Smith Professor of Medicine, University of Texas M. D. Anderson Cancer Center

Celia Byrne, Ph.D.

Assistant Professor, Department of Oncology, Lombardi Comprehensive Cancer Center, Georgetown University

Kevin A. Camphausen, M.D.

Chief, Radiation Oncology Branch, National Cancer Institute, National Institutes of Health

Ann Chambers, Ph.D.

Director: Pamela Greenaway-Kohlmeier Translational Breast Cancer Research Unit, London Regional Cancer Program, London Health Sciences Centre

Graham Colditz, M.D., Dr.P.H.

Niess-Gain Professor in Medicine, Washington University School of Medicine

Lisa M. Coussens, Ph.D.

Professor, Cancer Research Institute and Anatomic Pathology, University of California, San Francisco

Nancy E. Davidson, M.D.

Breast Cancer Research Chair in Oncology, The Johns Hopkins University School of Medicine, Sidney Kimmel Comprehensive Cancer Center

Carol J. Fabian, M.D.

Director, Breast Cancer Prevention Center, University of Kansas School of Medicine

Montserrat Garcia-Closas, M.D., Dr.P.H.

Senior Investigator, Hormonal and Reproductive Epidemiology Branch, National Cancer Institute, National Institutes of Health

Gregory Hannon, Ph.D.

Investigator, Howard Hughes Medical Institute; Professor, Cold Spring Harbor Laboratory

Daniel F. Hayes, M.D.

Professor, Department of Internal Medicine, University of Michigan

Ann Hernick

Breast Cancer Alliance of Greater Cincinnati

M. Carolina Hinestrosa, M.A., M.P.H.

Nueva Vida

Donald E. Ingber, M.D., Ph.D.

Judah Folkman Professorship of Vascular Biology, Department of Pathology, Harvard Medical School

Elizabeth M. Jaffee, M.D.

Dana and Albert "Cubby" Broccoli Professor of Oncology, Johns Hopkins University

Stephen Albert Johnston, Ph.D.

Professor, School of Life Science, College of Liberal Arts and Sciences, Arizona State University

CAPT Melissa Kaime, M.D.

Deputy Director, Congressionally Directed Medical Research Programs

Yibin Kang, Ph.D.

Assistant Professor, Department of Molecular Biology, Princeton University

Gottfried Konecny, Ph.D.

Assistant Professor of Medicine, Division of Hematology–Oncology, Department of Medicine, David Geffen School of Medicine, University of California at Los Angeles

Peter P. Lee, M.D.

Assistant Professor of Medicine, Stanford University School of Medicine

Ngina Lythcott, Dr.P.H.

Black Women's Health Imperative

Musa Mayer

AdvancedBC.org

Kate McCarthy-Barnett, Ed.D.

Rhode Island Breast Cancer Coalition

Olufunmilayo (Funmi) I. Olopade, M.D.

Director, Cancer Risk Clinic, University of Chicago Medical Center

Invited Speakers

Soonmyung Paik, M.D.

Director, Division of Pathology, National Surgical Adjuvant Breast and Bowel Project

Morag Park, Ph.D.

Diane and Sal Guerrera Chair in Cancer Genetics, Department of Oncology, McGill University

Malcolm C. Pike, Ph.D.

Professor of Preventive Medicine, Keck School of Medicine, University of Southern California Norris Comprehensive Cancer Center

David R. Piwnica-Worms, M.D., Ph.D.

Professor of Radiology, Division of Biology and Biomedical Sciences, Washington University, St. Louis

Kornelia Polyak, M.D., Ph.D.

Associate Professor of Medicine, Harvard Medical School

Michael F. Press, M.D., Ph.D.

Professor of Pathology, Keck School of Medicine, University of Southern California Norris Comprehensive Cancer Center

Lajos Pusztai, M.D., D.Phil.

Associate Professor of Medicine, Department of Breast Medical Oncology, University of Texas M. D. Anderson Cancer Center

Nirmala Ramanujam, Ph.D.

Associate Professor, Department of Biomedical Engineering, Pratt School of Engineering, Duke University

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Metro DC Breast Cancer Coalition

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Catherine Peachey Fund, Inc.

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Co-Founder, Young Survival Coalition

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Quentin R. Smith, Ph.D.

Chair, Department of Pharmaceutical Sciences, Texas Tech University Health Sciences Center

Thea D. Tlsty, Ph.D.

Professor of Pathology, University of California, San Francisco

Valerie M. Weaver, Ph.D.

Associate Professor of Surgery, University of California, San Francisco

Robert A. Weinberg, Ph.D.

Whitehead Institute for Biomedical Research

Robert Wolcott, Ph.D.

Professor, Technology Industry Management, Kellogg School of Management, Northwestern University

Mary S. Wolff, Ph.D.

Director, Division of Environmental Health Science, Mount Sinai School of Medicine

Alice Yaker, J.D.

SHARE Self Help for Women with Breast or Ovarian Cancer

Co-Chairs and Moderators

Susan Axler

American Cancer Society

Kathleen Ball

Breast Cancer Alliance of Greater Cincinnati

Robert Bazell

Chief Science and Health Correspondent, NBC News

Julie Becker, M.P.H.

President, Women's Health & Environmental Network

Doug Bishop, Ph.D.

Professor, Department of Radiation and Cellular Oncology,
University of Chicago

Vernal Branch

Y-Me National Breast Cancer Organization

Shirley Brown

Women of Color Breast Cancer Survivors' Support Project

Frank Calzone, Ph.D.

Amgen, Inc.

Beverly Canin

Breast Cancer Options

Elyse Caplan

Living Beyond Breast Cancer

Christine Carpenter

Iowa Breast Cancer Edu-action

Ann Chambers, Ph.D.

Director: Pamela Greenaway-Kohlmeier Translational Breast Cancer Research Unit, London Regional Cancer Program, London Health Sciences Centre

Diana Chingos

State of California Breast Cancer Research Council
University of Southern California Norris Cancer Survivorship Advisory Council

Agnes A. Day, Ph.D.

Associate Professor and Interim Chairman, Department of Microbiology, College of Medicine, Howard University

Peggy Devine

Cancer Information and Support Network, Inc.

Didier Dréau, Ph.D.

Assistant Professor, Department of Biology, University of North Carolina, Charlotte

Gail Frankel

Massachusetts Breast Cancer Coalition

Marilie D. Gammon, Ph.D.

Professor of Epidemiology, University of North Carolina at Chapel Hill School of Public Health

Joe Gray, Ph.D.

Director, Division of Life Sciences, Lawrence Berkeley National Laboratory; Professor, Laboratory Medicine and Radiation Oncology, University of California, San Francisco

Vikas Gulani, M.D., Ph.D.

Assistant Professor of Radiology, Case Western Reserve University

Deb Haggerty

Florida Breast Cancer Coalition Research Foundation

Kathleen Harris

Wisconsin Breast Cancer Coalition

Lyndsay N. Harris, M.D.

Director, Breast Cancer Program, Yale University School of Medicine

Patricia Haugen

South Dakota Breast Cancer Coalition

Dawn Hershman, M.D.

Assistant Professor of Medicine, Columbia University

COL Ismail Jatoi, M.D.

Department of Surgery, National Naval Medical Center

Natalie Kase

American Cancer Society

Jan Kitajewski, Ph.D.

Associate Professor, Institute for Cancer Genetics, Columbia University

Amy S. Lee, Ph.D.

Professor of Biochemistry & Molecular Biology, Norris Comprehensive Cancer Center, Keck School of Medicine, University of Southern California

Mildred Leigh-Gold

Milwaukee Breast and Surgical Cancer Awareness Program

H. Kim Lyerly, M.D.

Director, Duke Comprehensive Cancer Center

Ngina Lythcott, Dr.P.H.

Black Women's Health Imperative

Ginny Mason

Inflammatory Breast Cancer Research Foundation

Lynn M. Matrisian, Ph.D.

Professor and Chair, Cancer Biology, Vanderbilt-Ingram Cancer Center, Vanderbilt University

Carol Matyka

CARE Advocates

Sofia D. Merajver, M.D., Ph.D.

Professor, Department of Internal Medicine, University of Michigan Comprehensive Cancer Center

Co-Chairs and Moderators

Christine Norton

Minnesota Breast Cancer Coalition

Olufunmilayo (Funmi) I. Olopade, M.D.

Director, Cancer Risk Clinic, University of Chicago Medical Center

Suzanne Ostrand-Rosenberg, Ph.D.

Robert and Jane Meyerhoff Chair of Biochemistry, Department of Biological Sciences, University of Maryland, Baltimore County

Jane Perlmutter

Y-Me National Breast Cancer Organization

Malcolm C. Pike, Ph.D.

Professor of Preventive Medicine, Keck School of Medicine, University of Southern California Norris Comprehensive Cancer Center

David R. Piwnica-Worms, M.D., Ph.D.

Professor of Radiology, Division of Biology and Biomedical Sciences, Washington University, St. Louis

Donald B. Plewes, Ph.D.

Professor, Medical Physics and Medical Biophysics, Sunnybrook Health Sciences Centre, University of Toronto

Kornelia Polyak, M.D., Ph.D.

Associate Professor of Medicine, Harvard Medical School

Michael F. Press, M.D., Ph.D.

Professor of Pathology, Keck School of Medicine, University of Southern California Norris Comprehensive Cancer Center

Nirmala Ramanujam, Ph.D.

Associate Professor, Department of Biomedical Engineering, Pratt School of Engineering, Duke University

Rosemary Rosso, J.D.

Metro DC Breast Cancer Coalition

Lupe G. Salazar, M.D.

Acting Instructor, Department of Medicine, Division of Oncology, University of Washington

Ivis Sampayo

Latina SHARE

Regina M. Santella, Ph.D.

Professor of Environmental Health Sciences, Mailman School of Public Health, Columbia University

Helen Schiff

SHARE Self Help for Women with Breast or Ovarian Cancer

George Sledge, Jr., M.D.

Ballve Lantero Professor of Oncology, Department of Medicine, Indiana University

Mark Sliwkowski, Ph.D.

Department of Research Oncology, Genentech, Inc.

Mary Lou Smith

Research Advocacy Network

Sandy Snedecor

University of Michigan, Breast Cancer Advocacy

Patricia S. Steeg, Ph.D.

Head, Women's Cancers Section, Laboratory of Molecular Pharmacology, National Cancer Institute, National Institutes of Health

Martin P. Tornai, Ph.D

Associate Professor, Department of Radiology, Duke University Medical Center

Erik Thompson, Ph.D.

Principal Research Fellow, Department of Surgery, St. Vincent's Hospital, University of Melbourne

Vicki Tosher

Colorado Breast Cancer Coalition

Linda Vincent

University of California, San Francisco Breast SPORE Advocacy Core

Fran Visco, Esq.

National Breast Cancer Coalition

Horst von Recum, Ph.D.

Assistant Professor, Case Western Reserve University

Sandy Walsh

California Breast Cancer Organizations

Maria Wetzel

Mendocino Cancer Resource Center

Kay Wissmann

Y-Me National Breast Cancer Organization

COL Stacey Young-McCaughan, R.N., Ph.D.

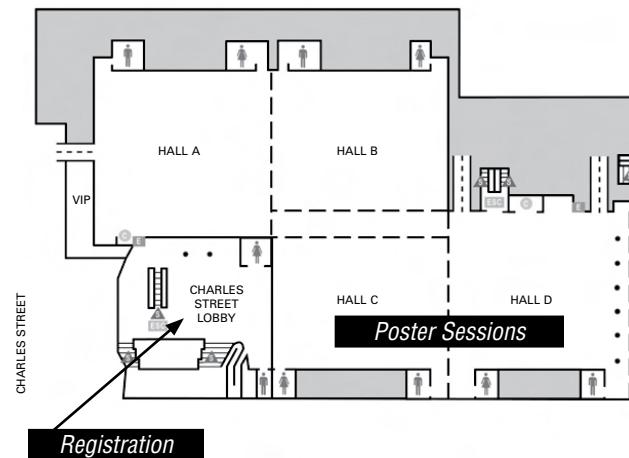
Brooke Army Medical Center

Alice Yaker, J.D.

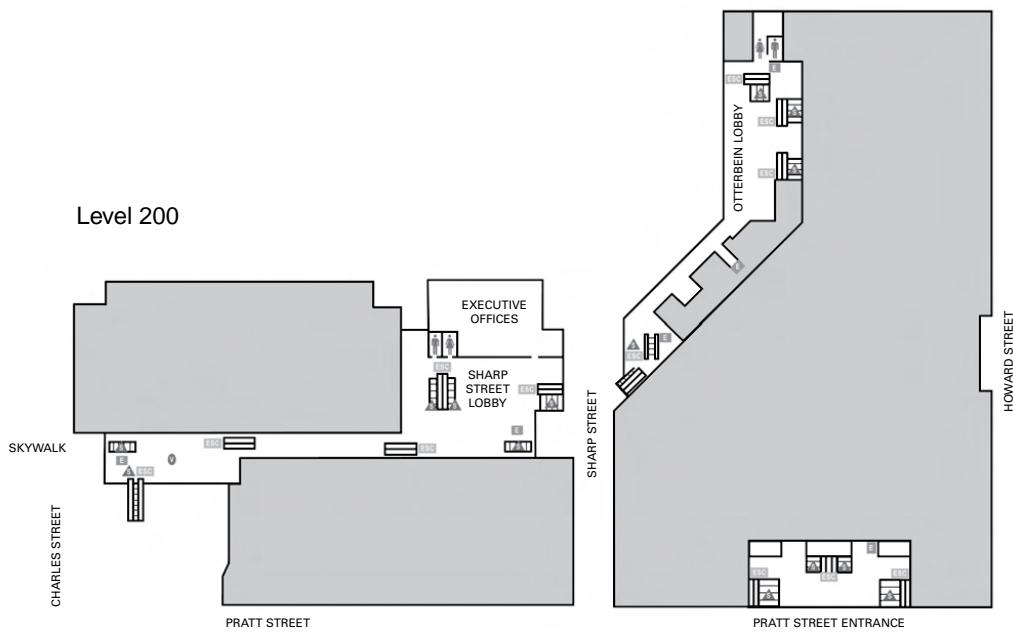
SHARE Self Help for Women with Breast or Ovarian Cancer

Baltimore Convention Center Floorplans

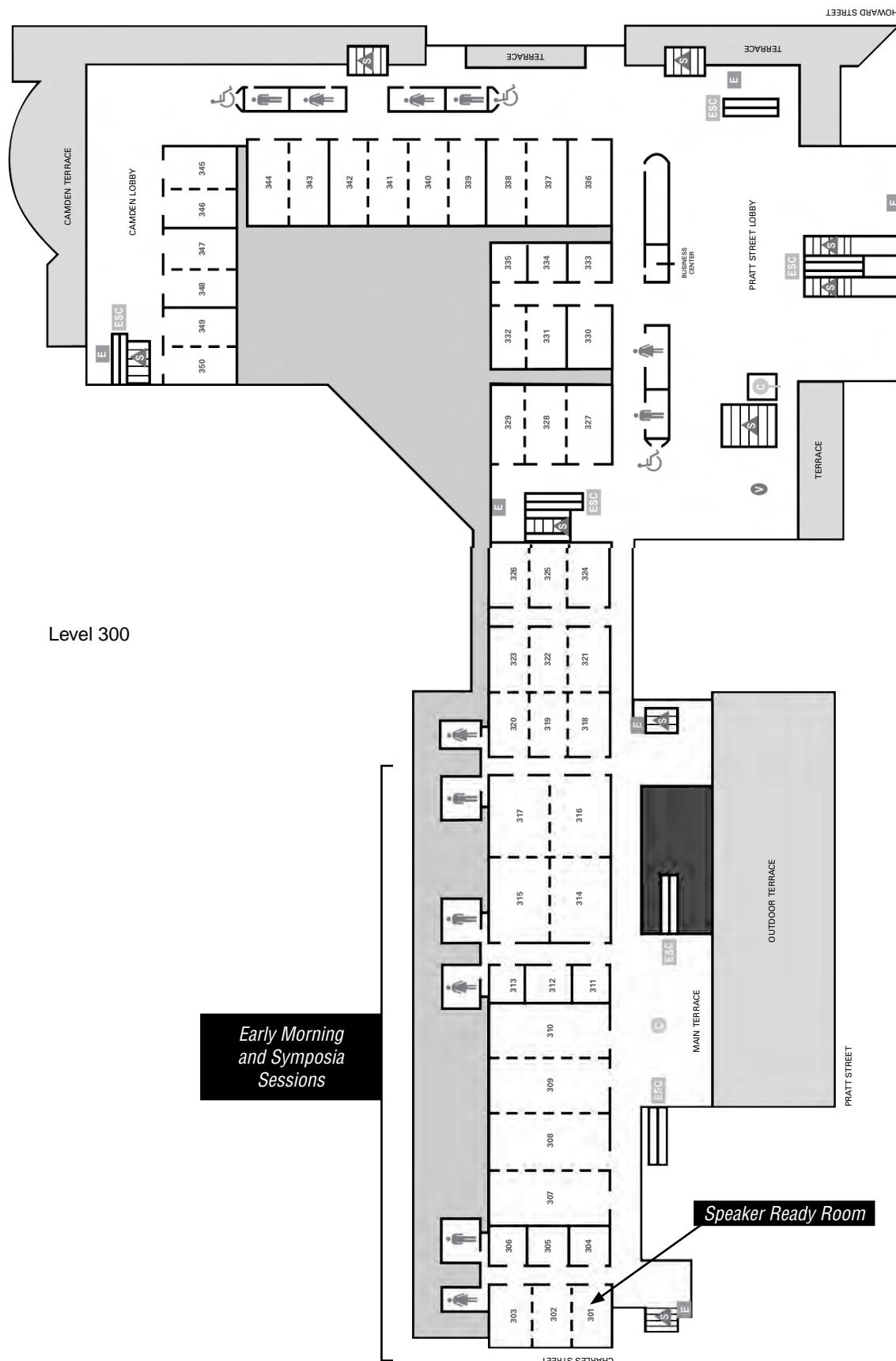
Level 100



Level 200



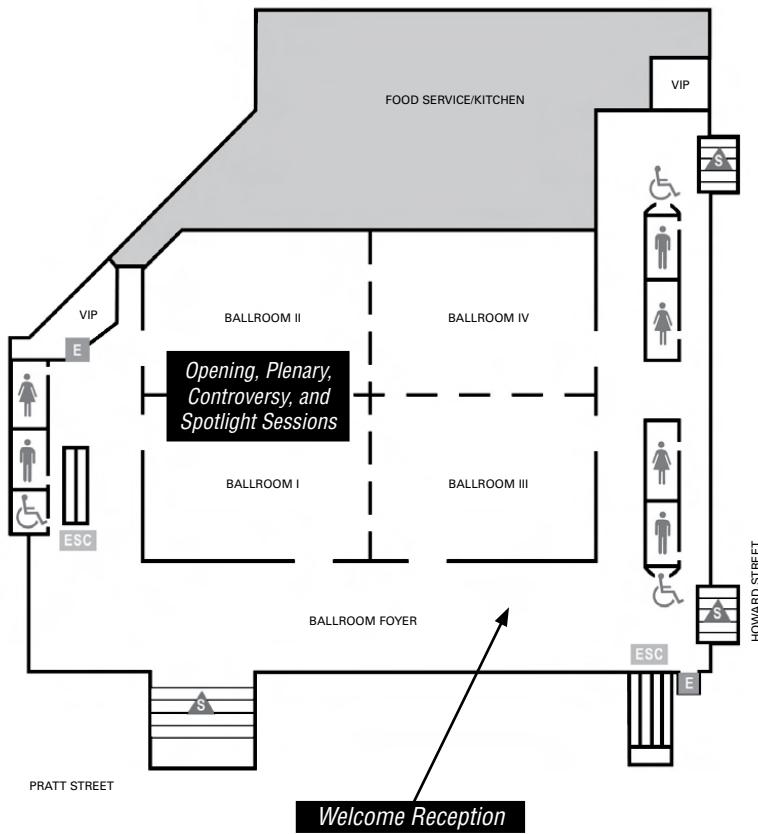
Baltimore Convention Center Floorplans



Level 300

Baltimore Convention Center Floorplans

Level 400



General Information

All events will start and end on time.

Your promptness and consideration for the speakers who have devoted significant time to the preparation of outstanding presentations are deeply appreciated.

Meeting Location

The Baltimore Convention Center
One West Pratt Street
Baltimore, MD 21201

This is a Non-Smoking Meeting.

Registration & Information Center

***The Baltimore Convention Center,
Charles Street Lobby***

All participants must register for the meeting. Registration includes: (1) admittance to all scientific and poster sessions, (2) refreshments concurrent with the Technical Program sessions, and (3) one copy of the Conference Proceedings and Program Book, plus conference materials.

Name Badges

Name badges must be worn at all times for admission to all sessions.

On-Site Registration Hours

Wednesday, June 25, 2008, 12:00 noon – 8:00 PM

Thursday, June 26, 2008, 7:00 AM – 7:00 PM

Friday, June 27, 2008, 7:00 AM – 7:00 PM

Saturday, June 28, 2008, 7:00 AM – 1:00 PM

Shuttle Service

Bus Shuttle Service will be provided to and from The Baltimore Convention Center from the following hotels:

Renaissance Harborplace –front of hotel

Marriott Inner Harbor – Eutaw Street

Sheraton City Center – Liberty Street Entrance

Radisson Plaza Lord Baltimore – same as Sheraton City Center

Hours of operation

Wednesday, June 25, 2008, 11:30 AM – 11:00 PM

Thursday, June 26, 2008, 6:30 AM – 10:30 PM

Friday, June 27, 2008, 6:30 AM – 11:00 PM

Saturday, June 28, 2008, 6:30 AM – 4:00 PM

Special Assistance

The DOD is committed to making this meeting accessible to all participants. Registrants with special requirements for transportation or hotel accommodations should inform the conference staff in advance of the meeting by calling Mary Ann Wood at (877) 446-7344 or by sending an e-mail to eraofhope@saic.com.

Hospitality Lounge

A Hospitality Lounge is available for all meeting participants during conference hours on the 300 level of the Baltimore Convention Center.

Internet Access

Seven terminals with free Internet access will be available in the Charles Street Lobby near the registration area.

Speaker Ready Room

The Speaker Ready Room will be located in Room 301 and will be staffed to assist presenters. Speakers are required to use the equipment in this area to check the order and position of their slides before the sessions in which they are scheduled to appear. This room opens at 3:00 PM on Wednesday, June 25, from 6:00 AM to 7:00 PM on Thursday, June 26 and Friday, June 27, and 6:00 AM to 1:00 PM on Saturday, June 28. Speakers should turn in their presentation disks, drives, or slides to a staff member in the Speaker Ready Room upon arrival at the meeting and not less than 3 hours prior to their session. See page 18 for more information.

Message Center

Messages will be posted on the message board (near the Registration Center). Message boards will also be available in the Hospitality Lounge area. Era of Hope conference staff will be available to answer questions and assist you throughout the meeting.

Early Morning Sessions

Seven to eight sessions are scheduled to run concurrently during each early morning block starting at 7:00 AM; participants may move among Early Morning Sessions. Presenters are asked to adhere to the strict time schedule of 1 hour including presentations plus questions and answers.

Symposia Sessions

Eight sessions are scheduled to run concurrently during each Symposia block, and participants may move among Symposia. Presenters are asked to adhere to the strict time schedules. All Symposia presentations will be 10 minutes in length; questions will be held to the end of the session for all speakers.

Poster Sessions

Posters will be exhibited in Exhibit Halls A–D. Poster board assignments and sessions can be found beginning on page 40. Informational kiosks detailing the exact location of each poster will be located throughout the Exhibit Hall.

All individuals with invited abstracts are obliged to have their posters assembled and ready for display in the Exhibit Hall by 6:00 PM on Wednesday June 25. Poster boards will be available for setup beginning at 1:00 PM, Wednesday, June 25. Investigators must be at their posters during the times designated for their Poster Sessions. Within each Poster Session, odd-numbered poster presenters must man their posters during the first 90 minutes of the session; even-numbered, during the second 90 minutes.

General Information

All posters must remain on display until 1:00 PM on Saturday, June 28. Materials must be removed by 3:00 PM on Saturday, June 28.

Welcome and Poster Session/Receptions

All registrants are invited and encouraged to attend the following activities that have been planned as additional opportunities to interact with colleagues and make new acquaintances with similar interests:

Poster Session with Welcome Reception — Wednesday, 8:30 PM

Poster Session/Reception — Thursday, 6:30 PM and Friday, 7:00 PM

Lunch

A Box Lunch will be provided during the Closing Session on Saturday, June 28, 2008. Attendees will be on their own for lunch on Thursday, June 26 and Friday, June 27. A variety of restaurants are within walking distance from the Baltimore Convention Center. Several concession stands in the convention center will be open for food and beverage purchases, including concessions in Poster Hall.

Conference Services—Registration and

Travel

SAIC Conference Services will be handling registration for the Era of Hope meeting. If you have questions, please see a registration staff member. There is no registration fee to attend this meeting.

A staff member will be on site to assist attendees traveling on through SAIC Travel.

Transportation

The Baltimore Convention Center, Sheraton Inner Harbor, Hyatt Regency Baltimore on the Inner Harbor, Sheraton City Center, Baltimore Marriott Inner Harbor at Camden Yards, Radisson Lord Baltimore, and Renaissance Harborplace hotels are located approximately 25 minutes from Baltimore/Washington International (BWI) Thurgood Marshall Airport.

Taxi

The BWI taxi stand is located just outside of the baggage claim area of the lower level of the BWI Airport Terminal. The estimated fare to downtown Baltimore is \$32. Flat rates are illegal in Maryland.

Local Transit System

Light Rail service provided by the Maryland Transit Administration is available to and from downtown Baltimore. A one-way fare is \$1.60 and can be purchased at vending machines located in the station. General hours of operation are Monday through Saturday, 6:00 AM–11:00 PM and Sunday 11:00 AM–7:00 PM. Please see schedules for detailed times: www.mtmaryland.com/services/lightrail/schedule/.

Airport Shuttle Service

The Airport Shuttle, Inc., has offered Era of Hope attendees a special group rate of \$16.00 for one-way transportation to or from BWI airport. From the airport, your flight is traced in real time. You go directly to the vehicle from baggage claim. From your hotel, you are given a pick-up time based on your BWI flight departure time. There are no more than 2 stops at hotels. Call 1-800-776-0323 to make a reservation. Please be sure to use the group profile number: 136880

Abstracts on the Internet

All preregistered participants will receive one copy of the Conference Proceedings and Program Book. Additionally, Scientific Abstracts that were provided to conference organizers will be available on the Era of Hope Internet home page: <https://cdmrpcures.org> and <http://cdmrp.army.mil/bcrp/era/default.htm>

Press Relations

The Press Office is located in the Room 302. All members of the press should report to the Press Room to register. Heather Sansbury is the Era of Hope Press Manager. All press activities will be managed by Scott Shadiow of Dorland.

Questions



Overall Direction:
Rob Watson, SAIC
Conference Manager



Consumers/Speakers Reimbursements:

Biddy Ditko, SAIC

Phone: (240) 529-0420 Fax: (301) 846-0794

e-mail: eraofhope@saic.com

Abstracts/Poster Presentations/Audiovisuals:

Mary Ann Wood, SAIC

Abstract and Conference Coordinator

Phone: 1-877-4-Hope44 Fax: (301) 846-0794

e-mail: eraofhope@saic.com

Audiovisual Guidelines for All Presentations

Please read and follow the guidelines below to ensure that your slide presentation will be compatible with equipment used at the Era of Hope meeting.

Please note: We will not be able to connect your personal computer to the meeting room projector so it is important that you adhere to these guidelines.

Please do not bring laptop computers to use during your presentation.

All speakers are required to submit presentation slides through the Speaker Ready Room.

The Speaker Ready Room is located in Room 301 and will be staffed to assist presenters with uploading their slides for presentation. Speakers should use the equipment in the Speaker Ready Room to check the order and position of their slides no less than 3 hours before the sessions in which they are scheduled to appear. This ensures compatibility with equipment used in each meeting room.

Speaker Ready Room Schedule

Wednesday, June 25, 2008, 3:00 – 7:00 PM

Thursday, June 26, 2008, 6:00 AM – 7:00 PM

Friday, June 27, 2008, 6:00 AM – 7:00 PM

Saturday, June 28, 2008, 6:00 AM – 1:00 PM

Speakers are required to turn in their presentations to a staff member in the Speaker Ready Room, preferably upon arrival at the meeting or no later than 3 hours prior to their session.

Presentations will be projected using Microsoft (MS) PowerPoint 2003. Your presentation must be on a USB flash drive (thumb drive) or a PC-compatible CD-ROM/DVD and must be in MS PowerPoint (Office 2000, 2003, or XP). If you prepare your presentation in MS Office 97, please check the formatting changes by opening it in Office 2003.

MS Office 2007 users

If you are using MS PowerPoint 2007, you will need to save a copy of your document as a PowerPoint 97–2003 file. Please note that PowerPoint 97–2003 does not recognize the new SmartArt graphics and visual objects that are available in PowerPoint 2007 and will convert them to bitmaps to maintain their appearance, which will restrict editing capabilities.

Macintosh users

Your presentation must be prepared to run on a PC. If you have prepared it on a Mac, it is highly recommended that you test your file on a PC running MS Office 2003 prior to coming to the meeting. There may be some graphics and/or videos that will not project properly from a PC. The Speaker Ready Room will have a Mac available to help troubleshoot problems; however, it is important to plan accordingly and allow enough time prior to your presentation (at least 3 hours before your presentation) for necessary testing and troubleshooting. We will attempt to fix any of these problems that occur if given enough time but cannot guarantee that all issues will be resolved.

Font recommendations

Arial or Times New Roman used for text; Symbol and Monotype Sorts will also be supported. Other fonts will not necessarily be available and could cause formatting issues.

Supported video formats in PowerPoint

Recommended video formats for video links in PowerPoint presentations are wmv and avi files. Mpg and Quicktime (.mov) file formats can be problematic on PCs. It is important that you bring your video files along with your PowerPoint files so they can be relinked appropriately on our computers and that you let the Speaker Ready Room staff know that there are videos in your presentation. Again, it is important to plan enough time to troubleshoot any problems so please provide 3 hours prior to your presentation to help ensure appropriate setup of files.

Program at-a-Glance

Wednesday, June 25, 2008

Program at-a-Glance

Thursday, June 26, 2008

EARLY MORNING SESSIONS							Registration 7:00 AM– 7:00 PM	Poster Board/ Exhibitor Setup 7:00 AM– 3:00 PM
7:00–8:00 AM	Room 307 Case Study: Environmental Exposures and Breast Cancer	Room 308 Clinical Trial Design	Room 309 Progress Toward Breast Cancer Vaccines	Room 310 Advocates in Research	Room 314 Tumor Micro-environment	Room 315 Genome-Wide SNPs	Room 316 The DOD Breast Cancer Research Program	
8:00–8:30 AM								BREAK
8:30–8:45 AM								Welcome and Moment of Silence – Ballrooms I and II
8:45–10:15 AM								PLENARY SESSION – Ballrooms I and II
10:15–10:30 AM								Risk and Prevention Across the Spectrum of Breast Cancer
10:30 AM – 12:30 PM	Room 307 Symp. 1 – Exploring the Origins of Breast Cancer Stem Cells	Room 308 Symp. 2 – Harnessing the Immune System: Therapeutic Vaccines	Room 309 Symp. 3 – Examining Outcomes in Breast Cancer: Nature, Nurture, Culture, Place	Room 310 Symp. 4 – Dilemmas in Breast Cancer Carcinogenesis	Room 314 Symp. 5 – Progress in Progression	Room 315 Symp. 6 – A New Arsenal for Combating Breast Cancer	Room 316 Symp. 7 – Epigenetics: More Than Just Genes	Symp. 8 – We Shall Overcome: Resistance to Hormonal Therapy
12:30–2:00 PM								LUNCH
2:00–4:00 PM	Room 307 Symp. 9 – Dimming the Blood-Red Tide: Preclinical Models of Antiangiogenic Therapy	Room 308 Symp. 10 – Mammary Development: What Sets the Stage for Increased Risk?	Room 309 Symp. 11 – Estrogenic and Breast Cancer Risk	Room 310 Symp. 12 – New Eyes on Breast Cancer: Imaging Technology for the New Millennium	Room 314 Symp. 13 – Inflammatory Breast Cancer	Room 315 Symp. 14 – Modifiable Risk Factors	Room 316 Symp. 15 – Threading the Needle: Targeting Breast Cancer Metastasis	Symp. 16 – Targeted Therapeutics: Are We Hitting the Mark?
4:00–4:15 PM								BREAK
4:15–6:15 PM								CONTROVERSY SESSION – Ballrooms I and II
6:15–6:30 PM								Controversial Issues in Breast Cancer Treatment
6:30–9:30 PM								BREAK
								POSTER SESSION*/RECEPTION – Exhibit Halls A and B
	P2 Breast Cancer Centers of Excellence I P3 HBCU/MI Partnership Training Awards I P4 Translational Research Awards I P5 Clinical Management of Breast Cancer Complementary and Alternative Medicine P6 Health Care Delivery P7 Detection and Diagnosis I P8 Magnetic Resonance Imaging I P9 Functional Imaging I P10 Nanotechnology I P11 Lifestyle and Nutrition I P12 Epidemiology I P13 Risk and Prevention	P15 Drug Discovery and Development I P16 Experimental Therapeutics I P17 Immune-Based Therapies I P18 Targeted Therapies I P19 Antiangiogens I P20 Drug Resistance I P21 Biomarkers I P22 Stem Cells I P23 Cellular Development P24 Functional Study of Biological Molecules I P25 Genomic Instability P26 Genomics and Proteomics I P27 Hormone Receptors I	P28 Endocrine Pathogenesis I P29 Apoptosis P30 Signal Transduction I P31 Tumor Suppressor Genes I P32 BRCA1 & BRCA2 Tumor Suppressors I P33 Oncogenes I P34 Stromal-Epithelial Interactions I P35 Tumor Progression I P36 Cell Migration/Invasion I P37 Metastasis I P38 Bone Metastasis					

Program at-a-Glance

Friday, June 27, 2008

EARLY MORNING SESSIONS							Poster Board/ Exhibitor Setup 7:00 AM– 3:00 PM	
7:00–8:00 AM	Room 307 Use of Biomarkers in Neoadjuvant and Prevention Clinical Research	Room 308 Tissues of the Future	Room 309 Breast Density and Risk Issues in Pathology	Room 310 Radiation and Radio-sensitizers	Room 314 Cancer Immunoeediting: Therapeutic Implications and Brain Metastasis	Room 315 The Blood-Brain Barrier	Room 316 Poster Board/ Exhibitor Setup 7:00 AM– 3:00 PM	
8:00–8:30 AM				BREAK				
8:30–8:45 AM								
8:45–10:15 AM								
10:15–10:30 AM								
10:30 AM – 12:30 PM	Symp. 17 – Genomics and Proteomics: What Are Tumors Telling Us?	Symp. 18 – Immune and Inflammatory Contributions to Breast Cancer	Symp. 19 – Emerging Technologies	Symp. 20 – Translational Imaging: Almost Ready for Prime Time?	Symp. 21 – Epigenetic Mechanisms for Risk Assessment and Treatment	Symp. 22 – The Path to Chemoresistance: Roadblocks and Detours	Symp. 24 – Decisions, Decisions: Clinician–Patient Interactions	
12:30–2:00 PM				LUNCH				
CONCURRENT SYMPOSIA SESSIONS III								
Room 307	Room 308	Room 309	Room 310	Room 314	Room 315	Room 316	Room 317	
2:00–4:00 PM	Symp. 25 – Center of Excellence Discussion: Spanning the Complexity of Brain Metastasis	Symp. 26 – Novel Targets in Stem Cell Signaling	Symp. 27 – Aiming at New Targets for Breast Cancer Therapy	Symp. 28 – Correlating Life Course Approaches and Risk	Symp. 29 – Angiogenesis, Involution, and Tumor Progression	Symp. 30 – Immune- Based Therapeutics Based on the Genetics of Breast Cancer Susceptibility	Symp. 31 – Decoding Molecules to Women: Molecular and Functional Imaging	
4:00–4:30 PM				BREAK				
4:30–5:30 PM								
5:30–6:45 PM								
6:45–7:00 PM								
POSTER SESSION*/RECEPTION – Exhibit Halls C and D								
7:00–10:00 PM	P39 Breast Cancer Centers of Excellence II P40 HBCU/M Partnership Training Awards II P41 Translational Research Awards II P42 Detection and Diagnosis II P43 Magnetic Resonance Imaging II P44 Nanotechnology II P45 Lifestyle and Nutrition II P46 Epidemiology II P47 Behavioral Sciences P48 Quality of Life P49 Drug Discovery and Development II P50 Experimental Therapeutics II	P51 Immune-Based Therapies II P52 Tumor Immunology P53 Targeted Therapies II P54 Drug Resistance II P55 Biomarkers II P56 Stem Cells II P57 Cell Cycle P58 Functional Study of Biological Molecules II P59 Genetic Risk P60 Transcription, Translation, and Modification P61 Genomics and Proteomics II P62 Hormone Receptors II	P51 Immune-Based Therapies II P52 Tumor Immunology P53 Targeted Therapies II P54 Drug Resistance II P55 Biomarkers II P56 Stem Cells II P57 Cell Cycle P58 Functional Study of Biological Molecules II P59 Genetic Risk P60 Transcription, Translation, and Modification P61 Genomics and Proteomics II P62 Hormone Receptors II	P63 Endocrine Pathogenesis II P64 Angiogenesis P65 Signal Transduction II P66 Tumor Suppressor Genes II P67 BRCA1 & BRCA2 Tumor Suppressors II P68 Oncogenes II P69 Stromal–Epithelial Interactions II P70 Mammary Gland Development P71 Tumor Progression II P72 Cell Migration/Invasion II P73 Metastasis II				

Program at-a-Glance

Saturday, June 28, 2008

EARLY MORNING SESSIONS							Poster Board/ Exhibitor Hall 7:00 AM– 3:00 PM	
7:00–8:00 AM	Room 307 Case Study: Women's Health Initiative	Room 308 Modulation of Recombinase RAD51: Implications for Breast Cancer Etiology and Treatment	Room 309 Tumor Dormancy	Room 310 Estrogen Receptor Negative (ER-) Breast Cancer	Room 314 Breast Cancer Stem Cells – 5 Years Later	Room 315 Multigene Biomarker Signatures: Why Are There So Many?	Room 316 Dynamic Molecular Imaging of Signal Transduction Pathways In Vivo	Registration 7:00 AM– 1:00 PM
8:00–8:30 AM					BREAK			
8:30–8:45 AM						Welcome and Moment of Silence – Ballrooms I and II		
8:45–10:15 AM						PLENARY SESSION – Ballrooms I and II		
10:15–10:30 AM						Managing Breast Cancer Across the Spectrum of Disease		
					BREAK			
CONCURRENT SYMPOSIA SESSIONS V								
10:30 AM – 12:30 PM	Room 307 Symp. 33 – Molecular Pathogenesis of Breast Cancer Progression	Room 308 Symp. 34 – Innovations in Breast Cancer Management	Room 309 Symp. 35 – Breast Cancer in Underserved Populations	Room 310 Symp. 36 – Patient-to-Laboratory Approaches to Understanding Estrogen Receptor Signaling	Room 314 Symp. 37 – What's New in Her2 Resistance?	Symp. 38 – Making the Connections: Multimodality Imaging	Symp. 39 – Environmental Impact on Gene Expression	Symp. 40 – Novel Candidates for Targeting Angiogenesis
12:30–1:00 PM				BREAK WITH BOXED LUNCH				
1:00–2:30 PM					CLOSING SESSION – Ballrooms I and II			
2:30–2:45 PM					Armchair Discussion: How Will We Eradicate Breast Cancer?			
					CLOSING REMARKS – Ballrooms I and II			

Agenda

June 25 & 26, 2008

Wednesday, June 25, 2008

Noon – 8:00 PM	Registration	Charles Street Lobby
1:00 – 6:00 PM	Poster Setup	Exhibit Halls A-D
6:00 – 6:30 PM	WELCOME AND MOMENT OF SILENCE	Ballrooms I and II
	MG George W. Weightman; COL Janet Harris; Graham Casey; Carolina Hinestrosa	
6:30 – 8:15 PM	OPENING SESSION – Armchair Discussion of Unanswered Questions	Ballrooms I and II
	Co-Moderators: Bob Bazell and Fran Visco Olufunmilayo Olopade Dennis Slamon Graham Colditz Bob Weinberg Christine Brunswick	
8:15 – 8:30 PM	Break	
8:30 – 10:00 PM	POSTER SESSION/OPENING RECEPTION P1 Innovator, Era of Hope Scholar, and Era of Hope Postdoctoral Awards	Ballroom Foyer

Thursday, June 26, 2008

7:00 AM – 7:00 PM	Registration	Charles Street Lobby
7:00 AM – 3:00 PM	Poster Setup	Exhibit Halls A-D
7:00 – 8:00 AM	EARLY MORNING SESSIONS	
	Case Study: Environmental Exposures and Breast Cancer Mary Wolff	Room 307
	Clinical Trial Design Don Berry	Room 308
	Progress Toward Breast Cancer Vaccines Elizabeth Jaffee	Room 309
	Advocates in Research Ann Hernick, Kate McCarthy-Barnett, and Connie Rufenbarger	Room 310
	Tumor Microenvironment Valerie Weaver	Room 314
	Genome-Wide SNPs Montserrat Garcia-Closas	Room 315
	The DOD Breast Cancer Research Program CAPT Melissa Kaime	Room 316
8:00 – 8:30 AM	Break	
8:30 – 8:45 AM	WELCOME AND MOMENT OF SILENCE Vernal Branch	Ballrooms I and II
8:45 – 10:15 AM	PLENARY SESSION: Risk and Prevention Across the Spectrum of Breast Cancer Moderator: Vernal Branch	Ballrooms I and II
	Consumer Perspective on Risk and Prevention Amy Bonoff	
	Physical Activity Present and Future: Reducing Breast Cancer Risk and Mortality Leslie Bernstein	
	Prediction and Modification of Breast Cancer Risk in the Post-Genome Era Tim Rebbeck	
	Abrogated Response to Cellular Stress Identifies DCIS Associated with Subsequent Tumor Events and Defines Basal-Like Breast Tumors Thea Tsly	

Agenda

June 26, 2008

10:15 – 10:30 AM
10:30 AM – 12:30 PM

Break

CONCURRENT SYMPOSIA SESSIONS I

Symposium 1 – Exploring the Origins of Breast Cancer Stem Cells

Room 307

Co-Chairs: Kornelia Polyak and Linda Vincent

Human Mammary Stem Cells Detected Using a Xenotransplant Model Represent a Novel Population

Peter Eirew

DCIS Stem Cells: Investigating the Origin of the Invasive Phenotype

Lance Allen Liotta

Are Mesenchymal Stem Cells the Origin of Carcinoma-Associated Fibroblasts?

Izhab Haviv

Adult Human Mesenchymal Stem Cells Enhance Breast Cancer Tumorigenesis and Promote Hormone Independence

Lyndsay Rhodes

The Origins and Potential Functions of Myofibroblasts in Breast Carcinomas

Matthew Saenzler

Investigation of Stem and Progenitor Subpopulations in Human Breast Tissue from BRCA1 and BRCA2 Carriers

Geoffrey J. Lindeman

Symposium 2 – Harnessing the Immune System: Therapeutic Vaccines

Room 308

Co-Chairs: Lupe Salazar and Jane Perlmutter

Expression, Function, and Vaccine Potential of PDEF in Breast Cancer

Ashwani Sood

Toward a Prophylactic Vaccine for Breast Cancer

Stephen Albert Johnston

Cancer Vaccines Targeting Death Receptor DR5 for TNF-Related Apoptosis-Inducing Ligand (TRAIL)

Wei-Zen Wei

A Novel Breast Cancer Vaccine Using Immunostimulatory Peptides

Davorka Messmer

Telomerase-Specific T-Cell Immunity in Breast Cancer: Effect of Vaccination on Tumor Immunosurveillance

Susan Domchek

Phase II Study of an HER-2 Neu Peptide-Based Vaccine Plus Concurrent Trastuzumab for Prevention of Breast Cancer Relapse

Lupe Salazar

Symposium 3 – Examining Outcomes in Breast Cancer: Nature, Nurture, Culture, Place

Room 309

Co-Chairs: Dawn Herschman and Sandy Snedecor

A New Paradigm for African American Breast Cancer Involving Stem Cell Differentiation in a Breast Tissue Engineering System

Jean Latimer

Mammary Tumor Progression in a Novel Rat Model of Childhood Onset Obesity

Ignacio G. Camarillo

Diabetes, Physical Activity, and Breast Cancer Among Hispanic Women

Maureen Sanderson

Body Composition and Postmenopausal Breast Cancer in Hispanic Women

Gerson Peltz

Community Uninsurance and Breast Cancer Screening

Jose A. Pagan

Breast Cancer Clinical Trials: Geographical Factors in Access to Care

Celia Kaplan

Symposium 4 – Dilemmas in Breast Cancer Carcinogenesis
Co-Chairs: TBD and Connie Rufenbarger

Room 310

Chemopreventive Efficacy of Curcumin in an In Vitro Model for HER-2-Positive, Estrogen Receptor Negative DCIS Breast Cancer
Meena Katdare

Active and Passive Tobacco Smoke Exposure Increases the Somatic Mutational Burden Beginning in the Womb
Stephen G. Grant

Obesity Accelerates Mouse Mammary Tumor Growth in the Absence of Ovarian Hormones
Stephen Hursting

A Genetic, Molecular, and Structural Analysis of Hormonal Carcinogenesis
Michael F. Press

Biomarkers of Breast Cancer Risk and Its Prevention
Ercole L. Cavalieri

Symposium 5 – Progress in Progression
Co-Chairs: TBD and Ivis Sampayo

Room 314

Role of the Erythropoietin Receptor in Breast Cancer Pathobiology
Arthur Sytkowski

Expression of the Erythropoietin Receptor (EpoR) by Mammary Epithelial Cells Results in a Premalignant Phenotype
Laurie Feldman

Erythropoietin Receptor Expression in Breast Cancer Cells: Role in EPO-Mediated Activation of Signal Transduction and Cellular Proliferation and Migration
Murat O. Arcasoy

Identification of Type I IGF Receptor Expression by Antibody-Conjugated Quantum Dots in Breast Cancer
Hua Zhang

The Role of ADAM-9 in Breast Cancer Cell Migration
Jessica L. Fry

Chemical Regulation of Protein Kinases in Breast Cancer
Arvin C. Dar

Symposium 6 – A New Arsenal for Combating Breast Cancer
Co-Chairs: Horst von Recum and Alice Yaker

Room 315

Enzymatically Synthesized Polymeric Catechins Exhibit Potent and Specific Anti-Proliferative Activity
Subhalakshmi Nagarajan

Selective Killing and in Vivo Imaging of Breast Cancer Cells with Short Synthetic DNA Aptamers
Jean Gariepy

Use of Optical Spectroscopy to Monitor Delivery of a Novel Cell Cycle Inhibitor
Gregory M. Palmer

Computational Design of a Small Peptide That Inhibits Breast Cancer
George C. Shields

Radiation Dose Enhancements in Gold Nanoparticle Solutions: A Monte Carlo Simulation with Nanoparticle Geometry
Sean Zhang

The Modified Inkjet Cell Printer as a Tool for Three-Dimensional Breast Tissue Modeling
Cheryl Anne Parzel

Symposium 7 – Epigenetics: More Than Just Genes

Co-Chairs: Regina Santella and Natalie Kase

Room 316

Epigenetic Regulation of Breast Cancer Progression

Sam Thiagalingam

BRCA1 Promoter Methylation Is Associated with Increased Mortality Among Women with Breast Cancer

Jia Chen

DNA Methylation and Breast Cancer Risk

Mary Beth Terry

Promoter Hypermethylation-Mediated Transcriptional Silencing of TP73 Is an Immortalized Event in the Breast Cancer Progression Continuum in the MCF10 Model

Maria J. Worsham

Gene Expression Profiling, Loss-of-Heterozygosity, Comparative Genomic Hybridization, and Gene Methylation Island Analysis of an International Cohort of Women with Locally Advanced Breast Cancer

Silvia C. Formenti

Racial Differences in the Interaction Between DNA Methylation Phenotypes and One Carbon Metabolism Genetic Variants in Normal Breast Tissues

Ramona Dumitrescu

Symposium 8 – We Shall Overcome: Resistance to Hormonal Therapy

Room 317

Co-Chairs: Amy Lee and Helen Schiff

Genomic Evolution of Endocrine-Resistant Breast Cancer Cell Lines Reveals Molecular Aberrations Consistent with Biological Phenotype

Catherine M. Mancini

Comparative Gene Expression Profiling to Identify Unifying and Selective Pathways Involved in Tamoxifen, Raloxifene, and Aromatase Inhibitor-Resistant Breast Cancer Xenograft Tumors

Eric A. Ariazi

Endocrine Therapy of Breast Cancer

Robert Clarke

Tamoxifen-Stimulated Growth of Breast Cancer due to p21 Loss

John Gustin

The Unfolded Protein Response Regulator GRP78 as a Novel Target for Increasing Sensitivity of Human Breast Cancer Cells to Antiestrogen Therapy

Amy S. Lee

The NF κ B Inhibitor Parthenolide Restores Sensitivity to 4-Hydroxy Tamoxifen Through Apoptotic Pathways Involving TNFR1 and Bcl-2 in Antiestrogen-Resistant MCF-7 Breast Cancer Cells

Ruchi Nehra

12:30 – 2:00 PM

Lunch

2:00 – 4:00 PM

CONCURRENT SYMPOSIA SESSIONS II

Symposium 9 – Dimming the Blood-Red Tide: Preclinical Models of Antiangiogenic Therapy

Room 307

Co-Chairs: Donald Ingber and Maria Wetzel

Transcriptional Profile of Vascular Tissue Identifies Distinct Subtypes of Vasculature and Predicts Clinical Outcome in Breast Cancer

Francois Pepin

Angiotensin-(1-7) Inhibits the Growth of Human Triple-Negative Breast Tumors in an Orthotopic Model

David Ricardo Soto-Pantoja

Effects of Synthetic Disintegrins on Breast Cancer in Mice

Dale G. Hoyt

Small Molecule Inhibitors of Cadherin-11

Stephen Byers

Notch3-Jagged1 Expression Regulates TGF β -Dependent Anchorage-Independent Growth and Bone Metastasis of Breast Cancer Cells

Zhiyuan Zhang

Symposium 10 – Mammary Development: What Sets the Stage for Increased Risk?
Co-Chairs: Frank Calzone and Kathleen Ball

Room 308

Cross-Species Analyses of Genomic Changes in Mammary Cancer
Jeffrey Green

Pten Tumor Suppressor Function Is Critical in the Tumor Microenvironment
Gustavo Leone

Phosphorylation Sites That Regulate c-Myc Protein Stability and Oncogenic Potential
Rosalie C. Sears

In Vivo Role of the Six1 Homeoprotein in Mammary Gland Tumorigenesis
Erica McCoy

The Role of FKHR in Mammary Gland Development, Involution, and Tumorigenesis
Rachel Schiff

Defective Mammary Gland Development by NHERF1 Gene Deletion
Jiale Dai

Symposium 11 – Estrogenicity and Breast Cancer Risk
Co-Chairs: Malcolm Pike and Kathleen Harris

Room 309

Breast Cancer Risk Reduction: Effect of Dietary Fat and Fatty Acids on Plasma Estrogen and Testosterone Indices in Postmenopausal Women
Susan Raatz

Foods and Food Groups Associated with Follicular Total and Free Estradiol Levels in Premenopausal Women
Junaidah Bajrai Barnett

Estrogenicity of a Broad Spectrum of Medicinal Botanical Extracts
Patricia K. Eagon

Mammary Cancer Chemoprevention with the Polyphenol Resveratrol
Timothy Whitsett, Jr.

Unmasking Stem/Progenitor Cell Properties Using Short-Term Transplantation
Michael T. Lewis

Mammographic Density Does Not Predict Response to Tamoxifen
Victoria Seewaldt

Symposium 12 – New Eyes on Breast Cancer: Imaging Technology for the New Millennium Room 310
Co-Chairs: Martin Tornai and Vernal Branch

Detection and Evaluation of Early Breast Cancer via Magnetic Resonance Imaging: Studies of Mouse Models and Clinical Implementation
Sanaz Arkani Jansen

Neutron-Stimulated Emission-Computed Tomography for Detection of Breast Cancer
Anuj J. Kapadia

Recent Advances in Microwave Detection of Breast Cancer: A Compact Low-Cost Reflectometer and Enhanced Sensing Modality That Couples Dielectric and Elastic Properties Contrasts
Susan C. Hagness

Subharmonic Ultrasound Contrast Imaging of Breast Masses: Preliminary Results
Flemming Forsberg

Initial Callback Rates for Conventional and Digital Breast Tomosynthesis Mammography Comparison in the Screening Setting
Richard H. Moore

In Vivo Detection and Characterization of Mammary Tumors in a Murine Model System
Eric Blue

Symposium 13 – Inflammatory Breast Cancer

Co-Chairs: Sofia Merajver and Ginny Mason

Room 314

Akt1, not Akt2, Is Involved in RhoC GTPase-Mediated Invasion of Inflammatory Breast Cancer Cells

Kenneth Louis Van Golen

Investigation of Inflammatory Breast Cancer Biology and Potential Therapeutic Approaches

Michaela Hoffmeyer

E-Cadherin Levels Predict Outcome in Inflammatory Breast Cancer

Paul Howard Levine

Inflammatory Breast Cancer Pathogenesis Mediated by Translation Initiation Factor eIF4G**Overexpression and Unorthodox Protein Synthesis**

Robert Schneider

Symposium 14 – Modifiable Risk Factors

Room 315

Co-Chairs: COL Stacey Young-McCaughan and Mildred Leigh-Gold

The Impact of Adipose Stromal Cells on the Behaviors of Breast Cancer Cells

Rong Li

A Novel Unidirectional Cross Talk from the Insulin-Like Growth Factor-I Receptor to Leptin Receptor in Human Breast Cancer Cells

Rita Nahta

Obesity, Energy Balance, and Breast Cancer: Differential Effects of Calorie Restriction and Treadmill Exercise in p53-Deficient Mice

Stephen Hursting

Breast Cancer Growth and Metastasis in a Rat Model of Type 1 Diabetes Mellitus

Carrie J. Merkle

Symposium 15 – Threading the Needle: Targeting Breast Cancer Metastasis

Room 316

Co-Chairs: Ann Chambers and TBD

Heterogeneity of Breast Cancer Metastases: Comparison of Therapeutic Target Expression and Promoter Hypermethylation Between Primary Tumors and Their Multifocal Metastases

Pedram Argani

COX2 Expression Correlates with Bone Marrow Micrometastases in Patients with Stage I-III Breast Cancer

Anthony Lucci

Novel Approaches to Target the COX-2 Pathway to Reduce Breast Cancer Metastasis

Dawn Holt

Antimetastatic Therapy with WX-UK1 and WX-671 for the Treatment of Breast Cancer: Phase I Results and Phase II Design

Bernd Muehlenweg

Self-Seeding: A Novel Mechanism Linking Tumorigenesis and Metastasis

Miyoung Kim

Rapid Intra-Operative Diagnosis of Sentinel Lymph Node Metastasis in Breast Cancer Utilizing Scanning Elastic Scattering Spectroscopy

Dennis Chicken

Symposium 16 – Targeted Therapeutics: Are We Hitting the Mark? Co-Chairs: TBD and Christine Carpenter

Room 317

Integrated Molecular Targeting of IGF1R and HER2 Surface Receptors and Selective Destruction of Breast Cancer Cells Using Carbon Nanotubes
Balaji Panchapakesan

LHRH and Doxorubicin Conjugated Gold Nanoparticles for Breast Cancer Treatment
Sham S. Kakar, Jr.

Application of PTC299 in Breast Cancer: Preclinical and Clinical Study Results
Harry Miao

Precision-Guided Cancer Therapy: Synergism of Selective Tumor Vascular Thrombosis and Tumor Microenvironment-Activated Prodrug
Cheng Liu

Increased Potency of the PHSCN Dendrimer as an Inhibitor of Breast Cancer Cell Invasion and Survival
Donna Livant

A Novel and Effective Combination Targeting Therapy for Advanced Human Breast Tumors
Yayun Liang

4:00 – 4:15 PM **Break**

4:15 – 6:15 PM **CONTROVERSY SESSION: Controversial Issues in Breast Cancer Treatment**

Ballrooms I and II

Moderator/Wrap Up: Lyndsay Harris

Consumer Perspective

Carolina Hinestrosa

Controversy 1: The Use of Anthracyclines

Dennis Slamon and Aman Buzdar

Controversy 2: Trastuzumab in Her2-Negative Tumors

Michael Press and Soonmyung Paik

6:15– 6:30 PM **Break**

6:30 – 9:30 PM **POSTER SESSION/RECEPTION**

Exhibit Halls A and B

P2 Breast Cancer Centers of Excellence I

P13 Epidemiology I

P27 Hormone Receptors I

P3 HBCU/MI Partnership Training Awards I

P14 Risk and Prevention
P15 Drug Discovery and Development I

P28 Endocrine Pathogenesis I
P29 Apoptosis

P4 Translational Research Awards I

P16 Experimental Therapeutics I
P17 Immune-Based Therapies I

P30 Signal Transduction I
P31 Tumor Suppressor Genes I

P5 Clinical Management of Breast Cancer

P18 Targeted Therapies I
P19 Antiangiogenics

P32 BRCA1 & BRCA2 Tumor Suppressors I

P6 Complementary and Alternative Medicine

P20 Drug Resistance I
P21 Biomarkers I

P33 Oncogenes I
P34 Stromal-Epithelial Interactions I

P7 Health Care Delivery

P22 Stem Cells I

P35 Tumor Progression I

P8 Detection and Diagnosis I

P23 Cellular Development

P36 Cell Migration/Invasion I

P9 Magnetic Resonance Imaging I

P24 Functional Study of Biological Molecules I
P25 Genomic Instability

P37 Metastasis I
P38 Bone Metastasis

P10 Functional Imaging

P26 Genomics and Proteomics I

P11 Nanotechnology I

Friday, June 27, 2008

7:00 AM – 7:00 PM	Registration	Charles Street Lobby
7:00 AM – 3:00 PM	Poster Setup	Exhibit Halls A-D
7:00 – 8:00 AM EARLY MORNING SESSIONS		
	<i>Use of Biomarkers in Neo-Adjuvant and Prevention Clinical Research</i>	Room 307
	Carol Fabian	
	<i>Tissues of the Future</i>	Room 308
	Karen Burg	
	<i>Breast Density and Risk</i>	Room 309
	Celia Byrne	
	<i>Issues in Pathology</i>	Room 310
	Michael Press	
	<i>Radiation and Radiosensitizers</i>	Room 314
	Kevin Camphausen	
	<i>Cancer Immunoediting: Therapeutic Implications</i>	Room 315
	Rob Schreiber	
	<i>The Blood-Brain Barrier and Brain Metastasis</i>	Room 316
	Quentin Smith	
8:00 – 8:30 AM	Break	
8:30 – 8:45 AM	WELCOME AND MOMENT OF SILENCE	Ballrooms I and II
	Ngina Lythcott	
8:45 – 10:15 AM	PLENARY SESSION: Breast Cancer Diagnosis – What's on the Horizon?	Ballrooms I and II
	Moderator: Don Plewes	
	<i>Consumer Perspective</i>	
	Amy Bonoff	
	<i>Epigenetics</i>	
	Steve Baylin	
	<i>Stromal Gene Expression Predicts Clinical Outcome in Breast Cancer</i>	
	Morag Park	
	<i>Functional and Molecular Optical Diagnostics</i>	
	Nimmi Ramanujam	
10:15 – 10:30 AM	Break	
10:30 AM – 12:30 PM	CONCURRENT SYMPOSIA SESSIONS III	
	<i>Symposium 17 – Genomics and Proteomics: What Are Tumors Telling Us?</i>	Room 307
	<i>Co-Chairs: Joe Gray and Beverly Canin</i>	
	<i>Results from a Genome-Wide Linkage Scan Using a Colon-Breast Cancer Phenotype</i>	
	Denise Daley	
	<i>Reproducibility of Genome-Scale Chemosensitivity Signatures on Biologic Replicate Breast Cancer Samples</i>	
	Paul Kelly Marcom	
	<i>Alteration of Topoisomerase II-alpha Gene in Human Breast Cancer and Its Association with Responsiveness to Anthracycline-Containing Chemotherapy</i>	
	Michael F. Press	
	<i>Galectin-3 Cleavage by Matrix Metalloproteinases in Breast Tumor Progression and Its Use as a Surrogate Diagnostic Marker of MMP Activity</i>	
	Pratima Nangia-Makker	
	<i>Quantum Dot-Based Nanosensors for Matrix Metalloproteinase Detection and Imaging</i>	
	Jianghong Rao	

Magnetic Nanoparticle-Based Detection of RNA Transcripts
Andrew Tsourkas

Symposium 18 – Immune and Inflammatory Contributions to Breast Cancer
Co-Chairs: Suzanne Ostrand-Rosenberg and Diana Chingos

Room 308

CD4+ T Cells Regulate Macrophage Phenotype and Functionally Contribute to Mammary Tumor Development
Lisa Marie Coussens

Anti-Inflammatory CD4+ Regulatory Cells Prevent Mammary Cancer in Mice
Susan Erdman

IDO Inhibitors for Breast Cancer: From IDEA to Laboratory to Mouse to Clinic
George C. Prendergast

Regulation of the Migration of FoxP3+ Regulatory T Cells into Lymphoid Tissues and Breast Tumors
Chang H. Kim

Dendritic and T Cell Dysregulation in Tumor-Draining Lymph Nodes Predict Breast Cancer Recurrence
Peter P. Lee

Toll-Like Receptor-9 Agonists Stimulate Breast Cancer Invasion
Katri Vuopala

Symposium 19 – Emerging Technologies
Co-Chairs: Didier Dreau and Elyse Caplan

Room 309

Genetic Screens to Identify Genes Required for Cancer Cell Proliferation
Stephen Elledge

A Human Mammary Epithelial Cell (HMEC) Culture System for the Study of Normal HMEC Biology and Carcinogenesis
Martha Stampfer

Cancer–Stromal Cell Interactions
Chih Chao Yang

Fly to Mouse: A New Approach to Cancer Metastasis
Ross Cagan

Cytometric Analysis of Multiplex Antigen Staining in Histopathology
William Lee

The Genetic Architecture of Breast Cancer Susceptibility and Its Implications for Management and Prevention of the Disease
Nazneen Rahman

Symposium 20 – Translational Imaging: Almost Ready for Prime Time?
Co-Chairs: TBD and Peggy Devine

Room 310

Computer-Aided Diagnosis of Breast Cancer Using DCE-MRI: Pre-Clinical Evaluation on Two Independent Clinical Data Sets
Weijie Chen

Clinically Practical Magnetic Resonance Imaging and Spectroscopy Protocol for Improved Specificity in Breast Cancer Diagnosis
Luminita Alina Tudorica

A Novel Macromolecular Contrast Agent Based on Paramagnetic Chemical Exchange Saturation Transfer (PARACEST) for Breast Cancer Studies
Vikram D. Kodibagkar

Optimization of a Dual-Energy Contrast-Enhanced Technique for a Photon Counting Digital Breast Tomosynthesis System
Ann-Katherine Carton

Recent Advances in Digital Tomosynthesis Mammography Reconstruction
Yiheng Zhang

Development and Characterization of a Dedicated Computed Mammotomography System
Randolph L. McKinley

Symposium 21 – Epigenetic Mechanisms for Risk Assessment and Treatment

Room 314

Co-Chairs: Funmi Olopade and TBD**Epigenetic Regulation of Human Normal Mammary Epithelial Stem Cell Function and Differentiation**
Kornelia Polyak**A MicroRNA Component of the p53 Tumor Suppressor Network**
Gregory Hannon**Control of Estrogen-Regulated MicroRNA Expression by AKT**
Harikrishna Nakshatri**Histone Deacetylase 2 (HDAC2) Mediates the Potentiation of Tamoxifen by HDAC Inhibitors**
Pamela N. Munster**Double-Hit Molecular Therapy for erbB2(+) Breast Cancer by the Self-Assembled Herceptin-Nanovector-miRNA Inhibits Breast Cancer Stem Cells**
Min Zhang**Alcohol Consumption and DNA Hypermethylation in Breast Cancer: The Western New York Exposures and Breast Cancer (WEB) Study**
Menghua Tao

Symposium 22 – The Path to Chemoresistance: Roadblocks & Detours

Room 315

Co-Chairs: David Piwnica-Worms and Patricia Haugen**CKS1 Sensitizes Breast Cancer Cells to Chemotherapeutic Agents**
Sonia Del Rincon**Blockage of Cyr61- $\alpha_1\beta_3$ Integrin Interaction Restores Taxane Sensitivity in Triple-Negative Breast Cancer Cells**
Ruth Lupu**Prolactin Antagonizes Chemotherapeutic-Induced Cytotoxicity in Breast Cancer Cells**
Nira Ben-Jonathan**Residual Cancer Burden After Neoadjuvant Taxane-Anthracycline Chemotherapy Is Independently Prognostic in Every Phenotypic Subset of Breast Cancer**
William Frasier Symmans**Sustained Activation of EGFR in Breast Cancer Cells Results in Higher Kinase Activity, Loss of MAP-2, and Subsequent Resistance to Docetaxel**
Vaqar Mustafa Adhami**The Role of BRCA1 Promoter Methylation in Determining Chemosensitivity in vitro**
Rita Nanda

Symposium 23 – Triple-Negative Tumors

Room 316

Co-Chairs: Erik Thompson and TBD**Characterization of Tumor Subtypes in African American and Latina Breast Cancer Patients in South Los Angeles**
Jaydutt Vadgama**Gene Expression Patterns That Distinguish Basal B (Mesenchymal) Human Breast Cancer Cell Lines from Basal A or Luminal Are Exhibited by Purified Human Breast Cancer Stem Cells; Evidence of Epithelial Mesenchymal Transition in Clinical Specimens**
Erik Thompson**Epidermal Growth Factor Receptor Pathway Analysis in Breast Cancer Subtypes**
Katherine A. Hoadley**Identification of Novel Targets for the Treatment of Estrogen Receptor-Negative Breast Cancer**
Corey Speers**Targeting p53-Independent Apoptosis in Basal-Like Breast Cancers**
Leif W. Ellisen**Transforming Growth Factor Beta Pathway Antagonists Inhibit Human Basal Cell-Like Breast Cancer Metastases to Lung and Bone**
Vidya Ganapathy

Symposium 24 – Decisions, Decisions: Clinician–Patient Interactions
Co-Chairs: COL Ismail Jatoi and Carol Matyka

Room 317

Decision Services at the UCSF Breast Care Center
Laura Esserman

A Web-Based Edutainment Decision Aid for Low Health Literacy Women Making Breast Cancer Treatment Decisions
Maria L. Jibaja-Weiss

Exploring Women's Decision-Making Experiences About Breast Cancer Treatment Through Video-Stimulated Recall Interviews
Mary Ann O'Brien

Cognitive-Affective Factors Associated with Uptake of, and Adherence to, Lymphedema Symptom Minimization Practices in Breast Cancer Survivors
Suzanne Miller

Making an Impact on Metastatic Breast Cancer Through the Rapid Autopsy Program—How to Help Your Patient with Metastatic Disease Make a Difference for the Next Generation
Lillie Shockney

Blueprint for Regional Excellence in Breast Cancer Care
Laura Esserman

12:30 – 2:00 PM

Lunch

2:00 – 4:00 PM

CONCURRENT SYMPOSIA SESSIONS IV

Symposium 25 – Center of Excellence Discussion:
Spanning the Complexity of Brain Metastasis
Co-Chairs: Patricia Steeg and Rosemary Rosso

Room 307

Clinical and Pathologic Correlates in Breast Cancer Brain Metastases: Tissue Microarray Studies
Komal Jhaveri

Gene Expression Analysis for Prediction of Early Brain Metastasis (BM) in HER-2-Positive Breast Cancer Patients
Sunil S. Badve

Anticancer Drug Uptake and Distribution in MDA-MB-231BR Brain Metastases of Breast Cancer
Paul Lockman

Preclinical Studies in Support of the Use of Vorinostat (SAHA) for the Treatment of Brain Metastases of Breast Cancer
Diane Palmieri

Lapatinib Prevents Metastatic Colonization of EGFR+ and Her-2+ Breast Cancer Cells
Brunilde Gril

BrainMetsBC.ORG: Evaluation of a New Resource for Breast Cancer Patients with Brain Metastases
Musa Mayer

Symposium 26 – Novel Targets in Stem Cell Signaling
Co-Chairs: TBD and Sandy Walsh

Room 308

Dysregulated Wnt Signaling in DMBA-Induced Mouse Mammary Tumors Suggests a Stem Cell Origin
Susan R. Rittling

A Novel Screen for Small Molecule Modulators of the Wnt Signaling Pathway
Ramanuj Dasgupta

Scribble Loss Enriches for a Mammary Progenitor Cell
Avi Z. Rosenberg

Numb-Mediated Asymmetric Cell Division in Mammary Gland Development
Weimin Zhong

TEL-NTRK3 Fusion Oncogene Initiates Breast Cancer from Committed Mammary Progenitors via Activation of AP1 Complex
Stuart Orkin

CDK Inhibitor p18INK4c Controls Mammary Luminal Progenitor Cell Proliferation and Tumorigenesis
Yue Xiong

Symposium 27 – Aiming at New Targets for Breast Cancer Therapy

Co-Chairs: George Sledge, Jr. and Mary Lou Smith

Room 309

Functional Proteomics and Computational Modeling of the Signaling Network to Identify Targets for Therapy
Prahlad T. Ram

Targeting Autophagic Survival Pathway Sensitizes Human Breast Cancer Cells to Growth Factor Antagonists
Huaijun Li

Enhancing Hormonal Therapy for Breast Cancer by Combination with Valproic Acid a Well-Known Approved Pharmaceutical with Little Toxicity
Peter Kushner

A Small Molecule Compound Selectively Inhibits Akt, Including AKT1-E17K, and Tumor Growth in Cancer Cells with Hyperactivated Akt
Jin Q. Cheng

ETS Transcription Factors and Target Genes in Normal Mammary Tissue and Tumors
Gabriele Foos

Targeting Novel Tubulin Microtentacles in Circulating Breast Tumor Cells to Reduce Metastasis
Stuart Martin

Symposium 28 – Correlating Life Course Approaches and Risk

Co-Chairs: Marilie Gammon and Kay Wissmann

Room 310

Urinary 6-Sulphatoxymelatonin Levels and Risk of Breast Cancer in Postmenopausal Women: The ORDET Cohort
Paola Muti

Correlation of Umbilical Cord Blood Hematopoietic Stem and Progenitor Cell Levels with Birth Weight and the Prenatal Origin of Cancer
Chung-Cheng Hsieh

Activation of Stat5 and Induction of a Pregnancy-Like Mammary Gland Differentiation by Eicosapentaenoic and Docosapentaenoic Omega-3 Fatty Acids
Yuenian Eric Shi

Is Bi-Iliac Breadth a Predictor of Early Menarche?
Loic Le Marchand

Effect of High Omega-3 Fatty Acid Diet on Markers of Breast Cancer Risk in Postmenopausal Women
Lindsay Rae Orr

Isolation and the Timing of Mammary Gland Development, Gonadarche, and Ovarian Senescence: Implications for Mammary Tumor Burden
Martha McClintock

Symposium 29 – Angiogenesis, Involution, and Tumor Progression

Co-Chairs: Lynn Matrisian and Susan Axler

Room 314

Notch Regulates the Angiogenic Receptor VEGFR-3 in Endothelial Cells and Breast Tumor Vessels
Jan Kitajewski

An In Vitro Study of Breast Cancer Invasion into the Lymphatics
Melody Swartz

Pregnancy Following Breast Cancer Treatment: A Prospective Cohort Analysis
Michelle J. Naughton

Role of Mammary Gland Involution in Promoting Metastasis in Pregnancy-Associated Breast Cancer (PABC)
Pepper Schedin

Estrogen-Mediated Cellular Remodeling Using BM-EPCs: Novel Therapeutic Target for Breast Cancer
Raj K. Tiwari

Symposium 30 – Immune-Based Therapeutics
Co-Chairs: Lou Weiner and TBD

Room 315

Binding Specificity of Inhibitory Antibodies to the Extracellular Region of Epidermal Growth Factor Receptor
Karl R. Schmitz

Passive Immunotherapy with Anti-CEACAM6 Antibodies
Alice P. Taylor

Delivery in Vitro and in Vivo in Mice of an Antisense MORF Using Herceptin as Carrier
Yi Wang

Active Immunization Using a Peptide Mimic of a Carbohydrate Tumor Antigen
Jamie Heimburg-Molina

Carbohydrate Mimetic Peptides Induce Tumor-Associated Carbohydrate-Reactive Antibodies in the Absence of Pathological Autoimmunity
Thomas Kieber-Emmons

A Direct Synergistic Effect of Immunotherapy and Chemotherapy as a New Paradigm in Treatment of Breast Cancer
Rupal Ramakrishnan

Symposium 31 – Decoding the Genetics of Breast Cancer Susceptibility
Co-Chairs: Doug Bishop and TBD

Room 316

Development of a Computerized Decision Aid for Breast Cancer Prevention
Laura Esserman

Genetic Screening for Novel Factors Involved in DNA Damage Response Pathway Mediated by Tumor Suppressor BRCA1
Inder Verma

Role of Cofactor of BRCA1 (COBRA1) in Mammary Tumorigenesis
Jianlong Sun

A Novel Role for BRCA1 in the Mitotic Spindle Assembly
Vladimir Joukov

Spontaneous Tumor Development in Mice Carrying a Targeted Mutation of the Chk2 Phosphorylation Site in Brca1
Yanfen Hu

Identification of Genes Affecting Breast Cancer Development
Hua Wang

Symposium 32 – From Molecules to Women: Molecular and Functional Imaging
Co-Chairs: Vikas Gulani and Deb Haggerty

Room 317

Targeted DCE-MRI for Imaging and Characterization of Solid Tumor Xenografts
Alexandru V. Korotcov

Activatable Cell-Penetrating Peptides for Imaging Tumors
Roger Y. Tsien

Metabolitic Characterization of Breast Cancer in Vivo Using Two-Dimensional MR Spectroscopy
Xiaoyu Liu

MR Imaging of Ultrasensitive, Breast Cancer-Targeting Superparamagnetic Polymeric Micelles in Vivo
Chalermchai Khemtong

Trafficking the Fate of Mesenchymal Stem Cells in Vivo by Bioluminescence Imaging
Xiaoyuan Chen

In Vivo Optical Imaging for Cancer Detection Using Inspiratory Contrast
Gregory Faris

4:00 – 4:30 PM Break

Agenda

June 27 & 28, 2008

4:30 – 5:30 PM	INNOVATION SESSION: Fostering Innovation Robert Wolcott	Ballrooms I and II
5:30 – 6:45 PM	SPOTLIGHT SESSION: Era of Hope Scholar Award Moderator: Kim Lyerly Panel Members: Ngina Lythcott, Malcolm Pike, and Dennis Slamon, Era of Hope Scholars: Lisa Coussens, Nimmi Ramanujam, Yibin Kang, and Peter Lee	Ballrooms I and II
6:45 – 7:00 PM	Break	
7:00 – 10:00 PM	POSTER SESSION/RECEPTION <i>P39 Breast Cancer Centers of Excellence II</i> <i>P40 HBCU/MI Partnership Training Awards II</i> <i>P41 Translational Research Awards II</i> <i>P42 Detection and Diagnosis II</i> <i>P43 Magnetic Resonance Imaging II</i> <i>P44 Nanotechnology II</i> <i>P45 Lifestyle and Nutrition II</i> <i>P46 Epidemiology II</i> <i>P47 Behavioral Sciences</i> <i>P48 Quality of Life</i> <i>P49 Drug Discovery and Development II</i>	Exhibit Halls C And D <i>P50 Experimental Therapeutics II</i> <i>P51 Immune-Based Therapies II</i> <i>P52 Tumor Immunology</i> <i>P53 Targeted Therapies II</i> <i>P54 Drug Resistance II</i> <i>P55 Biomarkers II</i> <i>P56 Stem Cells II</i> <i>P57 Cell Cycle</i> <i>P58 Functional Study of Biological Molecules II</i> <i>P59 Genetic Risk</i> <i>P60 Transcription, Translation, and Modification</i> <i>P61 Genomics and Proteomics II</i> <i>P62 Hormone Receptors II</i>

Saturday, June 28, 2008

7:00 AM – 1:00 PM	Registration	Charles Street Lobby
7:00 AM – 3:00 PM	Poster Cleanup	Exhibit Halls A-D
7:00 – 8:00 AM	EARLY MORNING SESSIONS <i>Case Study: Women's Health Initiative</i> Malcolm Pike	Room 307
	<i>Modulation of Recombinase RAD51: Implications of Breast Cancer Etiology and Treatment</i> Doug Bishop	Room 308
	<i>Tumor Dormancy</i> Ann Chambers	Room 309
	<i>Estrogen Receptor-Negative (ER-) Breast Cancer</i> Nancy Davidson	Room 310
	<i>Breast Cancer Stem Cells – 5 Years Later</i> Kornelia Polyak	Room 314
	<i>Multigene Biomarker Signatures: Why Are There So Many?</i> Gottfried Konecny	Room 315
	<i>Dynamic Molecular Imaging of Signal Transduction Pathways in Vivo</i> David Piwnica-Worms	Room 316
8:00 – 8:30 AM	Break	
8:30 – 8:45 AM	WELCOME AND MOMENT OF SILENCE Rosemary Rosso	Ballrooms I and II

8:45 – 10:15 AM	PLENARY SESSION: Managing Breast Cancer Across the Spectrum of Disease Moderator: Rosemary Rosso <i>Consumer Perspective on Managing Breast Cancer</i> Musa Mayer Genetic Markers Dan Hayes Markers for Resistance Lajos Pusztai Individualized Therapy George Sledge, Jr.	Ballrooms I and II
10:15 – 10:30 AM	Break	
10:30 AM – 12:30 PM	CONCURRENT SYMPOSIA SESSIONS V Symposium 33 – Molecular Pathogenesis of Breast Cancer Progression Co-Chairs: Lynn Matisian and Shirley Brown <i>AIB1/SRC-3 is Required for Neu (ErbB2/HER2) Activation, Signaling, and Mammary Tumorigenesis in Mice</i> Anna Riegel <i>3D Organotypic Models of Ductal Carcinoma in Situ (DCIS): Models for Assessing Stromal Effects on Progression to Invasion and Increased Proteolysis</i> Christopher Jedeszko <i>Combined in Vitro and in Vivo Strategies to Isolate Bone Metastatic Breast Tumor Variants Identify Laminin-511 as a Potent Pro-Metastatic Substrate</i> Normand Pouliot <i>Matrix Metalloproteinases in Breast Cancer Progression</i> Barbara Fingleton <i>The Suppression of Breast Cancer Metastasis by Bone Morphogenic Proteins</i> Robin L. Anderson <i>Chromosome Engineering and Sleeping Beauty Insertional Mutagenesis to Identify 1p Tumor Suppressors and Other Genetic Events in Breast Cancer Progression</i> Christopher Hackett	Room 307
	<hr/> Symposium 34 – Innovations in Breast Cancer Management Co-Chairs: TBD and Vicki Tosher <i>A Randomized Trial of Computer and Paper-Based Versions of the Decision Board for Breast Cancer Treatments</i> Shelley Chambers <i>Development of an Integrated Informatics Platform for Breast Cancer Care</i> Michael Hogarth <i>Advance Care Planning During Chemotherapy</i> Ardith Z. Doorenbos <i>Research on Optimal Recovery Practices in Breast Cancer: The RESTORE Trial</i> Roger Anderson <i>A Longitudinal Investigation of Posttraumatic Growth in Women with Breast Cancer</i> Suzanne Danhauer <i>Electroacupuncture Attenuates Bone Cancer Pain and Inhibits Spinal Interleukin-1beta Expression in a Rat Model</i> Ruixin Zhang	Room 308

Symposium 35 – Breast Cancer in Underserved Populations
Co-Chairs: Agnes Day and Ngina Lythcott

Room 309

Akt and HER2 Overexpression in African American and Latina Patients with Breast Cancer
Yanyuan Wu

African American and Latina Breast Cancer Patients with Comorbid Diseases such as Hypertension and Diabetes Have Poor Outcome. This May Be Linked to IGF-1 Gene Polymorphisms
Marianna Sarkissyan

Prevention of 40%-50% of Breast Cancers by Detecting True Precancerous Lesions Among Benign Patients Based on the Presence of Cancer Promoting Molecular Markers
Indira Poola

Racial Disparities in the Initiation and Intensity of Adjuvant Therapy for Breast Cancer
Alfred I. Neugut

The Breast Cancer in African Women Study: Assessment of Lifestyle Questionnaire and Preliminary Genotype Analysis
Dana Robin Marshall

Impact of Institutional- and Individual-Level Discrimination on Medical Care and Quality of Life Among Breast Cancer Survivors
Scarlett Lin Gomez

Symposium 36 – Patient-to-Laboratory Approaches to Understanding Estrogen Receptor Signaling
Co-Chairs: Mike Press and Christine Norton

Room 310

A Longitudinal Study of Hot Flashes Among Breast Cancer Survivors
Laura Hanisch

Modulation of Alpha Calcium and Calmodulin Dependent Kinase II Signaling by Estrogen Receptor Alpha
Erin E. O'Neill

AIB1 Knockout Mice Are Resistant to Chemical Carcinogen-Induced Mammary Tumorigenesis
Jianming Xu

Cell Cycle and Apoptosis Regulator 1 (CCAR1), a Coactivator for Estrogen Receptor Alpha, Is Required for Estrogen-Dependent Growth of Breast Cancer Cells
Michael R. Stallcup

The Evolution of Drug Resistance to Antihormonal Therapy Exposes a Vulnerability in Breast Cancer
V. Craig Jordan

Identification of Biomarker for Activator Form of Estrogen-Related Receptor Alpha in Breast Cancer
Janet E. Mertz

Symposium 37 – What's new in Her2 Resistance?
Co-Chairs: Mark Sliwkowski and Gail Frankel

Room 314

Met Receptor Contributes to Trastuzumab Resistance of Her2-Overexpressing Breast Cancer Cells
David Shattuck

The Transcription Factor C/EBPbeta2 Mediates ErbB Independence and Trastuzumab Resistance
Alisha Russell

Inhibition of JAB1 Reverses Resistance to Trastuzumab by Increasing the Stability of p27
Francois X. Claret

Analysis of IRS Expression and Function in HER2-Positive Breast Cancer
Leslie M. Shaw

Contribution of Autophagy to the Response of Breast Cancer to Trastuzumab
Alan Eastman

Symposium 38 – Making the Connections: Multimodality Imaging
Co-Chairs: Nimmi Ramanujam and Kathleen Ball

Room 315

Multimodal Imaging of Breast Cancer in Genetically Engineered Mouse Models
Minghua Xu**Ultrasensitive Multimodality in Vivo Imaging Using Nanoparticles**
Fanqing Chen**Noninvasive Monitoring of Breast Cancer During Neoadjuvant Chemotherapy Using Optical Tomography with Ultrasound Localization**
Quing Zhu**MRI-Coupled Fluorescence Molecular Tomography for Breast Cancer Imaging**
Scott Davis**Combined Anatomical and Biochemical Characterization of Breast Cancer**
Michael Albert Thomas**Development and Optimization of a Dedicated Hybrid Dual-Modality Spect-CMT System for Improved Breast Lesion Diagnosis**
Priti Madhav

Symposium 39 – Environmental Impact on Gene Expression
Co-Chairs: TBD

Room 316

Genomic Profiling of Sporadic and BRCA-Related Breast Cancer
Jorunn Erla Eyfjord**ADH1B and ADH1C Haplotype Tag SNPs: Associations with Breast Cancer Risk and Interactions with Alcohol Consumption in the Western New York Exposures and Breast Cancer (WEB) Study**
Catalin Marian**Genetic Polymorphisms in the Catechol Estrogen Metabolism Pathway as Modifiers of the Effect of Hormone Therapy in Breast Cancer Risk**
Kerry W. Reding**Modification of BRCA1 Breast Cancer Risk by Coffee**
Andrew Cook Nelson**Genetic Polymorphisms in the Superoxide Dismutase-2 and Catalase Genes and Breast Cancer Risk: Results from the Nashville Breast Health Study**
Qiuyin Cai**One-Carbon Metabolism and Survival Among a Population-Based Study of Women with Breast Cancer**
Xinran Xu

Symposium 40 – Novel Candidates for Targeting Angiogenesis
Co-Chairs: Jan Kitajewski and TBD

Room 317

Selective Ablation of Tumor-Associated Macrophages Suppresses Metastasis and Angiogenesis
Cheng Liu**A Translationally Controlled Angiogenic Switch in Locally Advanced Breast Cancer**
Robert Schneider**The Role of Capillary Morphogenesis Gene 2 in Breast Cancer Neovascularization**
Claire Reeves**Breast Cancer Therapy Using Antibody-Endostatin Fusion Proteins**
Seung-Uon Shin**Novel Inhibitors of the EphB4 Receptor as Anti-Cancer Agents**
Ziwei Huang**A Novel Glycotherapeutic for Curing Breast Cancer**
Dipak K. Banerjee

12:30 – 1:00 PM

Break

1:00 – 2:30 PM

CLOSING SESSION: How Will We Eradicate Breast Cancer?

Ballrooms I and II

Co-Moderators: Kim Lyerly and Fran Visco

Consumer Perspective: Alice Yaker

Innovators: Greg Hannon, Stephen Johnston, Malcolm Pike, and Donald Ingber

2:30 – 2:45 PM

CLOSING REMARKS

CAPT Melissa Kaime

Ballrooms I and II

Poster Sessions at-a-Glance

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Thursday, June 26, 2008			HBCU/MI Partnership Training Awards II	P40	83
6:30–9:30 PM			Translational Research Awards II	P41	84
Breast Cancer Centers of Excellence I	P2	42	Detection and Diagnosis II	P42	84
HBCU/MI Partnership Training Awards I	P3	45	Magnetic Resonance Imaging II	P43	86
Translational Research Awards I	P4	46	Nanotechnology II	P44	87
Clinical Management of Breast Cancer	P5	47	Lifestyle and Nutrition II	P45	88
Complementary and Alternative Medicine	P6	48	Epidemiology II	P46	89
Health Care Delivery	P7	48	Behavioral Sciences	P47	89
Detection and Diagnosis I	P8	49	Quality of Life	P48	90
Magnetic Resonance Imaging I	P9	50	Drug Discovery and Development II	P49	90
Functional Imaging	P10	51	Experimental Therapeutics II	P50	92
Nanotechnology I	P11	52	Immune-based Therapies II	P51	93
Lifestyle and Nutrition I	P12	53	Tumor Immunology	P52	94
Epidemiology I	P13	54	Targeted Therapies II	P53	94
Risk and Prevention	P14	54	Drug Resistance II	P54	96
Drug Discovery and Development I	P15	55	Biomarkers II	P55	97
Experimental Therapeutics I	P16	57	Stem Cells II	P56	98
Immune-based Therapies I	P17	58	Cell Cycle	P57	99
Targeted Therapies I	P18	59	Functional Study of Biological Molecules II	P58	99
Antiangiogenics	P19	60	Genetic Risk	P59	100
Drug Resistance I	P20	61	Transcription, Translation, and Modification	P60	101
Biomarkers I	P21	61	Genomics and Proteomics II	P61	102
Stem Cells I	P22	62	Hormone Receptors II	P62	103
Cellular Development	P23	63	Endocrine Pathogenesis II	P63	104
Functional Study of Biological Molecules I	P24	64	Angiogenesis	P64	106
Genomic Instability	P25	65	Signal Transduction II	P65	106
Genomics and Proteomics I	P26	66	Tumor Suppressor Genes II	P66	108
Hormone Receptors I	P27	67	BRCA1 & BRCA2 Tumor Suppressors II	P67	109
Endocrine Pathogenesis I	P28	68	Oncogenes II	P68	110
Apoptosis	P29	69	Stromal-Epithelial Interactions II	P69	111
Signal Transduction I	P30	71	Mammary Gland Development	P70	112
Tumor Suppressor Genes I	P31	72	Tumor Progression II	P71	113
BRCA1 & BRCA2 Tumor Suppressors I	P32	74	Cell Migration/Invasion II	P72	114
Oncogenes I	P33	75	Metastasis II	P73	114
Stromal-Epithelial Interactions I	P34	76			
Tumor Progression I	P35	76			
Cell Migration/Invasion I	P36	77			
Metastasis I	P37	78			
Bone Metastasis	P38	79			

**P1 Innovator, EOH Scholar,
EOH Postdoc**

8:30–10:00 PM

Posters Manned: Odd-numbered – 8:30–9:15 PM

Even-numbered – 9:15–10:00 PM

P1-1 MECHANISMS OF BREAST CANCER RECURRENCE

James V. Alvarez

University of Pennsylvania

P1-2 THE USE OF POLY(ADP-RIBOSE) POLYMERASE (PARP1) INHIBITORS IN THE TREATMENT OF BREAST CANCER

Joseph A. De Soto

Uniformed Services University of the Health Sciences

P1-3 SOMATIC MUTATION AND AMPLIFICATION OF NOTCH3 IN HUMAN BREAST CARCINOMA

Sofia Gruvberger-Saal, Lao H. Saal, Hanina Hibshoosh, and Ramon Parsons

Columbia University College of Physicians and Surgeons

P1-4* USE OF OPTICAL SPECTROSCOPY TO MONITOR DELIVERY OF A NOVEL CELL CYCLE INHIBITOR

Gregory M. Palmer

Duke University

P1-5 CHARACTERIZATION OF Mcs5A, A NON-CODING BREAST CANCER SUSCEPTIBILITY LOCUS

Bart M G Smits,¹ Jill D. Haag,¹ David J. Samuelson,² and Michael N. Gould¹

¹*University of Wisconsin, Madison* and ²*University of Louisville*

P1-6 IN VIVO ANALYSIS OF ALTERNATIVE MODES OF BREAST CANCER CELL INVASION

Donald White,¹ William J. Muller,² Alan Ashworth,³ and Christopher J. Marshall¹

¹*Institute of Cancer Research, London*, ²*McGill University*, and

³*Breakthrough Breast Cancer Institute, London*

P1-7* RECENT ADVANCES IN DIGITAL TOMOSYNTHESIS MAMMOGRAPHY RECONSTRUCTION

Yiheng Zhang, Heang-Ping Chan, Berkman Sahiner, Jun Wei, Yi-Ta

Wu, Jun Ge, Chuan Zhou, and Lubomir Hadjiiski
University of Michigan, Ann Arbor

P1-8 OBSERVING THE LONGITUDINAL EFFECTS OF DOXORUBICIN ON MOUSE TUMOR PHYSIOLOGY VIA DIFFUSE OPTICAL SPECTROSCOPY

Karthik Vishwanath and Nirmala Ramanujam
Duke University

P1-9* CANCER-STROMAL CELL INTERACTIONS

Chih Chao Yang and Karen Burg
Clemson University

P1-10* THE MODIFIED INKJET CELL PRINTER AS A TOOL FOR 3-DIMENSIONAL BREAST TISSUE MODELING

Cheryl Parzel, Richard E. Groff, A. Martin Hill, Brett Stripe, Timothy Burg, and Karen J.L. Burg
Clemson University

P1-11 DISCOVERY OF POTENT INHIBITORS FOR BREAST CANCER MULTIDRUG RESISTANCE

Geoffrey Chang
Scripps Research Institute

P1-12 DYSYNCHRONOUS EXPRESSION OF STEM CELL MARKERS (CD90, CD133) AND CYTOKERATIN MARK BREAST CANCER STEM CELLS

Vera Svobodova Donnenberg,¹ Rodney Jerome Landreneau,² Adam M. Brufsky,¹ and Albert David Donnenberg³

¹*University of Pittsburgh*, ²*University of Pittsburgh Cancer Institute*, and ³*University of Pittsburgh Hillman Cancer Center*

P1-13 COLLAGEN CROSS-LINKING INCREASES MATRIX STIFFNESS TO DRIVE BREAST TRANSFORMATION AND MODULATE TREATMENT EFFICACY

Valerie Marie Weaver
University of California, San Francisco

P1-14* THE GENETIC ARCHITECTURE OF BREAST CANCER SUSCEPTIBILITY AND ITS IMPLICATIONS FOR MANAGEMENT AND PREVENTION OF THE DISEASE

Nazneen Rahman
Institute of Cancer Research, Sutton, UK

P1-15 SECOND HARMONIC PROPERTIES OF BREAST TUMOR COLLAGEN: DETERMINING THE STRUCTURAL RELATIONSHIP BETWEEN TUMOR STROMA AND HEALTHY STROMA

Edward B. Brown
University of Rochester

P1-16* ABSTRACT WITHDRAWN

P1-17 USE OF EXOGENOUS PROGESTINS AND RISK OF IN SITU AND INVASIVE BREAST CANCER

Christopher I. Li
Fred Hutchinson Cancer Research Center

P1-18 UNDERSTANDING THE TUMOR SUPPRESSION FUNCTION OF BRCA1

Junjie Chen
Yale University School of Medicine

P1-19 FUNCTIONS FOR WNT SIGNALING DURING MAMMARY TUMOR DEVELOPMENT

Caroline Alexander
University of Wisconsin, Madison

P1-20* CD4+ T CELLS REGULATE MACROPHAGE PHENOTYPE AND FUNCTIONALLY CONTRIBUTE TO MAMMARY TUMOR DEVELOPMENT

Lisa Marie Coussens, David DeNardo, and Jairo Barreto
University of California, San Francisco

P1-21 GENOMIC GAIN OF 8q22 ACTIVATES METADHERIN AND PROMOTES CHEMORESISTANT METASTASIS OF POOR-PROGNOSIS BREAST CANCER

Yibin Kang
Princeton University

*Symposia Session

P1-22* DENDRITIC AND T CELL DYSREGULATION IN TUMOR-DRAINING LYMPH NODES PREDICT BREAST CANCER RECURRENCE

Peter P. Lee
Stanford University

P1-23 IMPAIRMENT OF INTERFERON RESPONSE IN IMMUNE CELLS OF BREAST CANCER PATIENTS

Peter P. Lee,¹ Rebecca Critchley-Thorne,² Diana Simons,² Ning Yan,¹ Susan Holmes,¹ Robert Carlson,² Erich Schwartz,² Denise Johnson,² and Fred Dirbas²
¹*Stanford University and ²Stanford University School of Medicine*

P1-24 UNDERSTANDING TUMOR-IMMUNE CELL INTERACTIONS AT THE SYSTEMS LEVEL USING GENE EXPRESSION PROFILING

Peter P. Lee
Stanford University

P1-25 PROTEOMIC ANALYSIS OF BREAST CANCER AND SIGNALING

Akhilesh Pandey
Johns Hopkins University, East Baltimore Campus

P1-26 POTENTIAL ROLE OF PADI4 IN REGULATING THE ESTROGEN RESPONSE IN BREAST CANCER

Scott Alexander Coonrod,¹ Sonja Stadler,² Xuesen Zhang,¹ and David Allis²
¹*Cornell University, Ithaca* and ²*Rockefeller University*

P1-27 NANOTECHNOLOGY-ENABLED OPTICAL MOLECULAR IMAGING OF CANCER

Rebekah Drezek
Rice University

P1-28 HYBRID NANOPARTICLES FOR TARGETING CANCER

Shiladitya Sengupta, Sudipta Basu, and Rania Harfouche
Brigham and Women's Hospital

P1-29* CORRELATION OF UMBILICAL CORD BLOOD HEMATOPOIETIC STEM AND PROGENITOR CELL LEVELS WITH BIRTH WEIGHT AND THE PRENATAL ORIGIN OF CANCER

Chung-Cheng Hsieh,¹ William C. Strohsnitter,² Daniela Santoli,³ Hoi Pang Low,¹ David P. Chelmow,² Pagona Lagiou,⁴ Mats Lambe,⁵ Kathryn Edmiston,⁶ Qin Liu,¹ Inkyung Baik,¹ Kenneth L. Noller,² Hans-Olov Adami,⁴ and Dimitrios Trichopoulos⁴
¹*University of Massachusetts Medical School, ²Tufts-New England Medical Center, ³Wistar Institute, ⁴Harvard University, Cambridge, ⁵Karolinska Institute, and ⁶University of Massachusetts Memorial Health*

P1-30* ACTIVATABLE CELL-PENETRATING PEPTIDES FOR IMAGING TUMORS

Roger Y. Tsien,¹ Tao Jiang,² Emilia Olson,² Quyen Nguyen,² Todd Aguilera,² Michael Whitney,² Miriam Scadeng,² and Lesley Ellies²
¹*University of California, San Diego School of Medicine and ²University of California, San Diego*

P1-31 A HORMONAL APPROACH TO THE CHEMOPREVENTION OF BREAST CANCER

Malcolm C. Pike,¹ A. H. Wu,¹ C. L. Pearce,¹ L. A. Chodosh,² and C. Dcruz²
¹*University of Southern California and ²University of Pennsylvania*

P1-32 EARLY DETECTION OF METASTASIS-PRONE BREAST CANCERS

Joe W. Gray,¹ Fanqing Chen,¹ Matthew Francis,¹ James Felton,¹ Frederick Baehner,¹ James O'Neil,¹ Scott Taylor,¹ Nola Hylton,² James Marks,² Karla Kerlikowske,¹ and Laura Esserman²
¹*Lawrence Berkeley National Laboratory and ²University of Cal*

P1-33* TOWARD A PROPHYLACTIC VACCINE FOR BREAST CANCER

Stephen Albert Johnston, Douglas Lake, Hojoon Lee, and Kwasi Antwi
Arizona State University, Tempe

P2 Breast Cancer Centers of Excellence I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P2-1* INFLAMMATORY BREAST CANCER PATHOGENESIS MEDIATED BY TRANSLATION INITIATION FACTOR EIF4G OVEREXPRESSION AND UNORTHODOX PROTEIN SYNTHESIS

Robert Schneider,¹ Rezina Arju,¹ Farbod Darvishian,¹ Judith Goldberg,¹ Paul Levine,² and Silvia C. Formenti¹
¹*New York University School of Medicine and ²George Washington University*

P2-2 GLUTATHIONE DEPLETION SENSITIZES HORMONE-INDEPENDENT HUMAN BREAST CANCER CELLS TO ESTROGEN-INDUCED APOPTOSIS

Joan Lewis-Wambi,¹ Helen Kim,¹ Chris Wambi,² and V. Craig Jordan¹
¹*Fox Chase Cancer Center and ²University of Pennsylvania*

P2-3* RACIAL DISPARITIES IN THE INITIATION AND INTENSITY OF ADJUVANT THERAPY FOR BREAST CANCER

Alfred I. Neugut,¹ Grace Hillyer,² Dana Bovbjerg,³ Christine Ambrosone,⁴ Lawrence Kushi,⁵ Christine Bonnell,⁵ Lois Lamerato,⁶ S. David Nathanson,⁶ Jeanne Mandelblatt,⁷ Carol Magai,⁸ Alexine Clement Jackson,⁹ Judith S. Jacobson,¹⁰ Krystal L. Cleven,² and Dawn Hershman²

¹*Columbia University, ²Columbia University Medical Center, ³Mount Sinai School of Medicine, New York, ⁴Roswell Park Cancer Institute, Buffalo, ⁵Kaiser Foundation Research Institute, ⁶Henry Ford Health System, ⁷Georgetown University, ⁸Long Island University, ⁹YWCA, and ¹⁰Columbia University School of Public Health*

*Symposia Session

P2-4	PRELIMINARY DATA ON PATIENT DECISION-MAKING REGARDING THE INITIATION OF ADJUVANT THERAPY FOR BREAST CANCER Alfred I. Neugut, ¹ Grace Hillyer, ² Dana Bovbjerg, ³ Christine Ambrosone, ⁴ Lawrence Kushi, ⁵ Lois Lamerato, ⁶ S. David Nathanson, ⁶ Jeanne Mandelblatt, ⁷ Carol Magai, ⁸ Judith S. Jacobson, ⁹ and Dawn Hershman ² ¹ Columbia University, ² Columbia University Medical Center, ³ Mount Sinai School of Medicine, New York, ⁴ Roswell Park Cancer Institute, Buffalo, ⁵ Kaiser Foundation Research Institute, ⁶ Henry Ford Health System, ⁷ Georgetown University, ⁸ Long Island University, and ⁹ Columbia University School of Public Health	Luoto, ³ Yue Wang, ⁴ Goran Landberg, ⁵ Kevin Fitzgerald, ¹ Kathleen Neil, ¹ and Eric Hoffman ⁶ ¹ Georgetown University Medical Center, ² University of Southern California, Keck School of Medicine, ³ University of Tampere, ⁴ Virginia Polytechnic Institute and State University, ⁵ Lund University, Sweden, and ⁶ Children's National Medical Center, Washington, DC	P2-13*	MAKING AN IMPACT ON METASTATIC BREAST CANCER THROUGH THE RAPID AUTOPSY PROGRAM—HOW TO HELP YOUR PATIENT WITH METASTATIC DISEASE MAKE A DIFFERENCE FOR THE NEXT GENERATION Lillie Shockney, ¹ Marc Halshka, ² Elyse Caplan, ³ Karin Noss, ⁴ Deborah Kirkland, ⁵ Frank Adams, ⁶ and Saraswati Sukumar ² ¹ Johns Hopkins Breast Center, ² Johns Hopkins University School of Medicine, ³ Living Beyond Breast Cancer, ⁴ Virginia Breast Cancer Foundation, ⁵ Young Survival Coalition, and ⁶ Breast Cancer Coalition of Rochester
P2-5*	HETEROGENEITY OF BREAST CANCER METASTASES: COMPARISON OF THERAPEUTIC TARGET EXPRESSION AND PROMOTER HYPERMETHYLATION BETWEEN PRIMARY TUMORS AND THEIR MULTIFOCAL METASTASES Pedram Argani, ¹ Marc Halushka, ¹ Julie M. Wu, ¹ Diana Molavi, ¹ Angelo De Marzo, ¹ Jessica Hicks, ¹ Dhananjay Chitale, ² Mary Jo Fackler, ¹ Constance Griffin, ¹ John Fetting, ¹ Wei Wen Teo, ¹ Mary Evangeline Taylor, ¹ Nancy Davidson, ³ and Saraswati Sukumar ¹ ¹ Johns Hopkins University School of Medicine, ² Memorial Sloan-Kettering Cancer Center, and ³ Johns Hopkins University, East Baltimore Campus	Neb Duric, ¹ Gregory Auner, ² Carri Glide-Hurst, ³ Christopher Jedeszko, ² and Bonnie Sloane ² ¹ Karmanos Cancer Institute, ² Wayne State University, and ³ William Beaumont Hospital	P2-8	BIOLOGICAL AND FUNCTIONAL IMAGING APPROACHES TO UNDERSTANDING BREAST CANCER METASTASIS, PROGRESSION, AND RESPONSE TO THERAPY Lewis A. Chodosh <i>University of Pennsylvania</i>
P2-6	ADVOCATE MENTOR PROGRAM: EDUCATING ADVOCATES ABOUT GENOMICS Marylou Smith, ¹ Elda Railey, ² and George Sledge ³ ¹ Indiana University, Indianapolis, ² Research Advocacy Network, and ³ Indiana University School of Medicine	Ercole L. Cavalieri, ¹ Nilesh Gaikwad, ¹ Li Yang, ¹ Eleanor Rogan, ² Sandhya Pruthi, ³ and James Ingle ³ ¹ University of Nebraska Medical Center, ² University of Nebraska, and ³ Mayo Clinic and Foundation, Rochester	P2-9	TOWARD A BETTER UNDERSTANDING OF THE RELATIONSHIP BETWEEN BREAST DENSITY AND BREAST CANCER RISK Neb Duric, ¹ Gregory Auner, ² Carri Glide-Hurst, ³ Christopher Jedeszko, ² and Bonnie Sloane ² ¹ Karmanos Cancer Institute, ² Wayne State University, and ³ William Beaumont Hospital
P2-7	PLANNING GRANT FOR CoE ON OBESITY AND BREAST CANCER Robert Clarke, ¹ Leena A. Hilakivi-Clarke, ¹ Anna H. Wu, ² Riitta	Michel Schummer and Nicole Urban <i>Fred Hutchinson Cancer Research Center</i>	P2-10*	BIOMARKERS OF BREAST CANCER RISK AND ITS PREVENTION Ercole L. Cavalieri, ¹ Nilesh Gaikwad, ¹ Li Yang, ¹ Eleanor Rogan, ² Sandhya Pruthi, ³ and James Ingle ³ ¹ University of Nebraska Medical Center, ² University of Nebraska, and ³ Mayo Clinic and Foundation, Rochester
P2-11	ABSTRACT WITHDRAWN		P2-11	ABSTRACT WITHDRAWN
P2-12	MOLECULAR PROFILING OF TISSUE TRANSCRIPTS FROM INVASIVE BREAST CANCERS AND NORMAL CONTROLS FROM BREAST-REDUCTION SURGERIES COULD YIELD NOVEL BREAST MARKERS Michel Schummer and Nicole Urban <i>Fred Hutchinson Cancer Research Center</i>		P2-12	MOLECULAR PROFILING OF TISSUE TRANSCRIPTS FROM INVASIVE BREAST CANCERS AND NORMAL CONTROLS FROM BREAST-REDUCTION SURGERIES COULD YIELD NOVEL BREAST MARKERS Michel Schummer and Nicole Urban <i>Fred Hutchinson Cancer Research Center</i>
P2-13*	GENETIC VARIATION WITHIN THE CODING REGION OF STEROID HORMONE RECEPTOR CO-ACTIVATOR AND CO-REPRESSOR GENES DOES NOT ALTER BREAST CANCER RISK Rachel R. Garcia, ¹ Lucy Y. Xia, ¹ Helen Ha, ¹ Xin Sheng, ¹ Loic Le Marchand, ² Michael R. Stallcup, ¹		P2-13*	GENETIC VARIATION WITHIN THE CODING REGION OF STEROID HORMONE RECEPTOR CO-ACTIVATOR AND CO-REPRESSOR GENES DOES NOT ALTER BREAST CANCER RISK Rachel R. Garcia, ¹ Lucy Y. Xia, ¹ Helen Ha, ¹ Xin Sheng, ¹ Loic Le Marchand, ² Michael R. Stallcup, ¹

*Symposia Session

<p>Geoffrey L. Greene,³ Brian E. Henderson,¹ Christopher A. Haiman,¹ and Michael F. Press¹ ¹<i>University of Southern California Norris Comprehensive Cancer Center and ²University of Hawaii, and ³University of Chicago</i></p>	<p>P2-20 SINGLE ARM PHASE 2 STUDY OF PHARMACOLOGIC DOSE ESTROGEN IN POSTMENOPAUSAL WOMEN WITH HORMONE RECEPTOR-POSITIVE METASTATIC BREAST CANCER AFTER FAILURE OF SEQUENTIAL ENDOCRINE THERAPIES</p>	<p>P2-24 BIOMARKERS OF METASTATIC BREAST CANCER-MULTIMODAL ANALYSIS AND IDENTIFICATION OF DRUGS TARGETED TO OVEREXPRESSED HOXB7</p> <p>Saraswati Sukumar, Hexin Chen, Tao Zhu, Zaver Bhujwalla, Angela Brodie, Vincent Njar, Marc Halushka, and Pedram Argani <i>Johns Hopkins University School of Medicine</i></p>
<p>P2-17* GENOMIC EVOLUTION OF ENDOCRINE-RESISTANT BREAST CANCER CELL LINES REVEALS MOLECULAR ABERRATIONS CONSISTENT WITH BIOLOGICAL PHENOTYPE</p> <p>Catherine M. Mancini,¹ Coya Tapia,² Amanda L. Willis,¹ Joan S. Lewis-Wambi,² Eric A. Ariazi,² Helen R. Kim,² Heather E. Cunliffe,¹ and V. Craig Jordan² ¹<i>Translational Genomics Research Institute (TGen) and ²Fox Chase Cancer Center</i></p>	<p>Ramona Swaby,¹ Mary B. Daly,¹ Nancy E. Davidson,² Eric A. Ross,¹ Lori J. Goldstein,¹ and V. Craig Jordan¹ <i>Fox Chase Cancer Center and Johns Hopkins University, East Baltimore Campus</i></p>	<p>P2-25 STRUCTURAL AND CULTURAL BARRIERS TO CLINICAL DIAGNOSIS OF LOCALLY ADVANCED BREAST CANCER (LABC) IN A MULTIETHNIC COHORT: FINDINGS FROM MEXICO, SOUTH AFRICA, INDIA AND THE UNITED STATES</p> <p>Kristin Bright,¹ Robert J. Schneider,¹ Judith D. Goldberg,¹ D. Vijaykumar,² Justus Apffelstaedt,³ Marcos Gutierrez,⁴ Deborah Erwin,⁵ and Silvia C. Formenti¹ ¹<i>New York University School of Medicine, ²Amrita Institute of Medical Sciences (Cochin, India), ³Stellenbosch University, Cape Town, South Africa, ⁴Centro Medico Nacional Siglo XXI (Mexico City, Mexico), and ⁵Roswell Park Cancer Institute, Buffalo</i></p>
<p>P2-18* COMPARATIVE GENE EXPRESSION PROFILING TO IDENTIFY UNIFYING AND SELECTIVE PATHWAYS INVOLVED IN TAMOXIFEN, RALOXIFENE, AND AROMATASE INHIBITOR-RESISTANT BREAST CANCER XENOGRAFT TUMORS</p> <p>Eric Ariazi,¹ Heather E. Cunliffe,² Michael S. Slifker,¹ Suraj Peri,¹ Amanda L. Willis,² Catherine M. Mancini,² Heather A. Shupp,¹ Surojeet Sengupta,¹ Jing Peng,¹ Anne L. Donato,¹ Catherine G. N. Sharma,¹ Shaun D. Gill,¹ Jennifer R. Pyle,¹ Karthik Devarajan,¹ Yoganand Balagurunathan,² Eric A. Ross,¹ and V. Craig Jordan¹ ¹<i>Fox Chase Cancer Center and ²Translational Genomics Research Institute (TGen)</i></p>	<p>Annamarie Ioan, Lucy Y. Xia, Melinda Epstein, Michael R. Stallcup, Christopher A. Haiman, and Michael F. Press <i>University of Southern California Norris Comprehensive Cancer Center</i></p>	<p>P2-26 PRIMARY CONCURRENT CHEMORADIATION OF LOCALLY ADVANCED BREAST CANCER: FEASIBILITY IN INDIA</p> <p>Silvia C. Formenti,¹ Martha Ruiz-Tachiquin,¹ Robert Lucito,² Harry Ostrer,¹ Jiri Zavadil,¹ Judith D. Goldberg,¹ and Robert J. Schneider¹ ¹<i>New York University School of Medicine and ²Cold Spring Harbor Laboratory</i></p>
<p>P2-19* THE EVOLUTION OF DRUG RESISTANCE TO ANTIHORMONAL THERAPY EXPOSES A VULNERABILITY IN BREAST CANCER</p> <p>V. Craig Jordan,¹ Eric A. Ariazi,¹ Joan S. Lewis-Wambi,¹ Ramona F. Swaby,¹ Anton Wellstein,² Anna T. Riegel,³ and Heather E. Cunliffe⁴ ¹<i>Fox Chase Cancer Center, ²Georgetown University, ³Lombardi Comprehensive Cancer Center, and ⁴Translational Genomics Research Institute (TGen)</i></p>	<p>P2-23* A TRANSLATIONALLY CONTROLLED ANGIOGENIC SWITCH IN LOCALLY ADVANCED BREAST CANCER</p> <p>Robert Schneider, Steven Braunstein, Carolina Pola, Judith Goldberg, Joan Cangiarella, Rezina Arju, and Silvia C. Formenti <i>New York University School of Medicine</i></p>	<p>P2-27 PROTEOMIC ANALYSIS OF PHOSPHOTYROSINE-CONTAINING PROTEIN COMPLEXES DURING ESTROGEN-INDUCED PROLIFERATION AND APOPTOSIS IN MCF-7 HUMAN BREAST CANCER CELLS</p> <p>Anton Wellstein,¹ Benjamin Kagan,² Zhang-Zhi Hu,¹ Cathy Wu,¹ Hongzhan Huang,¹ Lihua Zhang,¹ Habtom W. Ressom,² Francoise</p>

<p>Seillier-Moiseiwitsch,² Anna T. Riegel,² and V. Craig Jordan³ ¹<i>Georgetown University, ²Lombardi Comprehensive Cancer Center, and ³Fox Chase Cancer Center</i></p>	<p>P3-3* BODY COMPOSITION AND POSTMENOPAUSAL BREAST CANCER IN HISPANIC WOMEN Gerson Peltz,¹ Maureen Sanderson,² Adriana Perez,³ and Matthew Johnson¹ ¹<i>University of Texas at Brownsville, ²Meharry Medical College, Nashville, and ³University of Louisville</i></p>	<p>P3-7 BREAST CANCER EPIDEMIOLOGY IN PUERTO RICO Cruz Nazario,¹ Jo L. Freudenheim,² Farah Ramírez,¹ Michele Schelske-Santos,³ Imar Mansilla,⁴ and Johan Hernández⁴ ¹<i>University of Puerto Rico, San Juan, ²State University of New York, Buffalo, ³University of Puerto Rico, Rio Piedras, and ⁴University of Puerto Rico, San Juan School of Public Health</i></p>
<p>P2-28 PROTEOLYTIC AND SIGNALING PATHWAYS IN BREAST CANCER: NOVEL MODEL FOR FUNCTIONAL IMAGING AND THERAPEUTIC SCREENING Bonnie Sloane, Mansoureh Sameni, Quanwen Li, Julie Dosescu, Hitchintan Kaur, Kamiar Moin, and Raymond R. Mattingly <i>Wayne State University</i></p>	<p>P3-4 REVERSIBLE INACTIVATION OF CDC25A BY ESTROGEN AND ANTIESTROGEN-INDUCED REACTIVE OXYGEN SPECIES MAY BE INVOLVED IN THE PHOSPHORYLATION OF p27 Deodutta Roy,¹ Quentin Felty,¹ Joyce Slingerland,² Nana-Aisha Garba,¹ Rosalind Penny,¹ and Victor Okoh¹ ¹<i>Florida International University and ²University of Miami, Rosenstiel School of Marine and Atmospheric Science</i></p>	<p>P3-8 CHARACTERIZATION OF IGF-1 (CA)N REPEAT AND IGFBP3 POLYMORPHISMS IN AFRICAN AMERICANS AND HISPANICS WITH BREAST CANCER Dhruba K. Mishra,¹ Marianna Sarkissyan,¹ Yanyuan Wu,¹ Phillip Koeffler,² and Jaydutt Vadgama¹ ¹<i>Charles R. Drew University of Medicine and Science and ²Cedars-Sinai Medical Center</i></p>
<p>P2-29 A GLUCOSE-REGULATED PEPTIDE 78 (GRP78)-BINDING MOTIF FUSED TO THE PROAPOPTOTIC SEQUENCE D(KLAKLAK)2 CAN INDUCE TUMOR IMMUNITY Pilar Nava-Parada,¹ James M. Leatherman,¹ Justin M. Asquith,¹ Joy Levi,¹ Wadi Arap,² Renata Pasqualini,² Elizabeth M. Jaffee,¹ Leisha A. Emens,¹ and Saraswati Sukumar¹ ¹<i>Johns Hopkins University School of Medicine and ²M. D. Anderson Cancer Cen</i></p>	<p>P3-5 EBSELEN CO-TREATMENT COUNTERACTS THE EFFECTS OF ANTIESTROGEN ON ESTROGEN-INDUCED GROWTH OF BREAST CANCER CELLS AS WELL AS RESTORES THE GROWTH INHIBITORY EFFECTS OF ANTIESTROGEN IN RESISTANT CELLS Deodutta Roy,¹ Rosalind Penny,¹ Quentin Felty,¹ Jai Parkash,¹ and Joyce Slingerland² ¹<i>Florida International University and ²University of Miami, Rosenstiel School of Marine and Atmospheric Science</i></p>	<p>P3-9* COMMUNITY UNINSURANCE AND BREAST CANCER SCREENING Jose Pagan,¹ David A. Asch,¹ Cynthia J. Brown,¹ Carmen E. Guerra,¹ and Katrina Armstrong² ¹<i>University of Texas - Pan American and ²University of Pennsylvania School of Medicine</i></p>
<p>P3-1 BREAST CANCER CELLS DOWN-REGULATE TRISTETRAPROLIN IN CO-CULTURED MACROPHAGES: A POSSIBLE MECHANISM FOR SUSTAINING INFLAMMATION AND ANGIOGENESIS IN THE TUMOR MICROENVIRONMENT Theodore A. Bremner, Giselle T. Burnett, Denise Weathersby, Tiffany Taylor, and Paul C. Wang <i>Howard University</i></p>	<p>P3-6* AFRICAN AMERICAN AND LATINA BREAST CANCER PATIENTS WITH COMORBID DISEASES SUCH AS HYPERTENSION AND DIABETES HAVE POOR OUTCOME. THIS MAY BE LINKED TO IGF-1 GENE POLYMORPHISMS Marianna Sarkissyan,¹ Yanyuan Wu,¹ Dhruba K. Mishra,¹ Phillip Koeffler,² and Jaydutt Vadgama¹ ¹<i>Charles R. Drew University of Medicine and Science and ²Cedars-Sinai Medical Center</i></p>	<p>P3-10 ABSTRACT WITHDRAWN</p> <p>P3-11 PROTEOMIC CHARACTERIZATION OF MCF7 HUMAN BREAST CANCER CELLS RESISTANT TO TNF-α AND CHEMOTHERAPEUTIC DRUGS Guangdi Wang,¹ Changhua Zhou,¹ Wei Xiong,² Qiang Zhang,¹ Steven Elliott,² Matthew Burow,³ and Thomas Wiese¹ ¹<i>Xavier University of Louisiana, New Orleans, ²Tulane University Medical School, and ³Tulane University</i></p>
<p>P3-2* DIABETES, PHYSICAL ACTIVITY, AND BREAST CANCER AMONG HISPANIC WOMEN Maureen Sanderson,¹ Adriana Perez,² Matthew Johnson,³ and Gerson Peltz³ ¹<i>Meharry Medical College, ²University of Louisville, and ³University of Texas at Brownsville</i></p>	<p>P3-12 DESIGN OF A PEPTIDE TO DISRUPT THE INTERACTION BETWEEN Hsp90 AND p23 David E. Wolfgang, Vi Tran, Thao Tran, and Thomas Wiese <i>Xavier University of Louisiana, New Orleans</i></p>	<p>*Symposia Session</p>

P3-13 INTERACTIONS OF ESTROGENIC PESTICIDES ON BREAST CANCER CELL GENE EXPRESSION EVALUATED WITH A CANCER FOCUSED PCR ARRAY

Thomas Wiese,¹ Huiming Li,¹ H. Chris Chris Segar,¹ and Steven R. Hill²
¹Xavier University of Louisiana, New Orleans and ²Tulane University

P4 Translation Research Awards I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P4-1* RAPID INTRA-OPERATIVE DIAGNOSIS OF SENTINEL LYMPH NODE METASTASIS IN BREAST CANCER UTILIZING SCANNING ELASTIC SCATTERING SPECTROSCOPY

Dennis Wayne Chicken,¹ Martin R. Austwick,¹ Santosh Kumar Somasundaram,¹ Benjamin Clark,² Kristie Johnson,³ Charles Alexander Mosse,¹ Mary Falzon,¹ Gabrijela Kocjan,¹ Ying Zhu,¹ Thomas Fearn,¹ Irving Bigio,⁴ Mohammed R S Keshtgar,¹ and Stephen Bown⁵

¹University College London, ²Imperial College, London, UK, ³King Saud University, ⁴Boston University, Boston Campus, and ⁵Royal Free and University College Medical School

P4-2* INITIAL CALLBACK RATES FOR CONVENTIONAL AND DIGITAL BREAST TOMOSYNTHESIS MAMMOGRAPHY COMPARISON IN THE SCREENING SETTING
 Richard Moore and Daniel Kopans
Massachusetts General Hospital

P4-3* ENDOCRINE THERAPY OF BREAST CANCER

Robert Clarke,¹ Younsook Cho,¹ William R. Miller,² J. Michael Dixon,² Jianhua Xuan,³ Rebecca B. Riggins,⁴ Ayesha N. Shajahan,¹ Yue Wang,³ and Minetta C. Liu¹
¹Georgetown University Medical Center, ²University of Edinburgh, ³Virginia Polytechnic Institute and

State University, and ⁴Georgetown University

P4-4 THE MONOCLONAL ANTIBODY 7.16.4 SEQUENCED WITH CYCLOPHOSPHAMIDE-MODULATED VACCINATION MAXIMIZES TUMOR IMMUNITY AND TUMOR-FREE SURVIVAL IN TUMOR-BEARING TOLERANT NEU-N MICE

James M. Leatherman, Justin M. Asquith, John G. Ullman, Peter S. Kim, Matthew J. Emmett, Joy Levi, Elizabeth A. Manning, Elizabeth M. Jaffee, and Leisha Ann Emens
Johns Hopkins University School of Medicine

P4-5* APPLICATION OF PTC299 IN BREAST CANCER: PRECLINICAL AND CLINICAL STUDY RESULTS

Harry Miao,¹ Marla Weetall,¹ Thomas Davis,¹ Gary Elfring,¹ Josephine Sheedy,¹ Amy Tiersten,² Robert Schneider,³ and Langdon L. Miller¹
¹PTC Therapeutics, Inc., ²New York University, and ³New York University School of Medicine

P4-6* ANTIMETASTATIC THERAPY WITH WX-UK1 AND WX-671 FOR THE TREATMENT OF BREAST CANCER: PHASE I RESULTS AND PHASE II DESIGN

Bernd Muehlenweg,¹ Roman Bartz,¹ Ramona Swaby,² Carola Mala,¹ Paul Bevan,¹ Roger B. Cohen,² Lori J. Goldstein,² and Olaf G. Wilhelm¹
¹Wilex AG and ²Fox Chase Cancer Center

P4-7* PHASE II STUDY OF A HER-2 NEU PEPTIDE-BASED VACCINE PLUS CONCURRENT TRASTUZUMAB FOR PREVENTION OF BREAST CANCER RELAPSE

Mary Disis, Lupe G. Salazar, Doreen Higgins, Jennifer Childs, Miriam Bolding, Becky Royer, Danelle Wallace, Yushe Dang, Patricia A. Fintak, and James R. Waisman
University of Washington

P4-8 A POLYVALENT, SHED ANTIGENS. VACCINE FOR BREAST CANCER

Jean-Claude Bystryn and Arevik Mosoian
New York University School of Medicine

P4-9 RAPID TRANSLATION OF A NOVEL AND POTENT VACCINE COMBINATION IN HER2+ HERCEPTIN REFRACTORY METASTATIC BREAST CANCER
 Timothy Clay
Duke University Medical Center

P4-10 A MIMIC OF TUMOR REJECTION ANTIGEN-ASSOCIATED CARBOHYDRATES MEDIATES AN ANTITUMOR CELLULAR RESPONSE

Thomas Kieber-Emmons, Behjatolah Monzavi-Karbassi, and Cecile Artaud
University of Arkansas for Medical Sciences

P4-11 CLINICAL TRANSLATION OF A MAMMAGLOBIN-A cDNA VACCINE
 William E. Gillanders, Lijin Li, Timothy P. Fleming, Peter S. Goedegebuure, Thalachalhour Mohanakumar, and Timothy Eberlein
Washington University

P4-12 DENDRITIC CELL (DC) BREAST CARCINOMA FUSION CELLS IN CONJUNCTION WITH IL-12, CPG ODN, OR ANTI-CD3CD28 RESULTS IN THE SELECTIVE EXPANSION OF ACTIVATED TUMOR REACTIVE T CELLS

Baldev Vasir,¹ Zekui Wu,¹ Adam Bissonnette,¹ Jacalyn Rosenblatt,² David Avigan,² and Donald Kufe¹
¹Dana-Farber Cancer Institute and ²Beth Israel Deaconess Medical Center

P5 Clinical Management of Breast Cancer

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P5-1 ABSTRACT WITHDRAWN

P5-2 ROBOTIC MAGNETIC RESONANCE IMAGING GUIDANCE OF LASER TISSUE EXCISION

Deepa Deepa, Nathan Knutson, Blake Larson, and Arthur Erdman
University of Minnesota, Twin Cities

P5-3 A PILOT STUDY TO EXPLORE CHANGES IN OVARIAN STROMAL FUNCTION AND ASSOCIATED SYMPTOMS IN PREMENOPAUSAL WOMEN UNDERGOING CHEMOTHERAPY FOR BREAST CANCER

Marlene Hanson Frost, Debra L. Barton, Susan Thompson, Victor Johnson, Paul Novotny, Jeff Sloan, Charles Loprinzi, Ann Kearns, Deanne Smith, and Katherine Zahasky
Mayo Clinic and Foundation, Rochester

P5-4 ASSESSING THE NEEDS OF WOMEN WITH ADVANCED (METASTATIC) BREAST CANCER

Elyse S. Caplan
Living Beyond Breast Cancer

P5-5 TREATING THE WHOLE PATIENT: WHAT BREAST CANCER PATIENTS WOULD LIKE THEIR MEDICAL CAREGIVERS TO KNOW: AN EDUCATIONAL INTERVENTION FOR MEDICAL AND NURSING STUDENTS

Mara Ginsberg
To Life!

P5-6* ADVANCE CARE PLANNING DURING CHEMOTHERAPY

Ardith Z. Doorenbos,¹ Barbara Given,² and Charles W. Given²
¹*University of Washington and*
²*Michigan State University*

P5-7 ESTROGEN RECEPTOR-MAPK CROSS-TALK AS A MECHANISM OF RADIRESISTANCE OF BREAST CANCER

Anupama Munshi, Jenny Liu, Marvette Hobbs, and Raymond E. Meyn
M. D. Anderson Cancer Center, University of Texas

P5-8 USE OF MITOCHONDRIA-SPECIFIC DYE MKT-077 TO INCREASE PRE-IRRADIATION OXYGEN LEVELS IN EXPERIMENTAL BREAST CANCER

John L. Chunta and Rod D. Braun
Wayne State University School of Medicine

P5-9 ABSTRACT WITHDRAWN

P5-10 PRONE ACCELERATED PARTIAL BREAST IRRADIATION AFTER BREAST-CONSERVING SURGERY: CLINICAL RESULTS

Silvia C. Formenti,¹ Stella Lymberis,¹ Chiara Magnolfi,¹ Maria Fenton-Kerimian,¹ Judith D. Goldberg,¹ Barry S. Rosenstein,² and J. Keith DeWynngaert¹
¹*New York University School of Medicine and*²*Mount Sinai School of Medicine, New York*

P5-11 NON-INVASIVE IMAGING TECHNIQUES QUANTITATE RADIATION-INDUCED VASCULAR CHANGES IN THE BREAST

Catherine Park,¹ Jona Hattangadi,¹ Catherine Klifa,¹ Jimmy Hwang,¹ Bruce Tromberg,² and Nola Hylton¹
¹*University of California, San Francisco and*²*University of California, Irvine*

P5-12 AN "IN VITRO CELL-BASED SYSTEM" TO ASSESS RADIATION SENSITIVITY IN SPORADIC BREAST CANCERS

Gregory Langland,¹ Catherine C. Park,² Steven M. Yannone,¹ and Joe W. Gray¹
¹*Lawrence Berkeley National Laboratory and*²*University of California, San Francisco*

P5-13 FEASIBILITY OF A COMBINED KYPHOPLASTY AND BRACHYTHERAPY PROCEDURE FOR VERTEBRAL METASTASES

Joyce H. Keyak, Tadashi S. Kaneko, Philip G. Marcus, Matthew

S. Al-Ghazi, Harry B. Skinner, Nitin N. Bhatia, Bang H. Hoang, Mark A. Mandelkern, Nilam S. Ramsinghani, and Varun Sehgal
University of California, Irvine

P5-14 PILOT STUDY OF HORSE THERAPY: AEROBIC CAPACITY & QUALITY OF LIFE OF BREAST CANCER SURVIVORS

Anna L. Schwartz
Arizona State University, Tempe

P5-15 REGRESSION ON MEDIAN RESIDUAL LIFE

Jong-Hyeon Jeong,¹ Sin-Ho Jung,² and Hanna Bandos¹
¹*University of Pittsburgh and*²*Duke University*

P5-16 POLYMER BASED ADJUVANT THERAPY FOR TREATMENT OF BREAST CANCER

Howard Edington
University of Pittsburgh School of Medicine

P5-17 AUTOMATED CANCER CELL SURGICAL MARGIN DETECTOR

Sarah Blair
University of California, San Diego

P5-18 ABSTRACT WITHDRAWN

P5-19 CHEMOTHERAPY INDUCES COGNITIVE DYSFUNCTION IN RATS

Jame Abraham and Gregory Konat
West Virginia University

P5-20 THE TRANSGENIC TGF- α OR EGFR1 OVEREXPRESSION MOUSE MODEL FOR SYMPTOM COMPLEX RESEARCH

Tyvin Rich, Meredith Evans, Rohan Patel, and Sarah Parsons
University of Virginia

P5-21 THE ROLE OF SEROTONIN IN HOT FLASHES AFTER BREAST CANCER

Janet S. Carpenter,¹ Todd Skaar,² Bryan Schneider,² Anna Maria Storniolo,² Jingwei Wu,¹ Mengang Yu,³ and Jennifer Milata¹
¹*Indiana University, Indianapolis,*
²*Indiana University School of Medicine, and*³*Indiana University-Purdue University, Indianapolis*

*Symposia Session

P6 Complementary and Alternative Medicine

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P6-1* **ESTROGENICITY OF A BROAD SPECTRUM OF MEDICINAL BOTANICAL EXTRACTS**

Patricia K. Eagon,¹ Mary S. Elm,² and Frank D. Houghton³

¹VIA Medical Center, Pittsburgh, PA, ²University of Pittsburgh, and

³Veterans Research Foundation, Pittsburgh

P6-2* **INVESTIGATION OF INFLAMMATORY BREAST CANCER BIOLOGY AND POTENTIAL THERAPEUTIC APPROACHES**

Michaela Hoffmeyer,¹ Michelle Martinez-Montemayor,² and

Surangani F. Dharmawardhane²
¹University of Texas at Austin and

²Universidad Central Del Caribe

P6-3 **SELF-HYPNOTIC RELAXATION FOR LARGE CORE BREAST BIOPSY: A PROSPECTIVE RANDOMIZED TRIAL**

Elvira Lang, Kevin S. Berbaum, Eleanor Laser, Michael L.

Berbaum, and Janet Baum

Beth Israel Deaconess Medical Center

P6-4* **ELECTROACUPUNCTURE ATTENUATES BONE CANCER PAIN AND INHIBITS SPINAL INTERLEUKIN-1BETA EXPRESSION IN A RAT MODEL**

Lixing Lao,¹ Ruixin Zhang,² Aihui Li,² Bing Liu,² Linbo Wang,³ Yi Wang,⁴ Ke Ren,³ Jian-Tian Qiao,² and Brian M. Berman¹

¹University of Maryland School of Medicine, ²Dana-Farber Cancer Institute, ³University of Maryland, Baltimore, and ⁴Shanghai

University of Traditional Chinese Medicine, Yueyang Affiliated Hospital, Shanghai, China

P6-5 **ABSTRACT WITHDRAWN**

P6-6 **ABSTRACT WITHDRAWN**

P6-7 **PROVIDING INFORMATION ON THE EVIDENCE BEHIND COMPLEMENTARY, ALTERNATIVE (CAM) APPROACHES TO CANCER**

Ann E. Fonfa

Annie Appleseed Project

P6-8 **STRESS IN THE WAITING ROOM: WAITING FOR BREAST BIOPSY CAN BE MORE CHALLENGING THAN WAITING FOR INVASIVE TREATMENT**

Elvira Lang and Nicole Flory

Beth Israel Deaconess Medical Center

P6-9 **ESTROGEN AND RESVERATROL AS REGULATORS OF THE RHO GTPASE RAC IN BREAST CANCER METASTASIS**

Surangani Flanagan

Dharmawardhane, Nicolas G. Azios, Linette Castillo-Pichardo, and Alina De La Mota-Peynado

Universidad Central Del Caribe

P7-3 **ARE MANY COMMUNITY HOSPITALS UNDER-TREATING BREAST CANCER? LESSONS FROM 24,834 PATIENTS**

Leonidas G. Koniaris, Juan C. Gutierrez, Judith D. Hurley, Nadine Housri, and Eduardo A. Perez
University of Miami, Rosenstiel School of Marine and Atmospheric Science

P7-4* **BREAST CANCER CLINICAL TRIALS: GEOGRAPHICAL FACTORS IN ACCESS TO CARE**

Celia Kaplan, Jennifer Haas, Shelley Hwang, Anna Napoles-Springer, and Susan Stewart
University of California, San Francisco

P7-5 **QUALITY BREAST HEALTHCARE FOR WOMEN WITH DISABILITIES**

Marlene McCarthy and Kate McCarthy-Barnett
Rhode Island Breast Cancer Coalition

P7-6 **BREAST AND GYNECOLOGICAL HEALTH SCREENING EDUCATION AND TREATMENT PROGRAM FOR HOMELESS WOMEN**

Marlena Vega¹ and Barbara Conanan²

¹SobreVivir - A Will To Live and ²St. Vincent's Catholic Medical Centers of New York

P7-7 **SPREADING “RAYS OF HOPE” IN WESTERN MASSACHUSETTS**

Lucia Giuggio-Carvalho
To Life!

P7-8 **ADVOCATES WORKING IN RESEARCH**

Ann Hernick and Kathleen Ball
Breast Cancer Alliance of Greater Cincinnati

P7-9 **GRASSROOTS ADVOCACY MAKES A DIFFERENCE!**

Sandy Walsh and Michele Rakoff
California Breast Cancer Organizations

*Symposia Session

P8 Detection and Diagnosis I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

- P8-1 MULTIMEDIA NETWORKING AND WIRELESS TEST BED DEVELOPMENT FOR TELEDIAGNOSIS AND TELEMAMMOGRAPHY**
Yu-Dong Yao
Stevens Institute of Technology

- P8-2 DUAL-SYSTEM TWO-VIEW APPROACH FOR COMPUTER-AIDED DETECTION OF BREAST MASSES ON MAMMOGRAMS**
Jun Wei
University of Michigan, Ann Arbor

- P8-3 CORRELATIVE FEATURE ANALYSIS FOR MULTI-MODALITY BREAST CAD: IDENTIFYING THE CORRESPONDING LESIONS FROM DIFFERENT MAMMOGRAPHIC VIEWS**
Yading Yuan, Maryellen Giger, Hui Li, and Charlene Sennett
University of Chicago

- P8-4 INVESTIGATION OF SIMILARITY MEASURES FOR SELECTION OF SIMILAR IMAGES IN THE COMPUTER-AIDED DIAGNOSIS OF BREAST LESIONS ON MAMMOGRAMS**
Chisako Muramatsu, Qiang Li, Robert A. Schmidt, Kenji Suzuki, Junji Shiraishi, Gillian M. Newstead, and Kunio Doi
University of Chicago

- P8-5 COMBINING MAMMOGRAPHY AND SONOGRAPHY FOR COMPUTER-AIDED DIAGNOSIS OF BREAST CANCER**
Jonathan Lee Jesneck,¹ Joseph Y. Lo,² and Jay A. Baker²
¹Dana-Farber Cancer Institute and ²Duke University Medical Center

- P8-6 AUTOMATED MULTI-PARAMETER IMAGE ANALYSIS ALGORITHMS FOR QUANTITATIVE HISTOCYTOMETRY OF BREAST HISTOPATHOLOGY SAMPLES IMAGED BY MULTI-SPECTRAL MICROSCOPY**
Badrinath Roysam,¹ Sumit K. Nath,¹ Wiem Lassoued,² Michael Feldman,³ and William Lee²
¹Rensselaer Polytechnic Institute, ²University of Pennsylvania, and ³University of Pennsylvania Hospital

- P8-7* RECENT ADVANCES IN MICROWAVE DETECTION OF BREAST CANCER: A COMPACT LOW-COST REFLECTOMETER AND ENHANCED SENSING MODALITY THAT COUPLES DIELECTRIC AND ELASTIC PROPERTIES CONTRASTS**
Susan C. Hagness, Barry Van Veen, Min Zhao, Jacob Shea, and Daniel van der Weide
University of Wisconsin, Madison

- P8-8 MICROWAVE IMAGING FOR BREAST CANCER DETECTION: TIME-DOMAIN INVERSE SCATTERING WITH BASIS FUNCTIONS**
Susan C. Hagness, Barry Van Veen, and David Winters
University of Wisconsin, Madison

- P8-9* IN VIVO DETECTION AND CHARACTERIZATION OF MAMMARY TUMORS IN A MURINE MODEL SYSTEM**
Eric Blue,¹ Eric L. Bradley,¹ Nicholas Kenney,² Jianguo Qian,¹ Jonathan Sutton,¹ Amir Yazdi,¹ Robert Welsh,¹ Andrew Weisenberger,³ Stan Majewski,³ Stephen Schworer,¹ and Margaret Somosi Saha¹
¹College of William & Mary, ²Hampton University, and ³Thomas Jefferson University

- P8-10 BREAST TUMOR DETECTION AND TREATMENT USING BAVITUXIMAB LABELED WITH ARSENIC RADIONUCLIDES**
Ralph P. Mason,¹ Marc Jennewein,¹ Xiankai Sun,¹ Guiyang Hao,¹ Marcus Jahn,² Matthew A. Lewis,¹ Dawen Zhao,¹ Linda

Watkins,¹ Sean O'Kelly,³ Padmakar V. Kulkarni,¹ Alex Hermanne,⁴ Frank Rösch,² and Philip E. Thorpe¹

¹University of Texas Southwestern Medical Center at Dallas, ²Institute of Nuclear Chemistry, Johannes Gutenberg-University of Mainz, Germany, ³University of Texas at Austin, and ⁴University of Brussels, Belgium

- P8-11 DUAL BIOLUMINESCENCE TOMOGRAPHY-SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY FOR STUDIES OF METASTATIC BREAST CANCER IN PRE-CLINICAL MODELS**
Matthew Allen Lewis, Anca C. Constantinescu, Ralph P. Mason, Edmond Richer, Serguei Seliounine, Billy Smith, Todd Soesbe, and Peter P. Antich
University of Texas Southwestern Medical Center at Dallas

- P8-12 AUTOMATION AND PRECLINICAL EVALUATION OF A DEDICATED EMISSION MAMMOTOMOGRAPHY SYSTEM FOR FULLY 3-D MOLECULAR BREAST IMAGING**
Spencer Cutler and Martin Tornai
Duke University

- P8-13 MOLECULAR STAGING OF BREAST CANCER USING PET**
Edward Sauter, Michael Lewis, Wenyi Qin, and Baghavathy S. Balaji
University of Missouri, Columbia

- P8-14 POTENTIAL OF FLUORESCENCE SPECTROSCOPY AS AN ADJUNCT DIAGNOSTIC TOOL TO IMAGE GUIDED CORE NEEDLE BREAST BIOPSY**
Changfang Zhu
University of Wisconsin, Madison

- P8-15* NEUTRON-STIMULATED EMISSION COMPUTED TOMOGRAPHY FOR DETECTION OF BREAST CANCER**
Anuj J. Kapadia
Duke University

*Symposia Session

P8-16 IN VIVO SMALL ANIMAL NEAR INFRA-RED FLUORESCENCE IMAGING WITH PRIOR ANATOMICAL INFORMATION

Nrusingh Charan Biswal,¹ Baohong Yuan,² John K. Gamelin,¹ and Quing Zhu¹
¹*University of Connecticut, Storrs* and ²*Catholic University of America*

P8-17 CHARACTERIZATION OF BREAST TUMORS WITH NIR METHODS USING OPTICAL INDICES

Birsen Yazici,¹ Burak Alacam,¹ Nioka Shoko,² and Britton Chance³
¹*Rensselaer Polytechnic Institute, University of Pennsylvania, and ³University of Pennsylvania Johnson Research Foundation*

P8-18 A GENERALIZED LEAST-SQUARES MINIMIZATION METHOD FOR NEAR INFRARED DIFFUSE OPTICAL TOMOGRAPHY

Phaneendra Kumar Yalavarthy,¹ Brian W. Pogue,² and Hamid Dehghani²
¹*Washington University in St. Louis - School of Medicine and ²Dartmouth College*

P8-19* MRI-COUPLED FLUORESCENCE MOLECULAR TOMOGRAPHY FOR BREAST CANCER IMAGING

Scott Davis
Dartmouth College

P8-20* SUBHARMONIC ULTRASOUND CONTRAST IMAGING OF BREAST MASSES: PRELIMINARY RESULTS

Flemming Forsberg,¹ Catherine W. Piccoli,¹ Daniel A. Merton,¹ Juan P. Palazzo,¹ and Anne L. Hall²
¹*Thomas Jefferson University and ²GE Healthcare*

P8-21 EXCITATION ENHANCED IMAGING FOR BREAST CANCER DETECTION: IN VITRO AND IN VIVO RESULTS

Flemming Forsberg,¹ Raymond J. Ro,² William T. Shi,¹ Michael K. Knauer,³ Kausik Sarkar,⁴ Anne L. Hall,⁵ Chris Vecchio,³ and Richard Bernardi³
¹*Thomas Jefferson University, Drexel and MCP Hahnemann Universities, ³Spectrasomics*

Imaging, ⁴University of Delaware, and ⁵GE Healthcare

P8-22 ULTRASOUND IMAGING OF BREAST CANCER

Jill Trendel, Mohammad El-Dakdouki, Jeff Sarver, and Paul W. Erhardt
University of Toledo

P8-23 NONINVASIVE MONITORING OF BREAST CANCER DURING NEOADJUVANT CHEMOTHERAPY USING OPTICAL TOMOGRAPHY WITH ULTRASOUND LOCALIZATION

Quing Zhu,¹ Susan Tannenbaum,² Poornima Hegde,² Mark Kane,² Chen Xu,¹ and Scott Kurtzman²
¹*University of Connecticut, Storrs and ²University of Connecticut Health Center*

P8-24 CONTRAST ENHANCEMENT FOR THERMAL ACOUSTIC BREAST CANCER IMAGING VIA RESONANT STIMULATION

Jian Li
University of Florida

P8-25 EFFECT AND CORRECTION OF CHEST-WALL LAYER ON OPTICAL TOMOGRAPHY FOR BREAST CANCER IMAGING WITH PRIOR ULTRASOUND ANATOMIC INFORMATION

Chen Xu, Mini Das, and Quing Zhu
University of Connecticut, Storrs

P8-26 ACOUSTIC INVERSE SCATTERING FOR TASK-SPECIFIC BREAST SONOGRAPHY: DEVELOPMENT OF NON-IONIZING METHODS FOR MICROCALCIFICATION DETECTION IN HIGH-RISK POPULATIONS

Matthew Allen Lewis,¹ Tuncay Aktosun,² Gaik Ambartsoumian,² Edmond Richer,¹ and Peter P. Antich¹
¹*University of Texas Southwestern Medical Center at Dallas and ²University of Texas at Arlington*

P9 Magnetic Resonance Imaging I

6:30–9:30 PM

**Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM**

P9-1* DETECTION AND EVALUATION OF EARLY BREAST CANCER VIA MAGNETIC RESONANCE IMAGING: STUDIES OF MOUSE MODELS AND CLINICAL IMPLEMENTATION

Sanaz Arkani Jansen, Suzanne Conzen, Thomas Krausz, Gillian Neewstead, and Gregory Karczmar
University of Chicago

P9-2 NON-INVASIVE PHOSPHORUS-31 MAGNETIC RESONANCE SPECTRAL CHARACTERIZATION OF BREAST TISSUE ANOMALIES USING PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

Jerry A. Darsey,¹ Diana Lindquist,² Dan A. Buzatu,³ Ronald Walker,⁴ and Steven Harms⁵

¹*University of Arkansas at Little Rock, ²Amrita Institute of Medical Sciences (Cochin, India), ³National Center for Toxicological Research, ⁴Vanderbilt University Medical Center, and ⁵University of Arkansas for Medical Sciences*

P9-3 MRI STUDY OF UNINVOLVED BREAST TISSUE FOR PATIENTS WITH LOCALLY ADVANCED BREAST CANCER UNDERGOING PRE-OPERATIVE CHEMOTHERAPY

Catherine Klifa, Jessica Gibbs, and Nola Hylton
University of California, San Francisco

P9-4 BREAST TUMOR pH: DESIGN EVALUATION AND APPLICATION OF NOVEL REPORTER MOLECULES

Ralph P. Mason, Weinai Cui, Jian Xin Yu, Pieter Otten, and Vincent A. Bourke
University of Texas Southwestern Medical Center at Dallas

P9-5 BREAST CANCER GENE THERAPY: DEVELOPMENT OF NOVEL NON-INVASIVE MAGNETIC RESONANCE ASSAY TO OPTIMIZE EFFICACY

Ralph P. Mason,¹ Vikram D. Kodibagkar,¹ Li Liu,¹ Jian Xin Yu,¹ Weinan Cui,¹ Angelina Contero,¹ and Stephen L. Brown²

¹*University of Texas Southwestern Medical Center at Dallas and*

²*Henry Ford Health System*

P9-6 DYNAMIC IN VIVO IMAGING OF BREAST TUMORS ENHANCES THERAPEUTIC RESPONSE TO COMBRETASTATIN A4 PHOSPHATE

Dawen Zhao, Karen Chang, Edmond Richer, Nikolai Slavine, Peter Antich, and Ralph P. Mason
University of Texas Southwestern Medical Center at Dallas

P9-7 MAGNETIC RESONANCE SPECTROSCOPY IN BREAST DISEASE

Sandra Brennan, Sunitha Thakur, Wei Huang, Elizabeth Morris, Laura Liberman, Andrea Abramson, Jennifer Kaplan, Anuradha Khilnani, Ralph Wynn, David D. Dershaw, and Hedvig Hricak
Memorial Sloan-Kettering Cancer Center

P9-8 BOLD CONTRAST BREAST MRI

Rebecca Rakow-Penner, Laura Pisani, Bruce Daniel, and Gary Glover
Stanford University School of Medicine

P9-9 IN VITRO EVALUATION OF A POLYMERIC CONTRAST AGENT FOR MONITORING BREAST CANCER TARGETED DRUG DELIVERY

Bahar Zarabi,¹ Anjan Nan,² Jiachen Zhuo,¹ Rao Gullapalli,¹ and Hamid Ghandhari³

¹*University of Maryland, Baltimore,*

²*University of Maryland School of Pharmacy, and* ³*University of Utah*

P10 Functional Imaging

6:30–9:30 PM

*Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM*

P10-1 DEVELOPMENT OF INDOCYANINE GREEN ENCAPSULATED MICROBUBBLES FOR DYNAMIC IMAGING OF BREAST CANCER

Ronald Xiaorong Xu
Ohio State University

P10-2 NONINVASIVE DETECTION OF ENHANCED PERMEABILITY AND RETENTION OF POLYMERS IN TUMORS

Yashveer Singh, Dayuan Gao, Patrick J. Sinko, and Stanley Stein
Rutgers University, New Brunswick

P10-3 DETECTING PROTEINS WITH XE-129 NUCLEAR MAGNETIC RESONANCE (NMR) BIOSENSORS: SOLUTION-, CRYSTAL-, AND CELL-BASED STUDIES

Ivan Julian Dmochowski
University of Pennsylvania

P10-4 RIBOZYME-MEDIATED IMAGING OF RNA AND siRNA IN VIVO

Jianghong Rao, Min-Kyung So, and Gayatri Gowrishankar
Stanford University School of Medicine

P10-5 CATHEPSIN K-SPECIFIC IMAGING OF OSTEOCLASTS AND OSTEOLYSIS

Peter V. Hauschka,¹ Kenneth M. Kozloff,² Somying Patntirapong,¹ Parul Sharma,¹ Mario Tai,³ Ching-Hsuan Tung,⁴ Umar Mahmood,⁵ and Ralph Weissleder⁵

¹*Children's Hospital, Boston,*

²*University of Michigan Medical School,* ³*Anne Arundel Medical Center,* ⁴*Methodist Hospital Research Institute, Houston, Texas, and* ⁵*Massachusetts General Hospital*

P10-6 USING ENHANCED PERMEABILITY AND RETENTION EFFECT FOR TUMOR TARGETING OF FLUORESCENT AGENT AND SIGNAL AMPLIFICATION

Yashveer Singh, Dayuan Gao, Patrick J. Sinko, and Stanley Stein
Rutgers University, New Brunswick

P10-7 RADIOLABELED HEDGEHOG LIGAND FOR TARGETED NUCLEAR IMAGING OF BREAST CANCER

Jennifer Sims-Mourtada, Izabela Tworowska, Ali Azhdarinia, and Hitomi Sasano
RadioMedix, Inc.

P10-8 INTRAVITAL IMAGING IN A TRANSGENIC MOUSE MODEL OF BREAST CANCER AFTER RAPAMYCIN TREATMENT

James Resau, Bart Williams, Kristin VandenBeldt, Brendan Looyenga, Charlotta Lindvall, Cassandra Zylstra, and Rich West
Van Andel Research Institute

P10-9 DEVELOPMENT OF IMAGING AGENTS TARGETING THE NONCLASSICAL ESTROGEN RECEPTOR GPR30 IN BREAST CANCER

Jeffrey Arterburn,¹ Chinnasamy Ramesh,¹ Ritwik Burai,¹ Tapan Nayak,² Helen Hathaway,² Jeffrey Norenberg,² Larry Sklar,² and Eric Prossnitz²

¹*New Mexico State University and*

²*University of New Mexico Health Sciences Center*

P10-10 TARGETING THE ESTROGEN RECEPTOR WITH METAL CARBONYL DERIVATIVES OF ESTRADIOL

Robert N. Hanson,¹ Edward Hua,¹ Sandra L. Olmsted,² and Richard B. Hochberg³

¹*Northeastern University,* ²*Augsburg College, and* ³*Yale University School of Medicine*

P10-11 BINDING AFFINITY DETERMINATION OF $\alpha_v\beta_3$ TARGETING LIGANDS FOR IMAGING OF OSTEOLYSIS

Ashley L. Fiamengo,¹ Jennifer E. Sprague,¹ Yunpeng Ye,¹

*Symposia Session

Samuel Achilefu,¹ and Carolyn J. Anderson²
¹*Washington University in St. Louis - School of Medicine and*
²*Washington University*

P10-12* NONINVASIVE MONITORING OF BREAST CANCER DURING NEOADJUVANT CHEMOTHERAPY USING OPTICAL TOMOGRAPHY WITH ULTRASOUND LOCALIZATION

Quing Zhu,¹ Susan Tannenbaum,² Poornima Hegde,² Mark Kane,² Chen Xu,¹ and Scott Kurtzman²
¹*University of Connecticut, Storrs and*²*University of Connecticut Health Center*

P10-13 METABOLIC MAPPING IN BREAST CANCER MODELS WITH COMBINED FLUORESCENCE SPECTRAL AND LIFETIME IMAGING MICROSCOPY

Kevin W. Eliceiri,¹ John G. White,¹ Nirmala Ramanujam,² Avtar S. Roopra,¹ Patricia J. Keely,¹ and Long Yan¹
¹*University of Wisconsin, Madison and*²*Duke University*

P10-14 RESPIRATORY CHALLENGES: A NEW PROGNOSTIC METHOD TO MONITOR THE EARLY EFFECTS OF CANCER THERAPY

Jae Kim,¹ Dawen Zhao,² Vincent Bourke,² Cheng-Hui Chang,² Ralph Mason,² and Hanli Liu³
¹*University of California, Irvine,* ²*University of Texas Southwestern Medical Center at Dallas, and*
³*University of Texas at Arlington*

P11 Nanotechnology I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P11-1* IDENTIFICATION OF TYPE I IGF RECEPTOR EXPRESSION BY ANTIBODY-CONJUGATED QUANTUM DOTS IN BREAST CANCER

Hua Zhang, Deepali Sachdev, Xianke Zeng, Chun Wang, Alison Hubel, and Douglas Yee
University of Minnesota, Twin Cities

P11-2* RADIATION DOSE ENHANCEMENTS IN GOLD NANOPARTICLE SOLUTIONS: A MONTE CARLO SIMULATION WITH NANOPARTICLE GEOMETRY

Sean Zhang,¹ Junfang Gao,¹ Zhonglu Wang,¹ Mohammad R. Salehpour,¹ Rebekah A. Drezek,² and Tse-Kuan Yu¹
¹*M. D. Anderson Cancer Center, University of Texas and*²*Rice University*

P11-3* INTEGRATED MOLECULAR TARGETING OF IGF1R AND HER2 SURFACE RECEPTORS AND SELECTIVE DESTRUCTION OF BREAST CANCER CELLS USING CARBON NANOTUBES

Balaji Panchapakesan¹ and Eric Wickstrom²
¹*University of Delaware and*
²*Thomas Jefferson University Kimmel Cancer Center*

P11-4* LHRH AND DOXORUBICIN CONJUGATED GOLD NANOPARTICLES FOR BREAST CANCER TREATMENT

Sham S. Kakar, Katherine M. Pohlgeers, Siva K. Panguluri, Hanzhu Jin, Jianting Wang, and Kyung Kang
University of Louisville

P11-5 SURFACE FUNCTIONALIZED NANOPARTICLES FOR PROXIMITY-ACTIVATED DETECTION AND IMAGING OF BREAST CANCER

Todd Giorgio, Sarah L. Sewell, and R. Adam Smith
Vanderbilt University

P11-6 IDENTIFYING PROTEIN-PROTEIN INTERACTIONS AND DYNAMICS IN BREAST CANCER BY NANOCHANNEL DEVICE

Chao-Kai Chou,¹ Nan Jing,² Jun Kameoka,² and Mien-Chie Hung¹
¹*M. D. Anderson Cancer Center, University of Texas and*²*Texas A&M University, College Station*

P11-7 GENETICALLY ENCODED, TARGETED, AMPLIFIABLE, IMAGING AGENTS FOR THE EARLY DETECTION OF BREAST CANCER

Kimberly Kelly,¹ Rajesh Anbazhagan,¹ Debaduti Ghosh,² and Angela Belcher²
¹*Massachusetts General Hospital and*²*Massachusetts Institute of Technology*

P11-8 NANOPARTICLE CONTRAST AGENTS FOR ENHANCED MICROWAVE IMAGING OF BREAST CANCER

Susan C. Hagness,¹ Phillip Messersmith,² Alan Sahakian,² John Booske,¹ Irena Knezevic,¹ and Xu Li²
¹*University of Wisconsin, Madison and*²*Northwestern University*

P11-9 NOTCH AS A DIAGNOSTIC TARGET FOR BREAST CANCER

Jan Kitajewski, Xing Wang, and Thomas Diacovo
Columbia University Medical Center

P11-10 GENETICALLY ENGINEERED BIONANOCONJUGATES FOR TREATING BREAST CANCERS

Chuanbin Mao, Gopal Abbineni, and Aihua Liu
University of Oklahoma, Norman

P11-11 SINGLE-WALLED CARBON NANOTUBES TARGETED TO THE TUMOR VASCULATURE FOR BREAST CANCER TREATMENT

Roger G. Harrison, Luis F. F. Neves, Daniel E. Resasco, and Peter S. McFetridge
University of Oklahoma, Norman

P11-12 PHOTO-DYNAMIC THERAPEUTICS BASED ON CN_x MULTI-WALLED NANOTUBES

David Carroll
Wake Forest University

P11-13 PEPTIDE TARGETING OF NANOPARTICLES TO HUMAN BREAST CANCER CELLS IN VITRO AND IN VIVO

Deborah W. Knapp, Emily M. Haglund, Mary-Margaret Seale-Goldsmith, Deepika Dhawan, Jane C. Stewart, Christy L. Cooper, Lisa M. Reece, Donald E. Bergstrom,
Era of Hope

- José A. Ramos-Vara, and James F. Leary
Purdue University
- P11-14 CURCUMIN-NANOGELS AND CURCUMIN-CARBON NANOTUBES AS MORE EFFICIENT FORMULATION OF CURCUMIN, A POPULAR ANTICANCER DIETARY SPICE**
Anna Reeves,¹ Serguei Vinogradov,² Eric Wickstrom,³ Balaji Panchapakesan,⁴ and Mansoor M. Ahmed¹
¹*Geisinger Clinic, ²University of Nebraska Medical Center, ³Thomas Jefferson University Kimmel Cancer Center, and ⁴University of Delaware*
- P11-15 BREAST TUMOR LOCALIZATION OF MAGNETICALLY RESPONSIVE NANOPARTICLE DRUG CARRIERS**
Jim Klostergaard, James Bankson, and Charles Seeney
M. D. Anderson Cancer Center, University of Texas
- P11-16 THE SELF-GUIDED NANOCOMPOUNDS TARGETING BREAST CANCER CELLS**
Oleg A. Andreev, Lan Yao, and Yana Reshetnyak
University of Rhode Island
- P11-17 DEVELOPMENT OF A NANOCRYSTAL-BASED DRUG DELIVERY SYSTEM**
Tonglei Li, Christin P. Hollis, Hong Yang, and Kimberly W. Anderson
University of Kentucky
- P11-18 NANOPOROUS SILICON PARTICLES AS A MULTISTAGE DELIVERY SYSTEM FOR IMAGING AND THERAPY OF BREAST CANCER**
Rita Elena Serda,¹ Rohan C. Bhavane,¹ Jianhua Gu,¹ Xuewu Liu,¹ Fredrika Robertson,² Paolo Decuzzi,¹ and Mauro Ferrari¹
¹*University of Texas Health Science Center at Houston and ²M. D. Anderson Cancer Center, University of Texas*
- P11-19 COMPOSITE NANOPARTICLES FOR TARGETED DELIVERY TO BREAST SOLID TUMORS**
Vladimir Victor Seregin
University of Maryland, Baltimore

- P11-20 MULTIFUNCTIONAL BETA-LAPACHONE NANOTHERAPEUTICS FOR BREAST CANCER TREATMENT**
Elvin Blanco,¹ Erik A. Bey,¹ Brent D. Weinberg,² David A. Boothman,¹ and Jinming Gao¹
¹*University of Texas Southwestern Medical Center at Dallas and ²Case Western Reserve University*
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- P12 Lifestyle and Nutrition I**
6:30–9:30 PM
Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM
- P12-1 MECHANISM OF BREAST TUMOR GROWTH INHIBITION BY Ω -3 FATTY ACID DIET**
Nandini Ghosh-Choudhury
University of Texas Health Science Center at San Antonio
- P12-2 Ω -3 POLYUNSATURATED FATTY ACIDS (FISH OIL) ATTENUATE THE ESTROGEN-PROMOTED GROWTH OF BREAST CANCER CELLS BY MODIFYING THE ACTIONS OF A MEMBRANE-BOUND ESTROGEN RECEPTOR (GPR30)**
Mark Rasenick,¹ Jiang-Zhou Yu,¹ John Allen,¹ and Lanqui Zhang²
¹*University of Illinois, Chicago* and ²*University of Illinois Medical Center, Chicago*
- P12-3 ABSTRACT WITHDRAWN**
- P12-4 MECHANISMS OF BREAST CANCER ASSOCIATED WITH OBESITY**
Charlotte Kuperwasser,¹ Patricia Keller,¹ Ina Klebba,¹ Hannah Gilmore,² Stephen Naber,³ Stuart Schnitt,³ and Andrew Greenberg¹
¹*Tufts University School of Medicine, ²Beth Israel Deaconess Medical Center, and ³Tufts-New England Medical Center*
- P12-5 LINKING OBESITY TO BREAST CANCER METASTASIS: A LEPTIN - SHIP2- CXCR4 AXIS**
Nagendra K. Prasad
Purdue University
- P12-6* FOODS AND FOOD GROUPS ASSOCIATED WITH FOLLICULAR TOTAL AND FREE ESTRADIOL LEVELS IN PREMENOPAUSAL WOMEN**
Junaidah Bajrai Barnett,¹ E. Cho,² Heather A. Eliassen,² W. C. Willett,³ and Sue E. Hankinson²
¹*Tufts University, ²Brigham and Women's Hospital, and ³Harvard University School of Public Health*
- P12-7 THE Ω -6 AND Ω -3 POLYUNSATURATED FATTY ACIDS AND MODIFIABLE BREAST CANCER RISK FACTORS**
Alana Gregg Hudson,¹ Francesmary Modugno,¹ Gretchen L. Gierach,² Jennifer Simpson,¹ John W. Wilson,¹ Rhobert W. Evans,¹ Victor G. Vogel,¹ and Joel L. Weissfeld¹
¹*University of Pittsburgh and ²National Cancer Institute*
- P12-8* OBESITY ACCELERATES MOUSE MAMMARY TUMOR GROWTH IN THE ABSENCE OF OVARIAN HORMONES**
Stephen Hursting, Nomeli Nunez, and Susan Perkins
University of Texas at Austin
- P12-9* BREAST CANCER RISK REDUCTION: EFFECT OF DIETARY FAT AND FATTY ACIDS ON PLASMA ESTROGEN AND TESTOSTERONE INDICES IN POSTMENOPAUSAL WOMEN**
Susan Raatz, Natalie K. Hanson, Lindsay R. Orr, J. Bruce Redmon, and Mindy S. Kurzer
University of Minnesota, Twin Cities
- P12-10 ABSTRACT WITHDRAWN**
- P12-11* ACTIVE AND PASSIVE TOBACCO SMOKE EXPOSURE INCREASES THE SOMATIC MUTATIONAL BURDEN BEGINNING IN THE WOMB**
Stephen G. Grant
University of Pittsburgh Hillman Cancer Center

*Symposia Session

P12-12* OBESITY, ENERGY BALANCE, AND BREAST CANCER: DIFFERENTIAL EFFECTS OF CALORIE RESTRICTION AND TREADMILL EXERCISE IN p53-DEFICIENT MICE

Stephen Hursting, Lisa Colbert, Nomeli Nunez, and Susan Perkins
University of Texas at Austin

P12-13 IN VIVO AND IN VITRO STUDIES RELATING LEPTIN AND OBESITY TO BREAST CANCER DEVELOPMENT

Margot Cleary,¹ Michael E. Grossmann,² Amitabha Ray,² Katai J. Nkhata,² Soner Dogan,² Joseph P. Grande,³ and Nita J. Maihle⁴
¹*University of Minnesota, Twin Cities*, ²*University of Minnesota, Austin*, ³*Mayo Clinic and Foundation Mayo Medical School*, and ⁴*Yale University School of Medicine*

P13 Epidemiology I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P13-1* IMPACT OF INSTITUTIONAL- AND INDIVIDUAL-LEVEL DISCRIMINATION ON MEDICAL CARE AND QUALITY OF LIFE AMONG BREAST CANCER SURVIVORS

Scarlett Lin Gomez
Northern California Cancer Center

P13-2 A NEW INSTRUMENT TO MEASURE SYMPTOM DISTRESS IN WOMEN WITH BREAST CANCER

Marcia Boehmke
State University of New York, Buffalo

P13-3* ONE-CARBON METABOLISM AND SURVIVAL AMONG A POPULATION-BASED STUDY OF WOMEN WITH BREAST CANCER

Xinran Xu,¹ Marilie D. Gammon,² James G. Wetmur,¹ Patrick T. Bradshaw,² Susan L. Teitelbaum,¹ Alfred I. Neugut,³ Regina M. Santella,⁴ and Jia Chen¹
¹*Mount Sinai School of Medicine, New York*, ²*University of North Carolina at Chapel Hill*, ³*University of North Carolina at Chapel*

Hill,⁴*Columbia University, and*
⁵*Columbia University School of Public Health*

P13-4 EVIDENCE THAT MAMMARY EPITHELIUM (ME) OF WOMEN FROM HIGH BREAST CANCER (BC) INCIDENCE POPULATIONS IS SUBJECT TO CHRONIC OXIDATIVE STRESS (OXS)

Judith Weisz,¹ Erin Murata,² Debrah Schearer,² and David Phelps²
¹*Pennsylvania State University, Milton S. Hershey Medical Center* and ²*Pennsylvania State University College of Medicine*

P13-5 MICROBIAL EXPOSURES AND RISK OF POSTMENOPAUSAL BREAST CANCER: A POPULATION-BASED CASE-CONTROL STUDY

Christina Clarke, Sally Glaser, and Pamela Horn-Ross
Northern California Cancer Center

P13-6 ABSTRACT WITHDRAWN

P13-7 TOTAL XENOESTROGEN BODY BURDEN IN RELATION TO MAMMOGRAPHIC DENSITY, A MARKER OF BREAST CANCER RISK

Amy Trentham-Dietz,¹ Brian L. Sprague,¹ Diana S M Buist,² Jocelyn Hemming,¹ Elizabeth S. Burnside,¹ and Gale Sisney¹
¹*University of Wisconsin, Madison* and ²*Group Health Cooperative of Puget Sound*

P13-8 MATERNAL DIABETES AND BREAST CANCER IN DAUGHTER

Karin B. Michels¹ and Anders Ekbom²
¹*Brigham and Women's Hospital* and ²*Karolinska Institute*

P13-9 TELOMERE LENGTH, PERCEIVED STRESS, AND URINARY STRESS BIOMARKERS IN A NATIONAL STUDY OF MIDDLE AGE AND OLDER WOMEN

Christine G. Parks,¹ Erin C. McCanlies,² Diane B. Miller,² Michael E. Andrew,² Richard M. Cawthon,³ Lisa A. deRoo,¹ and Dale P. Sandler¹
¹*National Institute of Environmental Health Sciences*,

²*National Institute for Occupational Safety and Health, and*³*University of Utah*

P13-10 DETERMINANTS OF WEIGHT GAIN IN WOMEN WITH EARLY STAGE BREAST CANCER

Chi-Chen Hong,¹ Dana Bovbjerg,² John Cowell,¹ Stephen Edge,¹ Swati Kulkarni,¹ Susan McCann,¹ Tracey O'Connor,¹ Lara Sucheston,¹ and Christine Ambrosone¹
¹*Roswell Park Cancer Institute, Buffalo* and ²*Mount Sinai School of Medicine, New York*

P14 Risk and Prevention

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P14-1* DNA METHYLATION AND BREAST CANCER RISK

Mary Beth Terry,¹ Jennifer Ferris,¹ Julie Flom,¹ Regina Santella,² and Hulya Yazici¹
¹*Columbia University* and ²*Columbia University School of Public Health*

P14-2* CHEMOPREVENTIVE EFFICACY OF CURCUMIN IN AN IN VITRO MODEL FOR HER-2 POSITIVE, ESTROGEN RECEPTOR NEGATIVE DCIS BREAST CANCER

Meena Katdare¹ and Nitin T. Telang²
¹*Cornell University, Weill Medical College* and ²*Strang Cancer Prevention Center*

P14-3* MAMMARY CANCER CHEMOPREVENTION WITH THE POLYPHENOL RESVERATROL

Timothy Whitsett, Adam Steg, and Coral Lamartiniere
University of Alabama at Birmingham

P14-4 INHIBITION OF HISTONE DEACETYLATION MAKES MDA-MB-231 BREAST CANCER CELLS RESPONSIVE TO VITAMIN D

Michael McCormick,¹ Xinjian Peng,² and Rajendra Mehta³
¹*Middlebury College*, ²*M. D. Anderson Cancer Center*, ³*University of Texas, and*

- ³University of Illinois, Chicago
College of Medicine
- P14-5 SUPPRESSION OF TUMOR FORMATION BY TREATMENT WITH A COX-2 INHIBITOR AND A PPAR γ AGONIST IN A MOUSE MODEL OF SPONTANEOUS BREAST CANCER**
Aladdin Mustafa and Warren Kruger
Fox Chase Cancer Center
- P14-6 THE t10,c12 ISOMER OF CONJUGATED LINOLEIC ACID (CLA) INDUCES APOPTOSIS IN MAMMARY TUMOR CELLS THROUGH AN ATYPICAL ENDOPLASMIC RETICULUM STRESS RESPONSE**
Lihui Ou, Yue Wu, Clement Ip, Xiaojing Meng, Yung-Chun Hsu, and Margot M. Ip
Roswell Park Cancer Institute, Buffalo
- P14-7 STANDARDIZATION OF IMMUNOHISTOCHEMICAL STAINING ON NORMAL, PROLIFERATIVE, AND ATYPICAL HUMAN BREAST TISSUE**
David L. Kleinberg, Weifeng Ruan, Baljit Singh, Julia Smith, and Deborah Axelrod
New York University School of Medicine
- P14-8 NOVEL SULINDAC SULFIDE DERIVATIVES FOR BREAST CANCER CHEMOPREVENTION**
Robert Reynolds, Gary Piazza, and Heather Tinsley
Southern Research Institute
- P14-9 HUMAN BREAST TISSUE BIOAVAILABILITY OF TOPICALLY APPLIED LIMONENE**
H-H Sherry Chow, Patricia Thompson, and Iman Hakim
University of Arizona, Tucson
- P14-10 PILOT STUDY OF ROSIGLITAZONE THERAPY IN WOMEN WITH BREAST CANCER: EFFECTS OF SHORT-TERM THERAPY ON TUMOR TISSUE AND SERUM MARKERS**
Lisa D. Yee, Nita Williams, Donn Young, Charis Eng, and Joanne Lester
Ohio State University
- P14-11 DEVELOPMENT OF (-)-GOSSYPOL-ENRICHED COTTONSEED OIL, (-)-GPCSO AS A POTENT ANTI-CANCER FOOD COMPONENT FOR HUMAN BREAST CANCER**
Young C. Lin, Weiping Ye, Pingping Xu, and Chieh-Ti Kuo
Ohio State University College of Veterinary Medicine
- P14-12 VALIDATION OF A PRECLINICAL MODEL FOR THE INVESTIGATION OF MENARCHEAL AGE ON BREAST CANCER RISK**
Pepper Schedin, Karla Hedman, Elizabeth Tarbutton, Reema Mallick, and Thomas Sweed
University of Colorado Denver, Health Sciences Center
- P14-13 IDENTITY BY DESCENT MAPPING USING DENSE MARKER MAPS IN EXTENDED PEDIGREES**
Alun Thomas
University of Utah
- P14-14 HUMAN PAPILLOMA VIRUSES (HPVs), FOOD, HORMONES, AND BREAST CANCER**
James Lawson, Wendy K. Glen, and Noel J. Whitaker
University of New South Wales
- P14-15 MOUSE MAMMARY TUMOR VIRUSES (MMTV) AND HUMAN BREAST CANCER**
James Lawson
University of New South Wales
- P14-16 ARE SOME BREAST CANCERS SEXUALLY TRANSMITTED?**
James Lawson, Wendy K. Glen, and Noel J. Whitaker
University of New South Wales
- P14-17 ANALYSIS OF EPIGENETIC CHANGES INDUCED BY EPSTEIN-BARR VIRUS INFECTION IN BREAST CARCINOMA**
Rona Scott, Krista D. Queen, and John W. Sixbey
Louisiana State University Health Sciences Center
- P14-18 BOVINE LEUKEMIA VIRUS IN HUMAN BREAST EPITHELIUM IS A RISK FACTOR FOR BREAST CANCER**
Gertrude Case Buehring,¹ Hua-Min Shen,¹ Hanne M. Jensen,² and Gladys Block¹
¹*University of California, Berkeley* and ²*University of California, Davis School of Medicine*
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- P15 Drug Discovery and Development I**
6:30–9:30 PM
Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM
- P15-1* ENZYMATICALLY SYNTHESIZED POLYMERIC CATECHINS EXHIBIT POTENT AND SPECIFIC ANTI-PROLIFERATIVE ACTIVITY**
Jayant Kumar,¹ Susan Brauhut,¹ Subhalakshmi Nagarajan,¹ Ramaswamy Nagarajan,¹ Donna McIntosh,¹ Ferdinand Bruno,² and Lynne Samuelson²
¹*University of Massachusetts, Lowell* and ²*U.S. Army Natick Soldier Research, Development & Engineering Center*
- P15-2 TARGETS FOR NOVEL BREAST CANCER THERAPIES: ESTROGEN-RELATED RECEPTOR α -CO-ACTIVATOR PROTEIN-PROTEIN INTERACTIONS**
Jennifer A. Lamberski, Nancy E. Thompson, Richard J. Kraus, Janet E. Mertz, and Richard R. Burgess
University of Wisconsin, Madison
- P15-3* EFFECTS OF SYNTHETIC DISINTEGRINS ON BREAST CANCER IN MICE**
Dale G. Hoyt, Rachel L. Stevens, and Ryan A. Schneider
Ohio State University
- P15-4* SMALL MOLECULE INHIBITORS OF CADHERIN-11**
Stephen Byers,¹ Siva Dakshanamurthy,² and Milton Brown³
¹*Lombardi Comprehensive Cancer Center*, ²*Georgetown University Medical Center*, and ³*Georgetown University*

*Symposia Session

P15-5	PROTEASE-MEDIATED NEAR-INFRARED FLUORESCENCE TUMOR IMAGING AND THERAPY Ching H. Tung <i>Methodist Hospital Research Institute</i>	P15-10	TARGETED DOWNREGULATION OF c-Myc THROUGH DISRUPTION OF THE TRANSCRIPTION FACTOR-G-QUADRUPLEX COMPLEX Steven Carey, Tracy A. Brooks, and Laurence H. Hurley <i>University of Arizona, Tucson</i>	P15-16	STRUCTURE-ACTIVITY RELATIONSHIP ANALYSIS OF RAT MAMMARY CARCINOGENS Albert R. Cunningham, Shanna T. Moss, Seena A. Iype, and Suzanne L. Cunningham <i>University of Louisville</i>
P15-6	DECONSTRUCTING NUCLEOTIDE BINDING ACTIVITY OF THE Mdm2 RING DOMAIN Carol Prives, Christina Priest, Masha Poyurovsky, and Brent Stockwell <i>Columbia University</i>	P15-11	BIPHENYL C-CYCLOPROPYLALKYLAMIDES AS NEW SCAFFOLDS FOR TARGETING ESTROGEN RECEPTOR β Miranda Jean Sarachine, Jelena M. Janjic, Peter Wipf, and Billy W. Day <i>University of Pittsburgh</i>	P15-17	BIOACTIVE ANTIESTROGEN CONJUGATES SHOW UNIQUE MECHANISM OF ACTION Ross V. Weatherman, ¹ Emily Rickert, ¹ Anton Peterson, ¹ Sean Oriana, ¹ Xinghua Long, ² and Kenneth P. Nephew ³ ¹ <i>Purdue University</i> , ² <i>Indiana University, Indianapolis</i> , and ³ <i>Indiana University School of Medicine</i>
P15-7	THE β-III ISOTYPE OF TUBULIN: ITS ROLE IN BREAST CANCER CELLS AND AS A POTENTIAL CHEMOTHERAPEUTIC TARGET Richard Luduena, ¹ Tamas Bakos, ² Asok Banerjee, ¹ Starlette J. Y. Dossou, ³ Richard Hallworth, ³ Torin Huzil, ⁴ Elzbieta Izicka, ⁵ Heather Jensen-Smith, ³ Patrick Joe, ¹ Corey Levenson, ² Jonathan Mane, ⁴ Veena Prasad, ¹ Jack A. Tuszyński, ⁶ Alexander Weis, ² and I-Tien Yeh ¹ ¹ <i>University of Texas Health Science Center at San Antonio</i> , ² <i>Oncovista, Inc.</i> , ³ <i>Creighton University</i> , ⁴ <i>University of Alberta</i> , ⁵ <i>Cancer Therapy and Research Center</i> , and ⁶ <i>Cross Cancer Institute (CCI)</i>	P15-12	DEVELOPMENT OF A BREAST CANCER SELECTIVE THERAPEUTIC AGENT Robert Joseph Hickey, ¹ Lacey Dobrolecki, ¹ Jo Davisson, ¹ *im Polar, ¹ and George Sledge ² ¹ <i>Indiana University, Indianapolis</i> and ² <i>Indiana University School of Medicine</i>	P15-18*	SELECTIVE KILLING AND IN VIVO IMAGING OF BREAST CANCER CELLS WITH SHORT SYNTHETIC DNA APTAMERS Jean Gariety and Catia Ferreira <i>University Health Network, Toronto</i>
P15-8	NF-κB ACTIVITY AND METASTATIC POTENTIAL OF BREAST CANCER CELLS ARE INHIBITED BY THE NATURAL PRODUCT RESVERATROL AND BY SYNTHETIC ANALOGS David L. Vander Jagt, Robert A. Orlando, Jeannette Ferguson, Amanda M. Gonzales, Lucy A. Hunsaker, and Lorraine M. Deck <i>University of New Mexico Health Sciences Center</i>	P15-13	A NOVEL APPROACH TO THE DEVELOPMENT OF SMALL MOLECULE INHIBITORS OF Cdc25 PHOSPHATASE Don Coltart, ¹ Julianne M. Yost, ¹ and Allison Betof ² ¹ <i>Duke University</i> and ² <i>Duke University Medical Center</i>	P15-19	MECHANISM OF SELECTIVE PROTECTION BY SILDENAFIL CITRATE AGAINST DOXORUBICIN-INDUCED APOPTOSIS IN NORMAL CARDIOMYOCYTES AND SENSITIZATION TO DOXORUBICIN IN BREAST CANCER CELLS Xu Di and David A. Gewirtz <i>Virginia Commonwealth University</i>
P15-9	VALIDATION OF SMALL MOLECULES DISRUPTING HEC1-NEK2 INTERACTION FOR BREAST CANCER TREATMENT Xiao-Long Qiu, Longen Zhou, Ting-Wan Lin, Guikai Wu, Phang-Lang Chen, and Wen-Hwa Lee <i>University of California, Irvine</i>	P15-14	UNDERSTANDING AND TARGETING Myc ONCOPROTEIN FUNCTION IN BREAST CANCER Linda Penn, ¹ Amanda Wasylissen, ² Romina Ponzielli, ² Christina Bros, ² Paul Boutros, ² and David Andrews ³ ¹ <i>Princess Margaret Hospital, Toronto, Ontario</i> , ² <i>University of Toronto</i> , and ³ <i>McMaster University</i>	P15-20*	COMPUTATIONAL DESIGN OF A SMALL PEPTIDE THAT INHIBITS BREAST CANCER George C. Shields <i>Hamilton College</i>
P15-10	HIGH-CONTENT FRET-FLIM SCREENING FOR INHIBITORS OF ONCOGENIC TRANSCRIPTION BY c-Myc IN BREAST CANCER David Andrews, ¹ Tony Collins, ² Amanda Wasylissen, ³ and Linda Penn ³ ¹ <i>McMaster University</i> , ² <i>UMDNJ Cancer Center</i> , and ³ <i>Princess Margaret Hospital, Toronto</i>	P15-21	DISCOVERY OF BREAST CANCER SERM MOLECULES: NOVEL USE OF FUNDAMENTAL QUANTUM MECHANICS Lou Massa <i>City University of New York, Hunter College</i>	P15-22	STRUCTURAL CHARACTERIZATION AND DETERMINANTS OF SPECIFICITY OF SINGLE-CHAIN ANTIBODY INHIBITORS OF MEMBRANE-TYPE SERINE PROTEASE 1 Christopher Farady <i>University of California, San Francisco</i>

*Symposia Session

P16 Experimental Therapeutics I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

- P16-1 DEVELOPMENT OF A CHEMOKINE (SDF-1/CXCL12) ENHANCED TRANSGENIC MOUSE METASTASIS MODEL FOR PRECLINICAL TESTING OF NOVEL ANTI-CANCER DRUGS**
Stanley Zucker
VA Medical Center, Northport, NY

- P16-2 APTAMER TARGETING OF TUMOR CELLS**
Cassandra Smith, Simona Milea, Gregg Surdi, and Giang Nguyen
Boston University, Boston Campus

- P16-3 THE PERVERSIVE PRESENCE OF FLUCTUATING OXYGENATION IN TUMORS**
Laura Isabel Cardenas-Navia,¹ Daniel Mace,¹ Rachel Richardson,¹ David Wilson,¹ Siqing Shan,¹ and Mark W. Dewhirst²
¹Duke University and ²Duke University Medical Center

- P16-4 LOCOREGIONAL CHEMORADIOTHERAPY OF BREAST AND PROSTATE CANCERS USING ¹⁸⁸RE-CISPLATIN-HYDROGEL**
E. Kim,¹ David J. Yang,¹ Dongfang Yu,¹ Richard Mendez,¹ and Ali Azhdarinia²
¹M. D. Anderson Cancer Center, University of Texas and ²RadioMedix, Inc.

- P16-5 A NOVEL COMBINATION OF THERMAL ABLATION AND HEAT-INDUCIBLE GENE THERAPY FOR BREAST CANCER TREATMENT**
Fang Yuan,¹ Eric Christopher Pua,¹ Yunbo Liu,² and Pei Zhong¹
¹Duke University and ²U.S. Food and Drug Administration, Rockville, MD

- P16-6 HYPERTHERMIA-INDUCED TUMOR METABOLIC CHANGE AND TUMOR REOXYGENATION**
Eui Jung Moon,¹ Chuan-Yuan Li,² Ines Batinic-Haberle,¹ and Mark W. Dewhirst¹
¹Duke University Medical Center and ²University of Colorado Denver, Health Sciences Center

- P16-7 MAGNETICALLY LABELED TRANSGENIC ENDOTHELIAL PROGENITOR CELLS AND DENDRITIC CELLS AS PROBES FOR CELLULAR MRI AND GENE DELIVERY VEHICLES**
Hamid Soltanian-Zadeh, Ali M. Rad, Branislava Janic, Asm Iskander, Robert A. Knight, and Ali S. Arbab
Henry Ford Health System

- P16-8 NOVEL BREAST CANCER THERAPEUTICS BASED ON BACTERIAL CUPREDOXIN**
Faiza Hussain, Loren Stagg, David Culbertson, and Pernilla Wittung-Stafshede
Rice University

- P16-9 THE ROLE OF VITAMIN D IN AROMATASE INHIBITOR-INDUCED BONE LOSS**
Eva Ballint
Stanford University

- P16-10 TOPOISOMERASE II β AND DOXORUBICIN CARDIOTOXICITY**
Yi Lisa Lyu, Anna M. Azarova, Chao-Po Lin, and Leroy F. Liu
University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

- P16-11 A CHEMOTHERAPY-ASSOCIATED SENESCENCE BYSTANDER EFFECT IN BREAST CANCER CELLS**
Lynne Elmore
Virginia Commonwealth University

- P16-12 B CELL TRANSLOCATION GENE 1 CONTRIBUTES TO ANTISENSE Bcl-2-MEDIATED APOPTOSIS IN BREAST CANCER CELLS**
Rita Nahta,¹ Linda Yuan,¹ and Francisco J. Esteva²
¹Emory University and ²M. D. Anderson Cancer Center, University of Texas

- P16-13 INVOLVEMENT OF TOPOISOMERASE II β IN DEXRAZOXANE-MEDIATED PREVENTION OF DOXORUBICIN CYTOTOXICITY**

Yi Lisa Lyu, John E. Kerrigan, Chao-Po Lin, Anna M. Azarova, Yuan-Chin Tsai, Yi Ban, and Leroy F. Liu

University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

- P16-14 THE ROLE OF AUTOPHAGY IN DOXORUBICIN-MEDIATED CYTOTOXICITY**
Shengkan Jin, Po-Hao Chen, and Scott Goldman
University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

- P16-15 SPECIFIC, REVERSIBLE CYTOSTATIC PROTECTION OF NORMAL CELLS AGAINST NEGATIVE EFFECTS OF BREAST CANCER THERAPY**
Benjamin Mull and Khandan Keyomarsi
M. D. Anderson Cancer Center, University of Texas

- P16-16 DIFFERENTIAL IMPACT OF ANTI-DIABETIC TREATMENTS ON BREAST CANCER CELL GROWTH IN CELL CULTURE CONDITIONS MIMICKING DIFFERENT STAGES IN THE NATURAL HISTORY OF DIABETES MELLITUS TYPE 2**
Sai-Ching Jim Yeung, Christopher Gully, and Mong-Hong Lee
M. D. Anderson Cancer Center, University of Texas

- P16-17 ZOLEDRONIC ACID AND PTH INCREASE BONE MASS AND MECHANICAL STRENGTH FOLLOWING RADIATION THERAPY FOR OSTEOLYTIC BONE METASTASES**
Sarah Ann Arrington,¹ Kenneth A. Mann,¹ Tim Sledz,² Gordon E. Willick,³ Timothy A. Damron,¹ and Matthew J. Allen¹
¹State University of New York, Upstate Medical University, ²Micro Photonics, Inc., and ³National Research Council of Canada

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P16-18 BUILDING A BETTER MOUSE FOR HUMAN BREAST CANCER DRUG TESTING

Hallgeir Rui,¹ Fransiscus Eri Utama,² and Kay-Uwe Wagner³
¹Lombardi Comprehensive Cancer Center, ²Thomas Jefferson University Kimmel Cancer Center, and ³University of Nebraska

P16-19 GENETICALLY INDUCED TUMORIGENESIS IN SWINE

Brooke Ancrile,¹ Kristy Kuzmuk,² Laurie Rund,² James Zachary,² Lawrence Schook,² Christopher Counter,¹ and Stacey Adam¹
¹Duke University Medical Center and ²University of Illinois, Champaign/Urbana

P17 Immune-Based Therapies I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P17-1* TELOMERASE-SPECIFIC T-CELL IMMUNITY IN BREAST CANCER: EFFECT OF VACCINATION ON TUMOR IMMUNOSURVEILLANCE

Susan Domchek
 University of Pennsylvania

P17-2 ENHANCED ANTITUMOR IMMUNIZATION BY LIPOSOMAL DELIVERY OF VACCINE

George Sgouros, Mohanambe Lingappa, and Hong Song
Johns Hopkins University School of Medicine

P17-3 DESIGNING CARBOHYDRATE MIMETIC PEPTIDES AS BROAD SPECTRUM IMMUNOGENS

Thomas Kieber-Emmons, Behjatolah Monzavi-Karbassi, Cecile Artaud, Fariba Jousheghany, Jason Plaxco, and Anastas Pashov
University of Arkansas for Medical Sciences

P17-4 ABSTRACT WITHDRAWN

P17-5 ANTI-TUMOR IMMUNIZATION BY LIPOSOMAL DELIVERY OF VACCINE TO THE SPLEEN

Mohanambe Lingappa, Hong Song, and George Sgouros
Johns Hopkins University School of Medicine

P17-6 DEPLETION OF CD4+CD25+ T REGULATORY CELLS AND LOCALIZED IRRADIATION IMPROVED EFFICACY IN COMBINATION TREATMENTS OF ALPHA-PARTICLE RADIOTHERAPY AND WHOLE CELL CANCER VACCINE

Hong Song, Peter S. Kim, Caroline Esaias, Richard Todd Reilly, and George Sgouros
Johns Hopkins University School of Medicine

P17-7* EXPRESSION, FUNCTION, AND VACCINE POTENTIAL OF PDEF IN BREAST CANCER

Ashwani Sood, Liaomin Peng, and Chitta Kasyapa
Roswell Park Cancer Institute, Buffalo

P17-8* CANCER VACCINES TARGETING DEATH RECEPTOR DR5 FOR TNF-RELATED APOPTOSIS-INDUCING LIGAND (TRAIL)

Wei-Zen Wei,¹ Jessica B. Back,² Marie P. Piechocki,² Richard F. Jones,¹ Gen Sheng Wu,¹ and Hideo Yagita³
¹Wayne State University, ²Karmanos Cancer Institute, and ³Juntendo University, Japan

P17-9 EVALUATION OF HUMAN IMMUNE RESPONSE TO MAITAKE BETA-GLUCAN IN A PHASE I STUDY IN BREAST CANCER PATIENTS

Hong Lin,¹ Sandy W.-Y. Cheung,¹ Andrew Vickers,² Gary E. Deng,² Susanna Cunningham-Rundles,¹ and Barrie R. Cassileth²
¹Cornell University, Weill Medical College and ²Memorial Sloan-Kettering Cancer Center

P17-10 MODULATING CYCLOOXYGENASE-2-MEDIATED PROSTAGLANDIN E2 PRODUCTION AND SIGNALING ON MURINE MAMMARY TUMORS ENHANCES NATURAL KILLER CELL LIGAND-RECEPTOR INTERACTIONS LEADING TO TUMOR CELL LYSIS AND DECREASED METASTASIS

Dawn M. Holt,¹ Namita Kundu,² Xinrong Ma,² Suzanne Ostrand-Rosenberg,³ and Amy M. Fulton²
¹University of Maryland, Baltimore, ²University of Maryland School of Medicine, and ³University of Maryland, Baltimore County

P17-11 IDENTIFICATION OF NOVEL MIMOTOPES FOR THE DEVELOPMENT OF MULTIVALENT BREAST CANCER VACCINES

Jonathan Bramson,¹ Galina Densiova,¹ and Sukhbinder Dhesy-Thind²
¹McMaster University and ²Juravinski Cancer Centre

P17-12* A NOVEL BREAST CANCER VACCINE USING IMMUNOSTIMULATORY PEPTIDES

Davorka Messmer,¹ Chien Tze Huang,¹ Ilia Sri Bharati,¹ Wenxue Ma,¹ and Boris Minev²
¹University of California, San Diego Cancer Center and ²University of California, San Diego

P17-13 A DNA VACCINE AGAINST FIBROBLAST ACTIVATION PROTEIN ACTS SYNERGISTICALLY WITH DOXORUBICIN TO INHIBIT TUMOR GROWTH AND METASTASIS IN A MOUSE MODEL OF BREAST CANCER

Debbie Liao and Ralph A. Reisfeld
Scripps Research Institute

P17-14 IMMUNE RESPONSE AUGMENTATION IN METASTASIZED BREAST CANCER BY LOCALIZED THERAPY UTILIZING BIOCOMPATIBLE MAGNETIC FLUIDS

Cahit Ahmet Evrensel
University of Nevada, Reno

*Symposia Session

P17-15 DOES COMBINATION IMMUNOTHERAPY WITH HUMAN MONOCLONAL ANTIBODIES AGAINST HER2 AND CXCR4 AUGMENT BREAST CANCER CELL KILLING IN VITRO AND IN VIVO?

Wayne Marasco and Jianhua Sui
Dana-Farber Cancer Institute

P17-16 IMMUNE MODULATORY EFFECT OF REGULATORY T CELLS ON NK CELLS AND THE DEVELOPMENT OF NOVEL THERAPEUTIC STRATEGIES AGAINST BREAST CANCER

John Stagg and Mark J. Smyth
Peter MacCallum Cancer Centre

P18 Targeted Therapies I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P18-1* CHEMICAL REGULATION OF PROTEIN KINASES IN BREAST CANCER

Arvin C. Dar and Kevan M. Shokat
University of California, San Francisco

P18-2* PRECISION-GUIDED CANCER THERAPY: SYNERGISM OF SELECTIVE TUMOR VASCULAR THROMBOSIS AND TUMOR MICROENVIRONMENT-ACTIVATED PRODRUG

Cheng Liu, Fang Guo, Fang Guo, and Yuan Liu
Scripps Research Institute

P18-3* INCREASED POTENCY OF THE PHSCN DENDRIMER AS AN INHIBITOR OF BREAST CANCER CELL INVASION AND SURVIVAL

Donna Livant
University of Michigan, Ann Arbor

P18-4* A NOVEL AND EFFECTIVE COMBINATION TARGETING THERAPY FOR ADVANCED HUMAN BREAST TUMORS

Yayun Liang,¹ Cynthia Besch-Williford,¹ Indira Benakanakere,¹ Sandra L. Brandt,¹ Philip E. Thorpe,² and Salman M. Hyder¹
¹*University of Missouri, Columbia* and ²*University of Texas Southwestern Medical Center at Dallas*

P18-5 TARGETING siRNA MISSILES TO HER2+ BREAST CANCER

Lali Medina-Kauwe,¹ Altan Rentsendorj,¹ Vinod Valluripalli,¹ Hasmik Agadjanian,¹ Jun Ma,¹ Dongho Kim,² and John Rossi²
¹*Cedars-Sinai Medical Center* and ²*City of Hope Beckman Research Institute*

P18-6 MALONYL-CoA DECARBOXYLASE (MCD) INHIBITION IS SELECTIVELY CYTOTOXIC TO HUMAN BREAST CANCER CELLS

Francis Kuhajda,¹ Weibo Zhou,¹ Kandasamay Subburaj,² and Yajun Tu¹
¹*Johns Hopkins University School of Medicine* and ²*Fasgen, Inc.*

P18-7 INTERACTIONS OF CYTOTOXIC SELENIUM-PROTEIN CONJUGATES WITH STANDARD CHEMOTHERAPY DRUGS: QUANTITATIVE ANALYSIS BY THE COMBINATION INDEX METHOD

Fritz Sieber, Sarah A. Muir, Reynee W. Sampson, and Vikram M. Gopal
Medical College of Wisconsin

P18-8 A PROSTATE-SPECIFIC MEMBRANE ANTIGEN (PSMA) ACTIVATED THAPSIGARGIN PRODRUG DEMONSTRATES ANTITUMOR EFFICACY AGAINST HUMAN BREAST CANCER XENOGRAFTS

Samuel Ray Denmeade,¹ D. Marc Rosen,¹ Craig A. Dionne,² Soeren Brogger Christensen,³ and John Tod Isaacs¹
¹*Johns Hopkins University School of Medicine*, ²*GenSpera, Inc.*, and ³*University of Copenhagen*

P18-9 USING COMBINATORIAL BORANE RNA CHEMISTRY TO CREATE NOVEL APTAMERS TO ErbB2

Barbara Ramsay Shaw,¹ Mariam Sharaf,¹ Manuel L. Penichet,² and James P. Vaughn³
¹*Duke University*, ²*University of California, Los Angeles*, and ³*Wake Forest University Health Sciences*

P18-10 ORPHAN NUCLEAR RECEPTOR Nur77 AS A MOLECULAR TARGET FOR DEVELOPING Bcl-2-BASED THERAPEUTICS AGAINST BREAST CANCER

Xiao-Kun Zhang,¹ Siva Kumar Kolluri,² Xiuwen Zhu,¹ Bingzhen Lin,¹ Xihua Cao,¹ and Arnold C. Satterthwait¹
¹*Burnham Institute* and ²*Oregon State University*

P18-11 TARGETED DELIVERY OF 2-METHOXYESTRADIOL FOR THE TREATMENT OF BREAST CANCER

Rohit Kolhatkar,¹ Mark Borgman,¹ Angelika Burger,² Edward Sausville,² Andrew Coop,³ and Hamid Ghandehari⁴
¹*University of Maryland, Baltimore*, ²*University of Maryland School of Medicine*, ³*University of Maryland School of Pharmacy*, and ⁴*University of Utah*

P18-12 INHIBITION OF 6-PHOSPHOFRUCTO-2-KINASE DECREASES BREAST TUMOR GROWTH

Brian Clem, Sucheta Telang, Amy Clem, Abdullah Yalcin, and Jason Chesney
University of Louisville Research Foundation, Inc.

P18-13 DEVELOPMENT OF RADIO-TARGETING PEPTIDES FOR BREAST CANCER

Nianhuan Yao,¹ Wenwu Xiao,¹ and Kit S. Lam²
¹*University of California, Davis* and ²*University of California, Davis Medical Center*

P18-14 “SMART” POLYMERIC CARRIERS FOR ENHANCED INTRACELLULAR DELIVERY OF NUCLEIC ACID DRUGS

Mohamed E H El-Sayed
University of Michigan, Ann Arbor

P18-15 POLYAMINE ANALOGUES AS NOVEL ANTI-HER FAMILY AGENTS IN HUMAN BREAST CANCER

Talmesha Richards
Johns Hopkins University School of Medicine

*Symposia Session

P18-16 TRAIL AND TRA-8 ANTI-DR5 ANTIBODY IN COMBINATION WITH CHEMOTHERAPY DRUGS PRODUCE INCREASED CYTOTOXICITY AND ACTIVATE APOPTOTIC PATHWAYS IN BREAST CANCER CELLS
Hope M. Amm and Donald J. Buchsbaum
University of Alabama at Birmingham

P18-17 TARGETING MALIGNANT BREAST CANCER CELLS WITH A TUMOR-SPECIFIC NEUROTROPIC PEPTIDE-TOXIN
Mickey Hu
M. D. Anderson Cancer Center, University of Texas

P18-18 INDUCTION OF TRAIL BY CHEMOTHERAPY IN HUMAN BREAST CANCER CELLS
Gen Sheng Wu,¹ Jing Xu,¹ Sjaak Philipsen,² Jun-Ying Zhou,¹ and Wei-Zen Wei¹
¹*Wayne State University and Erasmus University*

P18-19 INHIBITION OF LEGUMAIN:INTEGRIN COMPLEX AT INVASIVE CELL FRONT BLOCKS ANGIOGENESIS AND METASTASIS
Cheng Liu, Yuan Liu, and Fang Guo
Scripps Research Institute

P18-20 MAMMAGLOBIN IS PARTIALLY BOUND ON THE SURFACE OF BREAST CANCER CELLS
Shaojin You,¹ Wei Li,² and Qian Wang³
¹*Atlanta Research and Education Foundation, Inc.*, ²*Dorn Research Institute*, and ³*University of South Carolina*

P18-21 HUMAN BONE MARROW-DERIVED MESENCHYMAL STEM CELLS IN THE TREATMENT OF BREAST CANCER METASTASIS TO THE CENTRAL NERVOUS SYSTEM
Shalom Avraham
Beth Israel Deaconess Medical Center

P18-22 NEW MOLECULAR INSIGHTS TO ACCELERATE THE DEVELOPMENT OF FATTY ACID SYNTHASE (FASN)-TARGETED INHIBITORS INTO A CLINICAL SETTING
Javier Abel Menendez¹ and Ruth Lupu²
¹*Girona Biomedical Research Institute (IDIBGI)* and ²*Evanston Northwestern Healthcare Research Institute*

P19 Antiangiogenics

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P19-1* ANGIOTENSIN-(1-7) INHIBITS THE GROWTH OF HUMAN TRIPLE NEGATIVE BREAST TUMORS IN AN ORTHOTOPIC MODEL
David Ricardo Soto-Pantoja, Jyotsana Menon, Patricia E. Gallagher, and E. Ann Tallant
Wake Forest University School of Medicine

P19-2* BREAST CANCER THERAPY USING ANTIBODY-ENDOSTATIN FUSION PROTEINS
Seung-Uon Shin
University of Miami, School of Medicine

P19-3 MICROBUBBLE AND ULTRASOUND ENHANCEMENT OF RADIATION-INDUCED TUMOR CELL DEATH IN VIVO
Gregory Jan Czarnota, Raffi Karshafian, Anoja Giles, Justin Lee, Behzad Banihashemi, and Peter Burns
Sunnybrook and Women's College Health Science Centre

P19-4 SYNERGISTIC EFFECT OF COMBINED NAB-PACLITAXEL AND ANTI-ANGIOGENIC ANTIBODIES IN INHIBITION OF TUMOR GROWTH AND METASTASIS IN BREAST CANCER XENOGRAFT MODELS
Sophia Ran, Lisa Volk, Christopher Bivens, Alan Stutzman, Neil Desai, and Vuong Trieu
Southern Illinois University

P19-5 TARGETING TISSUE FACTOR-EXPRESSING TUMOR ANGIOGENESIS AND TUMORS OF HUMAN BREAST CANCER XENOGRAFTS WITH EF24 CONJUGATED TO THE ACTIVE SITE-INACTIVATED FACTOR VIIA
Mamoru Shoji
Emory University

P19-6 ANTIANGIOGENIC ACTION OF CHEMICALLY MODIFIED TETRACYCLINES IN BREAST CANCER
Sanford R. Simon and Mansi Kothari
State University of New York, Stony Brook

P19-7 COPPER DEFICIENCY INDUCED BY TETRAUTHIOMOLBYDATE SUPPRESSES TUMOR GROWTH AND ANGIOGENESIS
Quintin Pan
University of Michigan Medical School

P19-8 MEASUREMENT OF pO₂ AND pH WITH THREE-DIMENSIONAL RESOLUTION IN BREAST TUMOR MODELS IN LIVING MICE BY MULTIPHOTON MICROSCOPY DURING HERCEPTIN THERAPY
Ryan M. Lanning,¹ Dai Fukumura,² Edward B. Brown,³ Rebecca Somers,¹ Andrew B. Greytak,¹ Timothy Padera,² Daniel G. Nocera,¹ Moungi G. Bawendi,¹ and Rakesh K. Jain²
¹*Massachusetts Institute of Technology*, ²*Massachusetts General Hospital*, and ³*University of Rochester*

P19-9* TRANSCRIPTIONAL PROFILE OF VASCULAR TISSUE IDENTIFIES DISTINCT SUBTYPES OF VASCULATURE AND PREDICTS CLINICAL OUTCOME IN BREAST CANCER
Francois Pepin
McGill University

*Symposia Session

P20 Drug Resistance I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P20-1* TAMOXIFEN-STIMULATED GROWTH OF BREAST CANCER DUE TO p21 LOSS

John Gustin
Johns Hopkins University School of Medicine

P20-2* THE UNFOLDED PROTEIN RESPONSE REGULATOR GRP78 AS A NOVEL TARGET FOR INCREASING SENSITIVITY OF HUMAN BREAST CANCER CELLS TO ANTIESTROGEN THERAPY

Amy S. Lee, Yong Fu, and Jianze Li
University of Southern California

P20-3* INHIBITION OF JAB1 REVERSES RESISTANCE TO TRASTUZUMAB BY INCREASING THE STABILITY OF p27

Francois Claret,¹ Anita Korapati,¹ Qingxiu Zhang,¹ Ling Tian,¹ Timothy E. Kute,² and Terry Shackford¹

¹*M. D. Anderson Cancer Center, University of Texas and ²Wake Forest University*

P20-4* CONTRIBUTION OF AUTOPHAGY TO THE RESPONSE OF BREAST CANCER TO TRASTUZUMAB

Alan Eastman
Dartmouth College

P20-5 TARGETING GLUCOSYL CERAMIDE SYNTHASE REVERSES DRUG RESISTANCE THROUGH CERAMIDE-INDUCED APOPTOSIS IN VIVO

Yong-Yu Liu,¹ Gauri Patwardhan,¹ Dongmei Yin,¹ Vinnet Gupta,¹ Qianjin Zhang,² Jianxiong R. Bao,² and Michal S. Jazwinski³

¹*University of Louisiana, Monroe, ²Louisiana State University Health Sciences Center, and ³Tulane University Medical School*

P20-6 TARGETING THE STABILITY OF p27KIP1 CELL CYCLE INHIBITOR WITH SMALL MOLECULES

Francois Claret
M. D. Anderson Cancer Center, University of Texas

P20-7 INTERMITTENT TREATMENT STRATEGIES USING AROMATASE INHIBITORS: A PRECLINICAL STUDY

Shiuan Chen
City of Hope Beckman Research Institute

P20-8 CHROMOSOME 8q22 AMPLIFICATION CONTAINS LAPT M4B, IMPLICATED IN RESISTANCE TO CHEMOTHERAPY IN BREAST CANCERS

Zhigang Wang, Yang Li, Ruiyang Tian, James D. Iglesias, and Andrea L. Richardson
Dana-Farber Cancer Institute

P20-9 Akt PLAYS AN IMPORTANT ROLE IN BREAST CANCER CELL CHEMOTAXIS TO CXCL12

Ingrid Schraufstatter, Ming Zhao, Ming Zhao, Barbara Mueller, Barbara Mueller, Richard Discipio, and Richard Discipio
Torrey-Pines Institute for Molecular Studies

P20-10 ALTERATIONS OF MICRORNAS EXPRESSION ARE ASSOCIATED TO MULTIDRUG RESISTANCE OF BREAST CANCER

Zhongxing Liang
Emory University

P20-11 MACROAUTOPHAGY INHIBITION SENSITIZES TAMOXIFEN-RESISTANT BREAST CANCER CELLS AND ENHANCES MITOCHONDRIAL DEPOLARIZATION

Sharon Gorski, Mohammed Qadir, Brian Kwok, Wh Dragowska, Tim To, David Le, and Marcel Bally
British Columbia Cancer Agency

P20-12 INHIBITION OF GLYCOLIPID METABOLISM DOWNREGULATES MDR1 EXPRESSION IN ADRIAMYCIN-RESISTANT CANCER CELLS

Myles Cabot
John Wayne Cancer Institute

P20-13 LYSOSOME-MEDIATED CELL DEATH AND AUTOPHAGY-DEPENDENT MULTIDRUG RESISTANCE IN BREAST CANCER

Victor Levenson
Northwestern University

P20-14 A NEW MECHANISM FOR ESTROGEN-STARVATION RESISTANCE IN BREAST CANCER

Amy S. Lee, Yong Fu, and Minal Patel
University of Southern California

P20-15 MICROTUBULE ASSOCIATED PROTEIN Tau AND CELLULAR SENSITIVITY TO TAXANES: MECHANISM, MARKER, OR EPIPHENOMENON?

Tatiana Spicakova,¹ Maureen O'Brien,¹ George E. Duran,¹ and Branimir Sikic²
¹*Stanford University School of Medicine* and ²*Stanford University*

P20-16* THE NF κ B INHIBITOR PARTHENOLIDE RESTORES SENSITIVITY TO 4-HYDROXY TAMOXIFEN THROUGH APOPTOTIC PATHWAYS INVOLVING TNFR1 AND BCL-2 IN ANTIESTROGEN-RESISTANT MCF-7 BREAST CANCER CELLS

Ruchi Nehra,¹ Rebecca B. Riggins,¹ and Robert Clarke²
¹*Georgetown University* and ²*Georgetown University Medical Center*

P21 Biomarkers I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P21-1* MAMMOGRAPHIC DENSITY DOES NOT PREDICT RESPONSE TO TAMOXIFEN

Victoria Seewaldt and Joseph Lo
Duke University Medical Center

P21-2* E-CADHERIN LEVELS PREDICT OUTCOME IN INFLAMMATORY BREAST CANCER

Paul Howard Levine
George Washington University

P21-3 A PROSPECTIVE STUDY OF MULLERIAN INHIBITING SUBSTANCE AND BREAST CANCER RISK

Joanne Dorgan,¹ Frank Stanczyk,² Brian Egleston,¹ Cynthia Spittle,¹ Gregory Adams,¹ and Louise Brinton³

¹*Fox Chase Cancer Center,*

²*University of Southern California,*

*Symposia Session

*Keck School of Medicine, and
3National Cancer Institute*

P21-4 POTENTIAL PROGNOSTIC AND THERAPEUTIC VALUE OF Rad6 IN BREAST CANCER

Malathy Pv Shekhar, Larry Tait,
and Daniel Visscher
Wayne State University

P21-5 IDENTIFICATION OF NEW SERUM BIOMARKERS FOR EARLY BREAST CANCER DIAGNOSIS AND PROGNOSIS USING LIPID MICROARRAYS

Guangwei Du
*State University of New York,
Stony Brook*

P21-6 PERIPHERAL BLOOD METHYLATION: A POSSIBLE BIOMARKER FOR PREDICTING BREAST CANCER RISK

Alexander Dobrovic and Lasse Sommer Kristensen
Peter MacCallum Cancer Centre

P21-7 IDENTIFICATION OF MOLECULAR MARKERS FOR BREAST METASTASIS

Mohan P. Achary,¹ Tarun Ray,²
Bizhan Micaily,² and Curtis Miyamoto²
¹*Temple University School of Medicine* and ²*Temple University Hospital*

P21-8 TARGETING THERAPY RESISTANT TUMOR VESSELS

Erkki Ruoslahti, Heli Matilainen,
and Valentina Fogal
Burnham Institute

P21-9 DEVELOPMENT OF A SIMPLE CLINICAL ASSAY FOR MEASUREMENT OF BREAST CANCER CELL MICROVESICLES IN PLASMA

Kevin W. Harris
University of Alabama at Birmingham

P21-10 PROTEOMIC PREDICTION OF BREAST CANCER RISK

Thomas Rohan, Yansen Xiao, E. Richard Stanley, Ruth Angeletti, Eddie Nieves, Yee-Kai Yeung, Laurie Habel, Charles Hall,

Nicholas Socci, and Joseph Vogelman
Albert Einstein College of Medicine of Yeshiva University

P21-11 SERUM BIOMARKER PROFILES AND RESPONSE TO NEOADJUVANT CHEMOTHERAPY FOR LOCALLY ADVANCED BREAST CANCER

Brian Nolen, Shlomo Ta'asan, Alex Rand, Jeffrey Marks, and Anna Lokshin
University of Pittsburgh

P21-12 MICROARRAY ANALYSIS OF CPG METHYLATION AND ALTERED GENE EXPRESSION IN THE MCF10A MODEL OF BREAST CANCER PROGRESSION

Judith K. Christman, Julun Yang, Lin Tang, and David L. Klinkebiel
University of Nebraska Medical Center

P21-13 PREVENTION OF 40%–50% OF BREAST CANCERS BY DETECTING TRUE PRECANCEROUS LESIONS AMONG BENIGN PATIENTS BASED ON THE PRESENCE OF CANCER PROMOTING MOLECULAR MARKERS

Indira Poola

Howard University

P21-14 MICROTUBULE-ASSOCIATED PROTEIN (MAP)-Tau IS A PROGNOSTIC BIOMARKER ASSOCIATED WITH BETTER OUTCOME IN BREAST CANCER

Maria T. Baquero, Mark Gustavson,

Robert Camp, and David Rimm

Yale University School of Medicine

P21-15 IDENTIFY AND DEVELOP AN IN VITRO CELL MODEL WITH A HIGH LEVEL EXPRESSION OF CRIP1, A NOVEL BIOMARKER FOR BREAST CANCER

Jihua Hao and James Basilion

Case Western Reserve University

P21-16 IDENTIFICATION OF PEPTIDE LIGANDS TO CRIP1, A NOVEL BIOMARKER FOR BREAST CANCER

Jihua Hao and James Basilion

Case Western Reserve University

P21-17 THE MAMMARY GLAND SEROTONIN SYSTEM AS A NOVEL BIOMARKER FOR BREAST CANCER

Nelson Horseman and Vaibhav Pai
University of Cincinnati

P21-18 COMPUTATIONAL WORKFLOW DEVELOPMENT FOR THE CLINICAL APPLICATION OF PROTEOMIC PROFILING OF PLASMA SAMPLES

Vladimir Fokin,¹ Susanne Ragg,¹ Gunther Schadow,¹ Krzysztof Podgorski,² Olga Vitek,³ and Ilka Ott⁴

¹*Indiana University, Indianapolis,*

²*Lund University, Sweden,*

³*Purdue University, and ⁴Technical University Munich, Germany*

P22 Stem Cells I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P22-1* HUMAN MAMMARY STEM CELLS DETECTED USING A XENOTRANSPLANT MODEL REPRESENT A NOVEL POPULATION

Peter Eirew,¹ John Stingl,² Afshin Raouf,¹ Joanne Emerman,³ and Connie J. Eaves¹

¹*British Columbia Cancer Agency,*

²*University of Cambridge, and*

³*University of British Columbia*

P22-2* DCIS STEM CELLS: INVESTIGATING THE ORIGIN OF THE INVASIVE PHENOTYPE

Lance Allen Liotta, Kirsten Edmiston, Virginia Espina, Julia Wulfkuhle, Rosa Gallagher, Barbara Merritt, and Emanuel Petricoin

George Mason University

P22-3* INVESTIGATION OF STEM AND PROGENITOR SUBPOPULATIONS IN HUMAN BREAST TISSUE FROM BRCA1 AND BRCA2 CARRIERS

Geoffrey J. Lindeman,¹ Elgene Lim,¹ François Vaillant,¹ Heather Thorne,² Audrey Partanen,³

*Symposia Session

<p>P22-4 BAD SEEDS PRODUCE BAD CROPS: SIGNS OF A SINGLE STEP PROCESS OF BREAST TUMOR PROGRESSION Yan-Gao Man <i>Armed Forces Institute of Pathology</i></p> <p>P22-5* A NEW PARADIGM FOR AFRICAN AMERICAN BREAST CANCER INVOLVING STEM CELL DIFFERENTIATION IN A BREAST TISSUE ENGINEERING SYSTEM Jean Latimer,¹ Nancy Lalanne,² Nicole T. Myers,² Amie Benson Courtney,² Eric Lagasse,³ and Stephen G. Grant⁴ ¹<i>University of Pittsburgh</i>, ²<i>University of Pittsburgh Cancer Institute</i>, ³<i>McGowan Institute for Regenerative Medicine</i>, and ⁴<i>University of Pittsburgh Hillman Cancer Center</i></p> <p>P22-6* ADULT HUMAN MESENCHYMAL STEM CELLS ENHANCE BREAST CANCER TUMORIGENESIS AND PROMOTE HORMONE INDEPENDENCE Lyndsay Rhodes,¹ Shannon E. Muir,¹ Steven Elliott,² Lori M. Guillot,¹ James W. Antoon,¹ Patrice Penifornis,¹ Syreeta L. Tilghman,¹ John A. McLachlan,¹ Brian G. Rowan,¹ Radhika Pochampally,¹ and Matthew E. Burow¹ ¹<i>Tulane University</i> and ²<i>Tulane University Medical School</i></p> <p>P22-7 WNT-INDUCED PROGENITORS: ARE THEY HIGHLY MUTABLE? Caroline Alexander <i>University of Wisconsin, Madison</i></p>	<p>P22-8 SMALL MOLECULE COMBINATORIAL LIBRARIES TO IDENTIFY NEW MAMMARY STEM CELL MARKERS Kent L. Erickson,¹ Alexander D. Borowsky,² Neil E. Hubbard,¹ Patrizia Damonte,¹ and Kit S. Lam² ¹<i>University of California, Davis School of Medicine</i> and ²<i>University of California, Davis Medical Center</i></p> <p>P22-9 GENE EXPRESSION CHARACTERISTICS OF SIDE POPULATION CELLS FROM BREAST CANCER Peter V. Hauschka, Deepa Saxena, and Parul Sharma <i>Children's Hospital, Boston</i></p> <p>P22-10 USE OF HYALURONAN NANOPARTICLES TO DETECT BREAST TUMOR PROGENITOR CELLS Eva Turley,¹ Mandana Veiseh,² Yuan Qi,¹ Len Luyt,¹ and Mina Bissell² ¹<i>University of Western Ontario</i> and ²<i>Lawrence Berkeley National Laboratory</i></p> <p>P22-11 IDENTIFICATION OF MICRORNAs INVOLVED IN NORMAL MAMMARY GLAND DEVELOPMENT AND BREAST CANCER Stephanie Greene and Jeffrey M. Rosen <i>Baylor College of Medicine</i></p> <p>P22-12 ARE BREAST TUMOR STEM CELLS RESPONSIBLE FOR METASTASIS AND ANGIOGENESIS? Quintin Pan <i>University of Michigan Medical School</i></p> <p>P22-13 MAMMARY STEM CELLS AND RESIDUAL NEOPLASTIC DISEASE Lewis A. Chodosh <i>University of Pennsylvania</i></p> <p>P22-14 Wnt SIGNALING IN MAMMARY STEM CELL DEVELOPMENT AND CANCER Wei Hsu <i>University of Rochester Medical Center</i></p>	<p>P23 Cellular Development 6:30–9:30 PM Posters Manned: Odd-numbered – 6:30–8:00 PM Even-numbered – 8:00–9:30 PM</p> <p>P23-1* UNMASKING STEM/PROGENITOR CELL PROPERTIES USING SHORT-TERM TRANSPLANTATION Ricardo C. Moraes and Michael T. Lewis <i>Baylor College of Medicine</i></p> <p>P23-2 LYMPHATIC DIFFERENTIATION OF ENDOTHELIAL PRECURSOR CELLS FOR A CELL-BASED LYMPHEDEMA THERAPY FOR BREAST CANCER PATIENTS Young Kwon Hong,¹ Juneyong Lee,² Sunju Lee,² Jinjoo Kang,² Bernice Aguilar,² Swapnika Ramu,² Jaehyuk Yoo,² and Sathish Kumar Ganesan² ¹<i>University of Southern California</i> and ²<i>University of Southern California Norris Comprehensive Cancer Center</i></p> <p>P23-3 Cdc42 AND ITS REGULATORY PROTEINS CONTROL EPITHELIAL POLARITY AND TUMORIGENICITY IN 3-DIMENSIONAL CULTURE Anirban Datta <i>University of California, San Francisco</i></p> <p>P23-4 Mist1 IS CRITICAL TO MAINTAINING THE TERMINAL DIFFERENTIATED STATE OF MAMMARY ALVEOLAR CELLS Jeff Ishibashi, Yan Zhao, Di Jia, Yoko Itahana, Pierre Desprez, and Stephen F. Konieczny <i>Purdue University</i></p> <p>P23-5 CONNECTIVE TISSUE GROWTH FACTOR ENHANCES MAMMARY EPITHELIAL CELL LACTOGENIC DIFFERENTIATION VIA INTEGRIN-MEDIATED SIGNALING Mary Lou Cutler, Bethanie Morrison, and Cynthia Jose <i>Uniformed Services University of the Health Sciences</i></p>
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*Symposia Session

P23-6	APPLICATION AND VALIDATION OF IN CELL WESTERN TECHNIQUES FOR ANALYSIS OF EXPRESSION IN MICROFLUIDIC CELL CULTURES Amy Paguirigan <i>University of Wisconsin, Madison</i>	P23-12	VIMENTIN FILAMENTS SUPPORT EXTENSION OF TUBULIN-BASED MICROTENTACLES IN DETACHED BREAST TUMOR CELL LINES Rebecca A. Whipple, ¹ Eric M. Balzer, ² Edward H. Cho, ¹ and Stuart S. Martin ² ¹ <i>University of Maryland School of Medicine and ²University of Maryland, Baltimore</i>	P23-17	MCF-10A BENIGN MAMMARY EPITHELIAL CELLS ENHANCE THE MALIGNANT PHENOTYPE OF MDA-231 BREAST CANCER CELLS IN VITRO AND IN VIVO Joanna Poczobutt, ¹ John Tentler, ¹ Pepper Schedin, ¹ and Arthur Gutierrez-Hartmann ² ¹ <i>University of Colorado Denver, Health Sciences Center and ²University of Colorado School of Medicine</i>
P23-7	LOSS OF CYCLIN D1 IN CONCERT WITH DEREGLATED ESTROGEN RECEPTOR α EXPRESSION INDUCES DNA DAMAGE RESPONSE ACTIVATION AND INTERRUPTS MAMMARY GLAND MORPHOGENESIS Maria Silvina Frech, ¹ Kathleen Torre, ¹ Gertraud Robinson, ¹ and Priscilla Furth ² ¹ <i>National Cancer Institute and ²Georgetown University</i>	P23-13	THE EFFECTS OF LOCAL ANESTHETICS ON MICROTENTACLE PROTRUSIONS OF HUMAN EPITHELIAL AND BREAST TUMOR CELLS Jennifer R. Yoon, ¹ Rebecca A. Whipple, ² and Stuart S. Martin ¹ ¹ <i>University of Maryland, Baltimore and ²University of Maryland School of Medicine</i>	P23-18*	DEFECTIVE MAMMARY GLAND DEVELOPMENT BY NHERF1 GENE DELETION Jiale Dai, ¹ Yun Wu, ¹ Edward Weinman, ² and Yong Pan ¹ ¹ <i>M. D. Anderson Cancer Center, University of Texas and ²University of Maryland, Baltimore</i>
P23-8	FORMIN-CONTROLLED CORTICAL ACTIN DYNAMICS IN BREAST CANCER CELL MIGRATION THROUGH THREE-DIMENSIONAL MATRICES Kathryn Eisenmann and Arthur S. Alberts <i>Van Andel Research Institute</i>	P23-14	THE EXPRESSION OF THE MICROTUBULE-ASSOCIATED PROTEIN, Tau, IN DETACHED BREAST TUMOR CELL LINES ALTERS MICROTENTACLE FORMATION Michael A. Matrone, ¹ Rebecca A. Whipple, ² Edward H. Cho, ² and Stuart S. Martin ¹ ¹ <i>University of Maryland, Baltimore and ²University of Maryland School of Medicine</i>	P24-1*	EXPRESSION OF THE ERYTHROPOIETIN RECEPTOR (EPOR) BY MAMMARY EPITHELIAL CELLS RESULTS IN A PREMALIGNANT PHENOTYPE Laurie Feldman, Jee-Yeong Jeong, and Amanda L. Socha <i>Beth Israel Deaconess Medical Center</i>
P23-9	MITOTIC SPINDLE POSITIONING IN BREAST CANCER (CONCEPT STUDY) Jennifer Tirnauer, Carolina Bagnato, and Carolina Bagnato <i>University of Connecticut, Farmington</i>	P23-15	DECONSTRUCTING DIRECTIONAL CELL MOTILITY WITH SUBSTRATUM MICROPATTERNING Kristiana Kandere-Grzybowska, Christopher Campbell, Yulia Komarova, and Bartosz A. Grzybowski <i>Northwestern University Medical School</i>	P24-2*	Akt1, NOT Akt2 IS INVOLVED IN RHOC GTPASE-MEDIATED INVASION OF INFLAMMATORY BREAST CANCER CELLS Kenneth Louis Van Golen and Heather Unger <i>University of Delaware</i>
P23-10	ANTAGONISM OF TUBULIN AND ACTIN FILAMENT SYSTEMS REGULATES MICROTUBULE PROTRUSIONS IN HUMAN BREAST TUMOR CELLS Eric M. Balzer, ¹ Rebecca A. Whipple, ² Edward H. Cho, ² Michael A. Matrone, ¹ Jennifer R. Yoon, ¹ and Stuart S. Martin ¹ ¹ <i>University of Maryland, Baltimore and ²University of Maryland School of Medicine</i>	P23-16	ELUCIDATING THE ROLE OF Hec1 IN MAINTAINING THE INTEGRITY OF CENTROSOMES AND MITOTIC SPINDLE TO PREVENT GENETIC INSTABILITY Randy Li-Hung Wei Wei <i>University of California, Irvine</i>	P24-3	THE ROLE OF CHEMOKINES IN CANCER AND THE DEVELOPMENT OF RECEPTOR ANTAGONISTS Tracy Handel <i>University of California, San Diego</i>
P23-11	LOSS OF THE POLARITY GENE SCRIBBLE COOPERATES WITH MYC DURING MAMMARY TUMORIGENESIS BY BLOCKING MYC-INDUCED APOPTOSIS Senthil Muthuswamy, Lixing Zhan, and Avi Rosenberg <i>Cold Spring Harbor Laboratory</i>	P24-4	MECHANISM OF EGF NEUTRALIZATION BY ARGOS-LIKE MOLECULES Mark A. Lemmon <i>University of Pennsylvania School of Medicine</i>		

*Symposia Session

P24-5 **Hur BINDS TO A NOVEL 99 NT NON AU-RICH ELEMENT IN THE 3 PRIME UNTRANSLATED REGION OF c-fms RNA, REGULATES C-FMS PROTO-ONCOGENE EXPRESSION, AND IS AN INDEPENDENT POOR PROGNOSTIC FACTOR IN BREAST CANCER**

Setsuko K. Chambers,¹ Yi Zhou,¹ Cynthia L. David,¹ Wenxin Zheng,¹ Ho-Hyung Woo,¹ Xiaofang Yi,¹ Maureen Gilmore-Hebert,² E. Cagnur Ulukus,³ Harriet Kluger,² and Jhanae B. Stoffer¹
¹*University of Arizona, Tucson,*
²*Yale University School of Medicine, and ³Dokuz Eylül Üniverisitesi*

P25-6 **ABSTRACT WITHDRAWN**

P24-7 **THE ROLE OF AN ONCOGENIC PROTEIN PHOSPHATASE IN A VIRUS PROTEIN-MEDIATED CHEMOSENSITIZATION**

Yong Liao
M. D. Anderson Cancer Center, University of Texas

P24-8 **MODELING THE NUCLEOCYTOPLASMIC SHUTTLING OF THE ErbB-4 ICD**

Bryan Linggi, Minchul Kang, Graham Carpenter, and Anne Kenworthy
Vanderbilt University

P24-9 **ROLE OF THE DEUBIQUITINATING ENZYME UCH37 IN TUMORIGENESIS**

Renuka Sastry,¹ Sendurai Mani,² Robert Weinberg,² and Hidde Ploegh²
¹*Massachusetts Institute of Technology and ²Whitehead Institute for Biomedical Research*

P24-10 **A NOVEL NONCODING RNA REGULATES MAMMARY EPITHELIAL CELL PROLIFERATION AND SURVIVAL**

Amy Shore and Melanie Ginger
Baylor College of Medicine

P24-11 **THE ROLE OF LIMK1 SUBCELLULAR LOCALIZATION IN BREAST CANCER MIGRATION AND INVASION**

Brice McConnell
University of Colorado Denver, Health Sciences Center

P24-12 **EVALUATING THE ROLE FOR FoxA1 IN MAINTAINING THE LUMINAL PHENOTYPE OF THE NORMAL MAMMARY GLAND AND BREAST CANCER CELLS**

Gina Bernardo, Kristen Lozada, Jonathan Mosley, Fadi Abdul-Karim, and Ruth Keri
Case Western Reserve University

P24-13 **MULTIPLE MECHANISMS FOR THE REGULATION OF MYOSIN-IIA ASSEMBLY: S100A4 BINDING AND HEAVY CHAIN PHOSPHORYLATION**

Reniqua Pamela House, Natalya Dulyaninova, Erik L. Snapp, and Anne R. Bresnick
Albert Einstein College of Medicine of Yeshiva University

P24-14 **FUNCTION AND REGULATION OF Fit-1 IN HUMAN BREAST CANCER**

Charlotte May Harwood Moriarty and Arthur M. Mercurio
University of Massachusetts Medical School

P24-15 **ABL TYROSINE KINASES REGULATE CELL-CELL ADHESION VIA RHO GTPASES**

Ran Li,¹ Gouri Yogalingam,² Ann Marie Pendergast,¹ and Nicole Zandy¹
¹*Duke University and ²Duke University Medical Center*

P24-16 **FUNCTION OF Smad1 AND Smad5 IN TGF-β STIMULATED MIGRATION**

Irwin Liu, Stephen Schilling, and Xiao-Fan Wang
Duke University Medical Center

P24-17 **PIASy MEDIATES NEMO SUMOYLATION AND NF-κB ACTIVATION IN RESPONSE TO GENOTOXIC STRESS**

Angela Mabb,¹ Shelly Wuerzeberger-Davis,² and Shigeki Miyamoto²
¹*Duke University Medical Center and ²University of Wisconsin, Madison*

P24-18 **ROLE OF STAT5A LOSS IN PROGRESSION OF ERα-INITIATED MAMMARY DUCTAL HYPERPLASIA AND DUCTAL CARCINOMA IN SITU**

Anne Miermont
Georgetown University

P25 Genomic Instability

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P25-1 **IS NUCLEAR STRUCTURE ALTERED IN BREAST CANCER CELLS?**

Han Htun,¹ Rajkumar Sunil Singh,¹ and Wendy J. Dixon²
¹*University of California, Los Angeles, David Geffen School of Medicine and ²California State Polytechnic University, Pomona*

P25-2 **SIMULTANEOUS DETERMINATION OF EPIGENETIC DNA METHYLATION AND CHROMATIN STRUCTURE IN BREAST CANCER CELLS AT SINGLE-MOLECULE RESOLUTION**

Michael Paul Kladde, Carolina Eugenia Pardo, and Victor Prima
University of Florida

P25-3 **MAMMALIAN ORTHOLOG OF DROSOPHILA MOF THAT ACETYLATES HISTONE H4 LYSINE16 IS ESSENTIAL FOR EMBRYOGENESIS AND ONCOGENESIS**

Tej K. Pandita
Washington University

*Symposia Session

P25-4	A MOLECULAR DISSECTION OF TELOMERE STRUCTURE SHOULD LEAD TO IMPROVED BREAST CANCER THERAPEUTICS Christen M. Buseman, Jerry W. Shay, and Woodring E. Wright <i>University of Texas Southwestern Medical Center at Dallas</i>	P25-10	DNA COPY NUMBER CHANGES IN SENTINEL LYMPH NODES BREAST METASTASIS Luciane Regina Cavalli, Savana L. Santos, Enilze Emf Ribeiro, Rubens S. Lima, Cicero A. Urban, Iglenir J. Cavalli, and Bassem R. Haddad <i>Georgetown University Medical Center</i>	P25-15	LOSS OF PIN1 ACCELERATES GENOMIC INSTABILITY IN MOUSE EMBRYONIC FIBROBLASTS Brian O. Lew and Anthony R. Means <i>Duke University</i>
P25-5	PIASγ REGULATES COHESIN-INDEPENDENT CHROMOSOME COHESION DURING MITOSIS Laura A. Diaz-Martinez, ¹ Juan F. Gimenez-Abian, ² and Duncan J. Clarke ³ ¹ <i>UT Southwestern Medical Center at Dallas</i> , ² <i>Centro de Investigaciones Biológicas (CIB)</i> , and ³ <i>University of Minnesota, Twin Cities</i>	P25-11	ENFORCED OVEREXPRESSION OF SP17 PROMOTES ANEUPLOIDY AND CENTROSOME AMPLIFICATION Theresa V. Strong, ¹ Zhanat E. Muminova, ² Jasmine P. Gaines, ² Andrew J. Carroll, ¹ and J. Michael Ruppert ² ¹ <i>University of Alabama at Birmingham</i> and ² <i>University of Alabama at Birmingham Comprehensive Cancer Center</i>	P25-16	ASSESSING THE EXTENT OF ALLELIC IMBALANCE IN HUMAN BREAST TISSUE USING A MULTIPLEX PCR SYSTEM Christopher M. Heaphy, Marco Bisoffi, Nancy E. Joste, Kathy B. Baumgartner, Richard N. Baumgartner, and Jeffrey K. Griffith <i>University of New Mexico Health Sciences Center</i>
P25-6	A FUNCTIONAL GENOMIC SCREEN IDENTIFIES NOVEL GENES WITH ROLES IN THE MAINTENANCE OF GENOME INTEGRITY Courtney Lovejoy, Carol Bansbach, Xin Xu, Laura Titus, and David Cortez <i>Vanderbilt University Medical Center</i>	P25-12	ALLEL E IMBALANCE (AI) OR LOSS OF HETEROZYGOSITY (LOH) IN NORMAL-APPEARING BREAST EPITHELIUM AS A NOVEL MARKER TO PREDICT FUTURE BREAST CANCER Carol Rosenberg, ¹ Pamela Larson, ¹ Stuart Schnitt, ² and Rulla Tamimi ³ ¹ <i>Boston Medical Center</i> , ² <i>Beth Israel Deaconess Medical Center</i> , and ³ <i>Brigham and Women's Hospital</i>	P25-17	TREATMENT WITH A TELOMERASE INHIBITOR IN BREAST CANCER CELL LINES CAUSES A TIME DEPENDENT DECREASE IN TELOMERE DNA CONTENT Kimberly Butler, Christopher M. Heaphy, and Jeffrey K. Griffith <i>University of New Mexico Health Sciences Center</i>
P25-7	EVIDENCE FOR INTRINSICALLY ELEVATED SOMATIC MUTATION IN HETEROZYGOUS BRCA AND FA MUTATION CARRIERS IN VIVO AND IN VITRO Stephen G. Grant, ¹ Rubina Mondal, ² Wendy S. Rubinstein, ³ and Jean J. Latimer ⁴ ¹ <i>University of Pittsburgh Hillman Cancer Center</i> , ² <i>University of Pittsburgh</i> , ³ <i>Evanston Northwestern Healthcare Research Institute</i> , and ⁴ <i>University of Pittsburgh Cancer Institute</i>	P25-13	MUTATIONS IN THE CENTROSOMAL COMPONENT PERICENTRIN-370 IN BREAST TUMOR SAMPLES Richard Ramsden and Trisha N. Davis <i>University of Washington</i>	P25-18	CHECKPOINT1 KINASE (CHK1) IS A CRITICAL GATEKEEPER PREVENTING GENOMIC INSTABILITY AND BREAST CANCER Sirisha Peddibhotla <i>Baylor College of Medicine</i>
P25-8	DYSREGULATION OF THE UBIQUITIN SYSTEM IN BREAST CANCER Scott Plafker <i>University of Oklahoma Health Sciences Center</i>	P25-14	TRANSFORMING GROWTH FACTOR-β INDUCES APOPTOSIS IN GENOMICALLY UNSTABLE CELLS Mary Helen Barcellos-Hoff, Christopher A. Maxwell, Markus C. Fleisch, and Anna C. Erickson <i>Lawrence Berkeley National Laboratory</i>	P26-1	SERUM PROTEOMIC BIOMARKERS FOR BREAST CANCER IN AFRICAN AMERICAN WOMEN Padma P. Tadi-Uppala, ¹ Sharon Lum, ¹ Carlos Garberooglio, ² Larry Beeson, ¹ Guru R. Uppala, ³ Kumar Kolli, ⁴ David Kirchner, ⁴ Richard Katenheusen, ⁴ Richard Mural, ⁴ and Michael Liebman ⁴ ¹ <i>Loma Linda University</i> , ² <i>City of Hope Medical Center</i> , ³ <i>La Sierra University</i> , and ⁴ <i>Windber Research Institute</i>
P25-9	DNA DIFFERENTIATION IN BREAST CANCER BY METNASE Robert Hromas <i>University of New Mexico, Albuquerque</i>				

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- P26-2 QUANTITATIVE FUNCTIONAL PROTEOMIC ANALYSIS OF THE CELLULAR SIGNALING NETWORK**
Chin-Rang Yang and Ying Dong
University of Texas Southwestern Medical Center at Dallas
- P26-3 IDENTIFICATION OF SUBSTRATES FOR UBIQUITIN-DEPENDENT PROTEOLYSIS DURING BREAST TUMOR PROGRESSION**
Charles Spruck, Jeff Rogers, and Sonia del Rincon
Sidney Kimmel Cancer Center
- P26-4 A PROTEOMIC APPROACH TO IDENTIFY PHOSPHORYLATION-DEPENDENT TARGETS OF BRCT DOMAINS**
Zhou Songyang and Maria C. Rodriguez
Baylor College of Medicine
- P26-5 FATTY ACID SYNTHESIS IN BREAST CANCER CELLS IS MEDIATED BY A UPREGULATED ALDO-KETO REDUCTASE FAMILY 1 B10 PROTEIN**
Linlin Zhong, Chun Wang, Jun Ma, Ruilan Yan, Ji-Ming Cheng, Krishna Rao, and Deliang Cao
Southern Illinois University School of Medicine
- P26-6 DIFFERENTIAL PHOSPHOPROTEIN PROTEOME PROFILING OF TAMOXIFEN RESPONSE**
Kolbrun Kristjansdottir, Don Wolfgeher, Geoffrey L. Greene, and Stephen J. Kron
University of Chicago
- P26-7 IDENTIFICATION OF DNA-BOUND ESTROGEN RECEPTOR COMPLEXES USING A QUANTITATIVE PROTEOMIC APPROACH**
Gary Isaacs,¹ Nina Heldring,¹ Jeffrey A. Ranish,² and W. Lee Kraus¹
¹*Cornell University, Ithaca* and ²*Institute for Systems Biology*
- P26-8 QUANTITATIVE PROTEOMICS OF NUCLEAR MATRIX PROTEINS IN NOVEL HUMAN DUCTAL CARCINOMA IN SITU MODEL SYSTEMS**
Miranda J. Sarachine,¹ Jean J. Latimer,² and Billy W. Day¹
¹*University of Pittsburgh* and ²*University of Pittsburgh Cancer Institute*
- P26-9* CROSS-SPECIES ANALYSES OF GENOMIC CHANGES IN MAMMARY CANCER**
Jeffrey Green,¹ Min Zhu,¹ Aleksandra Michalowska,¹ Hang Hee Kim,² Ming Yi,¹ Robert Stephens,³ Daniel Medina,⁴ Chuxia Deng,³ and Kristin Deeb⁵
¹*National Cancer Institute*, ²*Science Applications International Corporation*, ³*National Institutes of Health*, ⁴*Baylor College of Medicine*, and ⁵*Roswell Park Cancer Institute, Buffalo*
- P26-10 PREDICTION OF RESPONSE TO CHEMOTHERAPY FOR BREAST CANCER**
Juan Climent,¹ Jin-Hua Mao,² Ana Lluch,³ and Allan Balmain²
¹*University of California, San Francisco*, ²*University of California, San Francisco Comprehensive Cancer Center*, and ³*University of Valencia, Valencia, Spain*
- P26-11 DNA METHYLATION AND BREAST CANCER**
Anne H. O'Donnell,¹ John R. Edwards,² Robert A. Rollins,³ Clarence Lee,⁴ Heather Peckham,⁴ Fatemeh Haghghi,³ and Timothy H. Bestor³
¹*Columbia University College of Physicians and Surgeons*, ²*Columbia University Genome Center*, ³*Fletcher Allen Health Care*, ⁴*Applied Biophysics, Inc.*, and ⁵*Columbia University Medical Center*
- P26-12 GENOME-WIDE ANALYSIS OF FACTOR RECRUITMENT TO ESTROGEN-REGULATED PROMOTERS IN BREAST CANCER CELLS**
Miltiadis Kininis
Cornell University, Ithaca
- P26-13 FINE-MAPPING AND CHARACTERIZATION OF THE MAMMARY CARCINOGENESIS SUSCEPTIBILITY LOCUS, Mcs5c**
Adeline Veillet,¹ David J. Samuelson,² Jill D. Haag,¹ and Michael N. Gould¹
¹*University of Wisconsin, Madison* and ²*University of Louisville*
- P26-14 HORMONAL INVOLVEMENT IN BREAST CANCER GENE AMPLIFICATION**
Susan A. Gerbi,¹ Michael S. Foulk,¹ Sara Hillenmeyer,¹ Alexander S. Brodsky,¹ Benjamin J. Raphael,¹ Shamlal Mangray,² and Theresa Graves²
¹*Brown University* and ²*Rhode Island Hospital*
- P26-15 PRIMEGENS-V2: GENOME-WIDE PRIMER DESIGN FOR ANALYZING DNA METHYLATION PATTERNS OF CpG ISLAND**
Huidong Shi, Gyan P. Srivastava, Juyuan Guo, and Dong Xu
University of Missouri, Columbia

P27 Hormone Receptors I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

- P27-1 CHARACTERIZING THE TRANSMEMBRANE SEGMENT OF ErbB2 USING SOLID-STATE NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AND MOLECULAR DYNAMICS SIMULATIONS**
Elvis Tiburu
Beth Israel Deaconess Medical Center

- P27-2 STRUCTURAL BIOLOGY OF INTER-DOMAIN FEATURES OF THE NUCLEAR HORMONE RECEPTORS**
Fraydoon Rastinejad, Vikas Chandra, and Pengxiang Huang
University of Virginia

*Symposia Session

- P27-3 NEW SITE-DIRECTED SPIN LABELING TOOLS FOR CHARACTERIZING THE DYNAMIC RESPONSE OF THE ESTROGEN RECEPTOR TO THERAPEUTIC AGENTS**
 David Edward Budil,¹ Stefano V. Gulla,¹ James Adam Hendricks,¹ Kalman Hideg,² and Robert N. Hanson¹
¹Northeastern University and ²University of Pecs, Hungary
- P27-4 IDENTIFICATION OF FOUR NOVEL PHOSPHORYLATION SITES IN ESTROGEN RECEPTOR α : IMPACT ON RECEPTOR-DEPENDENT GENE EXPRESSION AND PHOSPHORYLATION BY PROTEIN KINASE CK2**
 Christopher Williams,¹ Aninda Basu,² Abeer El-Gharbawy,² Carolyn Smith,³ and Brian Rowan⁴
¹Tulane University Health Sciences Center, ²University of Toledo, Health Science Campus, ³Baylor College of Medicine, and ⁴Tulane University
- P27-5 GANGLIOSIDE-MODULATED CO-LOCALIZATION OF ERBB2, ERBB3, AND PHOSPHATASES IN ERBB3-MEDIATED EVASION FROM KINASE INHIBITOR THERAPY**
 Ralf Landgraf
 University of California, Los Angeles
- P27-6* ROLE OF THE ERYTHROPOIETIN RECEPTOR IN BREAST CANCER PATHOBIOLOGY**
 Arthur Sytkowski, Jee-Yeong Jeong, Kerry L. Davis, and Amanda Socha
 Beth Israel Deaconess Medical Center
- P27-7* A NOVEL UNIDIRECTIONAL CROSS TALK FROM THE INSULIN-LIKE GROWTH FACTOR-I RECEPTOR TO LEPTIN RECEPTOR IN HUMAN BREAST CANCER CELLS**
 Rita Nahta and Tuba Ozbay
 Emory University
- P27-8* MODULATION OF α CALCIUM AND CALMODULIN DEPENDENT KINASE II SIGNALING BY ESTROGEN RECEPTOR α**
 Erin E. O'Neill,¹ Alexis R. Blewett,¹ Paula M. Loria,² and Geoffrey L. Greene¹
¹University of Chicago and ²Pfizer
- P27-9* IDENTIFICATION OF BIOMARKER FOR ACTIVATOR FORM OF ESTROGEN-RELATED RECEPTOR α IN BREAST CANCER**
 Janet E. Mertz, Amanda Esch, and Richard R. Burgess
 University of Wisconsin, Madison
- P27-10 DEVELOPMENT OF A BIOSENSOR FOR IDENTIFYING NOVEL ENDOCRINE DISRUPTING CHEMICALS**
 Linda A. Luck,¹ Ruthann A. Rudel,² and Laurel Standley²
¹State University of New York, Plattsburgh and ²Silent Spring Institute, Inc.
- P27-11 A NON-NUCLEAR ROLE OF THE ESTROGEN RECEPTOR α IN THE REGULATION OF CELL-CELL INTERACTIONS**
 Beatrice D. Darimont,¹ Jana Jacobson,² Leslie Schwarcz,² and Margarita Lib-Myagkov²
¹Merck Research Laboratories and ²University of Oregon
- P27-12 A ROLE FOR MEK-INTERACTING PROTEIN 1 IN ESTROGEN RECEPTOR POSITIVE BREAST CANCER CELLS**
 Susan E. Conrad, Mihaela Marina, and Jung-Eun Lee
 Michigan State University
- P27-13 THE ER & PR STATUS OF THE ORIGINATING CELL OF ER-NEGATIVE BREAST CANCER**
 Yi Li
 Baylor College of Medicine
- P27-14 NONSTEROIDAL ANTI-INFLAMMATORY DRUG SULINDAC INDUCES APOPTOSIS BY MODULATING THE SUBCELLULAR LOCALIZATION OF RETINOID X RECEPTOR**
 Xiao-Kun Zhang, Wen Liu, Young-Hoon Han, Xihua Cao, Bingzhen Lin, Hu Zhou, Yin Wu, and Xiaoqing You
 Burnham Institute
- P27-15 ABNORMAL MAMMARY GLAND DEVELOPMENT AND GROWTH RETARDATION IN FEMALE MICE AND MCF7 BREAST CANCER CELLS LACKING ANDROGEN RECEPTOR**
 Shuyuan Yeh, Yueh-Chiang Hu, and Chawnshang Chang
 University of Rochester
- P27-16 ALTERNATE PROMOTER USE AFFECTS ESTROGEN RECEPTOR PROTEIN EXPRESSION: TRANSLATIONAL CONTROL BY AN UPSTREAM OPEN READING FRAME IN THE ER PROXIMAL-PROMOTER TRANSCRIPT**
 Brian T. Pentecost, Mingfei Luo, and Michael J. Fasco
 New York State Department of Health Wadsworth Center
- P27-17 SUMOYLATION OF COREPRESSOR SAFB1: MECHANISM OF ACTION AND BIOLOGICAL RELEVANCE IN BREAST CANCER**
 Jason Paul Garee
 Baylor College of Medicine
- P27-18 EVIDENCE FOR UNIQUE MECHANISMS OF ESTROGEN RECEPTOR DEGRADATION ELICITED BY ESTRADIOL AND ICI 182,780 (FULVESTRANT)**
 Angelo J. Casa, Zawaunyka Lazard, Ping Zhang, and Adrian V. Lee
 Baylor College of Medicine
-
- P28 Endocrine Pathogenesis I**
6:30–9:30 PM
 Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM
- P28-1 CONTROL OF LUMINAL TYPE A INTRINSIC SUBTYPE ENRICHED TRANSCRIPTION FACTOR NETWORK BY INSULIN: IMPLICATIONS OF DIABETES ON BREAST CANCER SUBTYPES**
 Harikrishna Nakshatri,¹ Kasi R. McCune,¹ Poornima Bhat-

Nakshatri, ¹ Mangesh Thorat, ¹ and Sunil Badve ² ¹ <i>Indiana University-Purdue University, Indianapolis and</i> ² <i>Indiana University, Indianapolis</i>	Michael J. Garabedian, ¹ and Robert Schneider ¹ ¹ <i>New York University School of Medicine and</i> ² <i>Memorial Sloan-Kettering Cancer Center</i>	P28-14 DYSREGULATION OF Zip6 (LIV1) IS POTENTIATED BY PROLACTIN IN TUMORIGENIC BREAST CELLS Shannon Kelleher and Veronica Lopez <i>Pennsylvania State University</i>
P28-2 FUNCTIONAL RELATIONSHIPS BETWEEN HER2 AND THE LEPTIN SYSTEM IN BREAST CANCER Eva Surmacz <i>Temple University</i>	P28-9 PREGNANCY-MEDIATED BREAST CANCER PROTECTION: DOES EPIGENETIC REGULATION OF GROWTH HORMONE (GH) AXIS AND GENE EXPRESSION IN MAMMARY CELLS PLAY A ROLE? Thushangi Pathiraja, Robert Dearth, Adrian Lee, and Steffi Oesterreich <i>Baylor College of Medicine</i>	P28-15 THE INDUCIBLE 6-PHOSPHOFRUCTO-2-KINASE (PFKFB3) TRAFFICS TO THE NUCLEUS AND STIMULATES CELL PROLIFERATION Abdullah Yalcin, Alan Simmons, Sucheta Telang, and Brian Clem <i>University of Louisville Research Foundation, Inc.</i>
P28-3 PROLACTIN PROMOTES MAMMARY TUMORIGENESIS SECONDARY TO LOSS OF p53 Kathleen O'Leary and Linda Schuler <i>University of Wisconsin, Madison</i>	P28-10 EVIDENCE THAT FETAL ADRENAL AND PLACENTAL FUNCTION MAY INFLUENCE LIFETIME RISK FOR BREAST CANCER Barbara Cohn, ¹ Pentti K. Siiteri, ² Bill L. Lasley, ³ Frank Z. Stanczyk, ⁴ and J. Richard Udry ⁵ ¹ <i>Public Health Institute, Oakland, CA</i> , ² <i>University of California, San Francisco School of Medicine</i> , ³ <i>University of California, Davis</i> , ⁴ <i>University of Southern California</i> , and ⁵ <i>University of North Carolina at Chapel Hill</i>	P28-16 DEFECTIVE ENERGY METABOLISM AND REGULATION OF NUCLEAR GENE EXPRESSION BY CANCEROUS MITOCHONDRIA IN BREAST CANCER TRANSMITOCHONDRIAL CYBRIDS: A NOVEL APPROACH Lee-Jun C. Wong, ¹ Ye-Wei Ma, ¹ Tin Lap Lee, ² and Wai-Yee Chan ² ¹ <i>Baylor College of Medicine and</i> ² <i>National Institutes of Health</i>
P28-4 INHIBITION OF ESTROGEN-INDUCED GROWTH OF BREAST CANCER CELLS BY MODULATING IN SITU OXIDANT LEVELS Deodutta Roy, Quentin Felty, Victor Okoh, and Nana-Aisha Garba <i>Florida International University</i>	P28-11 ADIPOSE ESTROGEN AND INCREASED BREAST CANCER RISK IN OBESITY: REGULATION BY LEPTIN AND INSULIN Fahumiya Samad, Guang Yang, Kelly D. Hester, and Leylla Badeanlou <i>Torrey-Pines Institute for Molecular Studies</i>	P28-17 PROLACTIN ACTIVATION OF Jak1 POSITIVELY MODULATES PROLACTIN-Jak2 SIGNALING IN BREAST CANCER CELLS Hallgeir Rui, ¹ Jianqong Zhu, ² Jianwu Xie, ² M. Grazia Malabarba, ² Kazuhito Sakamoto, ² Kay-Uwe Wagner, ³ Robert Kirken, ² Hallgeir Rui, ¹ and Lynn Moretti Neilson ² ¹ <i>Lombardi Comprehensive Cancer Center</i> , ² <i>Thomas Jefferson University</i> , and ³ <i>University of Nebraska</i>
P28-5 PROGESTERONE RECEPTORS (PR) PROTECT BREAST CANCERS FROM KILLING BY TAXANES Britta Jacobsen, Melanie M. Badtke, Purevsuren Jambal, and Kathryn B. Horwitz <i>University of Colorado Denver, Health Sciences Center</i>	P28-12 ESTROGEN DEPRIVATION AND INHIBITION OF BREAST CANCER GROWTH BY ACTIVATING THE NUCLEAR RECEPTOR LXR Wen Xie and Haibiao Gong <i>University of Pittsburgh</i>	P28-18 TRANSCRIPTIONAL REPRESSION OF ERα BY HEXIM1 AND ITS ROLE IN MAMMARY GLAND DEVELOPMENT AND TUMORIGENESIS Ndiya Ogba, Laura Chaplin, Koh Fujinaga, and Monica Montano <i>Case Western Reserve University</i>
P28-6 IN UTERO EXPOSURE TO CADMIUM AND MAMMARY CANCER RISK IN RATS Jennifer Dawn Davis, ¹ Galam Khan, ¹ Mary Beth Martin, ² and Leena Hilakivi-Clarke ¹ ¹ <i>Georgetown University Medical Center and</i> ² <i>Georgetown University</i>	P28-13* MAMMARY TUMOR PROGRESSION IN A NOVEL RAT MODEL OF CHILDHOOD ONSET OBESITY Ignacio G. Camarillo, Charles Rehrer, Chris Gottfried, Julie Wilmowski, Thuc Le, Ji Xin Cheng, Jeff Lucas, and Maxine Nichols <i>Purdue University</i>	P28-19 THE ROLE OF Sp1 AND Sp3 IN THE REGULATION OF TFF1 GENE IN MCF-7 CELLS Lin Li <i>Manitoba Institute of Cell Biology</i>
P28-7 EFFECTS OF ESTROGEN ON INTERCELLULAR COHESION Clark D. Wells <i>Indiana University, Indianapolis</i>		
P28-8 EXPRESSION AND FUNCTION OF ANDROGEN RECEPTOR COACTIVATOR p44 IN BREAST CANCER Peng Lee, ¹ Yi Peng, ¹ Xuanyi Zou, ¹ Baljit Singh, ¹ Lin Lan, ¹ Jun Wang, ¹ Luis Chiriboga, ¹ Xinmin Zhang, ¹ Zhengxin Wang, ¹ William Gerald, ²		

*Symposia Session

- P28-20 MECHANISMS OF GENE ACTIVATION AND GENE REPRESSION DETERMINE BREAST CANCER PROGNOSIS**
 Christine S. Cheng
University of California, San Diego
- P28-21 AUTOREGULATION OF ESTROGEN RECEPTOR-ALPHA EXPRESSION IN BREAST CANCER CELLS**
 Stephanie Jo Ellison and Elaine T. Alarid
University of Wisconsin, Madison

P29 Apoptosis

6:30–9:30 PM

*Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM*

- P29-1 ERBB4 INTRACELLULAR DOMAIN (4ICD), A NOVEL BH3-ONLY PROTEIN AND ESTROGEN RECEPTOR COACTIVATOR REGULATES TAMOXIFEN-INDUCED APOPTOSIS OF BREAST TUMOR CELLS**
 Anjali Naresh¹ and Frank Jones²
¹Tulane University and ²University of Colorado Denver, Health Sciences Center
- P29-2 A NOVEL APPROACH TO REVERSE RESISTANCE TO THERAPY OF APOPTOSIS-DEFECTIVE BREAST CANCER CELLS**
 Hannah Rabinowich,¹ Jie Han,² Wen Hou,² and Leslie A. Goldstein²
¹University of Pittsburgh Hillman Cancer Center and ²University of Pittsburgh Cancer Institute

- P29-3 DOES PLASMA MEMBRANE CALCIUM-ATPASE 2 OVEREXPRESSION PROTECT BREAST CANCER CELLS FROM APOPTOSIS?**
 Joshua VanHouten
Yale University

- P29-4 SUPPRESSION OF APOPTOSIS TO IMPROVE BREAST CANCER THERAPY**
 Eugenia Broude,¹ Michael Shtutman,¹ Badar Mian,² and Igor B. Roninson¹
¹Ordway Research Institute, Inc. and ²Albany Medical College

- P29-5 INDUCTION OF LOW MW PRO-APOPTOTIC FORMS OF THE BCL2 FAMILY MEMBER MCL1 IN BREAST CANCER**
 Ruth W. Craig,¹ Karen E. Braley,² Samuel L. Casella,² Benoit Chabot,³ Helen M. Marriott,⁴ David H. Dockrell,⁴ Colin D. Bingle,⁴ and Khandan Keyomarsi⁵
¹Dartmouth College, ²Dartmouth Medical School, ³University of Sherbrooke, ⁴University of Sheffield, and ⁵M. D. Anderson Cancer Center, University of Texas
- P29-6 THE APOPTOSOME AS A THERAPEUTIC TARGET IN BREAST AND BRAIN TUMORS**
 Marisa Buchakjian and Sally Kornbluth
Duke University Medical Center
- P29-7 TREATMENT WITH A BI-SPECIFIC ANTISENSE BCL-2 AND BCL-XL OLIGONUCLEOTIDE, BUT NOT TAMOXIFEN, INDUCES PROGRAMMED CELL DEATH IN A DUCTAL CARCINOMA IN SITU PRIMARY TISSUE EXPLANT**
 Patrick Koty,¹ Charlotte Hollingsworth,¹ Amie Benson,² and Jean Latimer²
¹Wake Forest University School of Medicine and ²University of Pittsburgh Cancer Institute
- P29-8 ANTI-TUMOR ACTION OF THE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-3 (IGFBP-3) AND IGFBP-3 RECEPTOR AXIS IN HUMAN BREAST CANCER**
 Youngman Oh
Virginia Commonwealth University Medical Center
- P29-9 TARGETING RASMAPK HUMAN CANCER CELLS BY LEUCINE DEPRIVATION AS A NOVEL THERAPEUTIC STRATEGY**
 Joon-Ho Sheen and David Sabatini
Whitehead Institute for Biomedical Research
- P29-10 MECHANISMS OF TMS (2,4,3',5'-TETRAMETHOXYSTILBENE) INDUCED APOPTOSIS IN BREAST CANCER CELLS**
 Sarah Aiyar,¹ Hoyong Park,² Paulomi Aldo,³ Gil Mor,³ John Gildea,² J. David Castle,² and Richard J. Santen²
¹University of Virginia School of Medicine, ²University of Virginia, and ³Yale University School of Medicine
- P29-11 FIBROBLAST GROWTH FACTOR BINDING PROTEIN EXPRESSION RESULTS IN INCREASED APOPTOSIS IN MOUSE MAMMARY GLANDS**
 Krissa Gibby
Georgetown University Medical Center
- P29-12 APOPTOTIC MECHANISMS AND PATHWAYS ALTERED BY Myc IN MAMMARY EPITHELIAL MORPHOGENESIS**
 David Simpson, Senthil K. Muthuswamy, and William P. Tansey
Cold Spring Harbor Laboratory
- P29-13 THE ROLE OF X-LINKED INHIBITOR OF APOPTOSIS IN BREAST CANCER DEVELOPMENT AND PROGRESSION**
 Karolyn Oetjen and Colin Duckett
University of Michigan Medical School
- P29-14 REGULATION OF PHOSPHATIDYLSERINE ASYMMETRY BY CA2+-DEPENDENT MEMBRANE FUSION DURING APOPTOSIS OF BREAST CANCER CELLS**
 S. Banafsheh Mirnikjoo, Krishnakumar Balasubramanian, and Alan J. Schroit
M. D. Anderson Cancer Center, University of Texas
- P29-15 BCL2 FAMILY FUNCTION IN ANTIESTROGEN-RESISTANT BREAST CANCER CELLS**
 Natasha Carissa Crawford,¹ Rebecca Riggins,² and Robert Clarke¹
¹Georgetown University Medical Center and ²Georgetown University

*Symposia Session

P29-16 THE UNFOLDED PROTEIN RESPONSE PATHWAY: A POTENTIAL TARGET FOR DRUG DEVELOPMENT IN BREAST CANCER

Peter Walter
University of California, San Francisco

P29-17 TOLL-LIKE RECEPTOR 9 AGONISTS STIMULATE BREAST CANCER INVASION

Katri Selander,¹ Joanna Ilvesaro,¹ Arja Jukkola-Vuorinen,² Eeva Rahko,² Katri S. Vuopala,³ Kevin Harris,¹ and David Graves¹
¹*University of Alabama at Birmingham*, ²*University Hospital of Oulu, Finland*, and ³*Central Hospital of Lapland, Rovaniemi*

P29-18 NQO1-DEPENDENT REACTIVE OXYGEN SPECIES ARE NECESSARY, NOT SUFFICIENT, FOR B-LAPACHONE-MEDIATED CELL DEATH

Amy Rommel,¹ Melissa Bentle,¹ Erik Bey,¹ Douglas Spitz,² and David A. Boothman¹
¹*University of Texas Southwestern Medical Center at Dallas* and ²*University of Iowa*

P29-19 MODULATING COMPLEMENT TO ENHANCE APOPTOSIS-BASED THERAPY OF BREAST CANCER

Jennifer Schepp and Stephen Tomlinson
Medical University of South Carolina

P29-20 THE ROLE OF THE Rad9-Rad1-Hus1 COMPLEX IN DNA DAMAGE-INDUCED APOPTOSIS

Cheryl Lynne Meyerkord and Hong-Gang Wang
H. Lee Moffitt Cancer Center & Research Institute at University of South Florida

P29-21 ANALYZING GENE EXPRESSION DATA FOR p53 PATHWAY FUNCTION IDENTIFIES Bik AS AN INDICATOR OF POOR PROGNOSIS IN BREAST CANCER

Stuart S. Martin,¹ Agnes M. Cheung,¹ and Rebecca A. Whipple²
¹*University of Maryland, Baltimore* and ²*University of Maryland School of Medicine*

P30 Signal Transduction I

6:30–9:30 PM

*Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM*

P30-1* ERYTHROPOIETIN RECEPTOR EXPRESSION IN BREAST CANCER CELLS: ROLE IN EPO-MEDIATED ACTIVATION OF SIGNAL TRANSDUCTION AND CELLULAR PROLIFERATION AND MIGRATION

Murat O. Arcasoy, Ping Fu, and Xiaohong Jiang
Duke University Medical Center

P30-2* PHOSPHORYLATION SITES THAT REGULATE c-Myc PROTEIN STABILITY AND ONCOGENIC POTENTIAL

Rosalie C. Sears, Xiaoli Zhang, and Xiaoyan Wang
Oregon Health & Science University

P30-3 INTER-CELLULAR COMMUNICATION MODELS FOR EFFECTIVE AND REALISTIC BIOLOGICAL SIMULATIONS

Eunice E. Santos,¹ Ankit Singhal,² Donghang Guo,² Qunhua Zhao,³ and Eugene Santos, Jr.³
¹*University of Vermont*, ²*Virginia Polytechnic Institute and State University*, and ³*Dartmouth College*

P30-4 BREAST CANCER CELLS RESPOND TO SEROTONIN SIGNALS

Bradford A. Jameson and Diane Hansali-Delpy
Drexel University College of Medicine

P30-5 ROLE OF THE TYROSINE PHOSPHATASE SHP-1 AND REGULATORY T CELLS IN BREAST CANCER

Ulrike Lorenz, Tessy Iype, Mohan Sankarshan, Illeana Soto, and Gina Calabrese
University of Virginia

P30-6 SIGNALING AND GROWTH INHIBITORY EFFECTS OF DOPAMINE AGONISTS IN BREAST CANCER CELLS

Sandra Panchalingam and Ashiwei Undie
University of Maryland School of Medicine

P30-7 BLOCKADE OF THE ANGIOTENSIN II SIGNALING PATHWAY DELAYS GROWTH OF BREAST CANCER CELL LINES

Thomas Deuel
Scripps Research Institute

P30-8 A NEW MECHANISM FOR MODULATING THE ACTIVITY OF THE CANCER INVASION PROMOTER CYCLOOXYGENASE-2

Parkson Chong
Temple University

P30-9 BREAST TUMOR KINASE ENHANCES EPIDERMAL GROWTH FACTOR RECEPTOR (EGFR) SIGNALING THROUGH INHIBITION OF CBL-MEDIATED EGFR UBIQUITINATION AND DEGRADATION

Xinqun Li and Zhen Fan
M. D. Anderson Cancer Center, University of Texas

P30-10 TARGETING PROTEIN O-GlcNAc MODIFICATIONS INHIBITS BREAST CANCER PHENOTYPES IN VITRO

Mauricio J. Reginato, Sarah Caldwell, Neal Varghis, and Keith Vosseller
Drexel University College of Medicine

P30-11 INHIBITION OF STAT3 ACTIVATION BY RKIP IN BREAST CANCER

Meili Duan, Y. Eugene Chin, and Devasis Chatterjee
Rhode Island Hospital

P30-12 THERAPEUTIC IMPLICATIONS OF OXYGEN-SENSITIVE NOTCH SIGNALING IN BREAST CARCINOMA

Mohammed Momin Shareef, Wendy Griggs, and Mansoor M. Ahmed
Geisinger Clinic

P30-13 A NOVEL MECHANISM FOR ANTI-BREAST CANCER EFFECT OF TUMOR-ASSOCIATED MACROPHAGE MANNOSE RECEPTOR ON ANTI-INFLAMMATORY JAK1, STAT3, SOCS PATHWAYS

Shalom Avraham
Beth Israel Deaconess Medical Center

*Symposia Session

P30-14 REGULATION OF LETHAL GIANT LARVAE IN EPITHELIAL CELLS

Sergei Sokol, Olga Ossipova, and Sun-Cheol Choi
Mount Sinai School of Medicine, New York

P30-15 DELPHINIDIN: A NOVEL AGENT FOR INHIBITION OF BREAST TUMOR KINASE SIGNALING BY TARGETING EGFR

Farrukh Afaq and Hasan Mukhtar
University of Wisconsin, Madison

P30-16 ROLE OF BREAST TUMOR KINASE IN BREAST CANCER

Anjaruwee Nimnuan
State University of New York, Stony Brook

P30-17 ROLE OF THE Sec61 TRANSLOCON IN EGF RECEPTOR TRAFFICKING TO THE NUCLEUS AND GENE EXPRESSION

Graham F. Carpenter¹ and Hong-Jun Liao²
¹*Vanderbilt University* and
²*Vanderbilt University Medical Center*

P30-18 THE ROLE OF β-TrCP UBIQUITIN LIGASE RECEPTOR IN THE DEVELOPMENT OF BREAST CANCER

Neehar Bhatia,¹ Serge Y. Fuchs,² and Vladimir S. Spiegelman¹
¹*University of Wisconsin, Madison* and ²*University of Pennsylvania*

P30-19 DIFFERENTIAL REGULATION OF CALCIUM INFLUX IN BREAST CANCER CELL LINES

Richmond Muimo
University of Sheffield

P30-20 BINDING OF TISSUE INHIBITOR OF METALLOPROTEASES-2 (TIMP-2) TO MEMBRANE-TYPE 1 MATRIX METALLOPROTEASE (MT1-MMP) CONTROLS HUMAN BREAST CARCINOMA GROWTH BY A NON-PROTEOLYTIC MECHANISM

Paolo Mignatti,¹ Silvia D'Alessio,¹ Giovanni Ferrari,¹ Karma Cinnante,¹ William J. Scheerer,¹ Aubrey C. Galloway,¹ Daniel F. Roses,¹ Dmitri V. Rozanov,² Albert G. Remacle,² Eok-Soo Oh,² Sergey

A. Shiryaev,² Alex Y. Strongin,² and Giuseppe Pintucci¹

¹*New York University School of Medicine* and ²*Burnham Institute*

P30-21 TRANSFORMING GROWTH FACTOR-β1-INDUCED PLASMINOGEN ACTIVATOR INHIBITOR-1 EXPRESSION REQUIRES COOPERATIVE EPIDERMAL GROWTH FACTOR RECEPTOR AND RhoA SIGNALING

Paul J. Higgins and Rohan Samarakoon
Albany Medical College

P30-22 PROTEOMIC ANALYSIS OF NONCANONICAL WNT SIGNALING IN BREAST CANCER CELLS

Richard James, Travis Biechele, and Randall T. Moon
University of Washington

P30-23 TARGETING BREAST CANCERS FEATURING ACTIVATING MUTATIONS IN PIK3CA

Qi Wang and Jean Zhao
Dana-Farber Cancer Institute

P30-24 BREAST TUMOR KINASE AS A COMPLEMENTARY TARGET FOR SENSITIZING BREAST CANCER TO EPIDERMAL GROWTH FACTOR RECEPTOR-TARGETED THERAPY

Xinqun Li, Yang Lu, Ke Liang, and Zhen Fan
M. D. Anderson Cancer Center, University of Texas

P30-25 RAB25 SMALL GTPASE-MEDIATED MOLECULAR MECHANISM IN BREAST CANCER

Kwai Wa Cheng
M. D. Anderson Cancer Center, University of Texas

P30-26 OVEREXPRESSION OF RhoA INDUCES PRENEOPLASTIC TRANSFORMATION OF PRIMARY MAMMARY EPITHELIAL CELLS

Xiangshan Zhao,¹ Nidhi Pokhriyal,² Hui Ma,² Lei Duan,¹ Hamid Band,¹ and Vimla Band¹
¹*University of Nebraska Medical Center* and ²*Evanston Northwestern Healthcare Research Institute*

P30-27 MECHANISM OF AKT-DEPENDENT JNK INHIBITION: IMPLICATIONS FOR THE PROGNOSIS AND TREATMENT OF BREAST CANCER

Thomas F. Franke,¹ Gregory Shostak,² and Chizuru Sugimoto³

¹*New York University School of Medicine*, ²*Columbia University*, and ³*University of Fukui School of Medicine*

P30-28 Met RECEPTOR TYROSINE KINASE SIGNALING AND CELL DISPERSAL REQUIRES DORSAL RUFFLE FORMATION REGULATED BY THE Gab1 SCAFFOLD PROTEIN

Jasmine Vanessa Abella,¹ Christine Parachoniak,¹ Melanie Frigault,¹ Veena Sangwan,¹ and Morag Park²
¹*McGill University* and ²*McGill University Royal Victoria Hospital*

P31 Tumor Suppressor Genes I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P31-1* PROMOTER HYPERMETHYLATION-MEDIATED TRANSCRIPTIONAL SILENCING OF TP73 IS AN IMMORTALIZED EVENT IN THE BREAST CANCER PROGRESSION CONTINUUM IN THE MCF10 MODEL

Maria J. Worsham,¹ Kang Mei Chen,¹ Fred Miller,² and Sandra R. Wolman³
¹*Henry Ford Health System*, ²*Karmanos Cancer Institute*, and ³*George Washington University*

P31-2 A CHEMICAL STRATEGY TO TRAP AND IDENTIFY PROTEINS ASSOCIATED WITH DNMTS

Chuan He
University of Chicago

P31-3* Pten TUMOR SUPPRESSOR FUNCTION IS CRITICAL IN THE TUMOR MICROENVIRONMENT

Gustavo Leone
Ohio State University

- P31-4*** THE ROLE OF FKHR IN MAMMARY GLAND DEVELOPMENT, INVOLUTION, AND TUMORIGENESIS
Rachel Schiff,¹ Lanfang Qin,¹ Maria Fernanda Botero,² and C. Kent Osborne¹
¹Baylor College of Medicine and ²Baylor College of Medicine Breast Center
- P31-5** SCANNING THE EXPRESSION OF THE GENES ON THE P-ARM OF CHROMOSOME 8 AND THE q21-qter REGION OF CHROMOSOME 18 IN BREAST CANCER BY THE SYSTEMATIC MULTIPLEX REVERSE TRANSCRIPTION-PCR (SM RT-PCR) AND DNA MICROARRAY HYBRIDIZATION METHODS
Fumiichiro Yamamoto and Miyako Yamamoto
Burnham Institute
- P31-6** ROLE OF TUMOR METASTASIS SUPPRESSOR GENE, NDRG1, IN BREAST CANCER PROGRESSION
Wen Liu,¹ Sucharita Bandyopadhyay,² Eiji Furuta,¹ and Kounosuke Watabe¹
¹Southern Illinois University School of Medicine and ²Stanford University
- P31-7** REGULATION OF HTERT EXPRESSION AND FUNCTION IN NEWLY IMMORTALIZED p53(+) HUMAN MAMMARY EPITHELIAL CELL LINES
Martha Stampfer, James Garbe, Tarlochan Nijjar, Alain Beliveau, Paul Yaswen, and Ekaterina Bassett
Lawrence Berkeley National Laboratory
- P31-8** MODULATION OF PTEN ACTIVITY IN HUMAN BREAST CANCER
Gobind Singh, Leticia Odriozola, Thuong Hoang, and Andrew Chan
Mount Sinai School of Medicine, New York
- P31-9** NOVEL BINDING INTERACTIONS OF THE HUMAN LYSYL OXIDASE PRO-PEPTIDE REGION
Nuria Sanchez-Morgan,¹ Kathrin H. Kirsch,¹ Phil Trackman,² and Gail Sonenshein¹
¹Boston University School of Medicine and ²Boston University Goldman School of Dental Medicine
- P31-10** MATRIX STIFFNESS REGULATES HOXA9 MODULATION OF BREAST TUMOR PHENOTYPE
Janna Kay Mouw,¹ Penney M. Gilbert,² Johnathan N. Lakins,¹ and Valerie M. Weaver¹
¹University of California, San Francisco and ²University of Pennsylvania
- P31-11** EXPLORING THE ROLE OF 14-3-3 δ IN ErbB2-MEDIATED MAMMARY TUMORIGENESIS
Chen Ling
McGill University Health Centre (MUHC)
- P31-12** TIGHT JUNCTION PROTEINS OCCLUDIN AND ZO-1 ARE SUBSTRATES OF THE RECEPTOR PROTEIN TYROSINE PHOSPHATASE DEP-1
Jennifer Sallee and Keith Burridge
University of North Carolina at Chapel Hill
- P31-13** SUPPRESSION OF THE NEGATIVE REGULATOR LRIG1 CONTRIBUTES TO ErbB2 OVEREXPRESSION IN BREAST CANCER
Jamie K. Miller
University of California, Davis
- P31-14** CHFR IS A NOVEL TUMOR SUPPRESSOR, REGULATOR OF GENOMIC INSTABILITY, AND CHEMOTHERAPEUTIC BIOMARKER IN BREAST CANCER
Lisa Marie Privette,¹ Maria Elena Gonzalez,¹ Lei Ding,¹ Jingly Fung Weier,² Ha Nam Nguyen,³ Celina G. Kleer,¹ and Elizabeth M. Petty¹
¹University of Michigan, Ann Arbor, ²University of California, San Francisco, and ³Stanford University
- P31-15** PROAPOPTOTIC BimEL IS DEGRADED BY β TRCP UBIQUITIN LIGASE COMPLEX
Elinor Dehan
New York University School of Medicine
- P31-16** THE TUMOR SUPPRESSOR ACTIVITY OF THE LYSYL OXIDASE PROPEPTIDE REVERSES THE INVASIVE PHENOTYPE OF Her-2 DRIVEN BREAST CANCER AND IS IMPAIRED IN POLYMORPHIC VARIANT
Chengyin Min,¹ Kathrin H. Kirsch,¹ Yingshe Zhao,¹ Amitava H. Palamakumbura,² Philip C. Trackman,² and Gail E. Sonenshein¹
¹Boston University School of Medicine and ²Boston University Goldman School of Dental Medicine
- P31-17** THE PROLYL ISOMERASE Pin1 MODULATES RETINOBLASTOMA PROTEIN IN RESPONSE TO IRONIC IRRADIATION
Wei Du, Haoqiang Ying, and Zhi-Xiong Jim Xiao
Boston University School of Medicine
- P31-18** INHIBITION OF MAD1 BY AKT PROMOTES HER-2 ONCOGENIC SIGNALING
Hsu-Ping Kuo,¹ Mien-Chie Hung,² and Dung-Fang Lee²
¹M. D. Anderson Cancer Center and ²M. D. Anderson Cancer Center, University of Texas
- P31-19** THE ROLE OF PinX1 IN TELOMERE REGULATION AND TUMORIGENESIS
Christina Soohoo,¹ Alexander Miron,² James Dirk Iglehart,² Kun Ping Lu,¹ and Xiao Zhen Zhou¹
¹Beth Israel Deaconess Medical Center and ²Dana-Farber Cancer Institute
- P31-20** A BONE MORPHOGENETIC PROTEIN ANTAGONIST AS A BREAST CANCER GROWTH SUPPRESSOR
Kimberly R. Blish,¹ Matthew A. Triplett,² Mark C. Willingham,² Timothy E. Kute,³ Wei Du,² Charles E. Birse,⁴ Surekha R. Krishnan,⁴

**Symposia Session*

Julie C. Brown,² Frank M. Torti,² and Suzy V. Torti²

¹Wake Forest University Health Sciences, ²Wake Forest University School of Medicine, ³Wake Forest University, and ⁴Human Genome Sciences, Inc.

P31-21 DACH1 IS A NUCLEOLAR PROTEIN WHOSE EXPRESSION CORRELATES WITH ESTROGEN RECEPTOR α EXPRESSION IN BREAST CANCER

Richard Pestell,¹ Chenguang Wang,¹ Lawrence A. Shirley,¹ Jie Zhou,¹ Vladimir M. Popov,¹ Kongming Wu,¹ and Hallgeir Rui²
¹Jefferson Medical College and ²Lombardi Comprehensive Cancer Center

P32 BRCA1 & BRCA2 Tumor Suppressors I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P32-1 BRCA1 SOMATIC METHYLATION AND EARLY ONSET BREAST CANCER

Alexander Dobrovic,¹ Michael Krypuy,¹ Ee Ming Wong,¹ Lasse Kristensen,¹ Melissa Caroline Southey,² Melissa Brown,³ and John Hopper²
¹Peter MacCallum Cancer Centre, ²University of Melbourne, and ³University of Queensland

P32-2 HETEROCHROMATIN INSTABILITY IN CANCER AND POTENTIAL ROLE OF BRCA1 IN PERICENTRIC HETEROCHROMATIN

Jeanne Bentley Lawrence and Gayle Pageau
 University of Massachusetts Medical School

P32-3 BRCA1-MEDIATED MONOUBIQUITYLATION: EFFECT ON NUCLEOSOME DYNAMICS

Amit Thakar and Jordanka Zlatanova
 University of Wyoming

P32-4 EXTRA-CHROMOSOMAL CIRCULAR DNA IN BREAST CANCER: ROLE OF BRCA GENES AND EFFECT OF CHEMOTHERAPY

Daniel Segal, Neta Agmon, and Sarit Cohen
 Tel Aviv University

P32-5 ROLE OF THE BRCA2 CARBOXYL-TERMINUS IN Rad51-MEDIATED HOMOLOGOUS RECOMBINATION

Patrick Sung, Youngho Kwon, Joesph San Filippo, and Wilson Zhao
 Yale University

P32-6 BASE EXCISION DNA REPAIR DEFECTS IN BASAL-LIKE AND BRCA1-MUTATED BREAST CANCER CELL LINES

James M. Ford, Preethi Sundaresakumar, and Elizabeth Alli
 Stanford University School of Medicine

P32-7 ABROGATION OF BRCC36 IMPAIRS IR-INDUCED BRCA1 ACTIVATION AND SENSITIZES BREAST CANCER CELLS TO IR-INDUCED APOPTOSIS

Xiaowei Chen, Neilay Amin, and Andrew K. Godwin
 Fox Chase Cancer Center

P32-8 NFBD1, 53BP1, AND BRCA1 HAVE BOTH REDUNDANT AND UNIQUE ROLES IN THE ATM PATHWAY

Kathleen Ann Wilson¹ and David F. Stern²
¹Yale University and ²Yale University School of Medicine

P32-9 MOLECULAR BASIS FOR BRCA2-MEDIATED DNA REPAIR AND BREAST TUMOR SUPPRESSION

Julia Etchin

Yale University

P32-10 DISRUPTION OF BRCA2-Rad51 COMPLEX IN BREAST CANCER CELLS

Raquel Aloyz
 McGill University

P32-11 ALLEGIC IMBALANCE IN BRCA1 AND BRCA2 GENE EXPRESSION IS ASSOCIATED WITH INCREASED BREAST CANCER RISK

Xiaowei Chen,¹ Joellen Weaver,¹ Betsy Bove,¹ Lisa Vanderveer,¹

Alexander Miron,² Mary B. Daly,¹ and Andrew K. Godwin¹

¹Fox Chase Cancer Center and

²Dana-Farber Cancer Institute

P32-12 BRCA1 AND BRCA2 POST-TRANSCRIPTIONAL REGULATION AND CANCER RISK

James D. Fackenthal, Devin R. Burrill, Toshio F. Yoshimatsu, and Olofunmilayo I. Olopade
University of Chicago

P32-13 ROLE OF IMPAIRED TGF- β SIGNALING IN DEVELOPMENT OF BRCA1-DEFICIENT BREAST CANCER: MOUSE MODEL STUDIES

Priscilla A. Furth and Shahin Assefnia
Georgetown University

P32-14 IDENTIFYING SUBSTRATE AND E2 INTERACTIONS OF THE BRCA1-BARD1 UBIQUITIN LIGASE

Devin E. Christensen, Peter S. Brzovic, and Rachel E. Klevit
University of Washington

P32-15 CROSSTALK BETWEEN BRCA1 AND VITAMIN D IN GROWTH INHIBITION OF BREAST CANCER CELLS BY CO-REGULATION OF THE TUMOR SUPPRESSOR p21waf-cip

Ronit Iris Yarden,¹ Itay Pickholtz,¹ Rachel Cohen,¹ Gary H. Posner,² and Moshe Z. Papa¹

¹Chaim Sheba Medical Center and ²Johns Hopkins University, East Baltimore Campus

P32-16* BRCA1 PROMOTER METHYLATION IS ASSOCIATED WITH INCREASED MORTALITY AMONG WOMEN WITH BREAST CANCER

Jia Chen,¹ Marilie D. Gammon,² Xinran Xu,¹ Yujing Zhang,³ Timothy H. Bestor,³ Steven H. Zeisel,² James G. Wetmur,¹ Susan L. Teitelbaum,¹ Al I. Neugut,³ and Regina M. Santella⁴

¹Mount Sinai School of Medicine, New York, ²University of North Carolina Lineberger Cancer Center, ³Columbia University, ⁴University of North Carolina at Chapel Hill, and ⁵Columbia University School of Public Health

*Symposia Session

P32-17 INTERACTION OF AIB1 AND BRCA1 IN THE DEVELOPMENT OF BREAST CANCER

Anna T. Riegel¹ and John Lahusen²
¹Lombardi Comprehensive Cancer Center and ²Georgetown University Medical Center

P32-18 AKT REGULATES BRCA1 STABILITY IN RESPONSE TO ESTROGEN SIGNALING

Andrew Cook Nelson,¹ Traci Lyons,¹ Christian Young,² Steven Anderson,¹ and Jeffrey Holt¹
¹University of Colorado Denver, Health Sciences Center and ²University of Colorado at Denver

P33 Oncogenes I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM

Even-numbered – 8:00–9:30 PM

P33-1* IN VIVO ROLE OF THE Six1 HOMEOPROTEIN IN MAMMARY GLAND TUMORIGENESIS

Erica McCoy,¹ Alana Welm,² Karen Heichman,² Paul Jedlicka,¹ Lewis Chodosh,³ and Heide Ford¹
¹University of Colorado Denver, Health Sciences Center, ²University of Utah Huntsman Cancer Institute, and ³University of Pennsylvania

P33-2 EPHA2 RECEPTOR TYROSINE KINASE AMPLIFIES ErbB2 SIGNALING, PROMOTING TUMORIGENESIS AND METASTATIC PROGRESSION OF MAMMARY ADENOCARCINOMA

Jin Chen,¹ Dana Brantley-Sieders,¹ Guanglei Zhuang,¹ Donna Hicks,¹ Wei Bin Fang,² Yoonha Hwang,¹ Justin Cates,¹ Karen Coffman,³ Dowdy Jackson,³ Elizabeth Buckerheimer,³ and Rebecca Cook¹
¹Vanderbilt University Medical Center, ²Vanderbilt University, and ³MedImmune, Inc.

P33-3 CYR61 (CCN1) IN HEREGULIN-OVEREXPRESSING BREAST CARCINOMAS: FROM ANGIOGENESIS TO ONCOGENESIS VIA $\alpha_1\beta_3$

Javier Abel Menendez¹ and Ruth Lupo²
¹Girona Biomedical Research Institute (IDIBGI) and ²Evanston

Northwestern Healthcare Research Institute

P33-4 ROLE OF LYSOPHOSPHOLIPIDS IN THE INITIATION, PROGRESSION, AND THERAPY OF BREAST CANCER

Shuying Liu, Makiko Umez-Goto, Xianjun Fang, and Gordon Mills
M. D. Anderson Cancer Center, University of Texas

P33-5 TRANSFORMING PROPERTIES OF 8p11-12 CANDIDATE ONCOGENES IN HUMAN BREAST CANCER

Zeng-Quan Yang
Wayne State University

P33-6 TUMOR SUPPRESSOR RETINOBLASTOMA PROTEIN (pRb) COOPERATES WITH BASIC HELIX LOOP HELIX (BHLH) MYOD TO MAINTAIN A TERMINAL CELL CYCLE ARREST

Hasan Nabeel Rajabi
Dana-Farber Cancer Institute

P33-7 THE LIM-ONLY FACTOR LM04 REGULATES EXPRESSION OF THE BMP7 GENE THROUGH AN HDAC2-DEPENDENT MECHANISM, AND CONTROLS CELL PROLIFERATION, AND APOPTOSIS OF MAMMARY EPITHELIAL CELLS

Zhongxian Lu
University of California, Irvine

P33-8 THE ROLE OF TRANSFORMING GROWTH FACTOR- β SIGNALING IN Six1-INDUCED EMT AND METASTASIS

Douglas Scott Micalizzi, Kimberly L. Christensen, Carrie Aldridge, and Heide L. Ford
University of Colorado Denver, Health Sciences Center

P33-9 STRUCTURE-FUNCTION ANALYSIS OF THE Six1 TRANSCRIPTIONAL COMPLEX

Aaron Patrick
University of Colorado Denver, Health Sciences Center

P33-10 MOLECULAR PROFILING OF BREAST CANCER CELL LINES DEFINES RELEVANT TUMOR MODELS AND PROVIDES A RESOURCE FOR CANCER GENE DISCOVERY

Jessica Kao
Stanford University

P33-11 OVEREXPRESSION OF CrkII LEADS TO ABNORMAL MAMMARY GLAND DEVELOPMENT AND BREAST CANCER

Kelly E. Fathers,¹ Anie Monast,¹ Sonia Rodrigues,¹ and Morag Park²

¹McGill University and ²McGill University Royal Victoria Hospital

P33-12 MAMMARY GLAND TUMOR DEVELOPMENT IN TRANSGENIC MICE OVEREXPRESSING DIFFERENT ISOFORMS OF THE CUX1 TRANSCRIPTION FACTOR

Chantal Cadieux,¹ Valérie Kedinger,¹ Ryoko Harada,¹ and Alain Nepveu²

¹McGill University Health Centre (MUHC) and ²McGill University

P33-13 EXPRESSION OF STAT1 REGULATES ErbB2-INDUCED TRANSFORMATION AND TUMORIGENESIS

Jennifer Raven, Shuo Wang, and Antonis E. Koromilas
McGill University

P33-14 IMMORTALIZATION AND TRANSFORMATION OF HUMAN MAMMARY EPITHELIAL CELLS BY c-Myc AND c-Myc PHOSPHORYLATION DEFICIENT MUTANTS

Clare Thibodeaux,¹ Gary L. Disbrow,¹ Xuefeng Liu,¹ Yiyu Zhang,¹ Janice D. Rone,¹ Bassem R. Haddad,¹ and Richard Schlegel²
¹Georgetown University Medical Center and ²Georgetown University

P33-15 THE ROLE OF p38 IN SIGNALING EVENTS DOWNSTREAM OF ONCOGENIC Ras

Lynne Waldman and Robert Weinberg
Whitehead Institute for Biomedical Research

*Symposia Session

P33-16 AIB1-Δ3 IS A MORE ONCOGENIC ISOFORM OF THE NUCLEAR RECEPTOR COACTIVATOR AIB1
 Christopher Chien
Lombardi Comprehensive Cancer Center

P33-17 Y1226 MEDIATES ErbB2 INDUCED PROTECTION FROM APOPTOSIS
 Alexandra Luchs and Senthil Muthuswamy
Cold Spring Harbor Laboratory

P33-18 REGULATION OF SENESCENCE BY p38 MAP KINASE IN ErbB-2-INDUCED BREAST CANCER
 Carola Neumann, Lauren Ball, and Scott T. Eblen
Medical University of South Carolina

P34 Stromal-Epithelial Interactions I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P34-1* **ARE MESENCHYMAL STEM CELLS THE ORIGIN OF CARCINOMA-ASSOCIATED FIBROBLASTS?**
 Izhak Haviv
Peter MacCallum Cancer Centre

P34-2* **THE ORIGINS AND POTENTIAL FUNCTIONS OF MYOFIBROBLASTS IN BREAST CARCINOMAS**
 Matthew Saelzler,¹ Ferenc Reinhardt,² Sandra McAllister,² and Robert A. Weinberg²
¹Massachusetts Institute of Technology and ²Whitehead Institute for Biomedical Research

P34-3* **THE IMPACT OF ADIPOSE STROMAL CELLS ON THE BEHAVIORS OF BREAST CANCER CELLS**
 Rong Li, Marc Walter, Sitai Liang, Peter Hornsby, and Sagar Ghosh
University of Texas Health Science Center at San Antonio

P34-4 **THE ROLE OF CXCL12 AND CXCL14 CHEMOKINES IN EPITHELIAL STROMAL CELL INTERACTIONS DURING BREAST TUMOR PROGRESSION**
 Kornelia Polyak, Min Hu, and Jun Yao
Dana-Farber Cancer Institute

P34-5 **VITRONECTIN IN THE TUMOR MICRO-ENVIRONMENT PROMOTES BREAST CANCER CELL PROLIFERATION THROUGH Elevated PROTEIN SYNTHESIS BY INTEGRIN α_vβ₃ ACTIVATION OF THE mTOR 4E-BP1 PATHWAY**
 Robert Schneider, Carolina Pola, and Silvia C. Formenti
New York University School of Medicine

P34-6 **MCF-7 BREAST CANCER CELLS DOWN-REGULATE MACROPHAGE MIGRATION INHIBITORY FACTOR IN CO-CULTURED MACROPHAGES: IMPLICATIONS FOR CONTEXT-SPECIFIC MODULATION OF TUMOR-ASSOCIATED MACROPHAGES**
 Theodore A. Bremner, Giselle T. Burnett, Denise C. Weathersby, and Tiffany E. Taylor
Howard University

P34-7 **TGFβ1 ACTS AS A MAMMARY TUMOR PROMOTER IN THE IRRADIATED HOST**
 David Nguyen,¹ Helen A. Oketch-Rabah,¹ Daniel Medina,² and Mary Helen Barcellos-Hoff¹
¹Lawrence Berkeley National Laboratory and ²Baylor College of Medicine

P34-8 **FUNCTIONS OF PTEN IN STROMAL FIBROBLASTS DURING DEVELOPMENT OF MAMMARY EPITHELIAL TUMOR**
 Jean-Leon Chong and Anthony J. Trimboli
Ohio State University

P34-9 **CONJUGATED LINOLEIC ACID EFFECTS ON ADIPOSE-EPITHELIAL SIGNALING IN BREAST CANCER**
 Benjamin J. Belda and John P. Vanden Heuvel
Pennsylvania State University

P34-10 AGED STROMA AND TUMORIGENESIS
 Ermira Pazolli, Sarah Brehm, Xianmin Luo, Kelly Carbery, and Sheila A. Stewart
Washington University in St. Louis - School of Medicine

P34-11 STROMAL TENASCIN-C PROMOTES EPITHELIAL CELL PROLIFERATION TO DISRUPT NORMAL MAMMARY TISSUE ARCHITECTURE AT THE LUMINAL LEVEL
 Agne Taraseviciute,¹ Benjamin Thomas Vincent,² Pepper Schedin,³ and Peter Lloyd Jones¹
¹University of Pennsylvania, ²University of Dundee, and ³University of Colorado Denver, Health Sciences Center

P34-12 BIOLOGICAL FUNCTION FOR PLASMA KALLIKREIN IN MAMMARY GLAND INVOLUTION
 Jennifer Noel Lilla, Charles S. Craik, and Zena Werb
University of California, San Francisco

P34-13 THE ROLE OF CELL TRACTION FORCE IN FIBRONECTIN FIBRILLOGENESIS
 Lewis Romer,¹ Christopher S. Chen,² and Christopher A. Lemmon¹
¹Johns Hopkins University School of Medicine and ²University of Pennsylvania

P35 Tumor Progression I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
 Even-numbered – 8:00–9:30 PM

P35-1* **EPIGENETIC REGULATION OF BREAST CANCER PROGRESSION**
 Sam Thiagalingam and Panagiotis Papageorgis
Boston University School of Medicine

P35-2 **THE CELLULAR LOCALIZATION OF IGFBP5 DETERMINES ITS ONCOGENIC FUNCTIONS IN BREAST CANCER**
 Wei Zhang, Mustafa Akkiprik, Limei Hu, and Aysegul Sahin
M. D. Anderson Cancer Center, University of Texas

*Symposia Session

- P35-3 INTEGRATING FUNCTIONAL AND STRUCTURAL CANCER GENOMICS TO IDENTIFY BREAST CANCER DRIVERS**
William C. Hahn
Dana-Farber Cancer Institute
- P35-4 THE HEDGEHOG PATHWAY REGULATES OSTEOPONTIN EXPRESSION IN BREAST CANCER CELLS**
Lalita Shevde-Samant, Shamik Das, Brandon J. Metge, and Rajeev S. Samant
University of South Alabama
- P35-5 ESE-1 IS REQUIRED TO MAINTAIN THE TRANSFORMED PHENOTYPE OF MCF-7 HUMAN MAMMARY EPITHELIAL CELLS**
Arthur Gutierrez-Hartmann, Joanna Pozcobutt, and Darius M. Walker
University of Colorado School of Medicine
- P35-6 ChIP-DSL TECHNOLOGY REVEALS AN EXTENSIVE SLUG-BINDING PROGRAM ON HUMAN GENE PROMOTERS IN BREAST CELLS**
Mukul Kumar Mittal and Gautam Chaudhuri
Meharry Medical College, Nashville
- P35-7 Rac1 AND Rac1b CONTROL DISTINCT SIGNALING EVENTS IN BREAST CARCINOMA CELLS**
Marc H. Symons and Laura Martello-Rooney
Feinstein Institute for Medical Research
- P35-8 FUNCTIONAL ANALYSIS OF INDIVIDUAL CELLS AND MICROENVIRONMENT OF BREAST CANCER DRAINING LYMPH NODES**
Mordechai Deutsch
Bar-Ilan University
- P35-9 ABSTRACT WITHDRAWN**
- P35-10 HAPLOININSUFFICIENCY FOR p190B RHOGAP DELAYS MMTV-Neu TUMORIGENESIS**
Brandy Heckman,¹ Tracy Vargo-Gogola,² Vivian Jiang,³ Susan G. Hilsenbeck,⁴ and Jeffrey M. Rosen¹
¹Baylor College of Medicine, ²Notre Dame University, ³University of

- California, Berkeley, and ⁴Baylor College of Medicine Breast Center*
- P35-11 CHARACTERIZATION OF THE ROLE OF FKBP52 IN CANCER CELL GROWTH AND METASTASIS**
Kelly Lee Waldeck, Michelle Maria Kouspou, Jessica Louise Vieusseux, Jaclyn Lee Harris, Susan Docherty, Joseline O'Jaimi, and John Timothy Price
St. Vincent's Institute of Medical Research
- P35-12 ROLE OF PROSTAGLANDIN E2 RECEPTORS EP1 AND EP2 IN HUMAN MCF-7 Cox-2 CLONE 10 BREAST TUMOR CELL PROLIFERATION AND AROMATASE EXPRESSION**
Jenifer Prosperi¹ and Fredrika Robertson²
¹Ohio State University and ²M. D. Anderson Cancer Center, University of Texas
- P35-13 MACROPHAGE HETEROGENEITY AND REVERSAL OF TUMOR EDUCATION**
Ryan Roberts
Ohio State University
- P35-14 THE ROLE OF Src IN MAMMARY EPITHELIAL TUMORIGENESIS**
Leonard Kusdra
University of California, Berkeley
- P35-15 A NOVEL PLATFORM FOR STUDYING SHAPE CHANGING ABILITY IN CANCER CELLS BASED ON MICROPATTERNED SUBSTRATES**
Jan Hoh,¹ William F. Heinz,¹ Jeffrey L. Werbin,¹ Beatriz Mendoza,² Jonas Rundqvist,² David B. Haviland,² and Lewis Romer¹
¹Johns Hopkins University School of Medicine and ²Royal Institute of Technology, Stockholm, Sweden
- P35-16 BREAST TUMOR KINASE-MEDIATED BIOLOGY IN BREAST CANCER TUMORIGENESIS AND PROGRESSION**
Kristopher Andrew Lofgren,¹ Julie Hanson Ostrander,² and Carol A. Lange¹
¹University of Minnesota, Twin Cities and ²Duke University

- P36 Cell Migration/ Invasion I**
6:30–9:30 PM
Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM
- P36-1* THE ROLE OF ADAM-9 IN BREAST CANCER CELL MIGRATION**
Jessica L. Fry and Alex Toker
Beth Israel Deaconess Medical Center
- P36-2 NOVEL ENDOPLASMIC RETICULUM PROTEIN INVOLVED IN CANCER INVASION**
Jian Cao
State University of New York, Stony Brook
- P36-3 TIMP-1 INDUCES AN EPITHELIAL MESENCHYMAL TRANSITION VIA UPREGULATION OF THE TRANSCRIPTION FACTOR TWIST IN HUMAN BREAST EPITHELIAL CELLS**
Rosemarie Chirco,¹ Joshua Won,¹ Rafael Fridman,² and Hyeong-Reh C. Kim²
¹Wayne State University and ²Wayne State University School of Medicine
- P36-4 ErbB1 AND ErbB2 HAVE DISTINCT FUNCTIONS IN TUMOR CELL INVASION AND INTRAVASATION**
Dmitriy Kedrin
Albert Einstein College of Medicine of Yeshiva University
- P36-5 CADHERIN-11 AND ITS ROLE IN BREAST CANCER PROGRESSION AND INVASION**
Jaime M. Guidry Auvin
Georgetown University Medical Center
- P36-6 DIFFERENTIAL INVASIVE AND PROLIFERATIVE CD44 PHENOTYPES DEPENDENT ON HYALURONAN PRESENTATION**
Jose Lopez
University of Arizona, Tucson
- P36-7 BCAR3 INFLUENCES BREAST CANCER CELL MOTILITY BY REGULATING Cas LOCALIZATION AND DOWNSTREAM SIGNALING**
Randy Schrecengost, Natasha Schuh, Michael Guerrero, and Amy Bouton
University of Virginia

*Symposia Session

P36-8 THE TRANSFORMING GROWTH FACTOR- β TYPE III RECEPTOR AND BONE MORPHOGENETIC PROTEINS: A RECEPTOR-LIGAND PAIR AND ITS IMPLICATIONS ON INVASION AND METASTASIS

Kellye Colleen Kirkbride,¹ Mei Dong,² Kelly Jayne Gordon,¹ Nam Y. Lee,² Richard D. Sheu,² and Gerard Conrad Blobel²

¹Duke University and ²Duke University Medical Center

P36-9 ALTERED INTEGRIN EXPRESSION DURING BREAST CARCINOMA EPITHELIAL-TO-MESENCHYMAL TRANSITION (EMT) IN THE PMC42 SYSTEM

Razan Wafai,¹ Tony Blick,² Angela Arvanitis,¹ Mark Waltham,² and Erik Thompson¹

¹University of Melbourne and

²St. Vincent's Institute of Medical Research

P36-10 14-3-3 δ REGULATES BREAST CANCER CELL MIGRATION AND INVASION

Aaron Thomas Boudreau, Daojing Wang, Genee Y. Lee, and Mina J. Bissell
Lawrence Berkeley National Laboratory

P36-11 THE ROLE OF PROTEIN KINASE D (PKD) SIGNALING IN BREAST CANCER CELL MIGRATION AND INVASION

Claudine Christoforides and Alex Toker
Beth Israel Deaconess Medical Center

P36-12 ROLE OF SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 5B IN BREAST CANCER CELL MIGRATION

Teresa M. Bernaciak¹ and Corinne M. Silva²
¹University of Virginia School of Medicine and ²University of Virginia

P36-13 SUPPRESSION OF CARCINOMA CELL INVASION BY SYNDECAN-1

Yan Ji
University of Wisconsin, Madison

P37 Metastasis I

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P37-1* BREAST CANCER GROWTH AND METASTASIS IN A RAT MODEL OF TYPE 1 DIABETES MELLITUS

Carrie J. Merkle and David W. Montgomery

University of Arizona, Tucson

P37-2* NOVEL APPROACHES TO TARGET THE COX-2 PATHWAY TO REDUCE BREAST CANCER METASTASIS

Amy Fulton,¹ Namita Kundu,¹ Xinrong Ma,¹ Olga Goloubeva,¹ Dawn Holt,² and Suzanne Ostrand-Rosenberg³

¹University of Maryland School of Medicine, ²University of Maryland, Baltimore, and ³University of Maryland, Baltimore County

P37-3* SELF-SEEDING: A NOVEL MECHANISM LINKING TUMORIGENESIS AND METASTASIS

Miyoung Kim, Alessandra Insinga, Larry Norton, and Joan Massague
Memorial Sloan-Kettering Cancer Center

P37-4 NATURAL CARBOHYDRATE INHIBITORS OF GALECTIN-3 FOR THE PREVENTION OF BREAST CANCER METASTASIS

Hafiz Ahmed and Gerardo R. Vasta
University of Maryland Biotechnology Institute

P37-5 NOVEL QUANTITATION OF AUTOCRINE STIMULATION OF CELL MOTILITY IN VITRO AND METASTASIS IN VIVO OF HUMAN BREAST CANCER CELL LINES

Deni S. Galileo, Kalyani Chilukuri, Yupei Li, and Katy Teixeira
University of Delaware

P37-6 THE DIALOGUE OF METASTASIS-UNCOVERING JUXTACRINE GENETIC CASCADES WITH A TOXOPLASMA GONDII ENZYME

Richard Steinman
University of Pittsburgh

P37-7 DOES LOSS OF NEDD9 LIMIT BREAST CANCER METASTASIS?

Erica Golemis, Eugene Izumchenko, Olga Plotnikova, and Nadezhda Tikhmyanova
Fox Chase Cancer Center

P37-8 A ROLE FOR MYELOPEROXIDASE IN TUMOR PROGRESSION AND METASTASIS

Joseph Edward DeLarco, Cari A. Park, and Leo T. Furcht
University of Minnesota, Twin Cities

P37-9 ROLE OF CELL FUSION IN BREAST CANCER METASTASIS

Michael Henry and J. Matthew Barnes
University of Iowa

P37-10 ISOLATION AND CHARACTERIZATION OF BONE MARROW-DERIVED METASTATIC ZR-75-1 CELLS IN ANIMAL MODELS OF HUMAN BREAST CANCER

Abhik Bandyopadhyay, Long Wang, Junhua Yang, Keya De, Yuping Tang, and Luzhe Sun
University of Texas Health Science Center at San Antonio

P37-11 THE CYSTEINE CATHEPSIN INHIBITOR STEFIN A REDUCES THE DEVELOPMENT OF DISTANT METASTASES IN BREAST CANCER

Nimali Withana,¹ Bradley N. Bidwell,² Joshy George,² Daniel Ciocca,³ Robin L. Anderson,² and Belinda Parker¹

¹Peter MacCallum Cancer Institute,

²Peter MacCallum Cancer Centre, and ³Institute of Experimental Medicine and Biology of Cuyo, Argentina

P37-12 OPERATIVE THERAPY AND THE GROWTH OF MICROMETASTASES: CAUSE AND EFFECT?

Susan E. Clare
Indiana University, Indianapolis

P37-13 MECHANISMS OF BREAST CANCER BRAIN METASTASIS

Brunhilde Felding-Habermann,¹ Emily I. Chen,¹ Joseph S. Krueger,¹ Mihaela Lörger,¹ Karin Staflin,¹

*Symposia Session

John R. Yates,¹ Steeg S. Patricia,²
Diane Palmieri,² and Joan Kroener¹
¹Scripps Research Institute and
²National Cancer Institute

P37-14 THE CHEMOKINE RECEPTOR CXCR3 IS A DETERMINANT OF BREAST CANCER METASTASIS

Amy Fulton,¹ Xinrong Ma,¹ Kelly Norsworthy,¹ William Rodgers,¹ Yanchun Li,¹ Phyllis Gimotty,² Namita Kundu,¹ Olga Goloubeva,¹ and Dawn Holt³

¹University of Maryland School of Medicine, ²University of Pennsylvania School of Medicine, and ³University of Maryland, Baltimore

P37-15 APOPTOTIC RESISTANCE PROMOTES DORMANT TUMOR SPREAD BY IMPROVING THE SURVIVAL OF CIRCULATING TUMOR CELLS IN THE LUNG AND INCREASING THE PERSISTENCE OF AGGRESSIVE CYTOSKELETAL RESPONSES TO DETACHMENT

Stuart S. Martin,¹ Rebecca A. Whipple,² Agnes M. Cheung,¹ Eric M. Balzer,¹ and Jennifer R. Yoon¹
¹University of Maryland, Baltimore and ²University of Maryland School of Medicine

P37-16 MIMICKING ONCOGENE-DEPENDENT TUMORIGENESIS IN AN IN VITRO, THREE DIMENSIONAL COLONY ASSAY

Martin Jechlinger and Harold E. Varmus
Memorial Sloan-Kettering Cancer Center

P38 Bone Metastasis

6:30–9:30 PM

Posters Manned: Odd-numbered – 6:30–8:00 PM
Even-numbered – 8:00–9:30 PM

P38-1 HIGH BONE TURNOVER MAY INCREASE BREAST CANCER METASTASIS TO BONE

Wende Michele Kozlow
University of Virginia

P38-2* NOTCH3 – JAGGED1 EXPRESSION REGULATES TGF β -DEPENDENT ANCHORAGE-INDEPENDENT GROWTH AND BONE METASTASIS OF BREAST CANCER CELLS

Zhiyuan Zhang,¹ Massimiliano Bonafe,² Hao Wang,¹ and Peter V. Hauschka¹
¹Children's Hospital, Boston and ²University of Bologna, Bologna, Italy

P38-3* COX2 EXPRESSION CORRELATES WITH BONE MARROW MICROMETASTASES IN PATIENTS WITH STAGE I–III BREAST CANCER

Anthony Lucci, Savitri Krishnamurthy, Balraj Singh, Isabelle Bedrosian, Funda Meric-Bernstam, Kendra Cook, Kailash Mosalpuria, and Massimo Cristofanilli
M. D. Anderson Cancer Center, University of Texas

P38-4* COMBINED IN VITRO AND IN VIVO STRATEGIES TO ISOLATE BONE METASTATIC BREAST TUMOR VARIANTS IDENTIFY LAMININ-511 AS A POTENT PRO-METASTATIC SUBSTRATE

Normand Pouliot, Nicole Kusuma, Delphine Denoyer, and Robin Anderson

Peter MacCallum Cancer Centre

P38-5 STUDY THE INFLUENCE OF ARTHRITIS ON BREAST CANCER-ASSOCIATED BONE METASTASIS

Lopamudra Das Roy, Latha Balu Pathaney, Teresa L. Tinder, and

Pinku Mukherjee

Mayo Clinic and Foundation,

Scottsdale

P38-6 A ROLE OF MEPE-OF45 IN BONE METASTASIS FROM BREAST CANCER

Ya Wang and Siyuan Wen
Jefferson Medical College

P38-7 NOVEL MECHANISM OF BREAST CANCER-INDUCED OSTEOLYSIS

Xu Feng and Zhenqi Shi
University of Alabama at Birmingham

P38-8 HYPOXIC RESPONSE OF BREAST CANCER IS INDUCED BY RANKL: RELEVANCE TO BONE METASTASIS

Peter V. Hauschka,¹ Deepa Saxena,¹ Somying Patntirapong,¹ Parul Sharma,¹ Jason Shoe,² and Quanli Yang¹
¹Children's Hospital, Boston and ²University of Maryland, Baltimore

P38-9 ErbB2 OVER-EXPRESSION IN BREAST CANCER BONE METASTASES: INHIBITION OF HEMATOPOIESIS

Dihua Yu,¹ Valerie Stone Hawthorne,¹ Nina T. Nguyen,¹ Sepideh Mokhtari,¹ Patricia Steeg,² Ralph Arlinghaus,¹ and Janet Price¹
¹M. D. Anderson Cancer Center, University of Texas and ²National Cancer Institute

P38-10 TREATMENT STRATEGY TO REVERSE OSTEOLYTIC BREAST CANCER METASTASIS USING OSTEOBLASTS

Thomas Bodenstine and Danny R. Welch
University of Alabama at Birmingham

P38-11 A NEW IN VITRO MODEL OF BREAST CANCER COLONIZATION OF BONE

Andrea Mastro
Pennsylvania State University

P38-12 THE ROLE OF ADRENOMEDULLIN IN BREAST CANCER BONE METASTASIS

Valerie Anne Siclari, Khalid S. Mohammad, Maryla Niewolna, Christopher Ryan McKenna, Holly Ann Walton, Lisa L. Wessner, Theresa A. Guise, and John M. Chirgwin
University of Virginia

P38-13 THE ROLE OF OSTEOBLAST-DERIVED CYTOKINES IN BONE METASTATIC BREAST CANCER

Karen Marie Bussard
Pennsylvania State University

*Symposia Session

P38-14 THE IN VIVO IMPACT OF HOST MMP-2 IN MAMMARY TUMOR-INDUCED OSTEOLYSIS

Sophie Thiolloy,¹ Conor C. Lynch,¹ Barbara Fingleton,² and Lynn M. Matrisian²

¹Vanderbilt University and

²Vanderbilt-Ingram Cancer Center

P38-15 THE ROLE OF HER-2 IN BREAST CANCER BONE METASTASIS

Dihua Yu, Valerie Stone Hawthorne, Nina T. Nguyen, Sepideh Mohktari, and Janet Price
M. D. Anderson Cancer Center, University of Texas

P39 Breast Cancer Centers of Excellence II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P39-1* RESEARCH ON OPTIMAL RECOVERY PRACTICES IN BREAST CANCER: THE RESTORE TRIAL

Roger Anderson,¹ Shannon Mihalko,² Gary Miller,² Gretchen Kimmick,³ Thomas McCoy,⁴ and Paul Ribisil²

¹University of Pittsburgh Medical Center, ²Wake Forest University,

³Duke University Medical Center, and ⁴Wake Forest University School of Medicine

P39-2* A LONGITUDINAL INVESTIGATION OF POSTTRAUMATIC GROWTH IN WOMEN WITH BREAST CANCER

Suzanne Danhauer, L. Douglas Case, Tanya Vishnevsky, and Nancy E. Avis
Wake Forest University School of Medicine

P39-3 SELF-EFFICACY RELATED TO HEALTH-RELATED QUALITY OF LIFE IN BREAST CANCER SURVIVORS

Shannon Mihalko,¹ Thomas McCoy,² Samantha Rogers,¹ Edward A. Levine,² Paul Ribisl,¹ and Roger Anderson³

¹Wake Forest University, ²Wake Forest University School of Medicine, and ³University of Pittsburgh Medical Center

P39-4 TAILORED COMMUNICATIONS TO ENHANCE ADAPTATION ACROSS THE BREAST CANCER SPECTRUM: CHALLENGES AND INNOVATIVE APPROACHES TO RECRUITMENT AND INTERVENTION DELIVERY WITHIN A BEHAVIORAL CENTER OF EXCELLENCE

Suzanne Miller, Mary Daly, Joanne Buzaglo, Linda Fleisher, Eric Ross, Beth Stearman, Lori Goldstein, Andrea Barsevick, Andrew Balshem, Carmen Breen-Lopez, and Etyia Faison
Fox Chase Cancer Center

P39-5 USING PATIENT SELF-REPORTED DATA TO INCREASE ACCESS AND IMPROVE QUALITY OF CARE

Laura Esserman,¹ Meridithe Mendelsohn,¹ Ellyn Cohen,¹ Andrea Spillmann,¹ Julia Pederson,¹ Michelle Melisko,¹ Aprijita Ananc,¹ Julie Laird,¹ Mary Lou Ernest,¹ Debby Hamolsky,¹ John Park,² Michael Hogarth,¹ Thomas Bechtold,¹ and Lisa Torrey Weiss¹
¹University of California, San Francisco and ²University of California, San Francisco Comprehensive Cancer Center

P39-6 THE COORDINATED DIAGNOSTIC AND EVALUATION PROGRAM: AN INNOVATIVE APPROACH TO DELIVERING BETTER CARE TO WOMEN WITH SUSPICIOUS BREAST IMAGING

Laura Esserman, Cheryl Ewing, and Julia Fridland
University of California, San Francisco

P39-7* DEVELOPMENT OF AN INTEGRATED INFORMATICS PLATFORM FOR BREAST CANCER CARE

Laura Esserman and Michael Hogarth
University of California, San Francisco

P39-8* DECISION SERVICES AT THE UCSF BREAST CARE CENTER

Laura Esserman, Jeffrey Belkora, Shelley Volz, and Meredith Loth
University of California, San Francisco

P39-9* DEVELOPMENT OF A COMPUTERIZED DECISION AID FOR BREAST CANCER PREVENTION

Elissa M. Ozanne¹ and Laura Esserman²

¹MGH Institute for Technology Assessment and ²University of California, San Francisco

P39-10* PREGNANCY FOLLOWING BREAST CANCER TREATMENT: A PROSPECTIVE COHORT ANALYSIS

Michelle J. Naughton,¹ Sukumvanich Paniti,² Thomas McCoy,¹ and Kimberly Van Zee³

¹Wake Forest University School of Medicine, ²University of Pittsburgh School of Medicine, and ³Memorial Sloan-Kettering Cancer Center

P39-11 MENSTRUAL BLEEDING AFTER LONG-TERM AMENORRHEA FOLLOWING BREAST CANCER TREATMENT: RESULTS BY AGE

Paniti Sukumvanich,¹ L. Douglas Case,² Kimberly Van Zee,³ Eva Singletary,⁴ Electra Paskett,⁵ Elizabeth Naftalis,⁶ and Michelle J. Naughton²

¹University of Pittsburgh School of Medicine, ²Wake Forest University School of Medicine, ³Memorial Sloan-Kettering Cancer Center, ⁴M. D. Anderson Cancer Center, University of Texas, ⁵Ohio State University, and ⁶University of Texas Southwestern Medical Center at Dallas

P39-12* RACIAL DIFFERENCES IN THE INTERACTION BETWEEN DNA METHYLATION PHENOTYPES AND ONE CARBON METABOLISM GENETIC VARIANTS IN NORMAL BREAST TISSUES

Ramona Gianina Dumitrescu,¹ Catalin Marian,² Shiva Krishnan,² Bhaskar Kallakury,² Francoise Seillier-Moiseiwitsch,² Habtom Ressom,² Scott Spear,² Jo

Freudenheim,³ and Peter G. Shields²
¹Georgetown University, ²Lombardi Comprehensive Cancer Center, and ³State University of New York, Buffalo

P39-13* ALCOHOL CONSUMPTION AND DNA HYPERMETHYLATION IN BREAST CANCER: THE WESTERN NEW YORK EXPOSURES AND BREAST CANCER (WEB) STUDY
Menghua Tao,¹ Jing Nie,¹ Amy Millen,¹ Christine Ambrosone,² Stephen B. Edge,² Catalin Marian,³ Janet Winston,¹ Dominica Vito,¹ Maurizio Trevisan,¹ Jo L. Freudenheim,¹ and Peter G. Shields³
¹State University of New York, Buffalo, ²Roswell Park Cancer Institute, Buffalo, and ³Lombardi Comprehensive Cancer Center

P39-14* ADH1B AND ADH1C HAPLOTYPE TAG SNPs: ASSOCIATIONS WITH BREAST CANCER RISK AND INTERACTIONS WITH ALCOHOL CONSUMPTION IN THE WESTERN NEW YORK EXPOSURES AND BREAST CANCER (WEB) STUDY
Catalin Marian,¹ Lara Sucheston,² Jing Nie,³ Amy Millen,³ David Goerlitz,¹ Maurizio Trevisan,³ Thomas Nocajski,³ Christine Ambrosone,² Alan Hutson,³ Stephen Edge,² Dominica Vito,³ Jo Freudenheim,³ and Peter G. Shields¹
¹Lombardi Comprehensive Cancer Center, ²Roswell Park Cancer Institute, Buffalo, and ³State University of New York, Buffalo

P39-15 GENETIC VARIATION IN ONE CARBON METABOLISM ENZYMES AND RISK OF BREAST CANCER: THE WESTERN NEW YORK EXPOSURES AND BREAST CANCER STUDY (WEB STUDY)
Mary Elizabeth Platek,¹ Jing Nie,¹ Catalin Marian,² Sylvia Quick,¹ Susan McCann,³ Matthew Bonner,¹ Christine Ambrosone,³ Maurizio Trevisan,¹ Stephen Edge,³ Jo L. Freudenheim,¹ and Peter G. Shields²
¹State University of New York, Buffalo, ²Lombardi Comprehensive

Cancer Center, and ³Roswell Park Cancer Institute, Buffalo

P39-16 SPECTRUM OF mtDNA SOMATIC MUTATIONS IN BREAST CANCER AND THEIR POTENTIAL SIGNIFICANCE EVALUATION
Duanjun Tan,¹ David S. Goerlitz,¹ Mary Platek,² Laura Albu,¹ Catalin Marian,¹ Jo Freudenheim,² and Peter G. Shields¹
¹Lombardi Comprehensive Cancer Center and ²State University of New York, Buffalo

P39-17* CLINICAL AND PATHOLOGIC CORRELATES IN BREAST CANCER BRAIN METASTASES: TISSUE MICROARRAY STUDIES
Komal Jhaveri,¹ Tatiana Nehhozina,¹ Alison Conlin,¹ Hsu Meier,¹ Johnson Melissa,¹ Sujata Patil,¹ Clifford Hudis,¹ Andrew Seidman,¹ Edi Brogi,¹ and Patricia Steeg²
¹Memorial Sloan-Kettering Cancer Center and ²National Cancer Institute

P39-18* GENE EXPRESSION ANALYSIS FOR PREDICTION OF EARLY BRAIN METASTASIS (BM) IN HER-2 POSITIVE BREAST CANCER PATIENTS (PTS)
Sunil S. Badve,¹ Renata Duchnowska,² Jacek Jassem,³ M. Thorat,⁴ Akira Morimiya,¹ George W. Sledge, Jr.,⁵ L. Li,¹ Wojciech Biernat,³ Cezary Szczylak,² and Patricia Steeg⁶
¹Indiana University, Indianapolis, ²Bermuda College, ³Augsburg College, ⁴Indiana University-Purdue University, Indianapolis, ⁵Indiana University School of Medicine, and ⁶National Cancer Institute

P39-19* ANTICANCER DRUG UPTAKE AND DISTRIBUTION IN MDA-MB-231BR BRAIN METASTASES OF BREAST CANCER
Quentin R. Smith,¹ Vinay Rudraraju,¹ Kunal Taskar,¹ Julie A. Gaasch,¹ Rajendar K. Mittapalli,¹ Kaci A. Bohn,¹ Diane Palmieri,²

Paul R. Lockman,¹ and Patricia Steeg²
¹Texas Tech University Health Sciences Center, Amarillo and ²National Cancer Institute

P39-20* PRECLINICAL STUDIES IN SUPPORT OF THE USE OF VORINOSTAT (SAHA) FOR THE TREATMENT OF BRAIN METASTASES OF BREAST CANCER

Diane Palmieri,¹ Emily Hua,¹ Julie Bronder,² Yongzhen Qian,¹ Eleazar Vega-Valle,¹ Jeanne Herring,¹ David Liewehr,¹ Seth Steinberg,¹ and Patricia Steeg¹
¹National Cancer Institute and ²National Institutes of Health

P39-21* LAPATINIB PREVENTS METASTATIC COLONIZATION OF EGFR+ AND HER-2+ BREAST CANCER CELLS

Brunilde Gril, Diane Palmieri, Emily Hua, Eleazar Vega-Valle, Jeanne Herring, Lionel Feigenbaum, David J. Liewehr, Seth M. Steinberg, Tona M. Gilmer, Stephen D. Rubin, and Patricia Steeg
National Cancer Institute

P39-22* BRAINMETSB.C.ORG: EVALUATION OF A NEW RESOURCE FOR BREAST CANCER PATIENTS WITH BRAIN METASTASES

Musa Mayer,¹ Helen Schiff,² and Patricia Steeg³
¹AdvancedBC.org, ²SHARE: Self Help for Women with Breast and Ovarian Cancer, and ³National Cancer Institute

P39-23 TUMOR CELL:MICROENVIRONMENTAL INTERACTION IN A XENOGRAFT MODEL OF BREAST CANCER BRAIN METASTASIS AND PIGMENT EPITHELIUM-DERIVED FACTOR AS A SUPPRESSOR OF BRAIN METASTASIS

Daniel Fitzgerald, Diane Palmieri, Yongzhen Qian, Eleazar Vega-Valle, Sean Davis, Susan Garfield, Paul Meltzer, Jeanne Herring, and Patricia Steeg
National Cancer Institute

P39-24 ABSTRACT WITHDRAWN

P39-25 HEXOKINASE-2 IS A KEY THERAPEUTIC TARGET IN BRAIN METASTASIS DERIVED FROM BREAST CANCER

Martin Shreeve,¹ Diane Palmieri,¹ Emily K. Hua,¹ Matthew M. Johnson,¹ Kenneth D. Aldape,² Gary L. Davis,³ Christina M. Hoffmann,³ Seth M. Steinberg,¹ and Patricia Steeg¹

¹National Cancer Institute,
²M. D. Anderson Cancer Center,
University of Texas, and ³Sigma-Aldrich Company

P39-26 INHIBITION OF SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 3 ACTIVATION SUPPRESSES THE BRAIN METASTASES OF MDA-MB-231-BR CELLS IN NUDE MICE

Suyun Huang,¹ Feng-Ju Huang,² Ping-Chieh Chou,¹ Raymond Sawaya,¹ and Patricia Steeg³
¹M. D. Anderson Cancer Center,
University of Texas, ²Burnham Institute, and ³National Cancer Institute

P39-27 EX VIVO SINGLE CELL MRI WITH FIESTA: QUANTITATIVE BENEFITS OF 3T OVER 1.5T

Ann F. Chambers,¹ Soha S. Ramadan,² Chris Heyn,² Brian K. Rutt,² Paula J. Foster,² and Patricia Steeg³
¹London Regional Cancer Centre,
²Robarts Research Institute, London, Ontario, and ³National Cancer Institute

P39-28 MONITORING THE FATE OF SOLITARY METASTATIC CELLS IN MOUSE BRAIN USING MAGNETIC RESONANCE IMAGING

Ann F. Chambers,¹ Jason L. Townson,² Ayman J. Oweida,³ Soha Ramadan,³ Lisa T. MacKenzie,¹ Carmen Simedrea,¹ Brian K. Rutt,³ Paula J. Foster,³ and Patricia Steeg⁴
¹London Regional Cancer Centre, ²Virginia Commonwealth University Medical College of Virginia Massey Cancer Center, ³Robarts Research Institute, London, Ontario, and ⁴National Cancer Institute

P39-29 AN IN VITRO MODEL OF METASTATIC BREAST CANCER CELL EXTRAVASATION THROUGH ENDOTHELIAL CELL MONOLAYERS

Janet Price,¹ Tatsuaki Ishiguro,¹ Irene Newsham,¹ and Patricia Steeg²
¹M. D. Anderson Cancer Center, University of Texas and ²National Cancer Institute

P39-30 EFFICACY OF ENHANCED DELIVERY OF TRASTUZUMAB-AURISTATIN IMMUNOCONJUGATES IN A RAT MODEL OF BREAST CANCER BRAIN METASTASIS

Edward A. Neuwelt,¹ Leslie L. Muldoon,¹ Michael A. Pagel,¹ Diane Palmieri,² and Patricia Steeg²
¹Oregon Health & Science University and ²National Cancer Institute

P39-31 ErbB2 OVEREXPRESSION AND PTEN-LOSS COOPERATE TO FURTHER ENHANCE BREAST CANCER BRAIN METASTASIS

Dihua Yu,¹ Siyuan Zhang,¹ Ping Li,¹ Zhaoxi Ding,¹ Menghong Sun,¹ Diane Palmieri,² Kenneth Aldape,¹ Janet Price,¹ Feng-Ju Huang,¹ Suyun Huang,¹ and Patricia Steeg²
¹M. D. Anderson Cancer Center, University of Texas and ²National Cancer Institute

P39-32 METASTASIZING BREAST CARCINOMA TO THE BRAIN: A CLINICOPATHOLOGIC AND IMMUNOHISTOCHEMICAL STUDY OF 14 MATCHED PAIRS

Eyas M. Hattab,¹ Sohaib M. Al-Khatib,² Liang Cheng,² and Patricia Steeg³
¹Indiana University School of Medicine, ²Indiana University, Indianapolis, and ³National Cancer Institute

P39-33 BLOOD-TUMOR BARRIER PERMEABILITY AND VASCULARITY IN A MODEL OF BRAIN METASTASES OF BREAST CANCER

Paul R. Lockman,¹ Kaci A. Bohn,¹ Rajendar K. Mittapalli,¹ Vinay Rudraraju,¹ Kunal Taskar,¹ Julie A.

Gaasch,¹ Diane Palmieri,² Quentin R. Smith,¹ and Patricia Steeg²

¹Texas Tech University Health Sciences Center, Amarillo and ²National Cancer Institute

P39-34 ROLE OF YKL-40 IN MESENCHYMAL TRANSITION AND BREAST TO BRAIN METASTASIS

Kenneth Aldape,¹ Krishna Bhat,¹ Christopher Pelloski,¹ Nuhad Ibrahim,¹ Dima Suki,¹ Bryan Hennessy,¹ William F. Symmans,¹ Raymond Sawaya,¹ and Patricia Steeg²
¹M. D. Anderson Cancer Center, University of Texas and ²National Cancer Institute

P39-35 PHYSICAL AND MENTAL HEALTH STATUS OF YOUNG BREAST CANCER PATIENTS DURING THE FIRST 3 YEARS FOLLOWING DIAGNOSIS

Michelle J. Naughton,¹ L. Douglas Case,¹ Kimberly Van Zee,² Eva Singletary,³ Electra Paskett,⁴ and Elizabeth Naftalis⁵

¹Wake Forest University School of Medicine, ²Memorial Sloan-Kettering Cancer Center, ³M. D. Anderson Cancer Center, University of Texas, ⁴Ohio State University, and ⁵University of Texas Southwestern Medical Center at Dallas

P39-36 EXPLAINING AGE ASSOCIATED DIFFERENCES IN PSYCHOLOGICAL MORBIDITY FOLLOWING A BREAST CANCER DIAGNOSIS

Nancy Avis,¹ L. Douglas Case,¹ Michelle J. Naughton,² Kimberly Van Zee,³ and Elizabeth Naftalis⁴

¹Wake Forest University School of Medicine, ²Wake Forest University, ³Memorial Sloan-Kettering Cancer Center, and ⁴University of Texas Southwestern

P39-37 INTRUSIVE SYMPTOMS AMONG WOMEN WITH BREAST CANCER: THE ROLE OF CHILDHOOD ABUSE

Rachel Goldsmith,¹ Lina Jandorf,¹ Heiddis Valdimarsdottir,¹ Kandace Amend,¹ Brett Stoudt,¹ Christine Rini,¹ Dawn Hershman,² Alfred Neugut,³ James Reilly,¹ Paul Tartter,⁴ Sheldon Feldman,⁵

Christine Ambrosone,¹ and Dana Bovbjerg¹

¹Mount Sinai School of Medicine, New York, ²Columbia University Medical Center, ³Columbia University, ⁴St. Luke's-Roosevelt Hospital Center, and ⁵Beth Israel Medical Center, New York

P39-38 DEVELOPMENT OF A STRUCTURED PATHOLOGY TOOL FOR BREAST CANCER CARE AND RESEARCH

Laura Esserman,¹ Shelley Hwang,¹ Ann Griffin,² Edward Mahoney,¹ Yunn-Yi Chen,¹ and Joe Rabban²

¹University of California, San Francisco and ²University of California, San Francisco Comprehensive Cancer Center

P39-39* BLUEPRINT FOR REGIONAL EXCELLENCE IN BREAST CANCER CARE

Laura Esserman,¹ Michael Hogarth,¹ Michelle Melisko,¹ Shelley Hwang,¹ Cheryl Ewing,¹ Elly Cohen,¹ Jeff Belkora,¹ Elissa Ozanne,² Hope Rugo,¹ Susil Rayamajhi,¹ Ed Mahoney,¹ Michael Kamerick,¹ Meridithe Mendelsohn,¹ and John Park³

¹University of California, San Francisco, ²Breast Cancer Action, and ³University of California, San Francisco Comprehensive Cancer Center

P40 HBCU/MI Partnership Training Awards II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P40-1* CHARACTERIZATION OF TUMOR SUBTYPES IN AFRICAN AMERICAN AND LATINA BREAST CANCER PATIENTS IN SOUTH LOS ANGELES

Jaydutt Vadgama,¹ Yanyuan Wu,¹ Aye Aye Thant,¹ Hezla Mohamed,¹ Ram Chillar,¹ Sheila Clayton,¹ and Dennis Slamon²

¹Charles R. Drew University of Medicine and Science and ²University of California, Los Angeles

P40-2* AKT AND HER2 OVEREXPRESSION IN AFRICAN AMERICAN AND LATINA PATIENTS WITH BREAST CANCER

Yanyuan Wu,¹ Hezla Mohamed,¹ Ram Chillar,¹ Ishrat Ali,¹ Sheila Clayton,¹ Dennis Slamon,² and Jaydutt Vadgama¹

¹Charles R. Drew University of Medicine and Science and

²University of California, Los Angeles

P40-3* TARGETED DCE-MRI FOR IMAGING AND CHARACTERIZATION OF SOLID TUMOR XENOGRAFTS

Alexandru V. Korotcov,¹ Liang Shan,¹ Songping Wang,¹ Tongxin Wang,² Rajagopalan Sridhar,² Zaver M. Bhujwalla,³ and Paul C. Wang¹

¹Howard University, ²Howard University Hospital Cancer Center, and ³Johns Hopkins University School of Medicine

P40-4 TARGETED FLUORESCENT LIPOSOME NANOPARTICLES FOR MOLECULAR IMAGING OF BREAST CANCER XENOGRAFTS IN MOUSE

Liang Shan,¹ Songping Wang,¹ Yanfei Zhou,¹ Alexandru V. Korotcov,¹ RenShu Zhang,² Tongxin Wang,² Rajagopalan Sridhar,² Zaver M. Bhujwalla,³ and Paul C. Wang¹

¹Howard University, ²Howard University Hospital Cancer Center, and ³Johns Hopkins University School of Medicine

P40-5 SURFACE COATING AND BIOCONJUGATION OF QUANTUM DOTS FOR NON-INVASIVE DETECTION OF BREAST CANCER

Tongxin Wang,¹ Liang Shan,² Alexandru V. Korotcov,² Songping Wang,² Yanfei Zhou,² and Paul C. Wang²

¹Howard University Hospital Cancer Center and ²Howard University

P40-6 OPTICAL IMAGING OF AN EX VIVO MODEL CANCEROUS HUMAN BREAST USING INDEPENDENT COMPONENT ANALYSIS

Swapan Kumar Gayen,¹ Mohammad Alrubaiee,¹ Min Xu,² and Robert R. Alfano¹

¹City University of New York, City College of New York and ²Fairfield University

P40-7 BIOLUMINESCENCE IMAGING FOR MONITORING THE RESPONSE OF A LUCIFERASE TRANSFECTED HUMAN BREAST CANCER CELL LINE SUBJECTED TO HYPERHERMIA

Rajagopalan Sridhar,¹ RenShu Zhang,¹ Yanfei Zhou,² Liang Shan,² Ebrahim Ashayeri,¹ and Paul C. Wang²

¹Howard University Hospital Cancer Center and ²Howard University

P40-8 PSYCHOSOCIAL CORRELATES OF MAMMOGRAPHY SCREENING IN OLDER AFRICAN AMERICAN WOMEN

Bobbie K. Reddick and Deborah Farmer
Winston-Salem State University

P40-9 A COMPREHENSIVE VALIDATION ANALYSIS FOR DIGITAL MAMMOGRAPHY SEGMENTATION ALGORITHMS

Kenneth A. Byrd, Jianchao Zeng, and Mohamed Chouikha
Howard University

P40-10 PRELIMINARY STUDY ON NORMAL MAMMOGRAM CHARACTERIZATION

Mona Elshinawy, Jianchao Zeng, and Mohamed Chouikha
Howard University

*Symposia Session

P41 Translational Research Awards II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P41-1 VEGF, AN ANTIANGIOGENIC CYTOKINE, STIMULATES DENDRITIC CELL MATURATION

Luyuan Li
University of Pittsburgh School of Medicine

P41-2 A LONG JOURNEY FROM THE LABORATORY DISCOVERY TO CLINICAL TRIALS: TALE OF ENDOLIN, A MARKER OF TUMOR VASCULATURE

Ben K. Seon, Hirofumi Toi, Masanori Tsujie, Tomoko Tsujie, Naoko Harada, Shima Uneda, and Hilda Tsai
Roswell Park Cancer Institute, Buffalo

P41-3 BREAST DENSITY MEASURED BY FOUR DIFFERENT METHODS IS INDEPENDENTLY PREDICTED BY BODY FAT COMPOSITION AND DISTRIBUTION, HISPANIC ETHNICITY, NUMBER OF PREGNANCIES, AND INDICES OF LIVER FUNCTION

Lee Jane W. Lu, Tuanchit Khamapirad, Karl E. Anderson, Donald G. Brunder, James J. Grady, Thomas K. Nishino, and Manubai Nagamani
University of Texas Medical Branch, Galveston

P41-4* RESIDUAL CANCER BURDEN AFTER NEOADJUVANT TAXANE-ANTHRACYCLINE CHEMOTHERAPY IS INDEPENDENTLY PROGNOSTIC IN EVERY PHENOTYPIC SUBSET OF BREAST CANCER

William Symmans, Florentia Peintinger, Christos Hatzis, Rebekah Hubbard, Henry M. Kuerer, Vicente Valero, Aman U. Buzdar, Gabriel N. Hortobagyi, and Lajos Pusztai
M. D. Anderson Cancer Center, University of Texas

P41-5 FLUORODEOXYCYTIDINE INHIBITS DNA METHYLATION AND INDUCES EXPRESSION OF TWIST1 IN THE HUMAN BREAST CANCER CELL LINE MDA-MB 231

Edward M. Newman, Chun Li, and Doris G. Villacorte
City of Hope Beckman Research Institute

P41-6* REPRODUCIBILITY OF GENOME-SCALE CHEMOSensitivity SIGNATURES ON BIOLOGIC REPLICATE BREAST CANCER SAMPLES

Paul Kelly Marcom,¹ William T. Barry,² Mike Datto,¹ Joseph Geraerts,¹ John Olson,¹ Traci Foster,¹ Holly Dressman,³ Geoffrey Ginsburg,³ Joseph R. Nevins,³ and Anil Potti¹
¹Duke University Medical Center, ²Duke Comprehensive Cancer Center, and ³Duke University

P41-7 MEMBERS OF A GENE FAMILY OF SMALL INTEGRIN BINDING PROTEINS ARE INFORMATIVE SERUM MARKERS FOR DIFFERENT PHASES OF BREAST CANCER PROGRESSION

Neal Fedarko,¹ Alka Jain,¹ and Larry W. Fisher²
¹Johns Hopkins University School of Medicine and ²National Institutes of Health

P41-8 CIRCULATING CA27.29 AND MAMMAGLOBIN IDENTIFY METASTASES PRIOR TO CLINICAL RECURRENCE IN A PROSPECTIVE STUDY

Kathryn Verbanac,¹ Ann Mannie,¹ Jianfen Lu,¹ Timothy Fleming,² Brian Nolan,³ Anna Lokshin,³ and Lorraine Tafra⁴
¹East Carolina University Brody School of Medicine, ²Washington University in St. Louis - School of Medicine, ³University of Pittsburgh, and ⁴Anne Arundel Medical Center

P41-9 GENOMIC EXPRESSION PROFILES TO DIRECT THE USE OF PREOPERATIVE CHEMOTHERAPY FOR EARLY-STAGE BREAST CANCER: PROTOCOL AND INFRASTRUCTURE DEVELOPMENT

Paul Kelly Marcom,¹ Anil Potti,¹ Michael Datto,¹ John Olson,¹ William Barry,² Joseph Geraerts,¹ Holly Dressman,³ Jeffrey Marks,¹ Traci Foster,¹ Lawrence Marks,¹ Sujata Ghate,¹ Robert Annechiarico,² Kirk Gray,² Geoff Ginsburg,³ and Joseph Nevins³
¹Duke University Medical Center, ²Duke Comprehensive Cancer Center, and ³Duke University

P42 Detection and Diagnosis II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P42-1 NEAR-INFRARED FLUOROPHORE-LABELED TISSUE TRANSGLUTAMINASE SUBSTRATES FOR TUMOR BOUNDARY IMAGING

Chia-Pin Pan, Khalid Amin, Yihui Shi, Stephanie Olson, Jeanne P. Haushalter, Charles S. Greenberg, Zishan Haroon, and Gregory Faris
SRI International

P42-2 POLYMER ASSEMBLY IN TUMORS TO DETECT BREAST CANCER

Yashveer Singh, Dayuan Gao, Patrick J. Sinko, and Stanley Stein
Rutgers University, New Brunswick

P42-3 HER2/neu-TARGETED GOLD NANOPARTICLES CONTRAST AGENTS FOR MAMMOGRAPHY AND TOMOSYNTHESIS

Roshan Karunamuni, Anatoliy V. Popov, Hui Qiao, So-Jung Park, and Andrew D. A. Maidment
University of Pennsylvania

P42-4 IMAGING OF EP-CAM POSITIVE METASTATIC CANCER IN THE LYMPH SYSTEM

Kristen Emily Adams and Eva M. Sevick
Baylor College of Medicine

*Symposia Session

P42-5	PET-MRI DUAL MODALITY TUMOR IMAGING USING CONJUGATED RADIOLABELED IRON OXIDE NANOPARTICLES Xiaoyuan Chen and Ha-Young Lee <i>Stanford University School of Medicine</i>	P42-11	MULTI-PROJECTION CORRELATION IMAGING AS A NEW DIAGNOSTIC TOOL FOR IMPROVED BREAST CANCER DETECTION Amarpreet Chawla <i>Duke University</i>	P42-18	COMPUTER-ASSISTED MAMMOGRAPHY FEEDBACK PROGRAM (CAMFP): AN ELECTRONIC TOOL FOR CONTINUING MEDICAL EDUCATION Kim Lowe and Nicole Urban <i>Fred Hutchinson Cancer Research Center</i>
P42-6	OPTIMIZING AN ELISA MICROARRAY PLATFORM FOR THE UTILIZATION AND DEVELOPMENT OF MULTIPLEX BREAST CANCER SCREENING Rachel Gonzalez, ¹ Shannon Servoss, ² Susan Varnum, ¹ Amanda White, ¹ Jim Collett, ¹ Gil Omenn, ³ Daniel Hayes, ³ and Richard Zangar ¹ ¹ <i>Pacific Northwest National Laboratory</i> , ² <i>University of Arkansas, Fayetteville</i> , and ³ <i>University of Michigan Cancer Center</i>	P42-12	IMPROVED MASS DETECTABILITY IN DEDICATED BREAST CT BY APPLYING NOVEL VOLUME NOISE REMOVAL TECHNIQUES Anuj Kapadia, ¹ Joseph Y. Lo, ² and Jessie Xia ² ¹ <i>Duke University</i> and ² <i>Duke University Medical Center</i>	P42-19*	OPTIMIZATION OF A DUAL-ENERGY CONTRAST-ENHANCED TECHNIQUE FOR A PHOTON COUNTING DIGITAL BREAST TOMOSYNTHESIS SYSTEM Ann-Katherine Carton, ¹ Karin Lindman, ² Christer Ullberg, ² Tom Francke, ² and Andrew D. A. Maidment ¹ ¹ <i>University of Pennsylvania</i> and ² <i>XCounter AB</i>
P42-7	INTRADUCTAL APPROACH TO BREAST CANCER: UTILIZING DUCTAL LAVAGE TO INVESTIGATE THE RESTING BREAST Susan Love, ¹ Dixie Mills, ¹ Ashley Casano, ¹ Julie Tondre, ² and Jianyu Rao ² ¹ <i>Dr. Susan Love Research Foundation</i> and ² <i>University of California, Los Angeles</i>	P42-13	DEVELOPMENT OF MODALITY-INDEPENDENT ELASTOGRAPHY AS A METHOD OF BREAST CANCER DETECTION Jao Ou and Michael I. Miga <i>Vanderbilt University</i>	P42-20*	DEVELOPMENT AND OPTIMIZATION OF A DEDICATED, HYBRID DUAL-MODALITY SPECT-CMT SYSTEM FOR IMPROVED BREAST LESION DIAGNOSIS Priti Madhav ¹ and Martin Tornai ² ¹ <i>Duke University Medical Center</i> and ² <i>Duke University</i>
P42-8*	DEVELOPMENT AND CHARACTERIZATION OF A DEDICATED COMPUTED MAMMOTOMOGRAPHY SYSTEM Randolph L. McKinley <i>Duke University</i>	P42-14	COMPARISON OF MOLECULAR BREAST IMAGING AND BREAST MRI FOR DIAGNOSTIC AND SCREENING APPLICATIONS Carrie Beth Hruska, Michael K. O'Connor, Deborah J. Rhodes, and Stephen W. Phillips <i>Mayo Clinic and Foundation, Rochester</i>	P42-21	ACCURATE 3D MODELING OF BREAST DEFORMATION FOR TEMPORAL MAMMOGRAM REGISTRATION Xuejun Sun and Dmitry Goldgof <i>University of South Florida</i>
P42-9	PHASE APPROXIMATION FOR FLUORESCENCE-ENHANCED BREAST CANCER TOMOGRAPHY Ge Wang, ¹ Alex Cong, ² Wx Cong, ² Ho Shen, ² and Lizhi Sun ² ¹ <i>Virginia Polytechnic Institute and State University</i> and ² <i>University of Iowa</i>	P42-15*	IN VIVO OPTICAL IMAGING FOR CANCER DETECTION USING INSPIRATORY CONTRAST Gregory Faris, Sanhita S. Dixit, Khalid Amin, Kenneth T. Kotz, and Jaun Orduna <i>SRI International</i>	P42-22	POLARIZED X-RAY BEAM SYSTEM FOR MAMMOGRAPHY Carolyn MacDonald and Robert Schmitz <i>State University of New York, Albany</i>
P42-10	THREE-DIMENSIONAL COMPUTER-GENERATED BREAST PHANTOM BASED ON EMPIRICAL DATA Christina Li, ¹ W. Paul Segars, ¹ Alexander I. Veress, ² John M. Boone, ³ and James T. Dobbins ¹ ¹ <i>Duke University Medical Center</i> , ² <i>University of Utah</i> , and ³ <i>University of California, Davis Medical Center</i>	P42-16	OPTICAL TOMOGRAPHY USING INDEPENDENT COMPONENT ANALYSIS Min Xu, ¹ Mohammad Alrubaei, ² Swapan Kumar Gayen, ² and Robert R. Alfano ² ¹ <i>Fairfield University</i> and ² <i>City University of New York, City College of New York</i>	P42-23	WIDE SLOT COHERENT SCATTER IMAGING Carolyn MacDonald and Wei Zhou <i>State University of New York, Albany</i>
P42-17		P42-17	NEAR-INFRARED TIME-RESOLVED AND SPECTROSCOPIC IMAGING FOR BREAST CANCER DETECTION Mohammad Alrubaei, Swapan Kumar Gayen, and Robert R. Alfano <i>City University of New York, City College of New York</i>	P42-24	INVESTIGATION OF IMAGING CONFIGURATIONS AND RECONSTRUCTION ALGORITHMS FOR DIGITAL BREAST TOMOSYNTHESIS Dan Xia, Emil Y. Sidky, Ingrid Reiser, Robert Nishikawa, and Xiaochuan Pan <i>University of Chicago</i>

*Symposia Session

P42-25 COMPARISON AND OPTIMIZATION OF DIGITAL BREAST TOMOSYNTHESIS IMAGE RECONSTRUCTION ALGORITHMS AND IMAGING ACQUISITION PARAMETERS

Ying Chen,¹ Joseph Y. Lo,² and James T. Dobbins, III²

¹Southern Illinois University and ²Duke University Medical Center

P42-26 COMPUTER-AIDED DETECTION OF BREAST MASSES IN DIGITAL TOMOSYNTHESIS

Anuj Kapadia,¹ Joseph Lo,² and Swatee Singh¹

¹Duke University and ²Duke University Medical Center

P42-27 LOSS OF JNK2 SHORTENS TUMOR LATENCY AND ENHANCES TUMOR MULTIPLICITY VIA DNA DAMAGE AND ANEUPLOIDY-MEDIATED RESPONSES

Carla VanDenBerg, Jamye O'Neal, Peila Chen, Shreya Mitra, and Micheal Cantrell

University of Texas at Austin

P42-28 L1 ELEMENTS AND GENETIC INSTABILITY IN BREAST CANCER

Prescott Deininger, Stephen Gasior, and Victoria P. Belancio

Tulane University

P42-29 EXTRACELLULAR MATRIX SIGNALING VIA β 1 INTEGRIN REGULATES DNA DOUBLE-STRAND BREAK REPAIR

Aylin Rizki,¹ Bjorn Rydberg,¹ Hui Zhang,¹ Maria Jasin,¹ and Mina Bissell²

¹Virginia Commonwealth University and ²Lawrence Berkeley National Laboratory

P42-30 NON-HOMOLOGOUS END JOINING IS ESSENTIAL FOR CELLULAR RESISTANCE TO THE NOVEL ANTITUMOR AGENT, β -LAPACHONE

David A. Boothman
University of Texas Southwestern Medical Center at Dallas

P42-31 Brh2-Dss1 INTERPLAY ENABLES PROPERLY CONTROLLED RECOMBINATION IN *Ustilago maydis*

William Holloman
Cornell University, Weill Medical College

P42-32 FUNCTIONAL INTERACTION OF THE TUMOR SUPPRESSORS p53 AND BARD1 WITH THE POLYADENYLATION FACTOR CstF-50

Fathima Nazeer,¹ Danae Fonseca,¹ Bernadine Akukwe,¹ and Frida Kleiman²
¹City University of New York, Hunter College and ²City University of New York

P42-33 DSS1, A BRCA2- AND PROTEASOME-ASSOCIATED PROTEIN, REGULATES HOMOLOGOUS RECOMBINATIONAL REPAIR OF CHROMOSOME BREAKS IN HUMAN CELLS

Mark Brenneman, Colleen Kristensen, Karin M. Bystol, and Lourdes Serrano
Rutgers University, New Brunswick

P42-34 FUNCTIONAL CHARACTERIZATION OF BREAST CANCER-ASSOCIATED MISSENSE MUTANTS OF ATAXIA-TELANGIECTASIA MUTATED

Ben Hopkins
University of Texas at Austin

P42-35 p53 AND Xpc CONTRIBUTE SIGNIFICANTLY TO CELLULAR PROTECTION FROM DNA DAMAGE

Joshua Fischer
Indiana University School of Medicine

P42-36 FUNCTIONS OF ATRIP IN THE REGULATION OF THE DNA DAMAGE ACTIVATED KINASE ATR

Daniel Adam Mordes, Heather Ball, Mark Ehrhardt, Gloria Glick, Walter Chazin, and David Cortez
Vanderbilt University Medical Center

P42-37 HOMEOSTATIC REGULATION OF DNA DAMAGE RESPONSES BY THE WIP1 PHOSPHATASE

Thuy-Ai Tran Nguyen,¹ Xiongbin Lu,² and Lawrence A. Donehower¹

¹Baylor College of Medicine and

²University of South Carolina

P42-38 NEW HIGH-THROUGHPUT MICROSCOPY SCREEN REVEALS VARIATIONS IN THE RESPONSE OF BREAST CANCER-RELATED PROTEINS TO DIFFERENT CHEMOTHERAPEUTIC DRUGS

Brian Thomas Bennett,¹ Joerg Bewersdorf,² Mark D. Lessard,² Madeliene Craske,¹ Laura Rocco-Carpenter,¹ and Kendall L. Knight³
¹Active Motif, LLC, ²Jackson Laboratory, and ³University of Massachusetts Medical School

P42-39 GENES REGULATED BY THE HER2 RECEPTOR OF HUMAN BREAST CANCER CELLS

Daniel Mercola¹ and Tatsuya Azumi²

¹Sidney Kimmel Cancer Center and

²University of California, Irvine

P43 Magnetic Resonance Imaging II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P43-1* COMPUTER-AIDED DIAGNOSIS OF BREAST CANCER USING DCE-MRI: PRE-CLINICAL EVALUATION ON TWO INDEPENDENT CLINICAL DATA SETS

Weijie Chen,¹ Maryellen L. Giger,² and Gillian M. Newstead²

¹U.S. Food and Drug Administration, Rockville, MD and

²University of Chicago

P43-2* CLINICALLY PRACTICAL MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY PROTOCOL FOR IMPROVED SPECIFICITY IN BREAST CANCER DIAGNOSIS

Luminita Alina Tudorica,¹ Paul Ryan Fisher,¹ and Wei Huang²

¹State University of New York, Stony Brook and ²Memorial Sloan-Kettering Cancer Center

P43-3* A NOVEL MACROMOLECULAR CONTRAST AGENT BASED ON PARAMAGNETIC CHEMICAL EXCHANGE SATURATION TRANSFER (PARACEST) FOR BREAST CANCER STUDIES

Vikram D. Kodibagkar,¹ Praveen K. Gulaka,¹ Elena Vinogradov,² Zoltan Kovacs,¹ Eul-Hyun Suh,¹ and Dean Sherry¹

¹University of Texas Southwestern Medical Center at Dallas and ²Beth Israel Deaconess Medical Center

P43-4* METABOLITIC CHARACTERIZATION OF BREAST CANCER IN VIVO USING TWO-DIMENSIONAL MR SPECTROSCOPY

Xiaoyu Liu,¹ Scott Lipnick,² Nanette DeBruhl,² and Albert Michael Thomas¹

¹University of California, Los Angeles, David Geffen School of Medicine and ²University of California, Los Angeles

P43-5 AN ENZYME-RESPONSIVE PARACEST MRI CONTRAST AGENT THAT DETECTS CATHEPSIN B IN METASTATIC BREAST TUMORS

Mark Pagel
Case Western Reserve University

P43-6 DEVELOPMENT OF CELL-TYPE-SPECIFIC CONTRAST AGENTS FOR MAGNETIC RESONANCE IMAGING OF BREAST TUMORS

Anton Chestukhin
Physical Sciences, Inc.

P43-7* MULTIMODAL IMAGING OF BREAST CANCER IN GENETICALLY ENGINEERED MOUSE MODELS

Minghua Xu, Lewis A. Chodosh, Alexander J. Stoddard, Kathleen Notarfrancesco, Katherine D. Dugan, George K. Belka, Dcruz Celina, Lin Li, Valentina Circiumaru, Stephen Pickup, Mitchell D. Schnall, Abass Alavi, Joel Karp, and Paul Acton
University of Pennsylvania

P43-8* COMBINED ANATOMICAL AND BIOCHEMICAL CHARACTERIZATION OF BREAST CANCER

Michael Albert Thomas,¹ Scott Lipnick,² Xiaoyu Liu,¹ Nanette DeBruhl,² and Lawrence Bassett²
¹University of California, Los Angeles, David Geffen School of Medicine and ²University of California, Los Angeles

P43-9 MOLECULAR MR IMAGING OF PROTEASE ACTIVITY IN BREAST CANCER WITH ACTIVATED CONTRAST AGENTS

Dmitri Artemov and Yoshinori Kato
Johns Hopkins University School of Medicine

P44-4* MR IMAGING OF ULTRASENSITIVE, BREAST CANCER TARGETING SUPERPARAMAGNETIC POLYMERIC MICELLES IN VIVO

Chalermchai Khemtong, Chase W. Kessinger, Erik A. Bey, David A. Boothman, and Jinming Gao
University of Texas Southwestern Medical Center at Dallas

P44-5* ULTRASENSITIVE MULTIMODALITY IN VIVO IMAGING USING NANOPARTICLES

Fanqing Chen,¹ Julie Herberg,² Daniele Gerion,³ Louis Bouchard,³ Sabieh Anwar,³ Byron Hann,⁴ Gang L. Liu,² Harry Z. Xie,⁵ Robert Bok,⁴ Erica Gjersing,² John Kurhanewicz,⁴ Xueding Wang,⁶ Alex Pines,³ and Joe Gray¹

¹Lawrence Berkeley National Laboratory, ²Lawrence Livermore National Laboratory, ³University of California, Berkeley, ⁴University of California, San Francisco, ⁵Bruker Optics, Inc., and ⁶University of Michigan

P44-6 LUMINESCENT ORGANIC NANOPARTICLES FOR BREAST CANCER DETECTION AND IMAGING

Timothy M. Swager
Massachusetts Institute of Technology

P44-7 MULTIFUNCTIONAL APPLICATIONS OF GOLD-PHAGE NANOSHUTTLES

Glauco Souza, Wadih Arap, Wadih Arap, Renata Pasqualini, and Renata Pasqualini
M. D. Anderson Cancer Center, University of Texas

P44-8 FLUORESCENT CARBON DOTS AND BIOIMAGING APPLICATIONS

Ya-Ping Sun
Clemson University

P44-9 SYNTHESIS AND OPTICAL SPECTROSCOPIC PROPERTIES OF MULTIVALENT AND BIOCOMPATIBLE HYBRID CADMIUM SULFIDE-DENDRIMER NANOCOMPOSITES

Valeria Balogh-Nair, Andrew Byro, Flory Wang, Ronex Muthukattil, Yiu Fat Tse, Hanh Nguyen, Bidyut

*Symposia Session

Baran Das, Robert R. Alfano, and Swapan Kumar Gayen <i>City University of New York, City College of New York</i>	P45-2* EFFECT OF HIGH ω-3 FATTY ACID DIET ON MARKERS OF BREAST CANCER RISK IN POSTMENOPAUSAL WOMEN Lindsay Rae Orr, J. Bruce Redmon, Mindy S. Kurzer, and Susan K. Raatz <i>University of Minnesota, Twin Cities</i>	P45-8 INHIBITION OF MYOSTATIN FAILS TO INHIBIT MUSCLE WASTING IN CANCER CACHEXIA Teresa A. Zimmers, Tufan Aydogdu, Majik A. Link, Shanchun Guo, and Leonidas G. Koniaris <i>University of Miami, School of Medicine</i>
P44-10 RADIOPAQUE, TUMOR-TARGETED NANOPARTICLES FOR IMPROVED MAMMOGRAPHIC DETECTION OF BREAST CANCER Gregory Adams <i>Fox Chase Cancer Center</i>	P45-3 THE MECHANISTIC ROLE OF IODINE IN BREAST CARCINOGENESIS Keisuke Iwamoto <i>University of California, Los Angeles</i>	P45-9 RATIONALE AND DESIGN OF A RANDOMIZED, CONTROLLED TRIAL INVESTIGATING THE EFFECTS OF AEROBIC EXERCISE ON TUMOR VASCULARITY AND RESPONSE TO NEOADJUVANT THERAPY IN OPERABLE BREAST CANCER PATIENTS Lee Jones, Bercedis Peteson, Paul Kelly Marcom, Kimberly Blackwell, William Kraus, Jason Allen, Jay Baker, and Mark Dewhirst <i>Duke University Medical Center</i>
P44-11 TARGETING QUANTUM DOTS TO TUMORS USING ADENOVIRAL VECTORS Maaike Everts, Jill M. Warren, Ryan G. Beam, and Vaibhav Saini <i>University of Alabama at Birmingham</i>	P45-4 ALTERED MUTATION LOAD IN ADIPOSE TISSUE IN BIG BLUE MICE WITH CHRONIC CONSUMPTION OF DIETARY ANIMAL FATS Steve Sommer, Jicheng Wang, Kathleen A. Hill, Becky Tsai, Kelly Gonzalez, Ning Liu, Nya Nelson, and William A. Scaringe <i>City of Hope Medical Center</i>	P45-10 ROLES OF IRON DEFICIENCY AND OVERLOAD IN BREAST CANCER OUTCOMES OF PRE- AND POST-MENOPAUSAL WOMEN
P44-12 ALTERNATIVE METHODS OF IMAGING MAGNETIC NANOPARTICLES John Weaver, Adam M. Rauwerdink, Charles R. Sullivan, B. Stuart Trembly, and Ian Baker <i>Dartmouth College</i>	P45-5 FOLATE AND DNA METHYLATION IN A MOUSE MODEL OF BREAST CANCER Joshua W. Miller, ¹ Alexander D. Borowsky, ² Teresa C. Marple, ¹ and Ralph Green ¹ ¹ <i>University of California, Davis</i> and ² <i>University of California, Davis Medical Center</i>	Xi Huang <i>New York University School of Medicine</i>
P44-13 NOVEL SIGNAL TRANSDUCTION SYSTEMS FOR NON-INVASIVE BREAST CANCER SCREENING Joerg Lahann <i>University of Michigan, Ann Arbor</i>	P45-6 ADIPOSE STEM CELLS AS POTENTIAL PROMOTERS OF BREAST CANCER PROGRESSION Yan Zhang and Mikhail Kolonin <i>University of Texas Health Science Center at Houston</i>	P45-11 INHIBITION OF MAMMARY TUMORIGENESIS BY DIETARY PHYTOCHEMICALS Sudha Kondraganti <i>Baylor College of Medicine</i>
P45-1* ACTIVATION OF STAT5 AND INDUCTION OF A PREGNANCY-LIKE MAMMARY GLAND DIFFERENTIATION BY EICOSAPENTAENOIC AND DOCOSAPENTAENOIC ω-3 FATTY ACIDS Yuenian Eric Shi, ¹ Yiliang E. Liu, ¹ Weiping Pu, ¹ Jingdong Wang, ² and Jing X. Kang ² ¹ <i>Feinstein Institute for Medical Research</i> and ² <i>Massachusetts General Hospital</i>	P45-7 PREGNANCY WEIGHT GAIN, HORMONE AND GROWTH FACTOR LEVELS, AND BIOMARKERS OF BREAST CANCER RISK IN NIPPLE ASPIRATE FLUID Sonia De Assis, ¹ Wei Yu, ¹ Marie Lof, ² Elisabete Weiderpass, ² and Leena Hilakivi-Clarke ¹ ¹ <i>Georgetown University Medical Center</i> and ² <i>Karolinska Institute</i>	P45-12 OBESITY AND PERINATAL TCDD EXPOSURE INCREASES MAMMARY TUMOR INCIDENCE IN FVB MICE Michele A. La Merrill, ¹ Rachel Harper, ¹ Linda S. Birnbaum, ¹ Robert D. Cardiff, ² and David W. Threadgill ¹ ¹ <i>University of North Carolina at Chapel Hill</i> and ² <i>University of California, Davis</i>
		P45-13* MODIFICATION OF BRCA1 BREAST CANCER RISK BY COFFEE Andrew Nelson and Jeffrey Holt <i>University of Colorado Denver, Health Sciences Center</i>

*Symposia Session

P46 Epidemiology II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM**P46-1*** IS BI-ILIAC BREADTH A PREDICTOR OF EARLY MENARCHE?Loic Le Marchand,¹ Rachel Novotny,² John S. Grove,¹ Vinutha Vijayadeva,¹ and Yihe G. Daida¹¹*University of Hawaii and ²Kaiser Foundation Research Institute***P46-2 ARE OLDER PERSONS DIFFERENT? RESULTS OF THE BREAST CANCER INTERNET INFORMATION AND SUPPORT (BCIIS) STUDY**Ruth McCorkle, Sheryl LaCoursiere, Cynthia Brandt, and Tish Knobf
*Yale University***P46-3 EPITHELIAL CELLS IN NIPPLE ASPIRATE FLUID AND SUBSEQUENT BREAST CANCER RISK: A HISTORIC PROSPECTIVE STUDY**Kimberly Baltzell, Michelle Moghadassi, Terri Rice, Jennette Sison, and Margaret Wrensch
*University of California, San Francisco***P46-4 A NOVEL APPROACH TO DETECT THERAPEUTIC RESISTANCE IN BREAST CANCER**Kamila Czene, Maria Sandberg, Per Hall, and Mikael Hartman
*Karolinska Institute***P46-5 ABSTRACT WITHDRAWN****P46-6 RISK FACTORS FOR DEVELOPING BREAST CANCER FOLLOWING BENIGN BREAST DISEASE: A 25-YEAR FOLLOW-UP OF A NATIONWIDE COHORT**Siegal Sadetzki, Bernice Oberman, Angela Chetrit, Dana Feldman, Flora Lubin, and Moshe Zvi Papa
*Chaim Sheba Medical Center***P46-7 SCREENING MAMMOGRAPHY IN OLDER WOMEN: EFFECT OF WEALTH AND PROGNOSIS**Louise Christie Walter,¹ Brie A. Williams,² Karla Lindquist,²Rebecca Sudore,² and Kenneth E. Covinsky²¹*Northern California Institute for Research and Education and ²University of California, San Francisco***P46-8 ABSTRACT WITHDRAWN****P46-9 RISK OF HYPOTHYROIDISM IN OLDER BREAST CANCER PATIENTS TREATED WITH RADIATION**Grace Smith, Benjamin D. Smith, Sharon H. Giordano, Ya-Chen T. Shih, Wendy A. Woodward, Eric A. Strom, George H. Perkins, Welela Tereffe, Tse-Kuan Yu, and Thomas A. Buchholz
*M. D. Anderson Cancer Center, University of Texas***P46-10 BREAST DENSITY ASSESSMENT IN PUBERTAL GIRLS USING DXA: A FEASIBILITY STUDY**Gertraud Maskarinec,¹ Rachel Novotny,² Serghei Malkov,³ Bo Fan,³ Aurelie Laidevant,³ and John A. Shepherd³
¹*University of Hawaii, ²Kaiser Foundation Research Institute, and ³University of California, San Francisco***P46-11 DISPARITIES IN STAGE AT DIAGNOSIS IN ORANGE COUNTY: IMPLICATIONS FOR EARLY DETECTION**Sarah Frances Marshall,¹ Hoda Anton-Culver,¹ Diana Chingos,² Cheryl Cooky,³ Travers Ichinose,⁴ Sandra Rose,⁵ Deborah Ryan,⁶ Raul Sobero,⁴ Lisa M. Wolter,⁶ Argyrios Ziogas,¹ and Chrisina Tannous⁶
¹*University of California, Irvine, ²State of California Breast Cancer Research Council, ³California State University, Fullerton Foundation, ⁴Orange County Health Care Agency, ⁵CalOptima, and ⁶Susan G. Komen Breast Cancer Foundation***P47 Behavioral Sciences**

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM**P47-1* ISOLATION AND THE TIMING OF MAMMARY GLAND DEVELOPMENT, GONADARCHE, AND OVARIAN SENESCENCE: IMPLICATIONS FOR MAMMARY TUMOR BURDEN**Martha McClintock
*University of Chicago***P47-2 TESTS OF A PREDICTIVE MODEL OF ADOLESCENT FUNCTIONING TO MATERNAL BREAST CANCER**Frances Lewis and Kristin A. Fletcher
*University of Washington***P47-3 NF-κB AS A CRITICAL BIOLOGICAL LINK BETWEEN PSYCHOLOGICAL STRESS AND BREAST CANCER**Fiona Yull,¹ Linda Connelly,¹ Leshana Saint-Jean,¹ Taylor Sherrill,¹ April Newsome,¹ Rachel Pigg,¹ and Barbara Fingleton²
¹*Vanderbilt University Medical Center and ²Vanderbilt-Ingram Cancer Center***P47-4 BREAST CANCER SURVIVORSHIP: PSYCHOSOCIAL CHALLENGES AND HEALTH BEHAVIOR OF FIRST DEGREE FEMALE CAREGIVERS**Victoria H. Raveis, Sheindy Pretter, and Monique Carrero
*Columbia University School of Public Health***P47-5 CLOSE RELATIONSHIP QUALITY IN BREAST CANCER PATIENTS: PREPARING TO TEST A BIOMARKER**Karen Louise Weihs
*University of Arizona, Tucson***P47-6 BREAST CANCER RISK FACTORS AND IMMUNE RESPONSES IN HEALTHY PREMENOPAUSAL WOMEN**Na-Jin Park and Duck-Hee Kang
University of Alabama at Birmingham

*Symposia Session

P47-7 EFFECT OF LIGHT PERCEPTION ON REPRODUCTIVE FUNCTION IN BLIND WOMEN

Erin E. Evans,¹ Richard G. Stevens,² and Steven Lockley¹
¹Brigham and Women's Hospital and ²University of Connecticut Health Center

P47-8 URINARY MELATONIN AND ESTROGEN PRODUCTION IN PRE- AND POST-MENOPAUSAL BLIND WOMEN

Steven Lockley and Erin E. Evans
Brigham and Women's Hospital

P47-9 SPATIALLY INFORMED INVESTIGATIONS OF RACE-SPECIFIC SOCIAL GRADIENTS IN BREAST CANCER DISPARITIES

Ann Carroll Klassen and Frank Curriero
Johns Hopkins University, Bloomberg School of Public Health

P47-10* A RANDOMIZED TRIAL OF COMPUTER AND PAPER-BASED VERSIONS OF THE DECISION BOARD FOR BREAST CANCER TREATMENTS

Shelley Chambers,¹ Mark Levine,¹ Amiram Gafni,¹ Jim Julian,¹ Rolf Sebaldt,¹ Richard Tozer,² Barbara Heller,² Peter Ellis,² Bindi Dhesy,² Andrea Eisen,² Nicole Hodgson,² Som Mukherjee,² Mary Ann O'Brien,¹ Ken Sanders,² and Timothy Whelan¹
¹McMaster University and ²Juravinski Cancer Centre

P47-11* A WEB-BASED EDUTAINMENT DECISION AID FOR LOW HEALTH LITERACY WOMEN MAKING BREAST CANCER TREATMENT DECISIONS

Maria L. Jibaja-Weiss,¹ Emily K. Robinson,² Richard Evans,³ Hsin Lu,¹ Mamta Kalidas,⁴ Glori Chauca,¹ Todd R. Johnson,² and Robert J. Volk¹
¹Baylor College of Medicine, ²University of Texas Health Science Center at Houston, ³Texas Cancer Center, and ⁴Baylor College of Medicine Breast Center

P47-12* EXPLORING WOMEN'S DECISION-MAKING EXPERIENCES ABOUT BREAST CANCER TREATMENT THROUGH VIDEO-STIMULATED RECALL INTERVIEWS

Mary Ann O'Brien,¹ Timothy Whelan,² Cathy Charles,² Peter Ellis,¹ Amiram Gafni,² Peter Lovrics,² Adrienne Hasler,² and Susan Dimitry²
¹Juravinski Cancer Centre and ²McMaster University

P47-13* COGNITIVE-AFFECTIVE FACTORS ASSOCIATED WITH UPTAKE OF, AND ADHERENCE TO, LYMPHEDEMA SYMPTOM MINIMIZATION PRACTICES IN BREAST CANCER SURVIVORS

Suzanne Miller, Kerry Sherman, Joanne Buzaglo, Pagona Roussi, Eric Ross, and John Scarpato
Fox Chase Cancer Center

P48 Quality of Life

7:00-10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
 Even-numbered – 8:30–10:00 PM

P48-1* A LONGITUDINAL STUDY OF HOT FLASHES AMONG BREAST CANCER SURVIVORS

Linda Jacobs,¹ Laura J. Hanisch,¹ Steven C. Palmer,¹ Angela Demichele², and James C. Coyne¹
¹University of Pennsylvania and ²University of Pennsylvania Hospital

P48-2 REDUCING THE BURDEN OF BREAST CANCER

Kimlin Tam Ashing-Giwa
City of Hope Medical Center

P48-3 WOMEN'S ATTRIBUTIONS OF MOOD AND COGNITIVE CHANGES FOLLOWING PROPHYLACTIC OOPHORECTOMY

Liisa Hantsoo, Susan Friedman, Steven C. Palmer, and James Coyne
University of Pennsylvania

P48-4 ABSTRACT WITHDRAWN

P48-5 ABSTRACT WITHDRAWN

P48-6 ABSTRACT WITHDRAWN

P48-7 PRE-OPERATIVE ASSESSMENT ENABLES EARLY DIAGNOSIS AND SUCCESSFUL TREATMENT OF LYMPHEDEMA

Nicole Stout Gergich,¹ Lucinda A. Pfalzer,² Lynn H. Gerber,³ Charles McGarvey,⁴ Barbara Springer,⁵ and Peter Soballe¹

¹National Naval Medical Center, Bethesda, MD, ²University of Michigan, Flint, ³George Mason University, ⁴National Institutes of Health, and ⁵Walter Reed Army Medical Center

P49 Drug Discovery and Development II

7:00-10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
 Even-numbered – 8:30–10:00 PM

P49-1 A NOVEL CLASS OF LIGAND-DERIVED ErbB RECEPTOR ANTAGONISTS

David Riese, Kristy J. Wilson, Christopher P. Mill, Sydney Lambert, Stuart S. Hobbs, and Elizabeth M. Cameron
Purdue University

P49-2* SELECTIVE ABLATION OF TUMOR-ASSOCIATED MACROPHAGES SUPPRESSES METASTASIS AND ANGIOGENESIS

Cheng Liu, Fang Guo, and Yuan Liu
Scripps Research Institute

P49-3* NOVEL INHIBITORS OF THE EphB4 RECEPTOR AS ANTI-CANCER AGENTS

Ziwei Huang
Burnham Institute

P49-4 DEVELOPMENT OF 1- α -HYDROXYVITAMIN D5 AS A POSSIBLE CHEMOTHERAPEUTIC AGENT

Rajeshwari R. Mehta,¹ Rajendra G. Mehta,² and Tapas Das Gupta³
¹University of Illinois, Chicago, ²IIT Research Institute, and ³University of Illinois, Chicago College of Medicine

P49-5	NEOSERGIOLEIDE – THE FIRST POTENT BI-FUNCTIONAL NATURAL PRODUCT THAT SIMULTANEOUSLY TARGETS STAT3-DEPENDENT BREAST TUMORS AND TUMOR HYPOXIA Yu-Dong Zhou, ¹ Yang Liu, ¹ Jingqiu Dai, ¹ Mitsuteru Hiwatari, ² Stephen W. Morris, ² and Dale George Nagle ¹ ¹ <i>University of Mississippi and ²St. Jude Children's Research Hospital</i>	P49-10	SODIUM-POTASSIUM ATPase INHIBITORS: A COMPLETELY NEW STRATEGY FOR TREATING BREAST CANCER BY POTENTLY SUPPRESSING HYPOXIA-INDUCED TUMOR CELL SURVIVAL PATHWAYS WITH EXTREMELY LOW DOSES OF CARDIAC GLYCOSIDES Dale George Nagle, Yu-Dong Zhou, and Yang Liu <i>University of Mississippi</i>	P49-16	DISCOVERY OF NOVEL SMALL-MOLECULE INHIBITORS OF HER2/NEU: COMBINED LIGAND-BASED AND TARGET-BASED APPROACH Nouri Neamati <i>University of Southern California</i>
P49-6	INHIBITING THE FOLDING AND MATURATION OF HER2 AND ER USING A NOVEL CLASS OF Hsp90 INHIBITORS Fang Yi, ¹ Pingjun Zhu, ² Wei Zheng, ² and Lynne Regan ¹ ¹ <i>Yale University and ²National Institutes of Health</i>	P49-11	NANOSPHERIC CHEMOTHERAPEUTIC AND CHEMOPROTECTIVE AGENTS Larisa Sheihet, ¹ Murugesan K. Gounder, ² David Devore, ¹ Eric H. Rubin, ² and Joachim Kohn ¹ ¹ <i>Rutgers University, New Brunswick</i> and ² <i>University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School</i>	P49-18	INHIBITION OF THE RhoC GTPase-MEDIATED INFLAMMATORY BREAST CANCER PHENOTYPE BY FARNESYL TRANSFERASE INHIBITORS Kenneth Louis Van Golen <i>University of Delaware</i>
P49-7	MODULATING THE FUNCTION OF ONCOGENIC p53 IN THE INTACT ORGANISM USING SMALL MOLECULES TO MANIPULATE PROTEIN FOLDING Daniel Segal, Michal Levy, Meital Asher, Anat Daihes, and Ehud Gazit <i>Tel Aviv University</i>	P49-12	FoxM1 INHIBITOR, THIOSTREPTON IS A POTENTIAL DRUG AGAINST BREAST CANCER Andrei L. Gartel <i>University of Illinois, Chicago</i>	P49-19	NOVEL AND EFFICIENT SYNTHESIS OF THE PROMISING DRUG CANDIDATE DISCODERMOLIDE Kathlyn A. Parker <i>State University of New York, Stony Brook</i>
P49-8	TARGETING ESTROGEN RECEPTOR SIGNALING VIA INTERFERENCE WITH ENZYMATIC ACTIVATION OF A CRITICAL RNA COACTIVATOR BY A NOVEL TYPE OF RNA INHIBITOR Remco A. Spanjaard, ¹ Jeffrey R. Patton, ² and Sajal K. Ghosh ¹ ¹ <i>Boston University School of Medicine</i> and ² <i>University of South Carolina School of Medicine</i>	P49-13	DEVELOPMENT OF SPECIFIC SMALL MOLECULE INHIBITORS OF MATERNAL EMBRYONIC LEUCINE ZIPPER KINASE Alexey Terskikh and Anton Cheltsov <i>Burnham Institute</i>	P49-20	DISCOVERY OF NOVEL HDAC INHIBITORS FOR THE TREATMENT OF BREAST CANCER: MAPPING NEW BINDING SITES OF HISTONE DEACETYLASE USING SMALL MOLECULES AS PROBES Pavel A. Petukhov, Hongbin Yuan, Yufeng Chen, Arsen Gaysin, Bai He, Gilles Peiffet, Subash Veleparthi, Christopher Pennington, Alan P. Kozikowski, Richard van Breemen, and Sylvie Y. Blond <i>University of Illinois, Chicago</i>
P49-9	A MOLECULAR SWITCH OF HER2: TARGET FOR RECEPTOR HETERODIMERIZATION Ruth Lupu <i>Evanston Northwestern Healthcare Research Institute</i>	P49-14	IDENTIFICATION OF PROCASPASE-ACTIVATING SMALL MOLECULES THAT INDUCE DEATH SELECTIVELY IN CANCER CELLS Diana West, David Goode, Ryan Totten, and Paul Hergenrother <i>University of Illinois, Champaign/Urbana</i>	P49-21	DELIVERY OF ANTIVASCULAR DRUGS TO IRRADIATED BREAST TUMORS Mohammad Kiani, Fred J. Donelson, Berenice Venegas, Christopher B. Pattillo, Linda C. Knight, and Parkson L. Chong <i>Temple University</i>
P49-15	G-QUADRUPLEXES INDUCE APOPTOSIS Haiyan Qi <i>University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School</i>	P49-22	MIGRASTATIN ANALOGUES AS POTENT INHIBITORS OF BREAST CANCER METASTASIS Xin-Yun Huang, Lin Chen, Shengyu Yang, and Jillian Zhang <i>Cornell University, Weill Medical College</i>		

*Symposia Session

P49-23 DEVELOPMENT OF PHAGE PANNUING METHODS FOR TUMOR-SPECIFIC LIGANDS WITH LASER CATAPULT MICRODISSECTION

Yu-Jing Sun,¹ Girja Shukla,¹ Guy Kennedy,¹ David Warshaw,¹ Donald Weaver,² Stephanie Pero,¹ Lisa Floyd,² and David Krag³
¹University of Vermont, ²Fletcher Allen Health Care, and ³University of Vermont College of Medicine

P50 Experimental Therapeutics II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
 Even-numbered – 8:30–10:00 PM

P50-1* ENHANCING HORMONAL THERAPY FOR BREAST CANCER BY COMBINATION WITH VALPROIC ACID A WELL-KNOWN APPROVED PHARMACEUTICAL WITH LITTLE TOXICITY

Peter Kushner
University of California, San Francisco

P50-2* TRAFFICKING THE FATE OF MESENCHYMAL STEM CELLS IN VIVO BY BIOLUMINESCENCE IMAGING

Xiaoyuan Chen, Hui Wang, Abhijit De, and Sanjiv S. Gambhir
Stanford University School of Medicine

P50-3 DEVELOPMENT OF A NATURE-INSPIRED VECTOR FOR TARGETED BREAST CANCER GENE THERAPY

Arash Hatefi and Sriramchandra Sastry Mangipudi
Washington State University, Pullman

P50-4 TUMOR HOMING PEPTIDE DIRECTED ONCOLYTIC ADENOVIRUS TARGETING BREAST TUMOR LYMPHATIC AND ABERRANT TGF β SIGNALING: A NOVEL APPROACH FOR BREAST CANCER THERAPY

Prem Seth,¹ Amanda Pister,¹ M. Behzad Zafar,¹ John Robbins,¹ Janhavi Gupta,¹ Zhen Wei Zhang,¹

Kam Neuman,¹ Theresa Guise,² and Jessica Lee¹
¹Evanston Northwestern Healthcare Research Institute and ²University of Virginia

P50-5 DEVELOPMENT OF TARGETED BREAST CANCER THERAPY USING BI-FUNCTIONAL APTAMERS

Albert Millis, Hua Shi, Prabhat Malik, Kimi Nishikawa, and Daiying Xu
State University of New York, Albany

P50-6 CREATING ONCOLYTIC ADENOVIRUS TARGETING TUMOR LYMPHATICS

Zhen-Guo Wang, Bradley K. Hack, Lauren K. Hensley, Tipu S. Puri, and Richard J. Quigg
University of Chicago

P50-7 RECOMBINANT ADENOVIRUS EXPRESSING CONSTITUTIVELY ACTIVATED INTERFERON REGULATORY FACTOR 3 SUPPRESSES TUMOR GROWTH IN A HUMAN BREAST CANCER MOUSE MODEL

John H. Yim,¹ Ki-Young Sung,² Michael T. Stang,¹ Baoguo Ren,¹ Michael E. Armstrong,¹ and Ye Liu¹
¹University of Pittsburgh and ²Catholic University of America

P50-8 SECRETION OF SOLUBLE ERYTHROPOIETIN RECEPTOR BY GENETICALLY ENGINEERED BONE MARROW-DERIVED MESENCHYMAL STROMAL CELLS

Nicoletta Eliopoulos,¹ Shala Yuan,¹ Claudia Penafuerte-Diaz,² Ian Copland,¹ and Jacques Galipeau³
¹Lady Davis Institute for Medical Research, McGill University, ²Sir Mortimer B. Davis Jewish General Hospital, and ³McGill University

P50-9 TARGETING FOXP3 EXPRESSION IN TREGULATORY CELLS USING PHOSPHORODIMAIIDATE MORPHOLINO OLIGOMERS: POTENTIAL TO DEVELOP A NOVEL ADJUVANT FOR BREAST CANCER IMMUNOTHERAPY

Gayathri Devi, Katherine Aird, Rami Ghanayem, Timothy Clay, H. Kim Lyerly, and Michael Morse
Duke University Medical Center

P50-10 RETROTRANSPOSON-MEDIATED CANCER GENE THERAPY

John Goodier,¹ Edward Zamora,² Adam D. Ewing,¹ Samuel Vidal,¹ Lili Zhang,¹ and John R. Ohlfest²
¹University of Pennsylvania School of Medicine and ²University of Minnesota, Twin Cities Cancer Center

P50-11 EARLY BLOOD-BASED DETECTION AND MONITORING OF BREAST CANCER WITH A DUAL-REPORTER UNDER THE CONTROL OF A CANCER-SPECIFIC PROMOTER

Kurt R. Zinn, Jason M. Waram, Hongju Wu, Selvarangan Ponnazhagan, and David T. Curiel
University of Alabama at Birmingham

P50-12 DEVELOPMENT OF ADENOVIRAL LIGAND LIBRARIES FOR VECTOR TARGETING

Michael A. Barry
Mayo Clinic and Foundation, Rochester

P50-13 SYSTEMIC OSTEOPROTEGERIN GENE THERAPY RESTORES TUMOR-INDUCED BONE LOSS IN A THERAPEUTIC MODEL OF BREAST CANCER BONE METASTASIS

Selvarangan Ponnazhagan
University of Alabama at Birmingham

P50-14 A NOVEL PEPTIDE DISCOVERED BY INTRACELLULAR BACTERIOPHAGE DISPLAY MEDIATES NUCLEAR TARGETING

Todd Giorgio, Andrija Finka, Daniel C. Dorset, Amanda Lowery, Ashley Weiner, and Jeffrey Hubbell
Vanderbilt University

- P50-15 ENHANCEMENT OF Bik ANTITUMOR EFFECT BY Bik MUTANTS**
 Yan M. Li,¹ Chi-Ping Dai,² and Mien-Chie Hung¹
¹*M. D. Anderson Cancer Center, University of Texas and ²National Institutes of Health*
- P50-16 NEW CONDITIONALLY REPLICATING ADENOVIRUS VECTORS FOR BREAST CANCER THERAPY**
 Stephen Dewhurst and Baek Kim
University of Rochester Medical Center
- P50-17* DISPERSIVE PHENOTYPE OF INSOLUBLE γ -TUBULIN IN METASTATIC BREAST TUMOR CELL LINES**
 Edward Cho,¹ Rebecca A. Whipple,¹ Michael M. Matrone,² and Stuart S. Martin²
¹*University of Maryland School of Medicine and ²University of Maryland, Baltimore*
- P50-18 PHOTODYNAMIC MOLECULAR BEACONS AS SMART THERAPEUTICS TRIGGERED BY BREAST CANCER-ASSOCIATED PROTEASE AND mRNA**
 Gang Zheng,¹ Juan Chen,¹ Klara Stefflova,² Pui-Chi Lo,¹ and Jonathan F. Lovell¹
¹*University of Toronto and ²University of Pennsylvania*

P51 Immune-Based Therapies II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

- P51-1* ACTIVE IMMUNIZATION USING A PEPTIDE MIMIC OF A CARBOHYDRATE TUMOR ANTIGEN**
 Jamie Heimburg-Molinaro
Emory University

- P51-2* A DIRECT SYNERGISTIC EFFECT OF IMMUNOTHERAPY AND CHEMOTHERAPY AS A NEW PARADIGM IN TREATMENT OF BREAST CANCER**
 Dmitry Gabrilovich, Rupal Ramakrishnan, and Srinivas Nagaraj
H. Lee Moffitt Cancer Center & Research Institute at University of South Florida
- P51-3* CARBOHYDRATE MIMETIC PEPTIDES INDUCE TUMOR-ASSOCIATED CARBOHYDRATE-REACTIVE ANTIBODIES IN THE ABSENCE OF PATHOLOGICAL AUTOIMMUNITY**
 Thomas Kieber-Emmons, Leah Hennings, Cecile Artaud, Fariba Jousheghany, and Behjatolah Karbassi
University of Arkansas for Medical Sciences
- P51-4* ANTI-INFLAMMATORY CD4+ REGULATORY CELLS PREVENT MAMMARY CANCER IN MICE**
 Susan Erdman
Massachusetts Institute of Technology
- P51-5* IDO INHIBITORS FOR BREAST CANCER: FROM IDEA TO LABORATORY TO MOUSE TO CLINIC**
 George C. Prendergast
Lankenau Institute for Medical Research (LIMR)
- P51-6* PASSIVE IMMUNOTHERAPY WITH ANTI-CEACAM6 ANTIBODIES**
 Alice P. Taylor, Evelyn Leon, Rosalyn D. Blumenthal, and David Goldenberg
Garden State Cancer Center
- P51-7 REJECTION OF METASTATIC 4T1 BREAST CANCER BY ATTENUATION OF Treg CELLS IN COMBINATION WITH IMMUNE STIMULATION**
 Savio Woo, Li Chen, Marcia Meseck, and Tian-Gui Huang
Mount Sinai School of Medicine, New York
- P51-8 GENETICALLY ENGINEERED T-CELLS FOR ADOPTIVE IMMUNOTHERAPY OF BREAST CANCER**
 Zelig Eshhar
Weizmann Institute of Science
- P51-9 RETINOIC ACID AND ALPHA-GALACTOSYL CERAMIDE, A LIGAND FOR CD1d ON ANTIGEN-PRESENTING CELLS, DIFFERENTIALLY REGULATE THE PRODUCTION OF IMMUNOREGULATORY CYTOKINES BY CULTURED DENDRITIC CELLS AND SPLENOCYTES**
 A. Catharine Ross, Qiuyan Chen, and Katherine H. Restori
Pennsylvania State University
- P51-10 ANTITUMOR ACTIVITY OF γ - δ T CELLS EXPANDED FROM PERIPHERAL BLOOD OBTAINED FROM PATIENTS WITH METASTATIC BREAST CANCER WHO ARE ACTIVELY UNDERGOING THERAPY**
 Richard Lopez, Lawrence Lamb, and Mark Bridges
University of Alabama at Birmingham
- P51-11 IMMUNOTHERAPY OF SPONTANEOUS MAMMARY CARCINOMAS IN A MURINE MODEL DEFICIENT FOR TELOMERASE ACTIVITY**
 Jianlin Gong, Baizheng Song, Chunlei Liu, and Lindy Su
Boston University, Boston Campus
- P51-12 LYMPHOTROPHIC CYTOKINE IMMUNE COMPLEXES PROMOTE EFFECTIVE ANTI-TUMOR AUTOIMMUNITY IN A MODEL OF METASTATIC BREAST CARCINOMA**
 Roberto Baccala, Roshni Mitra Chintalapati, Rosana Gonzalez-Quintial, and Argyrios N. Theofilopoulos
Scripps Research Institute
- P51-13 TOLERANCE SUPPRESSION THERAPY AS A MEANS OF ENHANCING TUMOR VACCINES**
 Jonathan Powell, Paul E. Zarek, and Angela Alme
Johns Hopkins University School of Medicine

**Symposia Session*

P51-14 DEVELOPMENT OF T CELL-BASED IMMUNOTHERAPIES AGAINST BREAST CANCER

Dorothee Maria Herlyn, Klara Berencsi, Tianqian Zhang, and Rajasekharan Somasundaram
Wistar Institute

P51-15 USE OF PHYTOCOMPOUNDS AND GENE-BASED VACCINE APPROACHES AGAINST TUMOR MALIGNANCY

Ning-Sun Yang,¹ Lie-Fen Shyur,² and Kandan Aravindaram²
¹*PowderJect Vaccines, Inc.* and ²*Academia Sinica*

P51-16 CD4+ Th1 HER2-SPECIFIC T CELLS AS A NOVEL TREATMENT FOR HER2-OVEREXPRESSING BREAST CANCER

Vy P. Lai, Ekram Gad, Sahar Saddoughi, Jonathan DeLong, Zachary Waisman, and Mary L. Disis
University of Washington

P51-17 TGF β BLOCKING AGENTS FOR THE IMMUNOTHERAPY OF BREAST CANCER

Claudia Penafuerte
Sir Mortimer B. Davis Jewish General Hospital

P51-18 DISRUPTION OF TGF- β SIGNALING USING A SMALL MOLECULE TGF- β R1 ANTAGONIST IMPROVES THE EFFICACY OF DENDRITIC CELL VACCINES FOR BREAST CANCER

Matthew Peter Rausch
University of Arizona, Tucson

P52 Tumor Immunology

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P52-1* REGULATION OF THE MIGRATION OF FOXP3+ REGULATORY T CELLS INTO LYMPHOID TISSUES AND BREAST TUMORS

Chang H. Kim
Purdue University

P52-2 INFLAMMATION INDUCES TUMOR GROWTH BY NUCLEAR-FACTOR- κ -B SIGNALING IN MYELOID-DERIVED SUPPRESSOR CELLS

Suzanne Ostrand-Rosenberg
University of Maryland, Baltimore County

P52-3 ENHANCEMENT OF THE IMMUNE RESPONSE FOLLOWING IMMUNIZATION WITH A MUC1-C3d FUSION PROTEIN

Michelle Rapisardo, Reiko Ohta, and Stephen Tomlinson
Medical University of South Carolina

P52-4 PROGRAMMED CELL DEATH INDUCED BY c-FLIP-DRIVEN PEPTIDE: A NOVEL CANCER THERAPEUTIC STRATEGY

Roya Khosravi-Far, Taiguang Jin, Keli Song, and Tanya Santose
Beth Israel Deaconess Medical Center

P52-5 β 4-INTEGRIN AS A MOLECULAR MARKER AND A RESPONSE PREDICTOR IN CANCER THERAPY

Roya Khosravi-Far, Taiguang Jin, Keli Song, and Tanya Santos
Beth Israel Deaconess Medical Center

P52-6 IMMUNOTHERAPY AGAINST METASTATIC BREAST CANCER WITH A TWIST

Sandra Demaria, Noriko Kawashima, Baomei Wang, Fabio Santori, Michelle Krosgaard, and Anne Marie Yang
New York University School of Medicine

P52-7 VACCINATION TARGETING ANTIGENS IDENTIFIED IN TUMOR REJECTION MICE BUT NOT ANTIGENS IDENTIFIED IN TUMOR BEARING MICE HAS TUMOR PROTECTIVE EFFECT

Mary Disis
University of Washington

P52-8 ROLE OF INDOLEAMINE 2,3 DIOXYGENASE IN BREAST CANCER METASTASIS FORMATION AND IMMUNOTHERAPY

Elieser Gorelik, Yunyun Su, and Xiaojin Liu
University of Pittsburgh

P52-9 EOSINOPHIL GRANULAR PROTEIN COCKTAIL MODULATES THE EXPRESSION OF CANCER GROWTH AND METASTASIS GENES IN MCF-7 MULTICELLULAR SPHEROIDS

Paulette Furbert-Harris,¹ Debra Parish-Gause,¹ Ibrahim Laniyan,¹ Theresa Vaughn,¹ Shari Scott,² Samantha Vasconcelos,² and Oladipo A. Oredipe¹
¹*Howard University* and ²*Bermuda College*

P52-10 A NOVEL THERAPEUTIC PARADIGM FOR BREAST CANCER TARGETING TUMORAL IMMUNE TOLERANCE WITH SMALL MOLECULE INHIBITORS OF INDOLEAMINE 2,3-DIOXYGENASE

Alexander J. Muller,¹ James B. DuHadaway,¹ William P. Malachowski,² Erika Sutanto-Ward,¹ Alejandro P. Soler,¹ Andrew L. Mellor,³ David H. Munn,⁴ Richard Metz,¹ and George C. Prendergast¹
¹*Lankenau Institute for Medical Research*, ²*Bryn Mawr College*, ³*Medical College of Georgia*, and ⁴*Medical College of Georgia, Research Institute, Inc.*

P52-11 THE Pax6 GENE, WHICH IS REGULATED BY TWO PROMOTERS, IS ACTIVATED IN HUMAN BREAST CANCER CELLS

Hao-Peng Xu Duffy
State University of New York, Stony Brook

P52-12 ROLE OF Ets-2 IN TUMOR-ASSOCIATED MACROPHAGES DURING BREAST CANCER PROGRESSION

Tahera Zabuawala
Ohio State University

P53 Targeted Therapies II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P53-1* BLOCKAGE OF CYR61- $\alpha_1\beta_3$ INTEGRIN INTERACTION RESTORES TAXANE-SENSITIVITY IN TRIPLE NEGATIVE BREAST CANCER CELLS

Ruth Lupu and Ingrid Espinoza
Evanston Northwestern Healthcare Research Institute

*Symposia Session

P53-2*	FUNCTIONAL PROTEOMICS AND COMPUTATIONAL MODELING OF THE SIGNALING NETWORK TO IDENTIFY TARGETS FOR THERAPY Prahlad T. Ram <i>M. D. Anderson Cancer Center, University of Texas</i>	P53-8 ASSESSMENT OF FIRST GENERATION NANOGELS FOR TARGETED siRNA DELIVERY TO TUMOR VASCULATURE Joseph A. Vetro <i>University of Nebraska Medical Center</i>	P53-15 SYNTHESIS OF RASPBERRY-LIKE CORE-SHELL NANOPARTICLES FOR ANTITUMOR DRUG DELIVERY Qian Wang, ¹ Tao Li, ¹ and Shaojin You ² ¹ <i>University of South Carolina and</i> ² <i>Atlanta Research and Education Foundation, Inc.</i>
P53-3*	DELIVERY IN VITRO AND IN VIVO IN MICE OF AN ANTISENSE MORF USING HERCEPTIN AS CARRIER Yi Wang, ¹ Xinrong Liu, ¹ Ling Chen, ¹ Mary Rusckowski, ² and Donald J. Hnatowich ¹ ¹ <i>University of Massachusetts Medical School and</i> ² <i>University of Massachusetts Medical Center</i>	P53-9 SELECTIVE ONCOLYTIC THERAPY FOR HYPOXIC BREAST CANCER CELLS Michael Thomas Fasullo and Alicia Britton <i>Ordway Research Institute, Inc.</i>	P53-16 PARTHENOLIDE, A POLYMACHIC ANTICANCER AGENT, DEPLETES HDAC1 AND MDM2 AND ACTIVATES p53 AND p21 IN BREAST CANCER CELLS Michael Van Dyke and Yn Vashisht Gopal <i>M. D. Anderson Cancer Center, University of Texas</i>
P53-4	TARGETED LIPOSOMAL DELIVERY OF ALPHA-PARTICLE Emitter, ACTINIUM-225 George Sgouros ¹ and Stavroula Sofou ² ¹ <i>Johns Hopkins University School of Medicine and</i> ² <i>Polytechnic University, Brooklyn, NY</i>	P53-10 ANTITUMOR EFFECTS OF A NOVEL ANTI-HERV-K MONOCLONAL ANTIBODY IN BREAST CANCER Feng Wang-Johanning and Gary L. Johanning <i>M. D. Anderson Cancer Center, University of Texas</i>	P53-17 DELIVER MULTIPLE THERAPEUTIC MOLECULES TO BREAST CANCER CELLS USING RNA NANOTECHNOLOGY AND PHI29 MOTOR COMPONENTS Peixuan Guo <i>University of Cincinnati</i>
P53-5	SIGNIFICANCE OF CHEMOTHERAPY-INDUCED RECEPTOR TYROSINE KINASE ACTIVATION AND DEGRADATION IN BREAST CANCER Mukesh K. Nyati, Aarif Ahsan, Mary A. Davis, and Theodore S. Lawrence <i>University of Michigan, Ann Arbor</i>	P53-11 SMALL MOLECULE INHIBITORS OF NFκB AS A NOVEL TREATMENT MODALITY FOR BREAST CANCER Mary Law, Patrick Corsino, and Brian Law <i>University of Florida</i>	P53-18 EARLY IN VITRO PASSAGES OF BREAST CANCER CELLS DIFFERENTIALLY EXPRESS THE NOVEL RETINOIC ACID RECEPTOR β-5 ISOFORM AND ARE DIFFERENTIALLY SUSCEPTIBLE TO RETINOIDs Konstantin T. Christov, ¹ Peng Xinjian, ² Laura Bratescu, ³ Anne Shiikaitis, ³ Albert Green, ³ Yonghua Zhu, ³ and Rajeshwari Mehta ¹ ¹ <i>University of Illinois, Chicago and</i> ² <i>Illinois Institute of Technology</i>
P53-6	STUDY OF THE ROLE OF DIFFERENT DOWNSTREAM MEDIATORS OF THE TGFβ-1 SIGNALING PATHWAY IN THE REGULATION OF FACTORS AFFECTING BREAST CANCER-ASSOCIATED OSTEOLYTIC BONE METASTASIS Prem Seth, Janhavi Gupta, Zhenwei Zhang, and John Robbins <i>Evanston Northwestern Healthcare Research Institute</i>	P53-12 DEVELOPMENT OF HYPERSTABLE MICELLES AS CARRIERS FOR SPARINGLY SOLUBLE ANTICANCER DRUGS Sandro Mecozi <i>University of Wisconsin, Madison</i>	P53-19 SITE-DIRECTED THERAPY WITH NON-ANTICOAGULANT HEPARINS AND CHEMOTHERAPY IN BREAST CANCER Shaker A. Mousa, Dhruba Bahrali, Lubor Borsig, Emmy Dier, Shaymaa S. Mousa, Murat Yalcin, and Patricia Phillips <i>Albany College of Pharmacy</i>
P53-7	TARGETED CHARGE-REVERSAL DRUG CARRIERS FOR NUCLEAR DRUG DELIVERY FOR BREAST CANCER CHEMOTHERAPY Youqing Shen and William J. Murdoch <i>University of Wyoming</i>	P53-13 INACTIVATION OF NFκB BY 3, 3-DIINDOLYL METHANE (DIM) CONTRIBUTES TO INCREASED APOPTOSIS INDUCED BY CHEMOTHERAPEUTIC AGENT IN BREAST CANCER CELLS Km Wahidur Rahman, ¹ Shadan Ali, ¹ Amro Aboukameel, ¹ Sanila H. Sarkar, Zhiwei Wang, ¹ Phillip A. Phillip, ¹ Wael A. Sakr, ¹ and Avraham Raz ² ¹ <i>Wayne State University and</i> ² <i>Karmanos Cancer Institute</i>	P53-20 ANTI-GLUT-1 ANTIBODY AS A THERAPEUTIC MODALITY AGAINST BREAST CANCER George Simon and Sarmistha Banerjee <i>H. Lee Moffitt Cancer Center & Research Institute at University of South Florida</i>
P53-14	NOVEL IN SITU GEL DRUG DELIVERY SYSTEM FOR BREAST CANCER TREATMENT Alekha Dash and William J. Trickler <i>Creighton University</i>		

*Symposia Session

P53-21 ENGINEERING ANTI-EGFR ANTIBODIES FOR TREATMENT OF BREAST CANCERS WITH POOR PROGNOSIS

Zhou Yu and James D. Marks
University of California, San Francisco

P53-22 *Clostridium perfringens* ENTEROTOXIN AS A NOVEL TARGETED THERAPEUTIC FOR BRAIN METASTASIS

Scott L. Kominsky,¹ Betty Tyler,² Jeffrey Sosnowski,³ Kelly Brady,² Michele Doucet,² Delissa Nell,² James Smedley,⁴ Bruce McClane,⁴ Henry Brem,² and Saraswati Sukumar²

¹*Johns Hopkins University, East Baltimore Campus*, ²*Johns Hopkins University School of Medicine*, ³*University of South Alabama*, and ⁴*University of Pittsburgh School of Medicine*

P53-23 PROGRAMMABLE MOLECULAR SENSORS FOR THE DESIGN OF INTELLIGENT THERAPEUTICS TARGETED TO BREAST CANCER CELLS

Christina Dawn Smolke
California Institute of Technology

P54 Drug Resistance II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P54-1* SUSTAINED ACTIVATION OF EGFR IN BREAST CANCER CELLS RESULTS IN HIGHER KINASE ACTIVITY, LOSS OF MAP-2 AND SUBSEQUENT RESISTANCE TO DOCETAXEL

Vaqar Mustafa Adhami and Hasan Mukhtar
University of Wisconsin, Madison

P54-2* 3, 3'-DIINDOLYLMETHANE (DIM) ABROGATES THE CHEMORESISTANCE OF TAXOTERE IN ErbB2 OVEREXPRESSING BREAST CANCER BY DOWNREGULATION OF ErbB SIGNALING

Susan Lanza-Jacoby¹ and Yan Guang²
¹*Thomas Jefferson University* and ²*Thomas Jefferson University Kimmel Cancer Center*

P54-3 SPHINGOLIPIDS UPREGULATE EXPRESSION OF THE MULTIDRUG RESISTANCE GENE MDR1 IN BREAST CANCER CELLS

Valerie Gouaze-Andersson
John Wayne Cancer Institute

P54-4 MECHANISMS OF CELL DEATH IN ACQUIRED TAXANE RESISTANCE MODELS

Nesrin Rechache,¹ Rebecca Riggins,² Alan Zwart,¹ and Robert Clarke¹

¹*Georgetown University Medical Center* and ²*Georgetown University*

P54-5 FATTY ACID SYNTHASE, A NOVEL TARGET IN THE TREATMENT OF DRUG-RESISTANT BREAST CANCERS

Hailan Liu and Jian-Ting Zhang
Indiana University School of Medicine

P54-6 HETEROLOGOUS EXPRESSION AND CHARACTERIZATION OF THE P-GLYCOPROTEIN HOMOLOGUE FROM *Plasmodium falciparum*

Jacqueline Kathleen Lekostaj, Linda E. Amoah, and Paul D. Roepe
Georgetown University

P54-7 OLIGOMERIZATION DOMAIN OF THE MULTIDRUG RESISTANCE-ASSOCIATED TRANSPORTER ABCG2 AND ITS DOMINANT INHIBITORY ACTIVITY

Junkang Xu,¹ Hui Peng,¹ Qun Chen,¹ and Jian-Ting Zhang²
¹*Indiana University, Indianapolis* and ²*Indiana University School of Medicine*

P54-8 ELUCIDATING MECHANISMS OF FARNESYLTRANSFERASE INHIBITOR ACTION AND RESISTANCE IN BREAST CANCER BY BIOLUMINESCENCE IMAGING

David Piwnica-Worms, Anya Penly, Andrea Pichler-Wallace, and Ken Blumer
Washington University

P54-9 INCREASED EXPRESSION OF c-Met IN FULVESTRANT-RESISTANT BREAST CANCER CELLS

Hong Liu and Ruth Lupu
Evanston Northwestern Healthcare Research Institute

P54-10* TARGETING AUTOPHAGIC SURVIVAL PATHWAY SENSITIZES HUMAN BREAST CANCER CELLS TO GROWTH FACTOR ANTAGONISTS

Huaijun Li, William N. Hait, and Jin-Ming Yang

University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

P54-11 CHEMOMODULATION OF DOXORUBICIN RESISTANCE IN MCF-7 BREAST CANCER CELLS BY LOPERAMIDE

Rajagopalan Sridhar, Yanfei Zhou, Renshu Zhang, Xiaowu Pang, and Xinbin Gu
Howard University Hospital Cancer Center

P54-12 A SINGLE NUCLEOTIDE POLYMORPHISM IN THE MDM2 PROMOTER (SNP 309) ALTERS THE SENSITIVITY TO TOPOISOMERASE II-TARGETING DRUGS

Jin-Ming Yang, William Hait, Kim Hirshfield, and Bruce Hafty
University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

P54-13* ANALYSIS OF IRS EXPRESSION AND FUNCTION IN HER2-POSITIVE BREAST CANCER

Leslie M. Shaw, Karen Dresser, Yumiko Fine, and Ashraf Khan
University of Massachusetts Medical School

P54-14* Met RECEPTOR CONTRIBUTES TO TRASTUZUMAB RESISTANCE OF Her2 OVEREXPRESSING BREAST CANCER CELLS

David Shattuck,¹ Jamie K. Miller,¹ Kermit Carraway,² and Colleen Sweeney²

¹*University of California, Davis* and ²*University of California, Davis Medical Center*

P54-15 CALMODULIN-MEDIATED ESTROGEN RECEPTOR ALPHA ACTIVATION AND ANTIESTROGEN RESISTANCE

Jeffrey Urbauer, Ramona Bieber Urbauer, Carrie Jolly, Savannah

Johnson, John Galdo, Marie Cross, and Madeline Elliott
University of Georgia

P54-16 REGULATION OF DRUG RESISTANCE BY CYCLIN C
 Randy Strich and Kun Lee
University of Medicine and Dentistry of New Jersey Medical School, Newark

P55 Biomarkers II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
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P55-1* ALTERATION OF TOPOISOMERASE II- α GENE IN HUMAN BREAST CANCER AND ITS ASSOCIATION WITH RESPONSIVENESS TO ANTHRACYCLINE-CONTAINING CHEMOTHERAPY
 Michael F. Press,¹ Marc Buyse,² Guido Sauter,³ Leslie Bernstein,⁴ Jian-Yuan Zhou,⁵ Roberta Guzman,¹ Angela Santiago,¹ Yanling Ma,¹ Jane Sullivan-Halley,⁴ Ivonne E. Villalobos,⁵ Wolfgang Eiermann,⁶ Tadeusz Pienkowski,⁷ John Crown,⁸ Miguel Martin,⁹ Valerie Bee,⁹ Henri Taupin,⁹ John R. Mackey,¹⁰ Steven Seelig,¹¹ Giovanni Pauletti,¹² and Dennis J. Slamon¹²
¹*University of Southern California Norris Comprehensive Cancer Center*, ²*International Drug Development Institute (IDDI), Brussels, Belgium*, ³*Breast Cancer Early Detection Program*, ⁴*City of Hope Medical Center*, ⁵*University of Southern California, Bridge Breast Center*, ⁶*Breastlink Medical Group*, ⁷*Breast Friends at MemorialCare Breast Center Long Beach*, ⁸*Breast Cancer Survivors*, ⁹*Cross Cancer Institute (CCI)*, ¹¹*Abbott Laboratories, Inc.*, and ¹²*University of California, Los Angeles*

P55-2* GALECTIN-3 CLEAVAGE BY MATRIX METALLOPROTEINASES IN BREAST TUMOR PROGRESSION AND ITS USE AS A SURROGATE DIAGNOSTIC MARKER OF MMPS ACTIVITY
 Pratima Nangia-Makker,¹ Tirza Raz,¹ Larry Tait,² and Avraham Raz³
¹*Wayne State University School of Medicine*, ²*Wayne State University*, and ³*Karmanos Cancer Institute*

P55-3* CYTOMETRIC ANALYSIS OF MULTIPLEX ANTIGEN STAINING IN HISTOPATHOLOGY
 Wiem Lassoued,¹ Gang Lin,² Andrea B. Troxel,¹ Sumit K. Nath,² Angela DeMichele,³ Ridha Oueslati,⁴ Youngmoo Kim,⁵ Badrinath Roysam,² Michael Feldman,³ and William Lee¹
¹*University of Pennsylvania*, ²*Rensselaer Polytechnic Institute*, ³*University of Pennsylvania Hospital*, ⁴*Centenary Institute of Cancer Medicine and Cell Biology*, and ⁵*Drexel and MCP Hahnemann Universities*

P55-4 REDUCED EXPRESSION OF TOCOPHEROL-ASSOCIATED PROTEIN (TAP/SEC14L2) IN HUMAN BREAST CANCER
 Shuyuan Yeh, Xi Wang, and Jing Ni
University of Rochester

P55-5 INFLAMMATORY BIOMARKERS FOR EARLY DETECTION OF BREAST CANCER
 Thomas Reid Brown and Denis Marc Callewaert
Oxford Biomedical Research, Inc.

P55-6 DETECTION OF BREAST CANCER CELLS IN BLOOD BY QUANTIFICATION OF HER-2 GENE AMPLIFICATION IN SINGLE CELLS
 Yuling Luo, John Flanagan, Fay Wang, and Yunqing Ma
Advanced Cell Diagnostics, Inc.

P55-7 NOVEL APPROACH TO HARNESS THE POWER OF THE IMMUNE SYSTEM TO DISCOVER RARE, BLOOD-BORNE BREAST TUMOR MARKERS WITH DIAGNOSTIC POTENTIAL
 Travis D. Lorentzen, Cynthia Nourigat, and Amanda Paulovich
Fred Hutchinson Cancer Research Center

P55-8 EARLY DETECTION OF BREAST CANCER
 Halgeir Rui,¹ Thai Hong Tran,² and Fransiscus Eri Utama²
¹*Lombardi Comprehensive Cancer Center* and ²*Thomas Jefferson University Kimmel Cancer Center*

P55-9 ATYPIA AND DNA METHYLATION IN NIPPLE DUCT LAVAGE IN RELATION TO PREDICTED BREAST CANCER RISK
 David Euhus, Dawei Bu, Raheela Ashfaq, Xian-Jin Xie, Aihua Bian, Marilyn Leitch, and Cheryl Lewis
University of Texas Southwestern Medical Center at Dallas

P55-10 TELOMERE DNA CONTENT PREDICTS OVERALL AND BREAST CANCER-FREE SURVIVAL INTERVALS
 Marco Bisoffi, Christopher M. Heaphy, Kathy B. Baumgartner, Richard N. Baumgartner, and Jeffrey K. Griffith
University of New Mexico Health Sciences Center

P55-11 BLOOD TUMOR MARKERS FOR MOLECULAR DIAGNOSIS OF BREAST CANCER: CORRELATION WITH DISEASE COURSE
 Melanie Palomares
City of Hope Medical Center

P55-12 RECOMBINANT PEPTIDES AS BIOMARKERS FOR METASTATIC BREAST CANCER RESPONSE TO MOLECULAR-TARGETED THERAPY
 Roberto Diaz, Ralph Joseph Passarella, Jessica Huamani, Hongmei Wu, Zhaozhong Han, and Dennis Eugene Hallahan
Vanderbilt University Medical Center

*Symposia Session

P55-13 EVALUATION OF BREAST-TISSUE ESTRADIOL AND TRIGLYCERIDES FROM A HIGH-RISK COHORT

Craig Rowell,¹ Victoria Seewaldt,² Siya Lem,² Sarah Kim,¹ and Mark Carpenter³
¹Duke University, ²Duke University Medical Center, and ³Auburn University

P55-14 THE BIOLOGICAL FUNCTION ANALYSIS OF DELTA-N-p63 IN BREAST CELLS

Hua Li
Dartmouth College

P55-15 DNA HYPERMETHYLATION PATTERNS DETECTED IN SERUM AS A TOOL FOR EARLY BREAST CANCER DIAGNOSIS

Jennifer D. Brooks, Roy Shore, Catherine Klein, Isaac Wirgin, Yelena Afanasyeva, Paul Cairns, and Anne Zeleniuch-Jacquotte
New York University School of Medicine

P55-16 HOW SPECIFIC FOR BREAST CANCER ARE SERUM BIOMARKERS IN PREMENOPAUSAL WOMEN?

Jonathan Lee Jesneck,¹ Sayan Mukherjee,² Anna E. Lokshin,³ Jeffrey R. Marks,⁴ Merlise Clyde,² and Joseph Y. Lo⁴
¹Dana-Farber Cancer Institute, ²Duke University, ³University of Pittsburgh, and ⁴Duke University Medical Center

P55-17 IDENTIFICATION OF PREGNANCY-ASSOCIATED BREAST CANCER (PABC) FOR INVESTIGATION OF THE ROLE OF MAMMARY GLAND INVOLUTION IN PROMOTING METASTASIS IN A NORWEGIAN COHORT OF BREAST CANCER CASES

Pepper Schedin, Virginia Borges, and Grethe Albrektsen
University of Colorado Denver, Health Sciences Center

P56 Stem Cells II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
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P56-1* **NUMB-MEDIATED ASYMMETRIC CELL DIVISION IN MAMMARY GLAND DEVELOPMENT**

Weimin Zhong, Panfeng Fang, Jogender Singh, and Kaiyong Zou
Yale University

P56-2* **EPIGENETIC REGULATION OF HUMAN NORMAL MAMMARY EPITHELIAL STEM CELL FUNCTION AND DIFFERENTIATION**

Kornelia Polyak, Noga Bloushtain-Qimron, Jun Yao, and Michail Shipitsin
Dana-Farber Cancer Institute

P56-3* **DYSREGULATED wnt SIGNALING IN DMBA-INDUCED MOUSE MAMMARY TUMORS SUGGESTS A STEM CELL ORIGIN**

Susan R. Rittling and Shi-Liang Ma
Forsythe Institute

P56-4* **SCRIBBLE LOSS ENRICHES FOR A MAMMARY PROGENITOR CELL**

Avi Z. Rosenberg,¹ Heather L. LaMarca,² Jeffery M. Rosen,² and Senthil K. Muthuswamy¹
¹Cold Spring Harbor Laboratory and ²Baylor College of Medicine

P56-5 **IDENTIFICATION AND TARGETED THERAPY FOR BREAST CANCER INITIATING CELLS**

Eldad Zackenhaus, Jeff C. Liu, Tao Deng, and Zhe Jiang
University Health Network, Toronto

P56-6 **THE “BIG BANG” OF BREAST ONCOLOGY: THE ORIGIN OF MAMMARY TUMORS**

Keisuke Iwamoto
University of California, Los Angeles

P56-7 **THE ISOLATION AND CHARACTERIZATION OF MOUSE MAMMARY STEM CELLS**

Geoffrey Wahl, Jennifer C. Lin, Dannielle Engle, and Benjamin T. Spike
Salk Institute

P56-8 **USE OF siRNA LIBRARY SCREENING TO SYSTEMATICALLY IDENTIFY THE MOLECULES INVOLVED IN RADIRESISTANCE IN BREAST CANCER**

Yulong Liang and Kaiyi Li
Baylor College of Medicine

P56-9 **CIRCULATING TUMOR CELLS AND STEM CELLS IN BREAST CANCER**

William Matsui, Zeshaan Rasheed, Ting Bao, and Vered Stearns
Johns Hopkins University School of Medicine

P56-10 **Met SIGNALING IN MAMMARY STEM CELL PROLIFERATION**

Carrie R. Graveel and Jack D. DeGroot
Van Andel Research Institute

P56-11 **STEM CELLS THAT GIVE RISE TO BREAST CANCER MAY HAVE ORIGINATED IN THE BONE MARROW**

Sanford H. Barsky
Ohio State University

P56-12 **ROLE OF BONE MARROW-DERIVED CELLS IN BREAST CANCER**

Gennadi Glinsky, Anna Glinskii, Jun Ma, Ian Guest, Olga Berezovska, Denise Grant, and Stewart Sell
Ordway Research Institute, Inc.

P56-13 **CHARACTERIZATION OF THE RADIRESISTANCE OF STEM-CELL LIKE CELLS IN BREAST CANCER CELL LINES**

Hong Yin and Jonathan Glass
Louisiana State University Health Sciences Center

P56-14 **IDENTIFICATION AND CHARACTERIZATION OF CXCR4-POSITIVE BREAST CANCER STEM CELLS**

Ramesh Ganju, Zahida Qamri, and Anil Prasad
Ohio State University College of Medicine

*Symposia Session

P56-15 DETECTING BREAST CANCER (BRCA) STEM CELLS AMONG CIRCULATING CYTOKERATIN (CK)+ HEA+ CELLS

Albert David Donnenberg,¹ Vera Svobodova Donnenberg,² and Rodney J. Landreneau³

¹*University of Pittsburgh Hillman Cancer Center*, ²*University of Pittsburgh, and* ³*University of Pittsburgh Cancer Institute*

P57 Cell Cycle

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P57-1* CKS1 SENSITIZES BREAST CANCER CELLS TO CHEMOTHERAPEUTIC AGENTS

Sonia del Rincon
Sidney Kimmel Cancer Center

P57-2* CDK INHIBITOR p18INK4c CONTROLS MAMMARY LUMINAL PROGENITOR CELL PROLIFERATION AND TUMORIGENESIS

Yue Xiong, Xin-Hai Pei, Feng Bai, Matthew D. Smith, and Charles M. Perou
University of North Carolina at Chapel Hill

P57-3 INVESTIGATING CYCLIN G2 EXPRESSION, LOCALIZATION, AND CELL CYCLE EFFECTS IN BREAST CANCER CELLS

Mary Horne and Aruni Pumila Singamkutti Arachchige-Don
University of Iowa

P57-4 CLOCK AND CLOCK-CONTROLLED GENE EXPRESSION IN MOUSE MAMMARY TISSUE

David Kennaway, Athena Voultsios, Lisa M. Butler, and Wayne D. Tilley
University of Adelaide

P57-5 ABSTRACT WITHDRAWN**P57-6 DISRUPTION OF THE CIRCADIAN RHYTHMS OF GENE EXPRESSION AND THE DEVELOPMENT OF BREAST CANCER**

Robert W. Moyer, Lisa M. Butler, Wayne D. Tilley, Jeng-Yie Chan, and David Kennaway
University of Adelaide

P57-7 TOWARD DESIGN OF A BISUBSTRATE ANALOG INHIBITOR OF CYCLIN A-cdk2

Brenda Schulman
St. Jude Children's Research Hospital

P57-8 PHOSPHORYLATION OF CENTRIN BY AURORA A DRIVES CENTROSOME AMPLIFICATION IN CANCER

Wilma L. Lingle, Kara B. Lukasiewicz, Tammy Greenwood, Jeffrey L. Salisbury, and Vivian Negron
Mayo Clinic and Foundation, Rochester

P57-9 pRB FAMILY PROTEINS AND THE EPIGENETIC CONTROL OF ESTROGEN RECEPTOR- α : A NOVEL AND INTRIGUING MECHANISM IN BREAST CANCER

Antonio Giordano, Marcella Macaluso, and Micaela Montanari
Sbarro Health Research Organization

P57-10 Cdk2 PHOSPHORYLATION ON THREONINE 39 BY PKB (AKT) AND ITS IMPLICATION ON CYCLIN BINDING, CELLULAR LOCALIZATION, AND CELL CYCLE PROGRESSION

Thiago Da Silva and Joyce Slingerland
University of Miami, School of Medicine

P57-11 RRP1B IS A SPECIFIC E2F1 TRANSCRIPTIONAL TARGET

Jason Chang Paik, Bing Wang, Fang-Tsyr Lin, and Wee-Chin Lin
University of Alabama at Birmingham

P57-12 CELL CYCLE REGULATORY ROLES OF ER- α IN BREAST CANCER

Sonia Kamrani
M. D. Anderson Cancer Center, University of Texas

P57-13 FUNCTIONAL ANALYSIS OF MITOTIC PHOSPHORYLATIONS IN BARD1

Ami Modi
Columbia University College of Physicians and Surgeons

P57-14 THE ROLE OF Cdk4 IN ErbB2, Ras AND Wnt-1-INDUCED BREAST TUMORIGENESIS

Haritha Kumari D. L. Reddy
Temple University

P57-15 Cav-1 AND CYCLIN D1 IN BREAST CANCER PATHOGENESIS

Michael Lisanti¹ and Richard Pestell²

¹*Sidney Kimmel Cancer Center and* ²*Jefferson Medical College*

P57-16 THE ROLE OF SOLUBLE EPIDERMAL GROWTH FACTOR RECEPTOR ISOFORMS IN REGULATING LIGAND AVAILABILITY AND RECEPTOR ACTIVATION

Melissa Campos,¹ Jill L. Reiter,² Kristin L. Bovat,¹ Charisse L. Mandimika,² Valsamo Anagnostou,² and David Rimm²
¹*Yale University School of Medicine* and ²*Yale University*

P57-17 CELL CYCLE EFFECTS AND MUTAGENICITY OF ETIDRONIC ACID TOWARDS MCF-7 HUMAN BREAST CANCER CELLS

Rajagopalan Sridhar, Desta Beyene, Yanfei Zhou, Alemayehu Kassa, Ebrahim Ashayeri, and Renshu Zhang
Howard University Hospital Cancer Center

P57-18 SMALL MOLECULE IBR2 TARGETING Rad51 RECOMBINASE FOR PROTEASOME DEGRADATION LEADS TO G1 ARREST AND RETARDS GROWTH OF BREAST CANCER CELLS

Jiewen Zhu and Longen Zhou
University of California, Irvine

P58 Functional Study of Biological Molecules II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P58-1* GENETIC SCREENS TO IDENTIFY GENES REQUIRED FOR CANCER CELL PROLIFERATION

Stephen Elledge
Brigham and Women's Hospital

P58-2*	BINDING SPECIFICITY OF INHIBITORY ANTIBODIES TO THE EXTRACELLULAR REGION OF EPIDERMAL GROWTH FACTOR RECEPTOR Karl R. Schmitz and Kathryn M. Ferguson <i>University of Pennsylvania</i>	P58-10 ABSENCE OF HIGH FREQUENCY SELADIN-1 MUTATIONS IN BREAST CANCER Konstantin Galaktionov, Irene Miloslavskaya, and Madhuri Hegde <i>Baylor College of Medicine</i>	P58-17 A NOVEL CLATHRIN COAT COMPLEX SUGGESTED FOR ENDOCYTIC RECYCLING OF ErbB2 Ming Bai and Victor W. Hsu <i>Brigham and Women's Hospital</i>
P58-3	DERREGULATION OF MATRIPTASE IN BREAST CANCER CELLS Chen-Yong Lin <i>University of Maryland, Baltimore</i>	P58-11 GLUCOCORTICOID-DEPENDENT REGULATION OF TUMOR-DERIVED TOLEROGENIC TRANSCRIPTION FACTOR FOXP3: ROLE IN TUMOR IMMUNORESISTANCE TO APOPTOSIS IN BREAST CANCER Hermes J. Garban, ¹ Samuel Y. Olson, ² Lilah Morris, ² Diana C. Marquez, ² and James S. Economou ² ¹ <i>University of California, Los Angeles</i> and ² <i>University of California, Los Angeles, David Geffen School of Medicine</i>	P58-18 hEcd, A NOVEL REGULATOR OF MAMMARY EPITHELIAL CELL SURVIVAL Vimla Band, ¹ Channabasavaiah B. Gurumurthy, ¹ Jun Hyun Kim, ¹ Ying Zhang, ² and Hamid Band ¹ ¹ <i>University of Nebraska Medical Center</i> and ² <i>Evanston Northwestern Healthcare Research Institute</i>
P58-4	THE STEROID RECEPTOR RNA ACTIVATOR PROTEIN REGULATES THE ACTIVITY OF TRANSCRIPTION FACTORS Etienne Leygue, Shilpa Chooniedass-Kothari, Yi Yan, Mohammad Hamedani, Sophie Carascossa, Yvonne Myal, Stephan Jalaguier, and Vincent Cavailles <i>University of Manitoba</i>	P58-12 IDENTIFICATION OF MESOTRYPSIN AS A SERINE PROTEASE INVOLVED IN BREAST CANCER PROGRESSION AND POTENTIAL THERAPEUTIC TARGET Evette S. Radisky <i>Mayo Clinic and Foundation, Jacksonville</i>	P58-19 DISSECTING KEY DETERMINANTS OF BREAST EPITHELIAL ARCHITECTURE John Muschler <i>California Pacific Medical Center</i>
P58-5	ROLE OF HISTONE DEMETHYLASE JARID1B IN BREAST CANCER Qin Yan, Jiayun Liu, and William G. Kaelin <i>Dana-Farber Cancer Institute</i>	P58-13 IDENTIFICATION OF MICRORNA-21 TARGET GENES BY A GENETIC SELECTION SYSTEM Fangting Wu and Yin-Yuan Mo <i>Southern Illinois University School of Medicine</i>	P59-1* IDENTIFICATION OF GENES AFFECTING BREAST CANCER DEVELOPMENT Hua Wang, Douglas Teske, Alyssa Tess, Christina Kendzierski, and Amy Rapaih Moser <i>University of Wisconsin, Madison</i>
P58-6	DISCOVERY AND ROLE OF A NOVEL EICOSANOID FAMILY IN BREAST CANCER Claus Schneider, Markus Griesser, and Takashi Suzuki <i>Vanderbilt University Medical Center</i>	P58-14 ABSTRACT WITHDRAWN	P59-2 DO STRUCTURAL MISSENSE VARIANTS IN THE ATM GENE FOUND IN WOMEN Steve Sommer <i>City of Hope Medical Center</i>
P58-7	AUTOCRINE AND PARACRINE EFFECTS OF PBP1, A HOMEOTIC PROTEIN, IN BREAST CANCER CELLS Patricia Berg, ¹ Jinguen Rheey, ² Louis Bivona, ² Yan-Gao Man, ³ and Kristen Baxter ² ¹ <i>George Washington University</i> , ² <i>George Washington University Medical Center</i> , and ³ <i>Armed Forces Institute of Pathology</i>	P58-15 FILLING IN THE GAP IN GALECTIN-1 EXPORT Subrahmanyewara U. Rao <i>Texas Tech University Health Sciences Center, Amarillo</i>	P59-3 CHEK2 MUTATIONS IN AFRICAN AMERICAN WOMEN WITH BREAST CANCER - RESULTS OF A BREAST CANCER FAMILY REGISTRY STUDY Carolyn Whitfield Broome, Janell Hill, Michael Lichten, Matthew George, and Esther John <i>Howard University College of Medicine</i>
P58-8	ABSTRACT WITHDRAWN	P58-16 IDENTIFICATION AND BIOLOGICAL CHARACTERIZATION OF A SMALL-MOLECULE ANTAGONIST OF RhoC GTPase Mei Wu, ¹ Zhi-Fen Wu, ² Zaneta Nikolovska-Coleska, ² Karl Merrick, ³ Shaomeng Wang, ¹ and Sofia D. Merajver ¹ ¹ <i>University of Michigan, Ann Arbor</i> , ² <i>University of Michigan Cancer Center</i> , and ³ <i>Cornell University, Weill Medical College</i>	P59-4 COP1, AN UBIQUITIN LIGASE OF p53, IS NEGATIVELY REGULATED BY 14-3-3 ζ Chun-Hui Su and Mong-Hong Lee <i>M. D. Anderson Cancer Center</i>
P58-9	NOVEL ACTIVITY FOR SNAIL IN INTEGRIN REGULATION Robin Bachelder and Hsin-Ying Chen <i>Duke University</i>		

*Symposia Session

P59-5* RESULTS FROM A GENOME-WIDE LINKAGE SCAN USING A COLON-BREAST CANCER PHENOTYPE

Denise Daley, Susan Lewis, Petra Platzer, Melissa McMillen, Joseph Willis, Robert C. Elson, Sanford D. Markowitz, and Georgia L. Wiesner
Case Western Reserve University

P59-6* URINARY 6-SULPHATOXYMELATONIN LEVELS AND RISK OF BREAST CANCER IN POSTMENOPAUSAL WOMEN: THE ORDET COHORT

Paola Muti,¹ Eva S. Schernhammer,² Franco Berrino,³ Vittorio Krogh,³ Giorgio Secreti,³ Andrea Micheli,³ Elisabetta Venturelli,³ Sabina Sieri,³ Christopher T. Sempos,⁴ Adalberto Cavalleri,³ and Sabrina Strano⁵
¹*Arizona Institute for Breast Health*,
²*Brigham and Women's Hospital*,
³*API National Cancer Survivors Network*, ⁴*State University of New York, Buffalo*, and ⁵*IFO - Italian National Cancer Institute, Regina Elena*

P59-7* THE BREAST CANCER IN AFRICAN WOMEN STUDY: ASSESSMENT OF LIFESTYLE QUESTIONNAIRE AND PRELIMINARY GENOTYPE ANALYSIS

Dana Robin Marshall,¹ Olufemi Adegoke,¹ Wei Zheng,² Jemimah Oduma,³ and Adedeffi Onayade⁴
¹*Meharry Medical College*, ^{Nashville}, ²*Vanderbilt University Medical Center*, ³*University of Nairobi*, and ⁴*Obafemi Awolowo University*

P59-8* GENOMIC PROFILING OF SPORADIC AND BRCA-RELATED BREAST CANCER

Jorunn Erla Eyfjord, Ólafur Andri Stefansson, Jon Gunnlaugur Jonasson, Oskar Thor Johannsson, Holmfridur Hilmarsdottir, Laufey Tryggvadottir, and Helga Margret Ogmundsdottir
University of Iceland

P59-9* GENETIC POLYMORPHISMS IN THE CATECHOL ESTROGEN METABOLISM PATHWAY AS MODIFIERS OF THE EFFECT OF HORMONE THERAPY IN BREAST CANCER RISK

Kerry W. Reding, Chu Chen, Christopher I. Li, Christopher S. Carlson, Jasmine Wilkerson, Frederico M. Farin, Janet R. Daling, and Kathleen E. Malone
Fred Hutchinson Cancer Research Center

P59-10* GENETIC POLYMORPHISMS IN THE SUPEROXIDE DISMUTASE-2 AND CATALASE GENES AND BREAST CANCER RISK: RESULTS FROM THE NASHVILLE BREAST HEALTH STUDY

Chuanzhong Ye,¹ Sandra L. Deming,¹ Ji-Rong Long,¹ Xiao-Ou Shu,² Wei Zheng,¹ and Qiuyin Cai¹
¹*Vanderbilt University Medical Center* and ²*Vanderbilt University*

P59-11 ASSOCIATION STUDIES OF REGIONAL GENOME SCAN TO IDENTIFY BREAST CANCER SUSCEPTIBILITY GENES

Qiuyin Cai,¹ Xiao-Ou Shu,² Chun Li,¹ Ji-Rong Long,¹ and Wei Zheng¹
¹*Vanderbilt University Medical Center* and ²*Vanderbilt University*

P59-12 CHEK2 1100DeIC VARIANT AND BRCA1 AND BRCA2 NEGATIVE FAMILIAL BREAST CANCER - A FAMILY-BASED GENETIC ASSOCIATION STUDY

Muhammad Kibriya and Habibul Ahsan
University of Chicago

P59-13 ROLE OF CYP1B1 IN PAH-DNA ADDUCT FORMATION AND BREAST CANCER RISK

Regine Goth-Goldstein, Marion Russell, Maira Caletti, Ana Paula Muller, Joao Eschiletti, Marcia Graudenz, Donghui Li, and Michael Sohn
Lawrence Berkeley National Laboratory

P59-14 MITOCHONDRIAL INFLUENCE ON BREAST CANCER METASTASIS SUSCEPTIBILITY

Scott Ballinger
University of Alabama at Birmingham

P59-15 ABSTRACT WITHDRAWN**P59-16** DISRUPTION OF PERIPHERAL CIRCADIAN RHYTHM GENES INITIATE BREAST TUMORIGENESIS

Nicoletta Sacchi, Joseph Esposito, and Stefano Rossetti
Roswell Park Cancer Institute, Buffalo

P60 Transcription, Translation, and Modification

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM**P60-1*** THE TRANSCRIPTION FACTOR C/EBP β 2 MEDIATES Erbb INDEPENDENCE AND TRASTUZUMAB RESISTANCE

Alisha Russell and Linda Sealy
Vanderbilt University Medical Center

P60-2 ROLE OF ANT ISOFORM EXPRESSION IN CONTROLLING ENERGETICS, PROLIFERATION, AND SURVIVAL OF BREAST CANCER CELLS

Kathleen Gallo and Geou-Yarn Liou
Michigan State University

P60-3 TRANSCRIPTIONAL REGULATION OF CREB-BINDING PROTEIN (CBP)

Gautham Pandiyan, Christine McMahon, Eric Dietze, Michelle Troch, Michelle Bowie, and Victoria Seewaldt
Duke University Medical Center

P60-4 DIRECT VISUALIZATION OF ESTROGEN RECEPTOR-MEDIATED TRANSCRIPTION IN LIVING CELLS

Paul Michael Yen,¹ Ty Voss,² and Gordon Hager²

¹*Johns Hopkins University*, *Bayview Medical Center* and

²*National Cancer Institute*

P60-5 REPRESSION-INDUCED GENE SILENCING IN MAMMALIAN CELLS

Mitchell Turker, Jon Oyer, Adriain Chu, and Sukhmani Brar
Oregon Health & Science University

*Symposia Session

P60-6 HISTONE MODIFICATIONS DOMINATE TRANSCRIPTION FACTOR EFFECTS IN REGULATING pS2 GENE EXPRESSION

Fern E. Murdoch, Akua K. Oduro, and Michael K. Fritsch
University of Wisconsin, Madison

P60-7 THE XIST NONCODING RNA FUNCTIONS INDEPENDENTLY OF BRCA1 IN X-INACTIVATION

Barbara Panning,¹ Judith Sharp,¹ Cuiying Xiao,² and Chuxia Deng³
¹*University of California, San Francisco*, ²*National Institute of Diabetes and Digestive and Kidney Diseases*, and ³*National Institutes of Health*

P60-8 ANALYSIS OF EZH2 FUNCTION AND TARGET GENE SILENCING IN BREAST CANCER CELLS

Liangjun Wang, Aswathy K. Nair, Carol A. Lange, and Jeffrey Simon
University of Minnesota, Twin Cities

P60-9 GENE EXPRESSION IN AFRICAN AMERICAN AND CAUCASIAN AMERICAN BREAST CANCERS

Carolyn Whitfield Broome,¹ Marina Michelle Ganpat,¹ Regina Wilson,¹ Yasmine Kanaan,¹ Jyoti Mehrotra,¹ Tammy Naab,¹ Hannah Lee,¹ Pedram Argani,² Shyam Biswal,¹ and Saraswati Sukumar²
¹*Howard University College of Medicine* and ²*Johns Hopkins University School of Medicine*

P60-10 DECIPHERING GENE REGULATORY NETWORKS USING GENEACT AND PRI

Xuedong Liu,¹ Tom Cheung,¹ Kristen K. Barthel,² and Pheonix L. Kwan²
¹*University of Colorado, Boulder* and ²*University of Colorado at Denver*

P60-11 GLOBAL SURVEY OF ALTERNATIVE SPlicing IN HUMAN CANCERS USING QUANTITATIVE MICROARRAY PROFILING

Christine M. Misquitta,¹ Ni Liu,² Qun Pan,¹ Ofer Shai,³ Leo J. Lee,³ Dave O'Hanlon,¹ Brendan J. Frey,³

Jeff Wrana,⁴ Ming-Sound Tsao,² and Benjamin Blencowe³

¹*University of Toronto C.H. Best Institute Banting and Best*, ²*University Health Network, Toronto*, ³*University of Toronto*, and ⁴*University of Toronto Mount Sinai Hospital*

P60-12 INDUCTION MECHANISMS OF SECRETORY CLUSTERIN IN BREAST CANCER: A PRO-SURVIVAL PROTEIN REGULATED BY IGF-1 AND p53

Eva M. Cataldo Goetz, Yonglong Zou, Bhavani Shivram-Shankar, and David A. Boothman
University of Texas Southwestern Medical Center at Dallas

P60-13 CELL ADHESION REGULATES Kaiso EXPRESSION AND FUNCTION IN HUMAN MAMMARY EPITHELIAL CELLS

Abigail Elizabeth Witt
Johns Hopkins University, East Baltimore Campus

P60-14 Kaiso-MEDIATED TRANSCRIPTIONAL REGULATION OF THE CELL CYCLE REGULATOR, CYCLIND1 AND ITS EFFECT ON TUMORIGENESIS
Michelle Anstey, Abena Otchere, Kevin Kelly, and Juliet Daniel
McMaster University

P60-15 MODULATING SPlicing OF STEROID RECEPTOR RNA ACTIVATOR (SRA) ALTERS THE EXPRESSION OF GENES INVOLVED IN BREAST TUMORIGENESIS AND ESTROGEN RECEPTOR SIGNALING

Etienne Leygue, Charlton Cooper, Jimin Guo, Shilpa Chooniedass-Kothari, Mohammad Hamedani, Anne Blanchard, Yvonne Myal, and Yi Yan
University of Manitoba

P60-16 HIGH-THROUGHPUT BISULFITE SEQUENCING ANALYSIS OF THE CANCER EPIGENOME BY 454-SEQUENCING

Huidong Shi,¹ Juyuan Guo,¹ Robin S. Kramer,¹ Tibor Rauch,² Dong

Xu,¹ Gerd P. Pfeifer,² and Bruce Roe³

¹*University of Missouri, Columbia*, ²*City of Hope Beckman Research Institute*, and ³*University of Oklahoma, Norman*

P60-17 THE ROLE OF ALTERNATIVE SPlicing IN BREAST CANCER PROGRESSION

Klemens Hertel
University of California, Irvine

P60-18 FORKHEAD BOX PROTEIN A1 ACTIVITY IN BREAST CANCER CELLS IS REGULATED BY SUMOYLATION

Narasimhaswamy S. Belaguli
Baylor College of Medicine

P60-19 ROLE OF p68 AND p72 RNA HELICASE IN BREAST CANCER

Ralf Janknecht, Steven Mooney, and Sook Shin
Mayo Clinic and Foundation, Rochester

P60-20 ACTIVATION OF CELLULAR IRES-MEDIATED TRANSLATION BY eIF4G IN VIVO

Constanze Kaiser, Shelton Bradrick, Elena Dobrikova, Mayya Shveygert, James Herbert, and Matthias Gromeier
Duke University Medical Center

P60-21 TRANSFER RNAs AS BIOMARKERS AND REGULATORS OF GENE EXPRESSION IN BREAST CANCER

Tao Pan, Mariana Pavon Eternod, Susanna Gomes, and Marsha Rosner
University of Chicago

P61 Genomics and Proteomics II

7:00–10:00 PM

*Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM*

P61-1* EPIDERMAL GROWTH FACTOR RECEPTOR PATHWAY ANALYSIS IN BREAST CANCER SUBTYPES

Katherine A. Hoadley
University of North Carolina at Chapel Hill

P61-2* IDENTIFICATION OF NOVEL TARGETS FOR THE TREATMENT OF ESTROGEN RECEPTOR-NEGATIVE BREAST CANCER

Corey Speers,¹ Anna Tsimelzon,² Susan Hilsenbeck,² Jenny Chang,¹ and Powel Brown²
¹Baylor College of Medicine and
²Baylor College of Medicine Breast Center

P61-3 IDENTIFYING DISTINCT MULTI-ETHNIC GENOME-WIDE ALTERATIONS IN BREAST CANCER USING PARAFFIN EMBEDDED SAMPLES

Lisa Baumbach-Reardon,¹ Mary Ellen Ahearn,¹ Merce Jorda,¹ Carmen Gomez,¹ Orlando Silva,¹ Tom A. Halsley,² Jim Yan,² Kevin Ellison,² and Stefan Gluck¹
¹University of Miami, School of Medicine and ²Almac Diagnostics, Durham, NC

P61-4 IDENTIFICATION OF 18Q TRANSCRIPTS DELETED IN BREAST CANCER

Teresa Johnson-Pais, Fumika Matoba, Devon Hall, Susan Naylor, and Robin Leach
University of Texas Health Science Center at San Antonio

P61-5 LONG, ABUNDANTLY EXPRESSED, NON-CODING TRANSCRIPTS ARE TARGETS OF ALTERATION DURING THE DEVELOPMENT OF BREAST CANCER

David Smith,¹ Damon Perez,¹ Jessica Silva,¹ Xing-Hong Ma,¹ Jay R. Pritchett,¹ Allison Lynne Ducharme-Smith,² and Meredith L. Halling¹
¹Mayo Clinic and Foundation, Rochester and ²University of Wisconsin, Madison

P61-6 HIGH-THROUGHPUT RNAI PHENOTYPIC SCREENING FOR THE IDENTIFICATION OF GENES THAT MODULATE ESTROGEN ACTIVITY IN HUMAN BREAST CANCER CELLS

David Azorsa
Translational Genomics Research Institute (TGen)

P61-7 PREDICTING MICRORNA-21 TARGET GENES IN MCF7 CELLS

Aaron Schetter

National Cancer Institute

P61-8 miRNAs IN BREAST CANCER PROGRESSION

Richard W. Padgett,¹ Yi Sun,¹ Maocheng Yang,¹ and Michael Reiss²

¹State University of New Jersey, Rutgers and ²University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

P61-9 MICRORNA TARGET DETECTION AND ANALYSIS FOR GENES RELATED TO BREAST CANCER USING MDLCOMPRESS

Andrew Soliz Torres,¹ Scott Evans,² and Douglas Conklin³
¹GE Research and Development Center, ²GE Global Research, and ³State University of New York, Albany

P61-10 COORDINATE POSTTRANSCRIPTIONAL REGULATION OF CANCER GENES BY THE RNA BINDING PROTEIN HUR

Ulus Atasoy, Joseph Magee, and Matt Gubin
University of Missouri, Columbia

P61-11 DETECTION OF GENES MODIFYING SENSITIVITY TO CHEMOTHERAPEUTICS USING AN shRNA LIBRARY IN BREAST CANCER

Gregory Hannon
Cold Spring Harbor Laboratory

P61-12 NEW GENOMIC STRATEGIES TO ACCELERATE THE DISCOVERY OF BREAST CANCER GENES

Spyro Mousses
Translational Genomics Research Institute (TGen)

P61-13 AN RNAi SCREEN IDENTIFIES ENHANCED TRIGLYCERIDE STORAGE AS A SURVIVAL FACTOR FOR BREAST CANCER CELLS WITH THE ERBB2 AMPLICON

Douglas S. Conklin,¹ Antonis Kourtidis,¹ Richard D. Carkner,² and M. Julia Brosnan²

¹State University of New York, Albany and ²Ordway Research Institute, Inc.

P61-14 HuR MEDIATED POST-TRANSLATION REGULATION OF PROLIFERATION RELATED GENES IN MCF-7 CELLS

Barry Henderson, Diane M. Spencer, and R. Bentley Cheatham
Ribonomics, Inc.

P61-15 DIFFERENTIAL PATTERNS OF ALLELIC LOSS IN ESTROGEN RECEPTOR-POSITIVE INFILTRATING LOBULAR AND DUCTAL BREAST CANCER

Peggy L. Porter
Fred Hutchinson Cancer Research Center

P62 Hormone Receptors II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM

Even-numbered – 8:30–10:00 PM

P62-1 DIFFERENT PROLACTIN RECEPATORS MEDIATE DIFFERENT FUNCTIONS IN BREAST CANCER CELLS SUGGESTING THE IMPORTANCE OF A SHORT AND A SOLUBLE FORM TO NORMAL BREAST HEALTH

Kuang-Tzu Huang
University of California, Riverside

P62-2 ELUCIDATING THE ROLE OF ESTROGEN-RELATED RECEPTOR α IN BREAST CANCER

Rebecca Stein and Stephanie Gaillard
Duke University Medical Center

P62-3 BREAST CANCER LYMPHATIC DISSEMINATION: INFLUENCE OF ESTROGEN AND PROGESTERONE

J. Chuck Harrell and Kathryn B. Horwitz
University of Colorado Denver, Health Sciences Center

*Symposia Session

P62-4	27-HYDROXYCHOLESTEROL IS AN ENDOGENOUS SELECTIVE ESTROGEN RECEPTOR MODULATOR (SERM) Carolyn D. DuSell, ¹ Michihisa Umetani, ² Philip W. Shaul, ² David J. Mangelsdorf, ² and Donald P. McDonnell ³ ¹ Duke University Medical Center, ² University of Texas Southwestern Medical Center at Dallas, and ³ Duke University	P62-9	ERRy: DOES AN ORPHAN NUCLEAR RECEPTOR LINK STEROID HORMONE BIOGENESIS TO ENDOCRINE RESISTANCE? Rebecca Riggins, ¹ Jennifer P-J Lan, ¹ and Robert Clarke ² ¹ Georgetown University and ² Georgetown University Medical Center	P62-14	ACTIVATION OF THE STEROID AND XENOBIOTIC RECEPTOR, SXR, INDUCES APOPTOSIS IN BREAST CANCER CELLS Suman Verma <i>University of California, Irvine</i>
P62-5	ESTROGEN RECEPTOR ALPHA PROTEIN COMPLEXES IN MCF-7 BREAST CANCER CELLS Fern E. Murdoch, ¹ Damien Carter, ² Minna Ahonen, ² Elaine T. Alarid, ¹ Michael K. Fritsch, ¹ and Amy L. Weinberg ¹ ¹ University of Wisconsin, Madison and ² Uniformed Services University of the Health Sciences	P62-10	DEFINING REGIONS OF THE ESTROGEN RECEPTOR- α THAT SELECTIVELY CONTROL ITS ESTRADIOL- AND TAMOXIFEN-STIMULATED ACTIVITY Debra Frances Skafar <i>Wayne State University</i>	P62-15	TRANSCRIPTIONAL CONTROL OF STEROIDOGENIC ENZYMES BY ESTROGEN-RELATED RECEPTOR α AND PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR GAMMA COACTIVATOR-1 α Linda Grasfeder, ¹ Stephanie Gaillard, ¹ Stephen Hammes, ² and Donald McDonnell ¹ ¹ Duke University Medical Center and ² University of Texas Southwestern Medical Center at Dallas
P62-6	PHOSPHORYLATION-DEPENDENT ANTAGONISM OF SUMOYLATION DE-REPRESSES PROGESTERONE RECEPTOR ACTION IN BREAST CANCER CELLS Andrea Daniel <i>University of Minnesota, Twin Cities</i>	P62-11	THE ANDROGEN RECEPTOR INHIBITS ESTROGEN RECEPTOR α (ER) SIGNALING AND PREDICTS OUTCOME IN ER POSITIVE BREAST CANCERS Wayne Tilley, ¹ Carmela Ricciardelli, ¹ Tina Bianco-Miotto, ² Amelia A. Peters, ¹ Margaret M. Centenera, ¹ Nicole L. Moore, ³ Niamh Murphy, ⁴ Dave Segara, ⁴ Catriona McNeil, ⁴ Susan M. Henshall, ⁴ Rob L. Sutherland, ⁴ Andrew J. Sakko, ¹ Grant Buchanan, ¹ Stephen N. Birrell, ⁵ and Lisa M. Butler ¹ ¹ University of Adelaide, ² University of Adelaide School of Medicine, ³ Baylor College of Medicine, ⁴ Garvan Institute of Medical Research, and ⁵ Flinders Medical Centre	P62-16	IDENTIFICATION OF UBIQUITIN SYSTEM COMPONENTS INVOLVED IN LIGAND-DEPENDENT TURNOVER OF ESTROGEN RECEPTOR Senthil Kumar Radhakrishnan and Raymond J. Deshaies <i>California Institute of Technology</i>
P62-7	QUANTIFYING ER FUNCTION USING HIGH-THROUGHPUT IMAGING IN BREAST AND OTHER CANCER CELLS Zelton David Sharp ¹ and Michael Mancini ² ¹ University of Texas Health Science Center at San Antonio and ² Baylor College of Medicine	P62-12	LACK OF A MAJOR PHENOTYPE IN SCAFFOLD ATTACHMENT FACTOR B2 (SAFB2)-NULL MICE REVEALS ALTERNATE FUNCTIONS IN SAFB2 COMPARED TO ITS PARALOG SAFB1 Shiming Jiang <i>Baylor College of Medicine</i>	P62-17*	AIB1/SRC-3 IS REQUIRED FOR NEU (ERBB2/HER2) ACTIVATION, SIGNALING, AND MAMMARY TUMORIGENESIS IN MICE Anna Riegel ¹ and Mark Fereshteh ² ¹ Lombardi Comprehensive Cancer Center and ² Georgetown University Medical Center
P62-8	MICRORNA SIGNATURES OF ER α : miR-221 AND miR-222 NEGATIVELY REGULATE ER α AND ASSOCIATE WITH TAMOXIFEN SENSITIVITY IN BREAST CANCER Jianjun Zhao, William Kong, Hua Yang, Jianhong Lin, Lili He, and Jin Q. Cheng <i>H. Lee Moffitt Cancer Center & Research Institute at University of South Florida</i>	P62-13	METASTATIC TUMOR ANTIGEN 3 IS A DIRECT COREPRESSOR OF THE Wnt4 PATHWAY AND REGULATES MAMMARY DUCTAL BRANCHING Hao Zhang <i>M. D. Anderson Cancer Center, University of Texas</i>	P62-18	ELEVATED LEVELS OF CIRCULATING IGF-I DO NOT MODULATE ErbB2-INDUCED MAMMARY TUMORIGENESIS Adrian Lee, Isere Kuijtsse, Susan Galloway Hilsenbeck, Powell H. Brown, Jianming Xu, and Robert K. Dearth <i>Baylor College of Medicine</i>

P63 Endocrine Pathogenesis II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P63-1	HORMONES OF PREGNANCY, AFP, AND REDUCTION OF BREAST CANCER RISK Herbert Jacobson, Nicole Lemanski, Amithi Narendran,
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Anu Agarwal, James Bennett, and Thomas Andersen <i>Albany Medical College</i>	P63-7 AUTOCRINE HUMAN GROWTH HORMONE REGULATES CYTOCHROME P450 AROMATASE IN A HUMAN MAMMARY CARCINOMA CELL LINE AND REDUCES SENSITIVITY TO AN AROMATASE INHIBITOR IN VITRO Jo Kate Perry, Teresa Wen-Shan Yang, Prudence M. Grandison, and Peter E. Lobie <i>University of Auckland</i>	P63-13 ESTRADIOL, IN MODERATE BUT NOT LOW DOSAGES, ADMINISTERED TO OVARIECTOMIZED RATS HAS ANXIOLYTIC AND ANTI-DEPRESSANT-LIKE EFFECTS AND TROPHIC EFFECTS IN PERIPHERAL TISSUES Alicia A. Walf and Cheryl A. Frye <i>State University of New York, Albany</i>
P63-2* CONTROL OF ESTROGEN-REGULATED MICRORNA EXPRESSION BY AKT Harikrishna Nakshatri, ¹ Nikhail R. Collins, ¹ Yunlong Liu, ¹ Michael J. Thomson, ¹ Guohua Wang, ¹ Poornima Bhat-Nakshatri, ¹ Tim Geistlinger, ² Jason S. Carroll, ¹ Myles Brown, ² and Scott Hammond ³ ¹ <i>Indiana University-Purdue University, Indianapolis</i> , ² <i>Dana-Farber Cancer Institute</i> , and ³ <i>University of North Carolina at Chapel Hill</i>	P63-8 PROHIBITIN IS INVOLVED IN THE ANTIPIROLIFERATIVE ACTION OF VITAMIN D IN BREAST CANCER CELLS Rajeshwari Mehta, ¹ X. Peng, ² and Rajendra Mehta ² ¹ <i>University of Illinois, Chicago</i> and ² <i>IIT Research Institute</i>	P63-14 STABLE EXPRESSION OF HUMAN VITAMIN D RECEPTOR IN MURINE VITAMIN D RECEPTOR KNOCK-OUT CELLS RESTORES 1,25D-MEDIATED GROWTH INHIBITION Joellen Welsh and Meggan Keith <i>University of Notre Dame</i>
P63-3* HISTONE DEACETYLASE 2 (HDAC2) MEDIATES THE POTENTIATION OF TAMOXIFEN BY HDAC INHIBITORS Pamela N. Munster, Elona Bicaku, Douglas C. Marchion, and Morgan L. Schmitt <i>H. Lee Moffitt Cancer Center & Research Institute at University of South Florida</i>	P63-9 ANDROGEN REGULATES KITL EXPRESSION IN NORMAL BREAST EPITHELIUM AND AN ANDROGEN RECEPTOR POSITIVE BREAST CANCER CELL LINE Theresa Hickey, ¹ Aleksandra Ochnik, ¹ Tina Bianco-Miotto, ¹ Lisa Butler, ² and Wayne Tilley ² ¹ <i>University of Adelaide School of Medicine</i> and ² <i>University of Adelaide</i>	P63-15 RETINOL-RETINOIC ACID HOMEOSTASIS IS INTERTWINED WITH HUMAN MAMMARY EPITHELIAL CELL MORPHOGENESIS Francesca Corlazzoli, Gaia Bistolfi, and Nicoletta Sacchi <i>Roswell Park Cancer Institute, Buffalo</i>
P63-4* PROLACTIN ANTAGONIZES CHEMOTHERAPEUTIC-INDUCED CYTOTOXICITY IN BREAST CANCER CELLS Nira Ben-Jonathan and Elizabeth W. LaPensee <i>University of Cincinnati</i>	P63-10 ABNORMAL MAMMARY GLAND DEVELOPMENT AND GROWTH RETARDATION IN FEMALE MICE AND MCF7 BREAST CANCER CELLS LACKING ANDROGEN RECEPTOR Chawnshang Chang, Shuyuan Yeh, and Yueh-Chiang Hu <i>University of Rochester</i>	P63-16 ESTROGEN-MEDIATED REPRESSION OF REPRIMO - ROLE OF ESTROGEN RECEPTOR ALPHA AND HDAC7 Simeen Zubairy, Chad Creighton, Adrian Lee, and Steffi Oesterreich <i>Baylor College of Medicine</i>
P63-5* AIB1 KNOCKOUT MICE ARE RESISTANT TO CHEMICAL CARCINOGEN-INDUCED MAMMARY TUMORIGENESIS Jianming Xu, Shao-Qing Kuang, Lan Liao, Shu Wang, Daniel Medina, and Bert W. O'Malley <i>Baylor College of Medicine</i>	P63-11 BIDIRECTIONAL CROSSTALK BETWEEN LEPTIN AND IGF-1 SIGNALING TRANSACTIVATES EPIDERMAL GROWTH FACTOR RECEPTOR AND PROMOTES INVASION AND MIGRATION OF BREAST CANCER CELLS Dipali Sharma <i>Emory University</i>	P63-17 ERAP75 FUNCTIONS AS A COACTIVATOR TO ENHANCE ESTROGEN RECEPTOR α TRANSACTIVATION IN BREAST CANCER CELLS Shuyuan Yeh, Ming Chen, Jing Ni, and Mesut Muyan <i>University of Rochester</i>
P63-6 THE IMPACT OF STRESS ON TUMOR GROWTH: THE SIGNIFICANCE OF PERIPHERAL CORTICOTROPIN RELEASING FACTOR Christos Tsatsanis, Alicia Arranz, Maria Venihaki, Olga Rassouli, Ariadne Androulidaki, and Andrew N. Margioris <i>University of Crete</i>	P63-12 PROGESTERONE RECEPTOR-MEDIATED REGULATION OF CELL CYCLE IN BREAST CANCER Hilary Ogden and Donald McDonnell <i>Duke University Medical Center</i>	P63-18 GENOME-WIDE SCREENING REVEALS AN ESSENTIAL ROLE OF p27kip1 IN RESTRICTION OF BREAST CANCER PROGRESSION Jianming Xu, Yuhui Yuan, Li Qin, Ray-Chang Wu, and Zhou Songyang <i>Baylor College of Medicine</i>

**Symposia Session*

P63-19 ALTERED PROGESTERONE RECEPTOR ISOFORMS EXPRESSION IN MAMMARY CANCERS IN THE RAT
Anastasia Kariagina and Sandra Haslam
Michigan State University

P63-20 IDENTIFICATION OF HYPOXIA-INDUCIBLE FACTOR INHIBITORS
Siva Kolluri¹ and Xiao-Kun Zhang²
¹*Oregon State University* and
²*Burnham Institute*

P63-21 THE TUMOR SUPPRESSOR, WWOX1, ATTENUATES WBP-2- AND YAP1-MEDIATED SYNERGISTIC ENHANCEMENT OF ER AND PR TRANSCRIPTIONAL ACTIVITIES
Sarah Dhananjayan¹ and Zafar Nawaz²
¹*University of Miami, School of Medicine* and ²*Creighton University*

P64 Angiogenesis

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P64-1* NOTCH REGULATES THE ANGIOGENIC RECEPTOR VEGFR-3 IN ENDOTHELIAL CELLS AND BREAST TUMOR VESSELS
Jan Kitajewski,¹ Yasuhiro Funahashi,² and Carrie J. Shawber³
¹*Columbia University Medical Center*, ²*Columbia University College of Physicians and Surgeons*, and ³*Columbia University*

P64-2* ESTROGEN-MEDIATED CELLULAR REMODELING USING BM-EPCS: NOVEL THERAPEUTIC TARGET FOR BREAST CANCER
Raj K. Tiwari,¹ Robert Suriano,¹ Rajasingh Johnson,² Erin Lambers,² Ashok Badithe,¹ and Raj Kishore²
¹*New York Medical College* and
²*Northwestern University*

P64-3* THE ROLE OF CAPILLARY MORPHOGENESIS GENE 2 IN BREAST CANCER NEOVASCULARIZATION
Claire Reeves¹ and Jan Kitajewski²
¹*Columbia University College of Physicians and Surgeons* and

²*Columbia University Medical Center*

P64-4* A NOVEL GLYCOTHERAPEUTIC FOR CURING BREAST CANCER
Dipak K. Banerjee,¹ Aditi Banerjee,¹ Juan A. Martinez,¹ Mien-Chie Hung,² and Krishna Baksi¹
¹*University of Puerto Rico, San Juan School of Medicine* and
²*M. D. Anderson Cancer Center, University of Texas*

P64-5 TARGETED MOLECULAR THERAPY OF BREAST CANCER-DERIVED BRAIN METASTASES
Fernanda I. Staquicini
M. D. Anderson Cancer Center, University of Texas

P64-6 OVEREXPRESSION OF VEGF BY MCF-7 BREAST CANCER CELLS PROMOTES ESTROGEN-INDEPENDENT TUMOR GROWTH IN VIVO
Shi-Yuan Cheng,¹ Ping Guo,¹ Quan Fang,¹ Bruce M. Fenton,² Ivan Ding,¹ and Bo Hu¹
¹*University of Pittsburgh Cancer Institute* and ²*University of Rochester*

P64-7 INTRACRINE SURVIVAL OF HUMAN BREAST CARCINOMA CELLS BY VEGF, VEGFR-1 AXIS
Shalom Avraham, Hava Karsenty Avraham, and Seyha Seng
Beth Israel Deaconess Medical Center

P64-8 THE UNEXPECTED STRIDES OF ANGIOGENESIS
Lyuba Varticovski
National Cancer Institute

P64-9 T-CADHERIN IS REQUIRED FOR ADIPONECTIN ASSOCIATION AND VASCULAR SUPPORT OF MMTV-PYV-MT MAMMARY TUMORS
Barbara Ranscht,¹ Lionel W. Hebbard,¹ Martin Denzel,¹ Michele Garlatti,¹ Lawrence J. T. Young,² Robert D. Cardiff,² and Robert G. Oshima¹
¹*Burnham Institute* and ²*University of California, Davis*

P64-10 FUNCTIONAL CHARACTERIZATION OF THE NOVEL BREAST TUMOR ENDOTHELIAL MARKER, SFRP2, ON ANGIOGENESIS IN THE CHICK CHORIOALLANTOIC MEMBRANE IN VIVO AND IN VITRO

Nancy Demore, Andrew Courtwright, Eleanor Hilliard, David Ketelsen, Erik Olsson, Robert Bagnell, Charles M. Perou, and Cam Patterson
University of North Carolina at Chapel Hill

P64-11 THICK-MATRIX CAPILLARY-PERFUSED BREAST TISSUE BIOREACTOR FOR STUDYING ANGIOGENESIS AND METASTASIS IN BREAST CANCER
John P. Wikswo,¹ Lisa J. McCawley,¹ Dmitry A. Markov,¹ Deyu Li,¹ David K. Schaffer,¹ Philip C. Samson,¹ Jenny Q. Lu,¹ Nicola C. Asgill,¹ P. Charles Lin,¹ and Jin Chen²
¹*Vanderbilt University* and
²*Vanderbilt University Medical Center*

P64-12 ENDOTHELIAL ADHESION IN FIBROBLAST-DERIVED 3-D MATRIX
Lewis Romer, Jan H. Hoh, and Patricia Arauz
Johns Hopkins University School of Medicine

P65 Signal Transduction II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM

P65-1* FLY TO MOUSE: A NEW APPROACH TO CANCER METASTASIS

Ross Cagan,¹ Marcos Vidal,² Emanuela Heller,² Lorena Salavaggione,² Lourdes Ylagan,² Mark Watson,² Mark Wilkins,² Jill Fink,² and Katherine Weilbaecher²
¹*Mount Sinai School of Medicine, New York* and ²*Washington University*

P65-2*	A NOVEL SCREEN FOR SMALL MOLECULE MODULATORS OF THE WNT SIGNALING PATHWAY Ramanuj Dasgupta and Foster Gonsalves <i>New York University School of Medicine</i>	Antipolis, and ³ University of Michigan Cancer Center	P65-14 ABSTRACT MOVED TO P30-28
P65-3	THE RECRUITMENT OF c-Src TO ErbB-2 CATALYTIC DOMAIN IS A CRITICAL EVENT IN ErbB-2 MEDIATED TRANSFORMATION William Muller, Richard Marcotte, Calvin Roskelly, Lixin Zhou, and Harold Kim <i>McGill University</i>	P65-8 THE ROLE OF RAL G-PROTEINS IN AUTOPHAGY Brian Oliver Bodenmann and Michael White <i>University of Texas Southwestern Medical Center at Dallas</i>	P65-15 A NOVEL ROLE FOR p115 RhoGEF AND LARG IN FIBRONECTIN-INDUCED RhoA ACTIVATION Adi D. Dubash, Krister Wennerberg, Rafael Garcia-Mata, Marisa Menold, and Keith Burridge <i>University of North Carolina at Chapel Hill</i>
P65-4	INTEGRIN α 5 β 1 CAUSES STABILIZATION OF CORTICAL ACTIN FIBERS VIA FOCAL ADHESION SIGNALING AND DOWNREGULATION OF RhoA GTP IN DORMANT BREAST CANCER CELLS IN AN IN VITRO MODEL Robert Wieder and Judith Barrios <i>University of Medicine and Dentistry of New Jersey Medical School, Newark</i>	P65-9 TARGETING Rheb SIGNALING AND POSTTRANSLATIONAL PROCESSING FOR THE TREATMENT OF BREAST CANCER Ariella Binah Hanker and Channing J. Der <i>University of North Carolina at Chapel Hill</i>	P65-16 NONLINEAR IMAGING OF Rho ACTIVITY IN BREAST CANCER CELLULAR MODELS Steven Trier, Suzanne M. Ponik, Kevin W. Elceir, and Patricia J. Keely <i>University of Wisconsin, Madison</i>
P65-5	CELLULAR LOCALIZATION OF THE ACTIVATED EGFR DETERMINES ITS EFFECT ON CELL GROWTH Brian P. Ceresa and Dustin Hyatt <i>University of Oklahoma Health Sciences Center</i>	P65-10 VITAMIN D RECEPTOR ENHANCES TCF7L2 EXPRESSION, WHICH MAY SUBSEQUENTLY INHIBIT WNT-REGULATED GENES IN THE BREAST Marcy E. Beildeck <i>Georgetown University</i>	P65-17 ALTERED EGFR LOCALIZATION AND DEGRADATION IN HUMAN BREAST CANCER CELLS WITH AN AMPHIREGULIN AUTOCRINE LOOP Nicole E. Willmarth and Stephen P. Ethier <i>Karmanos Cancer Institute</i>
P65-6	THE ACTIVATION KINETICS OF ERK1,2 DETERMINES THE MORPHOLOGICAL RESPONSE IN MAMMARY DUCTS Jimmie Eugene Fata, ¹ Hidetoshi Mori, ² Andrew J. Ewald, ³ Zena Werb, ³ and Mina J. Bissell ² ¹ <i>City University of New York, College of Staten Island</i> , ² <i>Lawrence Berkeley National Laboratory</i> , and ³ <i>University of California, San Francisco</i>	P65-11 ROLE OF THE P97 AAA-ATPase IN LIGAND-DEPENDENT NUCLEAR LOCALIZATION OF EPIDERMAL GROWTH FACTOR RECEPTOR Monica Red-Brewer and Graham Carpenter <i>Vanderbilt University</i>	P65-18 PHOSPHOLIPASE C γ 1 REGULATES FIBRONECTIN ASSEMBLY Cornelia Elizabeth Crooke <i>Vanderbilt University Medical Center</i>
P65-7	UNDERSTANDING THE ROLE OF RhoC GTPase IN INFLAMMATORY BREAST CANCER: A DUAL MATHEMATICAL-EXPERIMENTAL STUDY Alejandra C. Ventura, ¹ Jacques A. Sepulchre, ² Zhifen Wu, ³ Mei Wu, ¹ Jorge R. Tredicce, ² and Sofia D. Merajver ¹ ¹ <i>University of Michigan</i> , ² <i>Institut Non Linéaire de Nice (INLN)</i> - <i>Université de Nice Sophia</i>	P65-12 ROLE OF Stat5 IN HUMAN BREAST CANCER Amy Ryder, ¹ Fransiscus E. Utama, ¹ Thai H. Tran, ¹ and Hallgeir Rui ² ¹ <i>Thomas Jefferson University Kimmel Cancer Center</i> and ² <i>Lombardi Comprehensive Cancer Center</i>	P65-19 CHARACTERIZATION OF Odin, A NOVEL INHIBITORY MOLECULE, IN EGF RECEPTOR SIGNALING Jun Zhong ¹ and Akhilesh Pandey ² ¹ <i>Johns Hopkins University School of Medicine</i> and ² <i>Johns Hopkins University, East Baltimore Campus</i>
P65-13	ACTIVATED Akt1 ACCELERATES MMTV-c-ErbB2 MAMMARY TUMORIGENESIS IN MICE WITHOUT ACTIVATION OF ErbB3 Christian Daniel Young, ¹ Erica Nolte, ¹ Andrew Lewis, ¹ Natalie J. Serkova, ¹ and Steven M. Anderson ² ¹ <i>University of Colorado at Denver</i> and ² <i>University of Colorado Denver, Health Sciences Center</i>	P65-20 DIFFERENTIAL EFFECTS OF Stat3 INHIBITION IN SPARSE VERSUS CONFLUENT NORMAL AND BREAST CANCER CELLS Aikaterini Anagnostopoulou <i>Queen's University</i>	P65-21 p130Cas AND BCAR3-MEDIATED REGULATION OF c-Src KINASE ACTIVITY Natasha Rose Schuh, Randy S. Schrecengost, Michael S. Guerrero, and Amy H. Bouton <i>University of Virginia</i>

*Symposia Session

P65-22 OVEREXPRESSION OF EphA2 RECEPTOR DESTABILIZES ADHERENS JUNCTIONS VIA A RhoA-DEPENDENT MECHANISM
Wei Fang
Vanderbilt University

P65-23 PHLPP: A NOVEL FAMILY OF PHOSPHATASES THAT ARE CRITICAL REGULATORS OF Akt AND PKC SIGNALING AND PLAY A POTENTIAL ROLE IN BREAST CANCER
John Fiscles Brognard, Tianyan Gao, and Alexandra C. Newton
¹*University of California, San Diego*

P65-24 THE ROLE OF p55γ IN PHOSPHATIDYLINOSITOL 3-KINASE FUNCTION
Youhong Wang
Georgetown University

P65-25 FAK POTENTIATES Rac1 ACTIVATION AND LOCALIZATION TO MATRIX ADHESION SITES: A ROLE FOR β-PIX
Lewis Romer,¹ Christopher Lemmon,¹ Dongeon Park,² and Fumin Chang¹
¹*Johns Hopkins University School of Medicine* and ²*Seoul National University, Korea*

P65-26 INHIBITION OF ADAPTER TYPE MOLECULE p130Cas SIGNALING IN BREAST CANCER
Ziyang Yu,¹ Yingshe Zhao,¹ Bor-Tyh Lin,¹ Shefali Soni,¹ Chengyin Min,¹ Siddharth Vora,² July R. Palmer,³ Lynn Rosenberg,³ Philip C. Trackman,² Gail E. Sonenshein,¹ and Kathrin H. Kirsch¹
¹*Boston University School of Medicine*, ²*Boston University Goldman School of Dental Medicine*, and ³*Boston University, Boston Campus*

P65-27 DETECTING SIGNALING PATHWAY ACTIVATIONS THROUGH SINGULAR VALUE DECOMPOSITION BASED BINARY REGRESSION
Zhandong Liu,¹ Min Wang,² Mahlet Tadesse,¹ and Lewis Chodosh¹
¹*University of Pennsylvania* and ²*University of Pennsylvania School of Medicine*

P66 Tumor Suppressor Genes II

7:00–10:00 PM

*Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM*

P66-1* TARGETING P53-INDEPENDENT APOPTOSIS IN BASAL-LIKE BREAST CANCERS
Leif W. Ellisen, Chee-Onn Leong, and Matthew Ramsey
Massachusetts General Hospital

P66-2 INAPPROPRIATE CELL CYCLE PROGRESSION DUE TO THE Cdc25B ONCOGENE TRIGGERS A p53-DEPENDENT CHECKPOINT: A ROLE FOR DNA DAMAGE PATHWAYS IN BREAST ONCOGENESIS
James J. Manfredi and Shohreh Varmeh-Ziae
Mount Sinai School of Medicine, New York

P66-3* A MICRORNA COMPONENT OF THE p53 TUMOR SUPPRESSOR NETWORK
Gregory Hannon
Cold Spring Harbor Laboratory

P66-4 SUPPRESSION OF BREAST CANCER GROWTH BY RE-ACTIVATION OF ENDOGENOUS MUTANT p53 PROTEIN BY PRIMA-1
Salman Hyder, Yayun Liang, Indira Benakanakere, and Cynthia Besch-Williford
University of Missouri, Columbia

P66-5 CRITICAL ROLES OF PHOSPHORYLATION IN ACTIVATING p53 TUMOR SUPPRESSION ACTIVITY
Yang Xu
University of California, San Diego

P66-6 TCP80 AND RHA ARE POSITIVE p53 IRES TRANS-ACTING FACTORS POORLY EXPRESSED IN CANCER CELLS WITH DEFECTIVE p53 RESPONSE TO DNA DAMAGE
Da-Qing Yang and Marie-Jo Halaby
University of South Dakota

P66-7 IDENTIFICATION OF NOVEL TUMOR SUPPRESSOR GENES IN HUMAN BREAST CANCER USING NONSENSE-MEDIATED mRNA DECAY INHIBITION (NMDI)-MICROARRAY ANALYSIS

Cameron N. Johnstone, Lissy Hu, and Anil K. Rustgi
University of Pennsylvania School of Medicine

P66-8 ALTERED FUNCTION p53 MISSENSE MUTATIONS ASSOCIATED WITH BREAST CANCER CAN HAVE SUBTLE EFFECTS ON TRANSACTIVATION
Jennifer Joanne Jordan,¹ Alberto Inga,² Lisa A. Carey,¹ Kathleen Conway,¹ and Michael A. Resnick³
¹*University of North Carolina at Chapel Hill*, ²*National Institute for Cancer Research, IST, Genoa, Italy*, and ³*National Institute of Environmental Health Sciences*

P66-9 A MICRORNA COMPONENT OF THE p53 TUMOR SUPPRESSOR NETWORK
Xingyue He and Elizabeth Murchison
Cold Spring Harbor Laboratory

P66-10 PILOT STUDY ON FACTORS SECRETED BY DIFFERENTIATING MAMMARY EPITHELIAL CELLS (MECS) THAT CAN SUPPRESS PROLIFERATION OF BREAST CANCER CELLS
Xuning Guo
University of California, Irvine

P66-11 THE ROLE OF THE Wwox TUMOR SUPPRESSOR IN BREAST CANCER
Haiyan Qin,¹ Dimitrios Illiopoulos,¹ Gulnur Guler,² and Kay Huebner¹
¹*Ohio State University* and ²*Hacettepe University*

P66-12 FoxP3 IS AN X-LINK TUMOR SUPPRESSOR GENE IN BREAST CANCER
Weiquan Li,¹ Jennifer Nicodem,¹ Tao Zou,² Yang Liu,³ and Pan Zheng¹
¹*University of Michigan, Ann Arbor*, ²*Ohio State University*, and ³*University of Michigan Medical School*

P66-13 CELLULAR RETINOL BINDING PROTEIN-1 (CRBP1) IS A GROWTH REGULATOR IMPORTANT FOR PARITY-MEDIATED PROTECTION IN THE MAMMARY GLAND

Sallie Schneider, Lesley Mathews, Stacy Carvalho, James Webb, and D. Joseph Jerry
University of Massachusetts, Amherst

P66-14 EXAMINING THE ROLE OF DOWN SYNDROME CRITICAL REGION 1 GENE IN MAMMARY CELL PROLIFERATION

Tami Kingsbury
University of Maryland School of Medicine

P66-15 ABSTRACT WITHDRAWN

P66-16 DETECTION OF TUMOR SUPPRESSOR GENE MUTATIONS IN DCIS USING OLIGONUCLEOTIDE RESEQUENCING ARRAYS

Lesleyann Hawthorn, Jennifer Ann Rothschild, Jianmin Wang, David Chervinsky, and Ping Liang
Roswell Park Cancer Institute, Buffalo

P66-17 IDENTIFYING CANDIDATE BREAST TUMOR SUPPRESSORS USING INHIBITION OF NONSENSE MEDIATED mRNA DECAY IN MCF-10A CELLS TRANSFORMED BY RANDOM MUTAGENESIS WITH FRAMESHIFT MUTAGEN ICR191 AND SELECTING IN TISSUE CULTURE CONDITION THAT MIMIC TUMOR ENVIRONMENT

Yuriy Ionov and Helena Zientek Targo
Roswell Park Cancer Institute, Buffalo

P66-18 IDENTIFICATION OF A CELL SENESCENCE GENE SEN16 AT 16Q24.3 FOR BREAST TUMOR CELLS

Raghbir S. Athwal, Gursurinder Pal Kaur, and Gurpreet Kaur
Temple University School of Medicine

P66-19 XANTHINE OXIDOREDUCTASE IS DOWNREGULATED IN INVASIVE MAMMARY EPITHELIAL CELLS

Richard M. Wright,^{1,2} Mehdi A. Fini,^{1,2} David Orchard-Webb,³ Beata Kosmider,^{1,2} Jeremy D. Amon,⁴ Robert Kelland,³ and Gayle Shabao¹
¹*Webb-Waring Institute for Cancer, Aging and Antioxidant Research,*
²*University of Colorado Health Sciences Center,* ³*University of Bath, Bath, U.K.,* ⁴*Princeton University*

P66-20 MASPIN ACTS ON CELL SURFACE AND IN THE CYTOPLASM TO SUPPRESS TUMORIGENESIS AND TUMOR METASTASIS

Ming Zhang
Northwestern University Medical School

P66-21 NO-DETECTABLE AND DECREASED EXPRESSION OF CHROMOSOME 6-ENCODED PHOSTENSIN TRANSCRIPTS IN HUMAN BREAST CANCER

Yan An Su, Jun Yang, and Ping He
George Washington University Medical Center

P66-22 SYSTEMATIC EXPLORATION OF CELL ADHESION AND CYTOSKELETAL GENES AS TUMOR SUPPRESSORS IN BREAST CANCER

Jude Kendall, Jianping Zhang, Nancy Liu-Sullivan, Robert Lucito, James Hicks, Michael Wigler, Scott Powers, and David Mu
Cold Spring Harbor Laboratory

P67 BRCA1 & BRCA2 Tumor Suppressors II

7:00–10:00 PM

*Posters Manned: Odd-numbered – 7:00–8:30 PM
Even-numbered – 8:30–10:00 PM*

P67-1 THE ROLE OF BRCA1 PROMoter METHYLATION IN DETERMINING CHEMOSENSITIVITY IN VITRO

Rita Nanda
University of Chicago

P67-2 FUNCTIONAL ASSAYS FOR CLASSIFICATION OF BRCA2 VARIANTS OF UNCERTAIN SIGNIFICANCE

Daniel Joseph Farrugia,¹ David E. Goldgar,² Sean V. Tavtigian,³

Jennifer Mentlick,¹ Kiley Johnson,¹ Noralane Lindor,¹ and Fergus J. Couch¹

¹*Mayo Clinic and Foundation, Rochester,* ²*University of Utah, and* ³*International Agency for Research on Cancer*

P67-3 STUDYING MAMMARY TUMOR METASTASIS USING BRCA1 CONDITIONAL MUTANT MICE

Chu-Xia Deng,¹ Cuiying Xiao,² and Wenmei Li¹

¹*National Institutes of Health and* ²*National Institute of Diabetes and Digestive and Kidney Diseases*

P67-4* GENETIC SCREENING FOR NOVEL FACTORS INVOLVED IN DNA DAMAGE RESPONSE PATHWAY MEDIATED BY TUMOR SUPPRESSOR BRCA1

Inder Verma, Gerald Pao, Quan Zhu, Niels-Bjarne Woods, and Dinorah Morvinski
Salk Institute

P67-5* ROLE OF COFACTOR OF BRCA1 (COBRA1) IN MAMMARY TUMORIGENESIS

Jianlong Sun,¹ Long Wang,¹ Luzhe Sun,¹ Sarah Aiyar,² Wen G. Jiang,³ and Rong Li¹

¹*University of Texas Health Science Center at San Antonio,* ²*University of Virginia School of Medicine, and* ³*Cardiff University*

P67-6* A NOVEL ROLE FOR BRCA1 IN THE MITOTIC SPINDLE ASSEMBLY

Vladimir Joukov, Aaron C. Groen, Tatyana Prokhorova, Ruth Gerson, Erin White, Alison Rodriguez, Johannes C. Walter, and David M. Livingston
Dana-Farber Cancer Institute

P67-7* SPONTANEOUS TUMOR DEVELOPMENT IN MICE CARRYING A TARGETED MUTATION OF THE Chk2 PHOSPHORYLATION SITE IN BRCA1

Yanfen Hu,¹ Brian D. Allen,¹ and Chu-Xia Deng²

¹*University of Texas Health Science Center at San Antonio and* ²*National Institutes of Health*

**Symposia Session*

P67-8	THE RELATIONSHIP OF BRCA1 TO REPLICATION OF PERICENTRIC HETEROCHROMATIN AND ITS IMPLICATIONS FOR BROAD EPIGENOMIC INSTABILITY IN CANCER Gayle Jeannette Pageau and Jeanne B. Lawrence <i>University of Massachusetts Medical School</i>	P67-15	BRCA1 MEDIATES CLEAVAGE OF RNAPII WITHIN A HIGHLY CONSERVED TRANSCRIPTION-DEPENDENT DAMAGE SURVEILLANCE PATHWAY Craig Bennett, Tammy Westmoreland, Carmel Verrier, Carrie Blanchette, Tiffany Sabin, Hemali Phatnani, Yuliya Mishina, Gudrun Huper, Alice Selim, Ernest Madison, Dominique Bailey, Adebola Falae, Alvaro Galli, John Olson, Jr., Arno Greenleaf, and Jeffrey Marks <i>Duke University Medical Center</i>	P68-2*	A SMALL MOLECULE COMPOUND SELECTIVELY INHIBITS Akt, INCLUDING AKT1-E17K, AND TUMOR GROWTH IN CANCER CELLS WITH HYPERACTIVATED Akt Jin Q. Cheng, Mei Sun, Han-Cai Dan, Donghwa Kim, Domenico Coppola, and Said M. Sebti <i>H. Lee Moffitt Cancer Center & Research Institute at University of South Florida</i>
P67-9	MAPPING MAMMARY EPITHELIAL CELL TRANSFORMATION IN BRCA1 MUTANT MICE Gerburg Wulf, Laura Burga, and Mark Wotkowicz <i>Beth Israel Deaconess Medical Center</i>	P67-16	ABSTRACT WITHDRAWN	P68-3*	Ets TRANSCRIPTION FACTORS AND TARGET GENES IN NORMAL MAMMARY TISSUE AND TUMORS Gabriele Foos, ¹ Craig A. Hauser, ² Robert G. Oshima, ² and Christina K. Galang ³ ¹ <i>Scripps Research Institute</i> , ² <i>Burnham Institute</i> , and ³ <i>Genomics Institute of the Novartis Research Foundation</i>
P67-10	REGULATION OF BRCA1 EXPRESSION BY Sam68 Thippurthi Reddy, Suhasini Modem, Herve C. Gerard, and Alan P. Hudson <i>Wayne State University</i>	P67-17	ROLES OF BRCA1 IN MAMMARY HOMEOSTASIS Saori Furuta <i>University of California, Irvine</i>	P68-4	MUC1 IS A NOVEL REGULATOR OF ErbB1 RECEPTOR TRAFFICKING Rachid El Bejjani <i>University of Arizona, Tucson</i>
P67-11	TUMOR SUPPRESSION BY BRCA1: A CRITICAL ROLE AT DNA REPLICATION FORKS? Jean Gautier, Lily Wang, and Merav Ben-Yehoyada <i>Columbia University College of Physicians and Surgeons</i>	P67-18	BREAST CANCER SUSCEPTIBILITY GENE 1 SUPPRESSES PROGESTERONE STEROID HORMONE RECEPTORS Yen-Ru Pan <i>University of California, Irvine</i>	P68-5	BREAST CANCER PHENOTYPE IS Affected BY THE CELL ORIGIN Yi Li and Wen Bu <i>Baylor College of Medicine</i>
P67-12	MECHANISMS OF SILENCING AND DESILENCING OF BRCA2 GENE EXPRESSION IN HUMAN BREAST CELLS Gautam Chaudhuri and Smita Misra <i>Meharry Medical College, Nashville</i>	P68-1*	TEL-NTRK3 FUSION ONCOGENE INITIATES BREAST CANCER FROM COMMITTED MAMMARY PROGENITORS VIA ACTIVATION OF AP1 COMPLEX Stuart Orkin, ¹ Zhe Li, ¹ Cristina Tognon, ² Frank Godinho, ¹ Laura Yasaitis, ¹ Hanno Hock, ³ Jason Herschkowitz, ⁴ Chris Lannon, ² Eunah Cho, ⁵ Seong-Jin Kim, ⁵ Roderick Bronson, ⁶ Charles Perou, ⁴ and Poul Sorensen ² ¹ <i>Children's Hospital, Boston</i> , ² <i>British Columbia Cancer Research Centre</i> , ³ <i>Massachusetts General Hospital</i> , ⁴ <i>University of North Carolina at Chapel Hill</i> , ⁵ <i>National Cancer Institute</i> , and ⁶ <i>Harvard Medical School</i>	P68-6	Gli1 PROMOTES GROWTH, MIGRATION, AND INVASION OF BREAST EPITHELIAL CELLS Yeon-Jin Kwon, ¹ Natalya Frolova, ¹ Adam Steg, ¹ Martin R. Johnson, ¹ Susan M. Lobo Ruppert, ¹ J. Michael Ruppert, ² and Andra R. Frost ¹ ¹ <i>University of Alabama at Birmingham</i> and ² <i>University of Alabama at Birmingham Comprehensive Cancer Center</i>
P67-13	A FACS ASSAY FOR E3 UBIQUITIN LIGASE ACTIVITY AS A MODEL TO STUDY BRCA1 IN HUMAN BREAST CANCER David Davido, Joshua Hilliard, and Anne Cooper <i>University of Kansas, Lawrence</i>	P68-7	MICRORNA INHIBITORS AS ANTICANCER THERAPEUTICS Scott Hammond <i>University of North Carolina at Chapel Hill</i>		
P67-14	TARGETING BRCA1 TO DNA DAMAGE SITES Xiaochun Yu <i>University of Michigan Medical School</i>	P68-8	INHIBITION OF KLF6-SV1: INITIAL EXPLORATION OF A POTENTIALLY NOVEL BREAST CANCER TARGET John Martignetti <i>Mount Sinai School of Medicine, New York</i>		

*Symposia Session

- P68-9 Deregulation of Death-Domain-Associated Protein in Breast Cancer Cells**
 Xiaolu Yang, Jun Tang, Yide Mei, and Like Qu
University of Pennsylvania
- P68-10 Assessment of GPR30, a Seven-Transmembrane-Spanning Estrogen Receptor, as an Oncogene**
 Edward Filardo
Rhode Island Hospital
- P68-11 Aberrant Expression of Germline-Specific Transcription Factor OCT-4 and Mammary Tumorigenesis**
 Feng-Qi Zhao, Yogi Misra, and Guo Zhang
University of Vermont
- P68-12 Akt1—A New Target for Hormone Therapy?**
 Adriana Stoica, Molly Proskine, Rebecca Slack, Ying Qiu Chen, Jennifer C. Fagel, Emily Pan Wang, and Robert Russell
Lombardi Comprehensive Cancer Center
- P68-13 RNAi as a Tool for Determining the Role of Carcinoembryonic Antigen in Breast Cancer**
 Rajesh K. Gaur, Shikha Gaur, Veronica Gusti, Usha Gundimeda, and Venina Tomasian
City of Hope Beckman Research Institute
- P68-14 Identification of ErbB-2 Kinase Domain Motifs Required for Geldanamycin-Induced Degradation**
 Graham F. Carpenter
Vanderbilt University
- P68-15 EGFR Cooperates with STAT3 to Induce Epithelial-Mesenchymal Transition in Cancer Cells via Upregulation of TWIST Gene Expression**
 Hui-Wen Lo,¹ Sheng-Chieh Hsu,¹ Weiyu Xia,¹ Xinyu Cao,¹ Jin-Yuan Shih,¹ Yongkun Wei,¹ James

- Abbruzzese,¹ Gabriel Hortobagyi,² and Mien-Chie Hung²
¹Duke University Medical Center and ²M. D. Anderson Cancer Center, University of Texas
- P68-16 ATM Mediated-Phosphorylation of Death-Domain-Associated Protein Regulates DNA Damage-Induced p53 Activation**
 Xiaolu Yang, Jun Tang, Like Qu, Michael Brewer, and Bing Hu
University of Pennsylvania
- P68-17 Vulnerability of Normal Human Mammary Epithelial Cells to Oncogenic Transformation**
 James C. Garbe,¹ Mark W. Jackson,² and Martha Stampfer¹
¹Lawrence Berkeley National Laboratory and ²Case Western Reserve University
- P68-18 Tumor Chaperone Protein Synuclein Gamma (SNCG) Chaperones ER and PI3K-Akt-mTOR Signaling Pathway and Renders Endocrine and Drug Resistance**
 Yuenian Eric Shi
Feinstein Institute for Medical Research

- P69-2* Role of Mammary Gland Involution in Promoting Metastasis in Pregnancy-Associated Breast Cancer (PABC)**
 Pepper Schedin, Jenean O'Brien, Traci Lyons, Pat Bell, Yan Gao Man, Storey Wilson, Scott Lucia, and Virginia Borges
University of Colorado Denver, Health Sciences Center
- P69-3* 3D Organotypic Models of Ductal Carcinoma In Situ (DCIS): Models for Assessing Stromal Effects on Progression to Invasion and Increased Proteolysis**
 Christopher Jedeszko,¹ Mansoureh Sameni,¹ Galia Blum,² Matthew Bogyo,² and Bonnie F. Sloane¹
¹Wayne State University and ²Stanford University
- P69-4 A Zebrafish Genetic Model of the Breast Cancer Microenvironment**
 James Amatruda
University of Texas Southwestern Medical Center at Dallas
- P69-5 CD151 Promotes Breast Tumor Progression by Regulating α 6 Integrin Functions, Signaling, and Molecular Organization**
 Andrea L. Richardson,¹ Maria Torres-Arzayus,² Pengcheng Zhou,² Myles Brown,² Xiuwei Yang,² and Martin Hemler²
¹Brigham and Women's Hospital and ²Dana-Farber Cancer Institute
- P69-6 Passage of microRNA from Bone Marrow Stroma to Breast Cancer Cells via Gap Junctions: Consequence for Cancer Cell Quiescence Close to the Endosteum**
 Pranelia Rameshwar and Marcelo Taborga
University of Medicine and Dentistry of New Jersey, Newark

P69 Stromal-Epithelial Interactions II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
 Even-numbered – 8:30–10:00 PM

- P69-1 Modulation of NF- κ B in the Macrophage Lineage: Effects on Mammary Development and Tumorigenesis**
 Fiona Yull,¹ Linda Connelly,¹ Leshana Saint Jean,¹ Taylor Sherrill,¹ April Newsome,¹ Rachel Pigg,¹ Dong-Sheng Cheng,¹ Wei Han,¹ Tahera Zubauwala,² Michael Ostrowski,² and Timothy Blackwell¹
¹Vanderbilt University Medical Center and ²Ohio State University

P69-7	INFLUENCE OF c-KIT EXPRESSION IN STROMA ON BREAST CANCER GROWTH AND RESPONSE TO TARGETED THERAPY James Bennett, Nicole Lostitro, Juan Andres Melendez, and Joseph Mazurkiewicz <i>Albany Medical College</i>	P69-12	TAMOXIFEN TREATMENT FUNCTIONALLY ALTERS THE RAT MAMMARY STROMA SUGGESTING A ROLE FOR ECM IN TUMOR SUPPRESSION Pepper Schedin, Rhonda Hattar, Shauntae McDaniel, Sandra Biroc, Kirk Hansen, and Anthony Elias <i>University of Colorado Denver, Health Sciences Center</i>	P70-6	A CRITICAL ROLE OF ID4 IN MAMMARY DEVELOPMENT Yi Li and Jie Dong <i>Baylor College of Medicine</i>
P69-8	SECOND HARMONIC GENERATION IMAGING OF STROMAL CHANGES DURING MOUSE MAMMARY TUMOR DEVELOPMENT Trevor David McKee and Rama Khokha <i>University Health Network, Toronto</i>			P70-7*	A HUMAN MAMMARY EPITHELIAL CELL (HMEC) CULTURE SYSTEM FOR THE STUDY OF NORMAL HMEC BIOLOGY AND CARCINOGENESIS Martha Stampfer and James Garbe <i>Lawrence Berkeley National Laboratory</i>
P69-9	THE EFFECT OF THREE-DIMENSIONAL GROWTH ON EPITHELIAL-TO-MESENCHYMAL TRANSITION IN HUMAN BREAST CANCER CELLS Jennifer Erica Rosen, ¹ Susana Wishnia, ² Cassandra Noack, ² and Catherine Klapperich ² ¹ <i>Boston Medical Center</i> and ² <i>Boston University, Boston Campus</i>	P70-1	CREATING A BIOREPOSITORY OF "NORMAL" TISSUE AND BIOMOLECULES FOR BREAST CANCER RESEARCH Connie Rufenbarger <i>Catherine Peachey Fund</i>	P70-8	THE ROLE OF HEDGEHOG SIGNALING IN MAMMARY GLAND DEVELOPMENT Adriana Visbal, Michael T. Lewis, and Jeffrey M. Rosen <i>Baylor College of Medicine</i>
P69-10	TUMOR-DERIVED Cyr61(CCN1) PROMOTES STROMAL MATRIX METALLOPROTEINASE PRODUCTION AND ANGIOGENESIS Lidiya Covic, Nga Nguyen, and Athan Kuliopoulos <i>Tufts-New England Medical Center</i>	P70-2	MAMMARY GLAND DEVELOPMENT IN IL-10 KNOCKOUT MICE Shiu-Ming Kuo and Patricia A. Masso-Welch <i>State University of New York, Buffalo</i>	P70-9	MAMMARY EPITHELIAL-SPECIFIC DELETION OF THE FOCAL ADHESION KINASE GENE LEADS TO SEVERE LOBULO-ALVEOLAR HYPOPLASIA AND SECRETORY IMMATURITY OF THE MURINE MAMMARY GLAND Tamas Nagy <i>University of Georgia</i>
P69-11	ROLE OF CELL ADHESION MICROENVIRONMENT AND THE Src-Stat3 AXIS IN AUTOCRINE HGF SIGNALING DURING BREAST TUMORIGENESIS Bruce E. Elliott, ¹ Blerta Starova, ² Michelle Sam, ² and Christopher Mueller ¹ ¹ <i>Queen's University</i> and ² <i>Queen's University Cancer Research Institute</i>	P70-3	GLOBAL CHANGES IN PATTERNING OF HISTONE MODIFICATIONS MARK MAMMARY GLAND MATURATION AND DIFFERENTIATION Monique Rijnkels, Violeta Chen, David Edwards, and Daniel Medina <i>Baylor College of Medicine</i>	P70-10	Fog2 FUNCTION IN THE MAMMARY GLAND DEVELOPMENT Sergei G. Tevosian, Nikolay L. Manuylov, and Fatima O. Smagulova <i>Dartmouth College</i>
		P70-4	MAMMARY INTRADUCTAL FOAM CELLS ARE BONE MARROW DERIVED AND ARE RECRUITED IN RESPONSE TO BOTH PHYSIOLOGICAL AS WELL AS NEOPLASTIC STIMULI Sanford H. Barsky, Yi Xiao, Yin Ye, and Kurtis Yearsley <i>Ohio State University</i>	P70-11	USE OF A UNIQUE HUMAN BREAST TISSUE ENGINEERING MODEL TO DETERMINE THE ROLE OF ENVIRONMENTAL XENOBIOTICS IN AFRICAN AMERICAN BREAST CANCER ETIOLOGY Jean Latimer, ¹ Stephen G. Grant, ² Amie Benson Courtney, ³ Nicole T. Myers, ³ and Tiffany Miles ³ ¹ <i>University of Pittsburgh</i> , ² <i>University of Pittsburgh Hillman Cancer Center</i> , and ³ <i>University of Pittsburgh Cancer Institute</i>
		P70-5	CONTROLLED DIFFERENTIATION OF ADIPOSE CELLS: TOWARD RECONSTRUCTION OF BREAST TISSUE Cheryl T. Gomillion and Karen J.L. Burg <i>Clemson University</i>		

*Symposia Session

P70-12 CELL FUSION IN NORMAL DEVELOPMENT AND ABNORMAL GROWTH

Dimitrina Pravtcheva and Thomas L. Wise
New York State Institute for Basic Research in Developmental Disabilities

P71 Tumor Progression II

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
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P71-1 CAPTURE OF CIRCULATING CANCER CELLS USING MICROFLUIDIC SYSTEMS

J. A. Schroeder, Siu Lun Cheung, Xiangjun Zheng, Ashley S. Stopa, Ronald L. Heimark, James C. Baygents, Roberto Z. Guzman, and Yitshak Zohar
University of Arizona, Tucson

P71-2* GENE EXPRESSION PATTERNS WHICH DISTINGUISH BASAL B (MESENCHYMAL) HUMAN BREAST CANCER CELL LINES FROM BASAL A OR LUMINAL ARE EXHIBITED BY PURIFIED HUMAN BREAST CANCER STEM CELLS. EVIDENCE OF EPITHELIAL MESENCHYMAL TRANSITION IN CLINICAL SPECIMENS

Erik Thompson,¹ Tony Blick,² Edwin Widodo,¹ Honor Hugo,³ Don F. Newgreen,³ M. Leigh Ackland,⁴ Marc E. Lenburg,⁵ Richard M. Neve,⁶ and Mark Waltham²
¹*University of Melbourne*, ²*St. Vincent's Institute of Medical Research*, ³*Murdoch Children's Research Institute*, ⁴*Deakin University, Burwood, Australia*, ⁵*Boston University School of Medicine*, and ⁶*Lawrence Berkeley National Laboratory*

P71-3* CHROMOSOME ENGINEERING AND SLEEPING BEAUTY INSERTIONAL MUTAGENESIS TO IDENTIFY 1p TUMOR SUPPRESSORS AND OTHER GENETIC EVENTS IN BREAST CANCER PROGRESSION

Christopher Hackett,¹ Timothy K. Starr,² Lara S. Collier,³ Adam J. Dupuy,⁴ Nigel Killeen,¹ Zena

Werb,¹ David A. Largaespada,² and William A. Weiss¹

¹*University of California, San Francisco*, ²*University of Minnesota, Twin Cities Cancer Center*, ³*University of Wisconsin, Madison*, and ⁴*University of Iowa*

P71-4 EPITHELIAL TO MESENCHYMAL TRANSITION IN BREAST CANCER IS ASSOCIATED WITH RESISTANCE TO THERAPY AND A CANCER STEM CELL-LIKE PHENOTYPE

Keith L. Knutson, Marta Santisteban, Haluska Paul, Kalli Kimberly, James Ingle, and Hartmann Lynn
Mayo Clinic and Foundation, Rochester

P71-5 MicroRNA AND BREAST CANCER PROGRESSION

Konstantin Galaktionov
Baylor College of Medicine

P71-6 GENETIC DISSECTION OF THE ROLE OF HEPARAN SULFATE IN MAMMARY TUMOR PROGRESSION

Yu Yamaguchi and Kazu Matsumoto
Burnham Institute

P71-7* MATRIX METALLOPROTEINASES IN BREAST CANCER PROGRESSION

Lynn Matrisian
Vanderbilt University

P71-8 SYSTEMATIC SCREENING OF THE REGULATORS FOR EPITHELIAL-TO-MESENCHYMAL TRANSITION IN BREAST CANCER

Yulong Liang and Kaiyi Li
Baylor College of Medicine

P71-9 THE ROLE OF ERBP IN BREAST CANCER PROGRESSION

Tony Yiwei Zhu and Yijun Zhu
Northwestern University

P71-10 CD151 AFFECTS ErbB2-STIMULATED MAMMARY TUMOR PROGRESSION

Martin E. Hemler
Dana-Farber Cancer Institute

P71-11 AN IN VITRO SYSTEM FOR SIMULATING THE TUMOR MICROENVIRONMENT

Lauren Woods¹ and Michael Gamcsik²
¹*University of North Carolina at Chapel Hill* and ²*North Carolina State University*

P71-12 ANNEXIN II INTERACTION WITH tPA ON BREAST CANCER CELL SURFACE FACILITATES PLASMIN GENERATION WHICH MAY BE INVOLVED IN NEOANGIOGENESIS AND AGGRESSIVE PHENOTYPE OF CANCER

Mahesh C. Sharma, Miriam R. Smith, and Chalon Saunders
Drexel University College of Medicine

P71-13 DIRECT PHYSICAL CONTINUATION OF NORMAL APPEARING BREAST TISSUES WITH MALIGNANT BREAST LESIONS

Yan-Gao Man
Armed Forces Institute of Pathology

P71-14 THE ROLE OF LAMININ 5 IN CANCER PROGRESSION

Shanshan Liu and Cherise Guess
Vanderbilt University Medical Center

P71-15 THE ROLE OF THE TYPE III TGF-β RECEPTOR CYTOPLASMIC DOMAIN IN BREAST CANCER PROGRESSION

Jason Lee, Nadine Hempel, and Gerard C. Blobé
Duke University Medical Center

P71-16 GPR54 HAPLOINSUFFICIENCY DELAYS MMTV-PYMT-PREDISPOSED MAMMARY TUMOR PROGRESSION

Sung Gook Cho,¹ Ying Wang,² Melitza Rodriguez,² and Mingyao Liu²

¹*Texas A & M University* and

²*Texas A & M University System Health Sciences Center Research Foundation*

**P72 Cell Migration/
Invasion II**

7:00–10:00 PM

Posters Manned: Odd-numbered – 7:00–8:30 PM
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**P72-1* TOLL-LIKE RECEPTOR-9
AGONISTS STIMULATE BREAST
CANCER INVASION**

Katri Vuopala,¹ Arja Jukkola-Vuorinen,² Eeva Rahko,² Joanna Ilvesaro,³ Kevin Harris,³ David Graves,³ and Katri Selander³
¹*Central Hospital of Lapland, Rovaniemi, Finland*, ²*University Hospital of Oulu, Finland*, and ³*University of Alabama at Birmingham*

**P72-2* AN IN VITRO STUDY OF BREAST
CANCER INVASION INTO THE
LYMPHATICS**

Melody Swartz and Jacqueline Shields
Ecole Polytechnique Federale de Lausanne

**P72-3 MICRORNA-21 REGULATES
TUMOR GROWTH AND INVASION
BY TARGETING MULTIPLE
TUMOR SUPPRESSOR GENES**
Yin-Yuan Mo and Shoumin Zhu
Southern Illinois University School of Medicine

**P72-4 FIBRINOGEN INDUCES
ENDOTHELIAL CELL
PERMEABILITY AND PROMOTES
TRANSENDOTHELIAL MIGRATION
OF MDA-MB-231 BREAST
CANCER CELLS**
Patricia Simpson-Haidaris, Abha Sahni, Maria Arevalo, and Sanjeev Sahni
University of Rochester

**P72-5 THE TUMORIGENIC POTENTIAL
OF RECONSTITUTED TISSUES
WITH PREDEFINED CELLULAR
HISTOLOGY; A MODEL FOR
TUMOR INVASION**
Izhak Haviv,¹ Erik Thompson,² Christina Restall,¹ and Robin Anderson¹
¹*Peter MacCallum Cancer Centre* and ²*University of Melbourne*

**P72-6 HUMAN BREAST MYOEPITHELIAL
CELLS CAN EXHIBIT
LYMPHOVASCULOGENIC
MIMICRY**
Sanford H. Barsky, Sepi Mahooti, Yin Ye, Yi Xiao, Susie Jones, and Kyle Porter
Ohio State University

**P72-7 MICROTENTACLES FORMED
FROM KINESIN-DEPENDENT
COORDINATION OF VIMENTIN
AND DETYROSINATED TUBULIN
PROMOTE THE ADHESION OF
DETACHED BREAST TUMOR
CELLS**
Stuart S. Martin,¹ Rebecca A. Whipple,² Eric M. Balzer,¹ Jennifer R. Yoon,¹ Edward H. Cho,² Michael M. Matrone,¹ and Agnes M. Cheung¹
¹*University of Maryland, Baltimore* and ²*University of Maryland School of Medicine*

**P72-8 A GENOME-WIDE RNA
INTERFERENCE SCREEN IN
HUMAN MAMMARY EPITHELIAL
CELLS TO IDENTIFY GENES
INVOLVED IN ANOIKIS**
Stephane Gobeil and Michael R. Green
University of Massachusetts Medical School

**P72-9 HUMAN FETUIN-A IS A STRONG
PROMOTER OF ANCHORAGE-INDEPENDENT GROWTH
AND SURVIVAL OF BREAST
CARCINOMA CELLS**
Josiah Ochieng, Bobby Guillory, and Christine Adhiambo
Meharry Medical College, Nashville

**P72-10 ACTIVATION OF MYOSIN LIGHT
CHAIN KINASE IN ENDOTHELIUM
BY INVADING BREAST CANCER
CELL: A 3D FRET STUDY**
Teng-Leong Chew, Satya Khuon, Rex L. Chisholm, and Robert Dettman
Northwestern University

**P72-11 CONTROL OF PROLIFERATION,
MIGRATION, AND INVASION OF
RAT BREAST TUMOR CELLS BY
PK11195, AN ANTAGONIST OF
PERIPHERAL BENZODIAZEPINE
RECEPTORS (PBRs)**
Salil K. Das, Sutapa Mukhopadhyay, Bobby Guillory, and Shamali Mukherjee
Meharry Medical College, Nashville

**P72-12 AUTOCRINE MIGRATION-PROMOTING ROLE OF VASCULAR
ENDOTHELIAL FACTOR-C
IN CYCLOOXYGENASE-2
EXPRESSING HUMAN BREAST
CANCER CELLS DUE TO BINDING
OF ENDOGENOUS VEGF-C TO
VEGF-C RECEPTORS**
Peeyush K. Lala, Alexander V. Timoshenko, and Shipra Rastogi
University of Western Ontario

P73 Metastasis II

7:00–10:00 PM

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**P73-1* THE SUPPRESSION OF BREAST
CANCER METASTASIS BY BONE
MORPHOGENIC PROTEINS**
Robin Anderson,¹ Yuan Cao,¹ Erica K. Sloan,² and Bedrich L. Eckhardt¹
¹*Peter MacCallum Cancer Centre* and ²*University of California, Los Angeles*

**P73-2 REPROGRAMMING METASTATIC
BEHAVIOR WITH ARTIFICIAL
TRANSCRIPTION FACTORS**
Pilar Blancafort
University of North Carolina at Chapel Hill

**P73-3 BREAST CARCINOMA CELLS IN
THE METASTATIC ENVIRONMENT
RE-EXPRESS E-CADHERIN AS A
SURVIVAL MECHANISM**
Alan Wells, Yvonne Chao, Michelle Echko, and Christopher Shepard
University of Pittsburgh

**P73-4 ANGIOPOIETIN-2 STIMULATES
BREAST CANCER METASTASIS
THROUGH THE $\alpha 5 \beta 1$
INTEGRIN-MEDIATED PATHWAY**
Shi-Yuan Cheng, Yorihisha Imanishi, Bo Hu, and Michael J. Jarzynka
University of Pittsburgh Cancer Institute

P73-5	DISCOVERY OF CANCER METASTASIS HOMING GENES Anton Wellstein and Marcel Schmidt <i>Georgetown University</i>	P73-10	THE ROLE OF HOXB7, A MASTER TRANSCRIPTIONAL FACTOR, IN BREAST CANCER METASTASIS Nguyen Khoi Nguyen, Hexin Chen, Tao Zhu, Xinyan Wu, Saraswati Sukumar, and Annaka Lorincz <i>Johns Hopkins University School of Medicine</i>	P73-15*	TRANSFORMING GROWTH FACTOR β PATHWAY ANTAGONISTS INHIBIT HUMAN BASAL CELL-LIKE BREAST CANCER METASTASES TO LUNG AND BONE Michael Reiss, ¹ Rongrong Ge, ¹ Vidya Ganapathy, ¹ Yibin Kang, ² John McPherson, ³ and Jonathan Yingling ⁴ ¹ <i>University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School,</i> ² <i>Princeton University, </i> ³ <i>Genzyme Corporation, and </i> ⁴ <i>Eli Lilly and Company</i>
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