

Program Announcement

Department of Defense Congressionally Directed Medical Research Programs

Gulf War Illness Research Program

Consortium Development Award

Funding Opportunity Number: W81XWH-10-GWIRP-CONDEV

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I. FUNDING OPPORTUNITY DESCRIPTION

A. Program Description

The Gulf War Illness Research Program (GWIRP) was established in fiscal year 1994 (FY94) to study the health effects of deployment to the 1990-1991 Persian Gulf War on U.S. warfighters. Appropriations for the GWIRP from FY94 through FY09 totaled \$235 million (M). The FY10 appropriation is \$8.0M.

The GWIRP challenges the scientific community to design high-impact research that will improve the health and lives of veterans who have Gulf War Illness (GWI). GWI is characterized by multiple diverse symptoms that typically include chronic headache, widespread pain, cognitive difficulties, debilitating fatigue, gastrointestinal problems, respiratory symptoms, and other abnormalities that are not explained by established medical diagnoses or standard laboratory tests.

The population of veterans affected by GWI is a subset of the nearly 700,000 who served during the 1990-1991 Gulf War. Specifically, these Gulf War veterans were deployed to the theatre of operations in Southwest Asia, including Iraq, Kuwait, and Saudi Arabia. Studies indicate that approximately 25 to 32 percent (or 175,000 to 210,000) of Gulf War veterans continue to experience symptoms associated with their deployment as described above.

The GWIRP focuses its funding on innovative projects that have the potential to make a significant impact on GWI. These may take the form of identification of objective indicators of pathology that distinguish ill from healthy veterans, or studies to understand the underlying pathobiology of GWI. The GWIRP encourages risk-taking research; however, all projects must demonstrate solid judgment and sound rationale.

B. Award Description

The GWIRP Consortium Development Award mechanism is being offered for the first time in FY10.

The GWIRP seeks to promote a major multi-institutional research effort conducted by leading Gulf War Illness researchers that specifically focuses on innovative approaches for:

- **identifying treatments**
- **improving GWI definition and diagnostics**
- **characterizing disease symptoms**
- **understanding underlying pathobiology**

This effort will be executed through two separate award mechanisms, the Consortium Development Award in FY10 and the Consortium Award in FY11. Proposals for the Consortium Development Award are being requested in this program announcement. The Consortium Development Award is an infrastructure development mechanism that provides support to create a Coordinating Center and establish the necessary collaborations at potential Research Sites for the development of a multi-institutional GWI research effort. Participants in this consortium should be scientists and/or clinicians who have made significant contributions to the field of Gulf War Illness research or who have specific expertise related to the multiple

symptoms associated with GWI progression. Infrastructure development includes (but is not limited to) establishing appropriate collaborations, outlining an administrative management plan, developing research management and communication plans, and devising an intellectual property plan. ***The FY10 Consortium Development Award does not provide funding for research costs.*** However, recipients of the FY10 GWIRP Consortium Development Award are expected to submit proposals to compete for the Consortium Award expected to be offered in FY11. The GWIRP expects to fund up to two FY10 Consortium Development Awards, depending on the number and the quality of proposals received. If this goal is met, the GWIRP expects that only the two FY10 Consortium Development Award recipients will compete for the FY11 Consortium Award. If this goal is not met, the GWIRP then reserves the right to open the FY11 Consortium Award to all applicants meeting the eligibility requirements, and/or to re-release the Consortium Development Award in FY11.

The consortium can be a geographically dispersed coalition, though it must be multi-institutional, including a Coordinating Center and multiple Research Sites. The Coordinating Center, in addition to functioning as a Research Site, will serve as the consortium's information and planning nexus, providing administrative, operational, and data management support services to participant Research Sites. The Coordinating Center should have extensive experience in developing and conducting multi-institutional research projects. The Coordinating Center should also demonstrate access to the ill Gulf War veteran population, if clinical research is planned. Responsibilities of the Coordinating Center will include protocol coordination, regulatory coordination, study and data management and monitoring, statistical management, intellectual/material property coordination, and a plan for assessment of individual Research Site performance. All Research Sites will be responsible for working collaboratively and providing available research resources to the consortium. The Consortium Director, i.e., the Principal Investigator (PI) on the proposal, must have a proven track record of leadership and the scientific ability to direct and oversee the overall research effort.

FY11 Consortium Award Description: A description of the scope and intent of the Consortium Award is provided at this time to assist investigators in preparing proposals for the FY10 Consortium Development Award. The Consortium Award will support innovative research that may include a broad spectrum of topics spanning from basic/mechanistic projects to preclinical and clinical studies. The end result should lead to significant identification of new treatments for GWI, improved GWI definition and diagnostics, better characterization of disease symptoms, and/or an improved understanding of the pathobiology associated with Gulf War Illness. The consortium should comprise a multi-institutional research team made up of scientists and/or clinicians who have made significant contributions to the field of GWI, or who have specific expertise related to the multiple chronic symptoms associated with GWI. Specific research sites will be identified in the full Consortium Award, as well as a Material and Intellectual Property Plan detailing how consortium participants will address material and intellectual property issues. Any changes in the composition of the consortium from the Consortium Development Award to the Consortium Award should be fully justified. Collaborations established through the consortium should be synergistic. The consortium should maximize the use of resources and minimize unnecessary duplication among consortium members; for example, experimental techniques, databases, models, animal models, antibodies, etc. should be shared resources for all consortia members. The GWIRP Integration Panel (IP) and the Office of the Congressionally Directed Medical Research Programs (CDMRP) staff

members will serve as an external advisory board for the consortium. *Since the GWIRP is funded through annual appropriations, there is no guarantee that funds will be available to implement the FY11 Consortium Award.*

C. Eligibility

Independent investigators at the Assistant Professor level (or equivalent) or higher are eligible to submit proposals. Refer to General Application Instructions, Appendix 1, for general eligibility information.

D. Funding

- The maximum period of performance is **1** year.
- The maximum allowable funding for the entire period of performance is **\$200,000** in direct costs.
- Regardless of the period of performance proposed, the applicant may not exceed the maximum direct cost. In addition to the direct costs, indirect costs may be proposed in accordance with the organization's negotiated rate agreement.

Within the guidelines provided in the General Application Instructions, funds can cover:

- Salary
- Meetings and teleconferences among participating investigators to develop the consortium, including applicable travel costs
- Other costs associated with planning and developing the consortium collaborations and resources

The CDMRP expects to allot approximately \$640,000 of the \$8M FY10 GWIRP appropriation to fund approximately two Consortium Development Award applications, depending on the quality and number of applications received. Funding of applications received in response to this Program Announcement/Funding Opportunity is contingent upon the availability of Federal funds for this program.

E. Award Administration

Awards will be made approximately 4 to 6 months after receiving a funding notification letter, but no later than September 30, 2011. Refer to the General Application Instructions, Appendix 4, for general award administration information.

II. TIMELINE FOR SUBMISSION AND REVIEW

- **Pre-application Submission Deadline: 5:00 p.m. Eastern time (ET), May 14, 2010**
- **Application Submission Deadline: 11:59 p.m. ET, August 4, 2010**
- **Scientific Peer Review: October 2010**
- **Programmatic Review: December 2010**

Application submissions will not be accepted unless the pre-application process is completed by the pre-application deadline.

III. SUBMISSION PROCESS

Submission is a two-step process requiring both (1) pre-application submission through the CDMRP eReceipt system (<https://cdmrp.org/>) and (2) application submission through Grants.gov (<http://www.grants.gov/>).

Submission of the same research project to different funding opportunities within the same program and fiscal year is discouraged. The Government reserves the right to reject duplicative applications.

PIs and organizations identified in the application should be the same as those identified in the pre-application. If a change in PI or organization is necessary after submission of the pre-application, the PI must contact the eReceipt help desk at help@cdmrp.org or 301-682-5507.

A. Step 1 – Pre-Application Components

All pre-application components must be submitted through the CDMRP eReceipt system by **5:00 p.m. ET on the deadline.**

The pre-application consists of the following components, which are organized in the CDMRP eReceipt system by separate tabs (Refer to the General Application Instructions for additional information on pre-application submission):

- **Proposal Information – Tab 1**
- **Proposal Contacts – Tab 2**
- **Collaborators and Conflicts of Interest – Tab 3**
- **Required Files – Tab 4**

Letter of Intent (LOI) Narrative (one-page limit): Provide a brief description of the research aims and organization of the proposed consortium. LOI Narratives are used for program planning purposes only (e.g., reviewer recruitment) and ***will not be reviewed*** during either the peer or programmatic review sessions.

- **Submit Pre-application – Tab 5**

B. Step 2 – Application Components

Applications are submitted by the Authorized Organizational Representative (AOR) through Grants.gov (<http://www.grants.gov/>). Applications must be submitted **by 11:59 p.m. ET on the deadline.**

Each application submission must include the completed application package of forms and attachments identified in Grants.gov for this Program Announcement/Funding Opportunity.

The Grants.gov application package consists of the following components (Refer to the General Application Instructions, Section II.B., for additional information on application submission):

1. SF 424 (R&R) Application for Federal Assistance Form: Refer to the General Application Instructions, Section II.B., for detailed information.

2. Attachments Form

- **Attachment 1: Project Narrative (10-page limit):** Upload as “ProjectNarrative.pdf.”

Describe the qualifications of the consortium member institutions and personnel, and plans for the development of key features of the consortium, using the following general outline:

- Provide a description of the projected consortium organization. Include key participants at the Coordinating Center and the Research Sites, and their projected contributions. Named Research Sites should submit a letter of collaboration. Describe previous experience and accomplishments of the PI (Consortium Director) related to the design, administration, and management of multi-institutional research projects.
- Describe the management and communication plan for developing the consortium. Include plans for assessing the performance of each research site.
- Describe the research approach for the consortium and how it will specifically focus on identifying treatments for GWI, improving definition and diagnosis of GWI, characterizing GWI symptoms, and/or elucidating the underlying pathobiology of GWI. Include a discussion of the background and scientific rationale behind the consortium’s focus as well as the potential impact the consortium’s research could have on Gulf War Illness. Discuss innovative methods, collaborations, therapies, etc. that will be incorporated into the proposed consortium.
- Include an estimated period of performance and the projected direct costs that the consortium would require. Include a brief description of the available resources and how unnecessary duplication of resources among consortium members will be minimized.

- **Attachment 2: Supporting Documentation.** Start each document on a new page. Combine and upload as a single file named “Support.pdf.” If documents are scanned to pdf, the lowest resolution (100 to 150 dpi) should be used. *Each component has no page limit unless otherwise noted.*
 - References Cited: List all relevant references using a standard reference format that includes the full citation (i.e., author(s), year published, title of reference, source of reference, volume, chapter, page numbers, and publisher, as appropriate). The inclusion of Internet URLs to references is encouraged.
 - List of Acronyms and Symbols: Provide a list of acronyms and symbols (e.g., PCR = polymerase chain reaction).
 - Facilities, Existing Equipment, and Other Resources: Describe the facilities and equipment available for performance of the proposed project, and any additional facilities or equipment proposed for acquisition at no cost to the US Army Medical Research and Materiel Command (USAMRMC). Indicate if Government-owned facilities or equipment are proposed for use. Reference should be made to the original or present contract under which the facilities or equipment items are now accountable. There is no form for this information.
 - Publications and/or Patent Abstracts (five-document limit): Include relevant publication URLs and/or patent abstracts. If publications are not publicly available, then they must be included. Extra items will not be reviewed.
 - Letters of Collaboration (if applicable) (two-page limit per letter): Provide a signed letter from each of the proposed Research Site collaborators that describes how he/she will support the PI and the consortium, and how intellectual and material property rights will be resolved.
- **Attachment 3: Technical Abstract (one-page limit):** Upload as “TechAbs.pdf.”
Use the outline below.
 - Background: Present the research focus behind the proposed consortium.
 - Objective/Hypothesis: State the objectives/hypotheses to be tested. Provide rationale that supports the objectives/hypotheses.
 - Specific Aims: State the specific aims of the study.
 - Study Design: Briefly describe the consortium design, organization and interactions.
 - Impact: Summarize briefly how the proposed project will have an impact on Gulf War Illness.
- **Attachment 4: Public Abstract (one-page limit):** Upload as “PublicAbs.pdf.”
Clearly describe, in a manner readily understood by laypersons, the rationale and objective for the proposal. Do not duplicate the technical abstract.
Describe the ultimate applicability of the consortium’s research.
 - What types of patients will it help and how will it help them?
 - What are the potential clinical applications, benefits, and risks?

- What is the projected time it may take to achieve a patient-related outcome?
- If the research is too basic for clinical applicability, describe the interim outcomes.
- What are the likely contributions of this consortium in advancing the field of GWI research?
- **Attachment 5: Statement of Work (SOW) (three-page limit):** Upload as “SOW.pdf.” Refer to the General Application Instructions, Section II.B., for detailed information.
- **Attachment 6: Detailed Budget and Justification (no page limit):** Upload as “Budget.pdf.” Use the Detailed Budget and Justification form (available for download on the Full Announcement page in Grants.gov). Refer to the General Application Instructions, Section II.B., for detailed information.
- **Attachment 7: Subaward Detailed Budget and Justification (if applicable) (no page limit):** Use a separate Detailed Budget and Justification form for each subaward budget. Combine into a single file and upload as “SubBudgets.pdf.” Refer to the General Application Instructions, Section II.B., for detailed information.

3. Research & Related Senior/Key Person Profile (Expanded) Form: Refer to the General Application Instructions, Section II.B., for detailed information.

- PI Biographical Sketch (four-page limit): Upload as “Biosketch_LastName.pdf.”
 - PI Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
 - Key Personnel Biographical Sketches (four-page limit each): Upload as “Biosketch_LastName.pdf.”
- Include biosketches for collaborators at each Research Site.
- Key Personnel Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”

4. Project/Performance Site Location(s) Form: Refer to the General Application Instructions, Section II.B., for detailed information.

IV. INFORMATION FOR APPLICATION REVIEW

A. Application Review and Selection Overview

All applications are evaluated by scientists, clinicians, and consumer advocates using a two-tier review process. The first tier is a scientific peer review of applications against established criteria for determining scientific merit. The second tier is a programmatic review that compares applications to each other and makes recommendations for funding to the Commanding General, USAMRMC, based on scientific merit, the overall goals of the program, and specific intent of the award mechanism. The highest scoring applications from the first tier of review are not automatically recommended for funding. Additional

information about the two-tier review process used by the CDMRP may be found at <http://cdmrp.army.mil/fundingprocess.htm>.

All CDMRP review processes are conducted confidentially to maintain the integrity of the merit-based selection process. Each level of review requires panelists to sign a non-disclosure statement attesting that application and evaluation information will not be disclosed outside the panel. Violations of the non-disclosure statement can result in the dissolving of a panel(s) and other corrective actions. Organizational personnel and PIs are prohibited from contacting persons involved in the review process to gain protected evaluation information or to influence the evaluation process. Violations of these prohibitions will result in the administrative withdrawal of the organization's application. Violations by panelists or PIs that compromise the confidentiality of the review process may also result in suspension or debarment of their employing organizations from Federal awards. Furthermore, it is a crime for Federal officials to disclose confidential information of one party to another third party (Title 18 United States Code 1905).

B. Review Criteria

1. Peer Review: All applications will be evaluated according to the following criteria, which are of decreasing importance:

Consortium Structure

- Whether the consortium includes a Coordinating Center and Research Sites with named scientists and/or clinicians who have made significant contributions to the field of GWI research, or who have specific expertise related to the multiple symptoms associated with GWI.
- How well the infrastructure includes establishing appropriate collaborations, outlining an administrative management plan, developing a research and communication plan, and devising an intellectual property plan.
- How well it is shown that the Coordinating Center and Research Sites will maximize use and minimize unnecessary duplication of resources. How appropriately the consortium's research resources support the proposed research aims.
- How well plans for assessing the performance of each Research Site are outlined.
- How well the consortium's research aims address: identifying treatments for GWI, improving definition and diagnosis of GWI, characterizing GWI symptoms, and/or elucidating the underlying pathobiology of GWI.
- **Personnel**
 - How well the PI's (Consortium Director) qualifications and experience demonstrate appropriate expertise in the design, organization and management of multi-institutional research projects.

- How the consortium team’s background and expertise are appropriate for accomplishing the goal of understanding the multiple symptoms associated with Gulf War Illness.
- How well the consortium participants are committed to developing a consortium to address the identification and characterization of the multiple symptoms associated with Gulf War Illness.
- **Impact**
 - How the consortium structure and overall approach will lead to the effective identification and characterization of the multiple symptoms associated with Gulf War Illness.
- **Innovation**
 - How the proposed consortium’s methods, collaborations, research topics, or therapies, etc. are innovative or challenge current paradigms related to GWI.

Application Presentation will not be individually scored, but may impact the overall evaluation of the application.

- **Application Presentation**
 - How the writing and components of the application influenced the review.

2. Programmatic Review: The following equally weighted criteria are used by programmatic reviewers to make funding recommendations.

- Ratings and evaluations of the peer reviewers
- Adherence to the intent of the award mechanism
- Relative innovation and impact

V. ADMINISTRATIVE ACTIONS

After receipt of applications from Grants.gov, the following administrative actions may occur:

A. Rejection

The following will result in administrative rejection of the application:

- Project Narrative exceeds page limit.
- Project Narrative is missing.
- Budget is missing.
- Page size is larger than 8.5 inches x 11.0 inches (approximately 21.59 cm x 27.94 cm).
- Submission of an application for which a letter of intent was not submitted.

B. Modifications

- Pages exceeding the specified limits will be removed prior to review for all documents other than the Project Narrative.
- Documents not requested will be removed.
- Following the application deadline, you may be contacted by CDMRP via email with a request to provide certain missing supporting documents (excluding those listed in Section V-A, Rejection). The missing documents must be provided by 5:00 p.m. ET on the second full business day following the date the email was sent. Otherwise, the application will be reviewed as submitted.

C. Withdrawal

The following may result in administrative withdrawal of the application:

- FY10 GWIRP IP member(s) is found to be involved in the pre-application or application processes including, but not limited to, concept design, application development, budget preparation, and the development of any supporting document. A list of the FY10 GWIRP IP members may be found at <http://cdmrp.army.mil/gwirp/panel10.htm>.
- Submission of the same research project to different funding opportunities within the same program and fiscal year.
- The application does not conform to this Program Announcement/Funding Opportunity description to an extent that precludes appropriate review.
- Direct costs as shown on the detailed budget form exceed maximum allowed by this Program Announcement/Funding Opportunity.
- Inclusion of URLs with the exception of links to published references.
- The PI does not meet the eligibility criteria as described in this Program Announcement/Funding Opportunity.

D. Withhold

Applications that appear to involve research misconduct will be administratively withheld from further consideration pending organizational investigation. The organization will be requested to provide the findings of the investigation to the US Army Medical Research Acquisition Activity (USAMRAA) Contracting/Grants Officer for a determination of the final disposition of the application.

VI. CONTACT INFORMATION

A. CDMRP Program Announcement Help Desk: Questions related to Program Announcement/Funding Opportunity content or submission requirements should be directed to the CDMRP Program Announcement help desk, which is available Monday through Friday from 7:30 a.m. to 4:00 p.m. ET. Submit questions as early as possible. Response times will vary depending upon the volume of inquiries. Every effort will be made to answer questions within 5 working days.

Phone: 301-619-7079

Email: cdmrp.pa@amedd.army.mil

B. CDMRP eReceipt System Help Desk: Questions related to the submission of the pre-application through the eReceipt system should be directed to the CDMRP eReceipt system help desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. ET.

Phone: 301-682-5507

Email: help@cdmrp.org

C. Grants.gov Contact Center: Questions related to application submission through the Grants.gov portal should be directed to Grants.gov help desk, which is available 24 hours a day, 7 days a week. Please note that the CDMRP Program Announcement and eReceipt system help desks are unable to provide technical assistance regarding Grants.gov submissions.

Phone: 800-518-4726

Email: support@grants.gov

Sign up on Grants.gov for “send me change notification emails” by following the link on the Synopsis page for the Program Announcement/Funding Opportunity. If the application package is updated or changed, the original version of the application package may not be accepted by Grants.gov.

VII. APPLICATION SUBMISSION CHECKLIST

Grants.gov Application Components	Action	Completed
SF-424 (R&R) Application for Federal Assistance Form	Complete form as instructed	
Attachments Form	Upload Project Narrative (ProjectNarrative.pdf) as Attachment 1	
	Upload Supporting Documentation (Support.pdf) as Attachment 2	
	Upload Technical Abstract (TechAbs.pdf) as Attachment 3	
	Upload Public Abstract (PublicAbs.pdf) as Attachment 4	
	Upload Statement of Work (SOW.pdf) as Attachment 5	
	Upload Detailed Budget and Justification (Budget.pdf) as Attachment 6	
	Upload Subaward Detailed Budget and Justification (SubBudgets.pdf) as Attachment 7	
Research & Related Senior/Key Person Profile (Expanded)	Attach PI Biographical Sketch (Biosketch_LastName.pdf) to the appropriate field	
	Attach PI Current & Pending Support (Support_LastName.pdf) to the appropriate field	
	Attach Biographical Sketch (Biosketch_LastName.pdf) for each senior/key person to the appropriate field	
	Attach Current & Pending Support (Support_LastName.pdf) for each senior/key person to the appropriate field	
Project/Performance Site Location(s) Form	Complete form as instructed	

Principal Investigator:

CDMRP Log Number:

Detailed Budget and Justification

Name of Principal Investigator: _____

CDMRP log number: _____ *Last Name* _____ *First Name* _____ *Middle Name* _____ *Suffix*

Period of Performance: From: _____ Through: _____

DETAILED BUDGET FOR YEAR ONE

SENIOR/KEY PERSON & OTHER PERSONNEL		TYPE APPT. (MONTHS)	ANNUAL BASE SALARY	EFFORT ON PROJECT	DOLLAR AMOUNT REQUESTED (OMIT CENTS)		
NAME	ROLE ON PROJECT				SALARY REQUESTED	FRINGE BENEFITS	TOTALS
	Principal Investigator						

A. SUBTOTAL PERSONNEL COSTS

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Detailed Budget and Justification

<u>DETAILED BUDGET FOR YEAR ONE (CONTINUED)</u>	
<u>OTHER DIRECT COSTS</u>	
MAJOR EQUIPMENT (ITEMIZE)	
TRAVEL COSTS	
MATERIALS, SUPPLIES, AND CONSUMABLES (ITEMIZE BY CATEGORY)	
CONSULTANT COSTS	
SUBAWARD/CONSORTIUM/CONTRACTUAL COSTS (ITEMIZE, INCLUDE TOTAL COSTS INCLUDING DIRECT AND INDIRECT COSTS)	
RESEARCH-RELATED SUBJECT COSTS	
OTHER EXPENSES (ITEMIZE BY CATEGORY)	
B. SUBTOTAL OTHER DIRECT COSTS FOR INITIAL BUDGET PERIOD	
C. TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (A+B)	
D. TOTAL INDIRECT COSTS FOR INITIAL BUDGET PERIOD	
TOTAL COSTS FOR INITIAL BUDGET PERIOD (C+D)	

Detailed Budget and Justification

<u>BUDGET FOR ENTIRE PROPOSED PERIOD OF PERFORMANCE</u>						
BUDGET CATEGORY TOTALS*	BUDGET YEAR ONE	ADDITIONAL YEARS OF SUPPORT REQUESTED				TOTAL
		2nd	3rd	4th	5th	
A. PERSONNEL COSTS						
SALARY REQUESTED						
FRINGE COSTS						
B. OTHER COSTS						
MAJOR EQUIPMENT						
TRAVEL COSTS						
MATERIALS, SUPPLIES, AND CONSUMABLES						
CONSULTANT COSTS						
SUBAWARD/CONSORTIUM/ CONTRACTUAL COSTS						
RESEARCH-RELATED SUBJECT COSTS						
OTHER EXPENSES						
C. TOTAL DIRECT COSTS						
D. TOTAL INDIRECT COSTS						
TOTAL DIRECT COSTS FOR ENTIRE PROPOSED PERIOD OF SUPPORT						
TOTAL INDIRECT COSTS FOR ENTIRE PROPOSED PERIOD OF SUPPORT						
TOTAL COSTS FOR THE ENTIRE PROPOSED PERIOD OF SUPPORT <small>THIS AMOUNT MUST MATCH WITH THAT ENTERED ON THE SF 424, BLOCK 16A</small>						

* Itemize all budget categories for additional years on the Justification page that follows.

Principal Investigator:

CDMRP Log Number:

Detailed Budget and Justification

JUSTIFICATION

FOLLOW THE BUDGET JUSTIFICATION INSTRUCTIONS EXACTLY. USE CONTINUATION PAGES AS NEEDED.

Principal Investigator:

CDMRP Log Number:

Detailed Budget and Justification

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Principal Investigator:

CDMRP Log Number:

Detailed Budget and Justification

JUSTIFICATION

FOLLOW THE BUDGET JUSTIFICATION INSTRUCTIONS EXACTLY. USE CONTINUATION PAGES AS NEEDED.

Principal Investigator (Last, first, middle):

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel on page 1 of the Detailed Budget and Justification form for the initial budget period.

NAME		POSITION TITLE	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List in chronological order the titles, all authors, and complete references to all publications during the past 3 years and to representative earlier publications pertinent to this application. If the list of publications in the last 3 years exceeds 2 pages, select the most pertinent publications. **PAGE LIMITATIONS APPLY. DO NOT EXCEED 4 PAGES FOR THE ENTIRE BIOGRAPHICAL SKETCH PER INDIVIDUAL.**

Principal Investigator (Last, first, middle):

Principal Investigator (Last, first, middle):

Principal Investigator (Last, first, middle):