

# Program Announcement

Department of Defense Congressionally Directed Medical Research Programs

Neurofibromatosis Research Program

Exploration-Hypothesis Development Award

Funding Opportunity Number: W81XWH-09-NFRP-EHDA

## TABLE OF CONTENTS

<b>I.</b>	<b>FUNDING OPPORTUNITY DESCRIPTION</b> .....	<b>2</b>
A.	Program Objectives.....	2
B.	Award Description .....	2
C.	Eligibility .....	3
D.	Funding .....	3
E.	Award Administration .....	4
<b>II.</b>	<b>TIMELINE FOR SUBMISSION AND REVIEW</b> .....	<b>4</b>
<b>III.</b>	<b>SUBMISSION PROCESS</b> .....	<b>4</b>
A.	Step 1 –Pre-Application Components and Submission .....	5
B.	Step 2 –Application Components and Submission.....	5
<b>IV.</b>	<b>INFORMATION FOR APPLICATION REVIEW</b> .....	<b>7</b>
A.	Application Review and Selection Overview .....	7
B.	Review Criteria .....	7
<b>V.</b>	<b>ADMINISTRATIVE ACTIONS</b> .....	<b>9</b>
<b>VI.</b>	<b>CONTACT INFORMATION</b> .....	<b>10</b>

## I. FUNDING OPPORTUNITY DESCRIPTION

### A. Objectives

The Neurofibromatosis Research Program (NFRP) was established in fiscal year 1996 (FY96) to promote the understanding, diagnosis, and treatment of neurofibromatosis. Appropriations for the NFRP from FY96 through FY08 totaled \$190.3 million (M). The FY09 appropriation is \$10M.

**FY09 NFRP Vision:** The vision of the FY09 NFRP is to find and fund the best research to decrease the clinical impact of neurofibromatosis. Toward this goal, the NFRP seeks to:

- Support innovative, high-impact research that will foster new directions for and address neglected issues in NF research.
- Sponsor multi-disciplinary and multi-institutional collaborations that will bring new perspectives to the field.
- Foster the next generation of neurofibromatosis investigators.
- Promote translational and clinical studies to move promising ideas from bench-to bedside.
- Develop a balanced portfolio of meritorious research related to all aspects of NF1, NF2, and Schwannomatosis.

**NFRP Research Resources Initiative:** Resources developed through NFRP-funding that are available to the scientific community can be found at <http://cdmrp.army.mil/nfrp/nfrpresources>. Investigators are urged to leverage and contribute to these resources. For more guidance on data sharing refer to Application Instructions and General Information, Appendix 5.

### B. Award Description

The Exploration – Hypothesis Development Award (EHDA) mechanism was first offered in FY08. Since that time, 21 EHDA applications have been received and 6 have been recommended for funding.

The NFRP Exploration – Hypothesis Development Award supports the initial exploration of innovative, untested, high-risk, high-gain, and potentially groundbreaking concepts in the neurofibromatosis and/or Schwannomatosis research fields. Results of studies conducted through this award may provide the scientific rationale upon which a new hypothesis can be based, or it should provide initial principles of an innovative hypothesis. This award is designed to provide investigators with the opportunity to pursue serendipitous observations. Some gaps in supporting rationale may exist due to a lack of available information. *The presentation of preliminary data is encouraged, but not required.*

*It is the responsibility of the Principal Investigator (PI) to clearly and explicitly articulate how the proposed research is innovative and how the concept is novel.*

***Because these awards are designed for preliminary investigations, projects involving human subjects or specimens will not be supported unless they are exempt under 32 CFR 219.101(b) or eligible for expedited review (32 CFR 219.110 or 21 CFR 56.110). Studies that do not qualify for exempt or expedited status during review at any level will be administratively withdrawn and will not be funded.***

**Areas of Encouragement (Revised for FY09):** The FY09 NFRP encourages proposals that specifically address the critical needs of the NF community in the following areas:

- Complications of neurofibromatosis with high mortality such as neoplasms and cerebrovascular abnormalities;
- Complications of neurofibromatosis with high morbidity such as skeletal maladies, learning deficits, hormone-associated effects, and pain;
- Refinement and standardization of imaging techniques, molecular and cellular markers, and quality of life metrics for use in future clinical trials;
- Translational research such as the development or preclinical testing of therapeutic agents for the treatment of neurofibromatosis

### **C. Eligibility**

PIs at all academic levels (or equivalent) are eligible to submit proposals. Refer to Application Instructions and General Information, Appendix 1, for general eligibility information.

### **D. Funding**

- The maximum period of performance is 2 years.
- The maximum allowable funding for the entire performance period is **\$100,000** in direct costs.
- The applicant may request the entire maximum direct cost amount for a project that may be less than the maximum 2-year period of performance.
- 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 your institution's negotiated rate agreement.

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

- Salary
- Research supplies
- Equipment
- Clinical costs (no clinical trials allowed)

- Travel between collaborating institutions
- Travel to scientific/technical meetings

*The Office of the Congressionally Directed Medical Research Programs (CDMRP) expects to allot approximately \$0.45M of the \$10M FY09 NFRP appropriation to fund approximately 3 EHDA applications, depending upon the quality and number received. Funding of applications received in response to this Program Announcement/Funding Opportunity is contingent on the availability of Federal funds for this program.*

## **E. Award Administration**

No changes in institution will be allowed once the proposal has been awarded. Refer to the Application Instructions and General Information, Appendix 5, for general award administration information.

## **II. TIMELINE FOR SUBMISSION AND REVIEW**

Proposal submission is a two step process consisting of (1) pre-application submission and (2) application submission.

<b>Pre-application Submission Deadline:</b>	<b>March 24, 2009</b>
<b>Application Submission Deadline:</b>	<b>April 14, 2009</b>
<b>Scientific Peer Review:</b>	<b>Summer, 2009</b>
<b>Programmatic Review:</b>	<b>Late Summer/Early Fall, 2009</b>

Awards will be made approximately 4 to 6 months after receiving a funding notification letter, but no later than September 30, 2010.

## **III. SUBMISSION PROCESS**

Proposal submission is a two-step process consisting of (1) a pre-application submission through the [CDMRP eReceipt system \(https://cdmrp.org/\)](https://cdmrp.org/) and (2) an application submission through [Grants.gov \(http://www.grants.gov/\)](http://www.grants.gov/).

PIs and organizations identified in the application submitted through Grants.gov should be the same as those identified in the pre-application. If there is a change in PI or organization after submission of the pre-application, the PI must contact the eReceipt help desk at [help@cdmrp.org](mailto:help@cdmrp.org) or 301-682-5507.

Submission of the same research project to different award mechanisms within the same program or to other CDMRP programs is discouraged. The Government reserves the right to reject duplicative applications.

## A. Step 1 – Pre-Application Components and Submission

The pre-application consists of the components discussed below. All pre-application components must be submitted electronically through the [CDMRP eReceipt system](#) by **5:00 p.m. Eastern time (ET) on the deadline date**. Refer to the Application Instructions and General Information for detailed information.

- Proposal Information
- Proposal Contacts
- Collaborators and Conflicts of Interest (COI)
- Letter of Intent (LOI) Narrative

## B. Step 2 – Application Components and Submission

***Application submission will not be accepted unless the pre-application process is completed by the pre-application deadline.*** Applications must be submitted electronically by the Authorized Organizational Representative (AOR) through Grants.gov ([www.grants.gov](http://www.grants.gov)). No paper copies will be accepted.

Each application submission must include the completed Grants.gov application package of forms and attachments identified in [www.grants.gov](http://www.grants.gov) for the US Army Medical Research Acquisition Activity (USAMRAA) program announcement. In addition to the specific instructions below, please refer to the Application Instructions and General Information for detailed requirements of each component.

The package includes:

### 1. SF-424 (R&R) Application for Federal Assistance Form

### 2. Attachments Form

- Attachment 1: Project Narrative (4-page limit)
- Describe the proposed project in detail using the outline below. ***Presentation of preliminary data is encouraged, but not required.***
  - **Background:** Present the ideas and reasoning behind the proposed work. Cite relevant literature. Describe previous experience most pertinent to this proposal.
  - **Hypothesis or Objective:** State the hypothesis to be tested or the objective to be reached.
  - **Specific Aims:** Concisely explain the project's specific aims to be funded by this proposal. If this proposal is part of a larger study, present only tasks that the Department of Defense award would fund.
  - **Research Strategy:** Describe the experimental design, methods, and analyses, including appropriate controls, in sufficient detail for analysis. Address potential problem areas and present alternative methods and approaches. Describe the

statistical plan if appropriate for the research proposed. ***This award may not be used to conduct clinical trials or studies that are not exempt under 32 CFR 219.101(b) or eligible for expedited review (32 CFR 219.110 or 21 CFR 56.110).***

- Attachment 2: Supporting Documentation
  - References Cited
  - Acronyms and Symbol Definitions
  - Facilities & Other Resources
  - Description of Existing Equipment
  - Publications and/or Patent Abstracts (5-document limit)
  - Letters of Institutional Support (two-page limit per letter)
  - Letters of Collaboration (if applicable, two-page limit per letter)
  - Intellectual and Material Property Plan (if applicable)
- Attachment 3: Technical Abstract (one-page limit)
- Attachment 4: Public Abstract (one-page limit)
- Attachment 5: Statement of Work (SOW) (three-page limit)
- Attachment 6: Detailed Budget and Justification
- Attachment 7: Impact Statement (one-page limit)

Explain how the expected results of the study will make an original and important contribution to the goal of advancing NF research and its impact on patient care. Describe the potential clinical applications, benefits, and risks.

- Attachment 8: Innovation Statement (one-page limit)

Summarize how the proposed work is innovative. Investigating the next logical step or incremental advancement on published data is not considered innovative.

***Although not all-inclusive***, the following examples are ways in which the proposed work may be innovative, and are intended to help PIs frame the innovative features:

- Study concept – Investigation of a novel idea and/or research question.
- Research method or technology – Use of novel research methods or new technologies, including technology development, to address a research question.
- Novel method or technology – Development of a novel method or technology for preventing, detecting, diagnosing, or treatment.
- Existing methods or technologies – Application or adaptation of existing methods or technologies for novel research or clinical purposes, or for research or clinical purposes that differ fundamentally from those originally intended.

- Attachment 9: Federal Agency Financial Plan (if applicable)
- Attachment 10-15: Subaward Detailed Budget and Justification (if applicable)

### **3. Research & Related Senior/Key Person Profile (Expanded Form)**

- PI Biographical Sketch (four-page limit)
- PI Current/Pending Support
- Key Personnel Biographical Sketches (four-page limit each)
- Key Personnel Current/Pending Support

### **4. Research & Related Project/Performance Site Location(s) Form**

## **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 proposals against established criteria for determining scientific merit. The second tier is a programmatic review that compares submissions to each other and recommends proposals for funding based on scientific merit, the overall goals of the program, and the specific intent of the award mechanism. Additional information about the two-tier review process used by the CDMRP may be found at <http://cdmrp.army.mil/fundingprocess>

The peer review and programmatic review processes are conducted confidentially to maintain the integrity of the merit-based selection process. Each tier 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 correcting actions. Correspondingly, institutional personnel and PIs are prohibited from contacting persons involved in the application review process to gain protected evaluation information or to influence the evaluation process. Violations of this prohibition will result in the administrative withdrawal of the institution's application. Violations by panelists or PIs that compromise the confidentiality of the peer review and programmatic review processes may also result in suspension or debarment of their employing institutions 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).

The Government reserves the right to review all proposals based on one or more of the required attachments or supporting documentation (e.g., Innovation Statement or Impact Statement).

### **B. Review Criteria**

**1. Peer Review:** All proposals will be evaluated according to the following criteria, which are listed in decreasing order of importance.

- **Innovation**
  - How the research proposes new paradigms or challenges existing paradigms in one or more of the following ways: concept or question, research methods or technologies, adaptations of existing methods or technologies, and clinical interventions.
  - How the proposed research represents more than an incremental advance upon published data.
  - How the potential gain justifies the perceived risk.
- **Impact**
  - How the proposed work addresses a critical problem in neurofibromatosis and/or Schwannomatosis research or patient care.
  - How the project makes an original and important contribution to the goal of advancing research on the treatment of neurofibromatosis and/or Schwannomatosis or on the quality of life of patients.
- **Research Strategy and Feasibility**
  - How the scientific rationale supports the project and its feasibility as demonstrated by a critical review and analysis of the literature and logical reasoning.
  - How well the hypotheses or objectives, aims, experimental design, methods, and analyses are developed.
  - How well the PI acknowledges potential problems and addresses alternative approaches.
  - How the intended results should give rise to a testable hypothesis.

The following criteria will not be individually scored, but may impact the overall evaluation of the application:

- **Personnel**
  - The PI's potential for contributing to the NF and/or Schwannomatosis research fields.
  - How the PI's record of accomplishment demonstrates his/her ability to accomplish the proposed work.
  - Appropriateness of the levels of effort for successful conduct of the proposed work.
- **Budget**
  - Whether the budget is appropriate for the proposed research and within the limitations of the award mechanism
- **Application Presentation**
  - How the writing and components of the application influenced the review.

**2. Programmatic Review:** Criteria used by programmatic reviewers to make funding recommendations that maintain the program's broad portfolio include:

- Ratings and evaluations of the peer reviewers,
- Program portfolio balance,
- Programmatic relevance,
- Relative innovation and impact,
- Adherence to the intent of the award mechanism.

Scientifically sound proposals that best fulfill the above criteria and most effectively address the unique focus and goals of the program will be identified by Integration Panel members and recommended for funding to the Commanding General, USAMRMC. The highest scoring applications from the first tier of review are not automatically recommended for funding. All applications are carefully considered to ensure that the funds available are allocated to those proposals that best fulfill the goals, objectives, and areas of encouragement of the program.

Investigators are urged to view previously NFRP-funded proposals at <http://cdmrp.army.mil/search.aspx?program=NFRP> to aid in the development of applications that represent novel areas of research, as portfolio balance is an important consideration at programmatic review to ensure that gaps in the research are adequately addressed.

## 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).

### B. Modifications

- Pages exceeding the specified limits will be removed for all documents other than the Project Narrative.
- Documents not requested will be removed.
- **NEW for FY09:** Following the application deadline, you may be contacted by email from CDMRP with a request to provide certain missing supporting documents (excluding those listed in Section V.A, Rejection). The missing documents must be

provided within 48 hours of the date and time the email was sent. Otherwise, the application will be peer reviewed without the missing documents.

### **C. Withdrawal**

The following may result in administrative withdrawal of the application:

- FY09 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 FY09 IP members may be found at <http://cdmrp.army.mil/research>
- Submission of the same research project to different award mechanisms within the same program or to other CDMRP programs.
- The application does not conform to this funding opportunity description to an extent that precludes appropriate scientific peer and programmatic review.
- Direct costs as shown on the detailed budget form exceed the maximum allowed by the award mechanism.
- Inclusion of URLs, with the exception of links to published references.
- Studies are not exempt under 32 CFR 219.101(b) or eligible for expedited review (32 CFR 219.110 or 21 CFR 56.110).

### **D. Withhold**

Applications that appear to involve research misconduct will be administratively withheld from further consideration pending institutional investigation. The institution will be requested to provide the findings of the investigation to the USAMRAA Contracting/Grants Officer for a determination of the final disposition of the application.

## **VI. CONTACT INFORMATION**

**A. Program Announcement/Funding Opportunity, application format, or required documentation:** To view all funding opportunities offered by the CDMRP, perform a Grants.gov basic search using the CFDA Number 12.420. 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

Fax: 301-619-7792

Email: [cdmrp.pa@amedd.army.mil](mailto:cdmrp.pa@amedd.army.mil)

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

Phone: 301-682-5507

Website: <https://cdmrp.org>

Email: [help@cdmrp.org](mailto:help@cdmrp.org)

**C. Grants.gov contacts:** Questions related to application submission through the [Grants.gov](https://www.grants.gov/) (<http://www.grants.gov/>) portal should be directed to the Grants.gov help desk, which is available Monday through Friday, 7:00 a.m. to 9:00 p.m. ET. Deadlines for application submission are 11:59 p.m. ET on the deadline date. Please note that the CDMRP help desk is unable to answer questions about Grants.gov submissions.

Phone: 800-518-4726

Email: [support@grants.gov](mailto:support@grants.gov)

***Grants.gov will notify PIs of changes made to this Program Announcement/Funding Opportunity and/or application package ONLY if the PI subscribes to the mailing list by clicking on the “send me change notification emails” link on the Opportunity Synopsis page for this announcement. If the PI does not subscribe and the application package is updated or changed, the original version of the application package may not be accepted.***