The Congressionally Directed Medical Research Programs

Funding Opportunities for Junior Investigators

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Program Manager
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The views expressed in this presentation are those of the author and may not reflect the official policy or position of the Department of the Army, Department of Defense, or the U.S. Government
WHO is the CDMRP?

- Department of Defense
- Department of the Army
- Army Futures Command
- U.S. Army Medical Research and Development Command (USAMRDC)
- Congressionally Directed Medical Research Programs
About CDMRP

◆ CONGRESSIONAL PROGRAMS
  ❖ Manages extramural research programs directed by Congress
  ❖ Started in 1992 with a focus on breast cancer research; currently includes over 30 research programs
  ❖ Congress specifies the focus area; the CDMRP determines research strategy and competitively selects the best projects
  ❖ Unique public/private partnership encompasses the military, scientists, disease survivors, consumers, and policy makers
  ❖ Funds high-impact, innovative medical research to find cures, reduce the incidence of disease and injury, improve survival, and enhance the quality of life for those affected

◆ DoD PROGRAMS
  ❖ Provides support to Program Area Directorates (PADs)/Joint Program Committees (JPCs) for managing extramural and intramural research portfolios to advance their missions

◆ DIRECTOR
  ❖ COL Stephen Dalal

CURRENT PROGRAMS:
- Alcohol and Substance Abuse Disorders
- Amyotrophic Lateral Sclerosis
- Autism
- Bone Marrow Failure
- Breast Cancer
- Breast Cancer Semipostal
- Combat Readiness
- Chronic Pain
- Duchenne Muscular Dystrophy
- Epilepsy
- Gulf War Illness
- Hearing Restoration
- Joint Warfighter Medical
- Kidney Cancer
- Lung Cancer
- Lupus
- Melanoma
- Military Burn
- Multiple Sclerosis
- Neurofibromatosis
- Orthotics and Prosthetics
- Outcomes
- Ovarian Cancer
- Pancreatic Cancer
- Parkinson’s
- Peer Reviewed Alzheimer’s
- Peer Reviewed Cancer
- Peer Reviewed Medical
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Rare Cancers
- Reconstructive Transplant
- Scleroderma
- Spinal Cord Injury
- Tick-Borne Disease
- Tuberous Sclerosis Complex
- Vision

ADDITIONAL SUPPORTED DOD PROGRAMS:
- Armed Forces Institute of Regenerative Medicine
- Centers of Excellence
- Defense Medical R&D
- Defense Medical R&D Restoral
- Psychological Health and Traumatic Brain Injury
- Small Business Innovation/Small Business Technology Transfer
- Trauma Clinical
Vision
Transform healthcare for Service Members and the American public through innovative and impactful research

Mission
Responsibly manage collaborative research that discovers, develops, and delivers health care solutions for Service Members, Veterans and the American public
Hallmarks

◆ Targeted research funds are added to the DoD budget by Congress
◆ Funds high-impact innovative research
◆ Avoids duplication with other funding agencies and targets unfunded/unmet gaps
◆ Follows the National Academy of Medicine-recommended model for application review
◆ Consumers participate throughout the process
◆ Annually adapts each program’s vision and investment strategy allowing rapid response to changing needs

◆ Funding flexibility
  ❖ Funds obligated up-front; limited out-year budget commitments
  ❖ No continuation funding
  ❖ No “pay line”; funding recommendations are based on portfolio composition, adherence to intent of mechanism, and relative impact, in addition to technical merit
Consumers

Grassroots consumer efforts led to targeted research funding and the creation of the CDMRP. The voices and experiences of consumers plays a pivotal role in the growth of CDMRP research programs.

Over 2,600 consumers representing over 1,200 organizations have served on CDMRP Peer Review and Programmatic Review panels.
CDMRP Funding History (FY10-19)

- Alcohol and Substance Abuse Disorders
- Autism
- Breast Cancer
- Chronic Myelogenous Leukemia
- Combat Readiness-Medical
- Deployment Related Medical
- Duchenne Muscular Dystrophy
- Genetic Studies of Food Allergies
- Hearing Restoration
- Joint Warfighter Medical
- Lung Cancer
- Melanoma
- Multiple Sclerosis
- National Prion
- Orthotics and Prosthetics Outcomes
- Ovarian Cancer
- Peer Reviewed Alzheimer’s
- Peer Reviewed Medical
- Amyotrophic Lateral Sclerosis
- Bone Marrow Failure
- Breast Cancer Research Semipostal
- Chronic Pain Management
- Defense Women’s Health
- DOD/VA Medical
- Epilepsy
- Gulf War Illness
- Institutionally Based Programs
- Kidney Cancer
- Lupus
- Military Burn
- Myeloproliferative Disorders
- Neurofibromatosis
- Osteoporosis
- Parkinson’s
- Peer Reviewed Cancer
- Peer Reviewed Orthopaedic

*FY19 Approximate funding of Additional Supported DoD Programs/Projects
<table>
<thead>
<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Amyotrophic Lateral Sclerosis</td>
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<tr>
<td>Alzheimer’s</td>
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<tr>
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<td>Bone Marrow Failure Disease</td>
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<tr>
<td>Breast Cancer</td>
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<tr>
<td>Breast Cancer Research Semipostal</td>
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<td>Duchenne Muscular Dystrophy</td>
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<td>Orthotics and Prosthetics Outcomes</td>
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<table>
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<td>Ovarian Cancer</td>
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<tr>
<td>Pancreatic Cancer*</td>
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<td>Neurotoxin Exposure Treatment Parkinson’s</td>
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<td>Peer Reviewed Medical (44 Topics)</td>
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<td>Peer Reviewed Cancer (14 Topics)</td>
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<td>Prostate Cancer</td>
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<td>Rare Cancers*</td>
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<td>Reconstructive Transplant</td>
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<td>Scleroderma*</td>
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<td>Spinal Cord</td>
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<td>Tuberous Sclerosis Complex</td>
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<tr>
<td>Vision</td>
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**TOTAL CSI = ~$1.2B**

**Additional Supported DoD Programs/Projects**

<table>
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<th>Program</th>
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<tr>
<td>Armed Forces Institute of Regenerative Medicine II</td>
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<td>Defense Medical R&amp;D</td>
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<td>Psychological Health and Traumatic Brain Injury</td>
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<td>Small Business Innovation Research/Small Business Technology Transfer</td>
<td>TBD</td>
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<tr>
<td>Trauma Clinical</td>
<td>$10.0</td>
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**TOTAL OVERALL = ~$1.6B**

(1) New for FY20  (1) Approximate funding of Additional Supported DoD Programs/Projects
FY20 Topic Areas for Peer Reviewed Medical Research (44 total)

- Arthritis
- Burn Pit Exposure
- Chronic Migraine and Post-Traumatic Headache
- Congenital Heart Disease
- Constrictive Bronchiolitis
- Diabetes
- Dystonia
- Eating Disorders
- Emerging Viral Diseases
- Endometriosis
- Epidermolysis Bullosa
- Familial Hypercholesterolemia
- Fibrous Dysplasia
- Focal Segmental Glomerulosclerosis
- Food Allergies
- Fragile X
- Frontotemporal Degeneration
- Guillain-Barre Syndrome
- Hemorrhage Control
- Hepatitis B
- Hydrocephalus
- Immunomonitoring of Intestinal Transplants
- Inflammatory Bowel Disease
- Interstitial Cystitis
- Metals Toxicology
- Mitochondrial Disease
- Musculoskeletal Health
- Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
- Myotonic Dystrophy
- Nutrition Optimization
- Pancreatitis
- Pathogen-Inactivated Blood Products
- Plant-Based Vaccines
- Polycystic Kidney Disease
- Pressure Ulcers
- Pulmonary Fibrosis
- Resilience Training
- Respiratory Health
- Rheumatoid Arthritis
- Sleep Disorders and Restriction
- Spinal Muscular Atrophy
- Sustained Release Drug Delivery
- Vascular Malformations
- Women’s Heart Disease

Applicants must address at least one of the Topic Areas, as directed by Congress.
Additional Supported DoD Programs/Projects
Program Area Directorates/Joint Program Committees

**Medical Simulation and Information Sciences**
- Health Information Sciences
- Medical Modeling, Simulation, and Training
- Health Information Technology and Informatics

**Combat Casualty Care**
- Battlefield Resuscitation for Immediate Stabilization of Combat Causalities
- En Route Care
- Prolong Field Care
- Neurotrauma

**Military Infectious Diseases**
- Bacterial Diseases

**Military Operational Medicine**
- Environmental Health and Protection
- Injury Prevention and Reduction
- Physiological Health and Performance
- Psychological Health and Resilience

**Radiation Health Effects**
- Biomedical Technology for Radiation Medical Countermeasures

**Clinical and Rehabilitative Medicine**
- Neuromusculoskeletal Injury Rehabilitation
- Pain Management
- Regenerative Medicine
- Sensory System Traumatic Injury (visual, auditory and vestibular dysfunction)
Program Cycle

1. **Congressional Appropriation**
2. **Stakeholders Meetings**
3. **Vision Setting**
4. **Funding Opportunities Released**
5. **Pre-Application Receipt**
6. **Pre-Application Screening and Invitation to Submit**
7. **Application Receipt**
8. **Peer Review**
9. **Programmatic Review**
10. **Funding Recommendations**
11. **Commanding General Approval**
12. **Award Negotiations**
13. **Award Management**
14. **Research Outcomes**
15. **Research News and Reports**
16. **Award Closeout**

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**Annual Appropriation, Review, and Award Cycle**

*Month 6* | *Month 12* | To *Month 24*

*As needed*

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**Awards Management**

*Month 18* | To *Month 84*
Goal of the Two-Tier Review Process

To develop funding recommendations that balance the most meritorious science across many disciplines and offer the highest promise to fulfill the programmatic goals set forth in the relevant Program Announcement

**Peer Review**

- Criterion-based evaluation of full proposal
- Determination of “absolute” scientific merit
- Outcome: Summary Statements
  - No standing Peer Review panels
  - No contact between reviewers and applicants

**Programmatic Review**

- Comparison among proposals of high scientific merit
- Determination of adherence to intent and program relevance
- Outcome: Funding Recommendations
  - No “pay line” (portfolio balance)
  - Funds obligated up-front; limited out-year budget commitments (but milestones imposed)
  - No continuation funding

**Partnership**
Funding Opportunities

- Numerous types of award mechanisms
  - Fund full continuum of research
  - Tailored to the goals of each program
  - Programs, topics, and focus areas may vary from year to year

- Program Announcement (PA) or program-specific Broad Agency Announcement (BAA) funding opportunities
  - Grants/Cooperative Agreements (few contracts)

- Funding opportunity postings
  - CDMRP website (https://cdmrp.army.mil)
  - Electronic Biomedical Research Application Portal (https://ebrap.org)
  - Grants.gov (Search Grants, CGDA 12.420)
  - Beta.sam.gov (BAAs and contract funding opportunities)
CDMRP Program Announcements use a uniform structure

Content will vary by:
- Funding Opportunity Mechanism
- Programmatic Priorities
- Review Requirements
- Funding Levels/Period of Performance

maintain:
- Required Key Components
- Overall Organizational Presentation
Section II.C.1.b of the Program Announcement specifies who is eligible to be designated the Principal Investigator (PI) of a study. Eligibility may:

- Allow applicants of all academic levels including junior investigators
  - Some Program Announcements may have stratified tiers based on academic experience (New vs Experienced Investigator Options)
- Exclude junior or senior investigators
- Target a specific range of academic experience

II.C.1.b. Principal Investigator

Investigators at all academic levels (or equivalent) are eligible to be named as a PI, Initiating PI, or Partnering PI on an application.

Applications are encouraged for postdoctoral fellows. A Mentorship Statement (see Attachment 9) is required for applications submitted with a PI who is a postdoctoral fellow.
Program Description and Award Information

◆ Program Description
  ❖ Programs History
  ❖ Programs Priorities
    • Topic Areas
    • Focus Areas
    • Areas of Emphasis
    • Overarching Challenges
  ❖ Areas of Encouragement

◆ Award Information
  ❖ Critical Components/Important Aspects of an Application
  ❖ Research Restriction
### Open FY20 Announcements
- Amyotrophic Lateral Sclerosis
- Breast Cancer
- Ovarian Cancer
- Peer Review Medical

### Programs with Pre-Announcements
- Autism
- Bone Marrow Failure
- Epilepsy
- Gulf War Illness
- Lung Cancer
- Military Burn
- Multiple Sclerosis
- Neurofibromatosis
- Orthotics and Prosthetics Outcomes
- Peer Reviewed Alzheimer’s
- Peer Reviewed Cancer
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Spinal Cord Injury
- Tick-Borne Disease
- Tuberous Sclerosis Complex
For more information about CDMRP, please visit:

cdmrp.army.mil

For more information on the application process and strategies for success please view our webinar series

cdmrp.army.mil/pubs/Webinars/webinar_series