

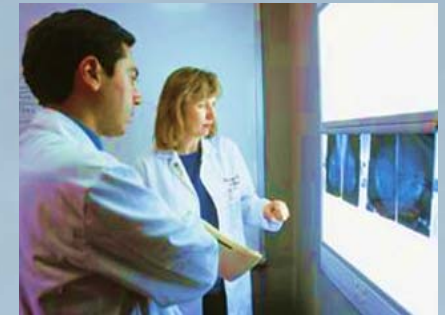
The Congressionally Directed Medical Research Programs

CUTTING EDGE RESEARCH

*Peer Reviewed Cancer Research
Program (PRCRP) Funding
Opportunities and Strategies for
Success*

Donna M. Kimbark, Ph.D.

CDMRP PRCRP Program Manager

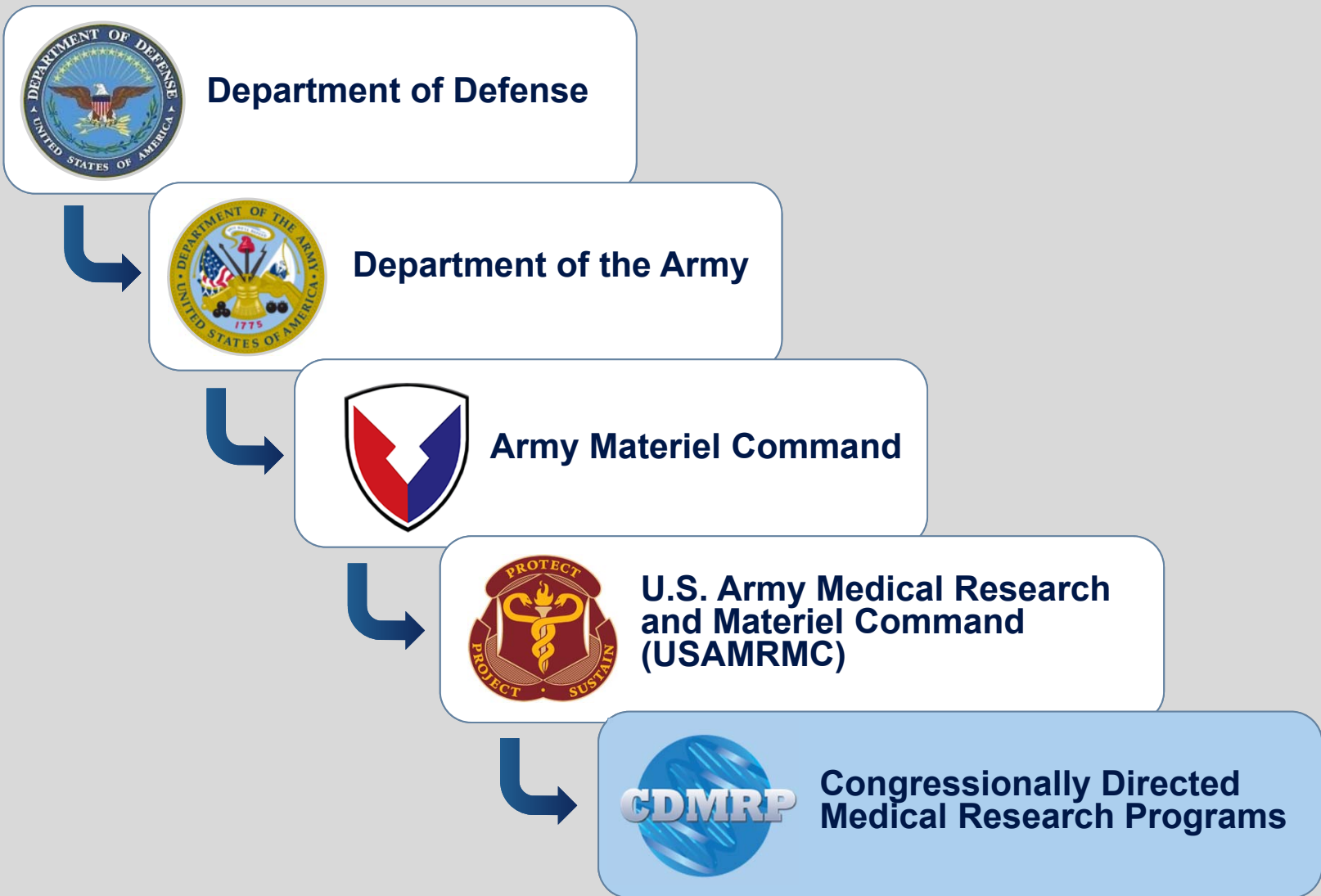


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CDMRP
Department of Defense



WHO is the CDMRP?



About CDMRP



◆ CONGRESSIONAL PROGRAMS

- ❖ Manages extramural research programs directed by Congress
- ❖ Started in 1992 with a focus on breast cancer research; currently includes 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
- Duchenne Muscular Dystrophy
- Epilepsy
- Gulf War Illness

- Hearing Restoration
- Joint Warfighter Medical
- Kidney Cancer
- Lung Cancer
- Lupus
- Military Burn
- Multiple Sclerosis
- Neurofibromatosis
- Orthotics and Prosthetics Outcomes
- Ovarian Cancer

- Parkinson's
- Peer Reviewed Alzheimer's
- Peer Reviewed Cancer
- Peer Reviewed Medical
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Reconstructive Transplant
- Spinal Cord Injury
- Tick-Borne Disease
- Tuberous Sclerosis Complex
- Vision

ADDITIONAL SUPPORTED DOD PROGRAMS:

- Armed Forces Institute of Regenerative Medicine II
- 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 and Mission

Vision

**Transform healthcare for
Service Members and the
American public
through innovative and
impactful research**

FUNDING GROUNDBREAKING, HIGH-IMPACT RESEARCH

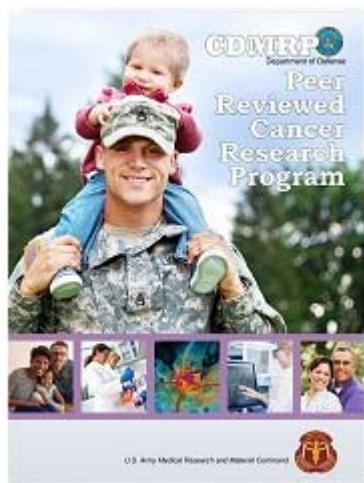
Mission

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

Peer Reviewed Cancer



Vision - To advance mission readiness of U.S. military members affected by cancer and to improve quality of life by decreasing the burden of cancer on Service members, their families and the American public



Mission: To successfully promote high-impact research for cancer prevention, detection, treatment, and survivorship

- Congressional language stipulates the Topic Areas to be funded, the appropriation amount, and the requirement that research is relevant to Service members and their families

- Over the ten years of the PRCRP, 24 Topic Areas have been included in the Congressional Language.



Congressional Appropriations

\$339.8 million
FY09-FY18

\$90 million
FY19

Congressional Language: FY19 Topic Areas

FY19 Topic Areas

- Bladder Cancer
- Blood Cancers
- Brain Cancer
- Cancer in children, adolescents & young adults
- Colorectal Cancer
- Immunotherapy
- Listeria vaccine for cancer
- Liver Cancer
- Lymphoma
- Mesothelioma
- Neuroblastoma
- Pancreatic Cancer
- Pediatric Brain Tumors
- *Rare Cancers*
- Stomach Cancer

Applicants must address at least one of the Topic Areas as directed by Congress

Funds may not be used for research into breast, prostate, ovarian, kidney, melanoma or lung cancers

Research progress should be relevant to Service members and their families

FY19 Congressional Language: Relevance to Military Health Focus Areas

Required for All Funding Opportunities

- ◆ Environmental/Exposure risk factors associated with cancer (e.g., ionizing radiation, chemicals, infectious agents, and environmental carcinogens)
- ◆ Gaps in cancer prevention, screening, early detection, diagnosis, treatment, and/or survivorship have a particularly profound impact on the health and well-being of Service members, Veterans, and their beneficiaries

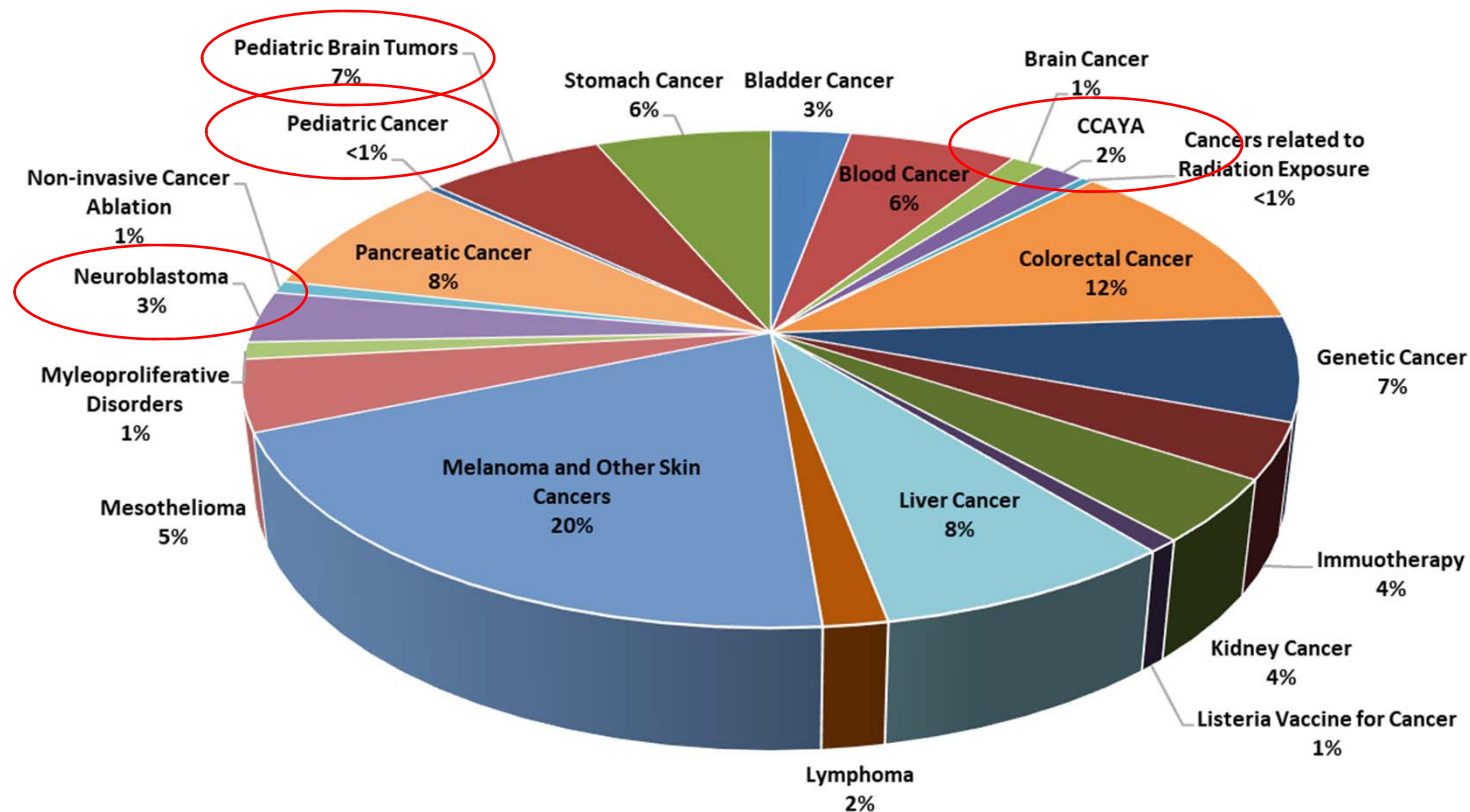


Environmental Exposures



Mission Readiness

Total Amount Invested in Each TA FY09-FY17 (% of portfolio)



Application Statistics*

**Cancers in Children, Adolescents and Young Adults (CCAYA);
Pediatric Brain Tumor; Neuroblastoma**

Topic Area	# Awards	Research Dollars (Millions)
CCAYA	12	\$6.2M
Neuroblastoma	3	\$1.5M
Pediatric Brain Tumor	5	\$2.5M

***Application Statistics are not finalized until award negotiations are complete (30 September 2019). Application Statistics and final investment amounts are subject to change (i.e. withdrawals of applications due to overlap).**

Finding Funding Opportunities

DEPARTMENT OF DEFENSE - CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS

Contact Us | Site Map

CDMRP Transforming Healthcare through Innovative and Impactful Research

Home Research Programs Funding Opportunities

<https://cdmrp.army.mil>

2018 Program Funding Opportunities

- Amyotrophic Lateral Sclerosis
- Bone Marrow Failure
- Breast Cancer
- Ovarian Cancer
- Peer Reviewed Medical

Latest News

Peripheral Prisms and Perceptual-Motor

Electronic Biomedical Research Application Portal

Serving DoD, DHA, US Army, USAMRMC, USAMRAA, CDMRP

<https://ebrap.org>

Login Register Funding Opportunities & Forms

Welcome to eBRAP

Register

I am a new: Principal Investigator

*Select from drop down

Start Registration

Program News and Updates

- Welcome to eBRAP. To access the user guide, please

Email Subscriptions

- To subscribe to program specific news and updates, please
- To remove your email from program subscription list, please

Help

- Frequently Asked Questions
- Commonly Made Mistakes
- Contact the helpdesk/webmaster

For Investigators

- Open Funding Opportunities »
- eBRAP: Start Pre-application »
- How to Apply »

GRANTS.GOV

SEARCH: Grant Opportunities Enter Keyword... GO

HOME LEARN GRANTS SEARCH GRANTS APPLICANTS GRANTORS SYSTEM-TO-SYSTEM FORMS CONNECT SUPPORT

GRANTS.GOV Search Grants

SEARCH GRANTS

BASIC SEARCH CRITERIA:

Keyword(s):

CFDA 12.420 SEARCH

OPPORTUNITY STATUS:

- ☒ Forecasted (0)
- ☒ Posted (23)
- ☐ Closed (1)
- ☐ Archived (757)

FUNDING INSTRUMENT TYPE:

- ☒ All Funding Instruments
- ☐ Cooperative Agreement (23)
- ☐ Grant (23)
- ☐ Procurement Contract (2)

ELIGIBILITY:

- ☒ All Eligibilities
- ☐ Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled 'Additional Information on Eligibility' (23)

1 - 23 OF 23 MATCHING RESULTS:

Opportunity Number	Opportunity Title	Agency	Opportunity Status	Posted Date	Close Date
W81XWH-18-GWIRP-CTA	Gulf War Illness, Clinical Trial Award	DoD-AMRAA	Posted	05/01/2018	11/08/2018
W81XWH-18-PRMRP-PIRA	DoD PRMRP Investigator-Initiated Research Award	DoD-AMRAA	Posted	04/25/2018	09/20/2018
W81XWH-18-PRMRP-PTDA	DoD PRMRP Technology/Therapeutic Development Award	DoD-AMRAA	Posted	04/25/2018	09/20/2018
W81XWH-18-PRMRP-PDA	DoD PRMRP Discovery Award	DoD-AMRAA	Posted	04/25/2018	08/28/2018
W81XWH-18-OCRP-OMCDA	DoD Ovarian Cancer, Omics Consortium Development Award	DoD-AMRAA	Posted	04/11/2018	08/08/2018
W81XWH-18-OCRP-PA	DoD Ovarian Cancer Pilot Award	DoD-AMRAA	Posted	04/11/2018	08/22/2018

Grants.gov "Search Grants"

FY19 PRCRP Funding Opportunities

Preproposal Required

Idea Award with Special Focus	Impact Award	Translational Team Science Award
<ul style="list-style-type: none">• All researchers with faculty level appointment eligible• Supports innovative, high-risk/high gain research• Emphasis on innovation• <u>Special Focus on military health</u>• Preliminary data not required• Direct costs - \$400k over 2 yrs.	<ul style="list-style-type: none">• Assistant Professor or above eligible• Support research projects or ideas that specifically focus on critical scientific and clinical cancer issues, have the potential to make a major impact on one of the FY19 PRCRP Topic Areas• Clinical Trial support• <u>Emphasis on military health</u>• Preliminary data required• Direct costs - \$1M over 3 yrs.	<ul style="list-style-type: none">• Assistant Professor or above eligible• 2-3 PIs partner• Supports correlative studies associated with an ongoing, completed trial• Clinical Trial support• <u>Emphasis on military health</u>• Preliminary data required• Direct costs - \$1.5M amongst the partners over 4 yrs.

FY19 PRCRP Funding Opportunities

Letter of Intent

Horizon Award

- Pre-doctoral candidates or Postdoctoral fellows
- Mentor at level of Assistant Professor
- Research Development Plan required
- Emphasis on Impact
- Military health requirement
- Preliminary data not required
- Direct costs - \$150k over 2 yr.

Career Development Award

- Independent investigator within 10 years of terminal degree
- Career Guide at level of Associate Professor
- Supports impactful research
- Focus on military health
- Preliminary data not required
- Direct costs - \$360k over 3 yrs.

Funding Opportunity Documents

Program Announcement

I. OVERVIEW OF THE FUNDING OPPORTUNITY

Program Announcement for the Department of Defense

Defense Health Program

Congressionally Directed Medical Research Programs

Peer Reviewed Cancer Research Program

Idea Award with Special Focus

Announcement Type: Initial

Funding Opportunity Number: W81XWH-19-PRCRP-IASF

Catalog of Federal Domestic Assistance Number: 12.420 Military Medical Research and Development

SUBMISSION AND REVIEW DATES AND TIMES

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 22, 2019

Invitation to Submit an Application: June 26, 2019

Application Submission Deadline: 11:59 p.m. ET, September 11, 2019

End of Application Verification Period: 5:00 p.m. ET, September 16, 2019

Peer Review: November 2019

Programmatic Review: January 2020

General Application Instructions

General Application Instructions

Version 20180329

Department of Defense

Defense Health Program

Congressionally Directed Medical Research Programs

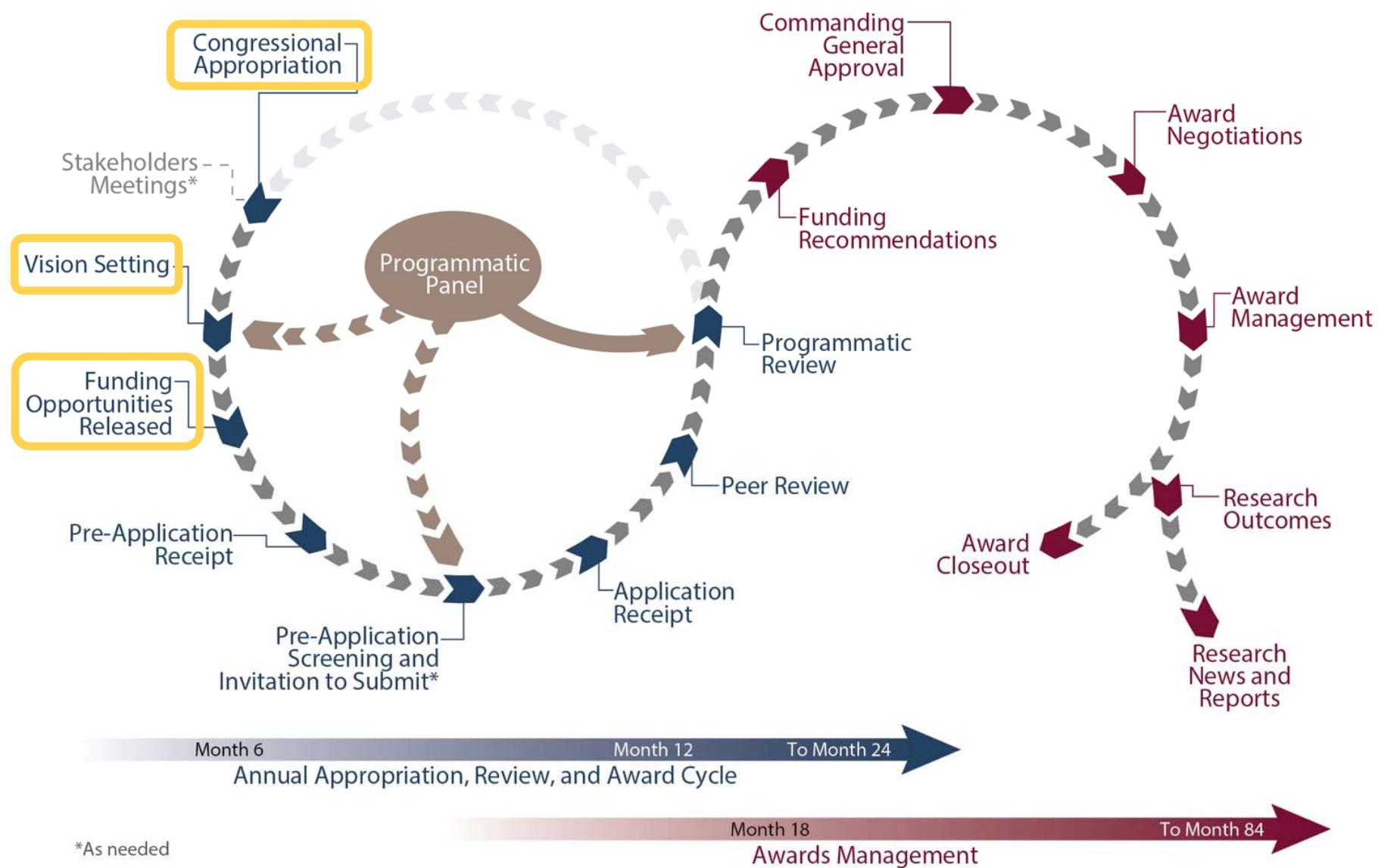
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This General Application Instructions document must be read in conjunction with the *CDMRP Funding Opportunity Announcement*.

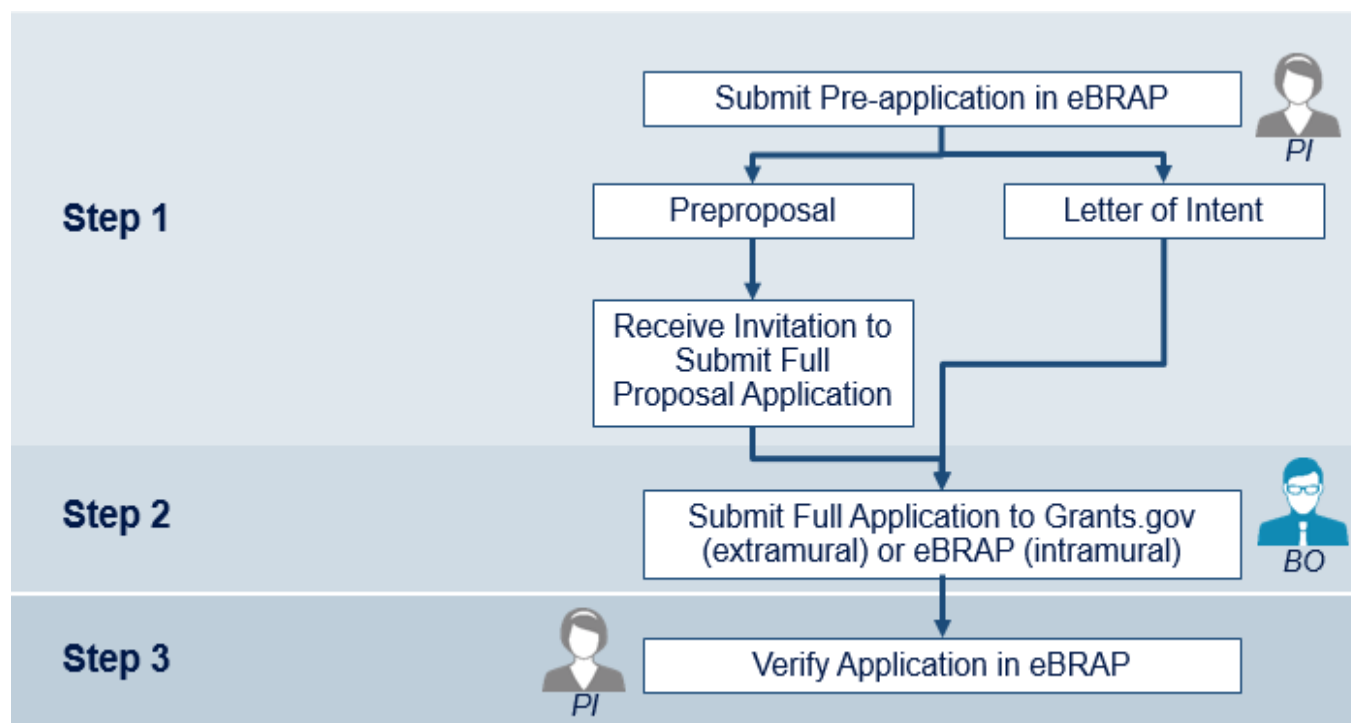
Single most important tip:
Read both documents carefully

Program Cycle



Submission Information

CDMRP utilizes a standard submission process



BO: Business Official from applicant organization

eBRAP: electronic Biomedical Research Application Portal

All PAs use a two-step submission process:

(1) Pre-apps
(Preproposal or Letter of Intent) via eBRAP

(2) Full apps
Grants.gov
(extramural)

What's the Difference?

Pre-proposal v. Letter of Intent

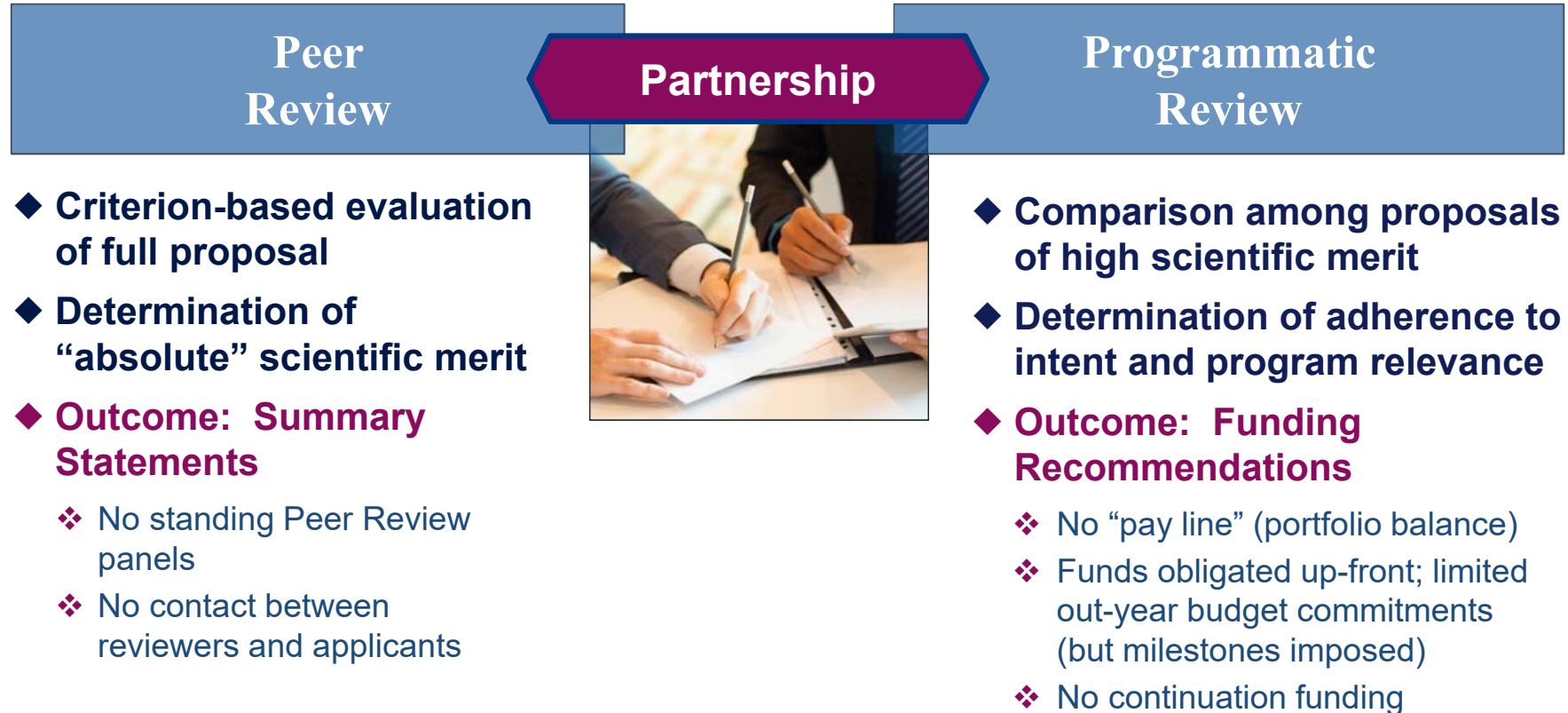
- ◆ Submission through ebrap.org – follow all instructions
 - ◆ Preparation of a 1-2 page narrative
 - ◆ Pre-proposal may include biosketches, other supporting documents
 - ◆ Pre-proposal will be reviewed by Programmatic Panel
 - ◆ Invitation to submitted full application is **REQUIRED**
- ◆ Submission through ebrap.org – follow all instructions
 - ◆ Letter → state intent to apply
 - ◆ Not reviewed
 - ◆ Used for administrative purposes only
 - ◆ **NO invitation is required to submit full application**

Idea Award with Special Focus
Translational Team Science Award
Impact award

Horizon Award
Career Development Award

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



First Tier: Peer Review

■ How the evaluation process works

- ◆ Technical merit assessment based on an ideal application
- ◆ Criteria-based evaluation of entire application

■ Peer reviewers

- ◆ Panels comprised of scientific and consumer reviewers
- ◆ No standing panels
- ◆ Reviewers are recruited based on expertise needed
- ◆ Identities are unknown to applicants; contact between applicants and reviewers are not permitted



**Outcome:
Summary
Statements**

Example of Peer Review Criteria

II.E.1.a. Peer Review

To determine technical merit, all applications will be evaluated according to the following scored criteria, which are listed in decreasing order of importance:

- **Scientific Merit**
 - How well the proposed research addresses an important scientific question relevant to at least one of the FY19 PRCRP Topic Areas in [Section II.A.1](#).
 - To what degree the proposed research demonstrates the potential to generate robust preliminary data that can be used as a foundation for future research projects.
 - How well the rationale, experimental design, and methodology are appropriate to test the hypothesis.
 - To what degree the statistical plan is appropriate for the experimental methodology being used.
 - How well the application acknowledges potential problems and addresses potential pitfalls and alternative approaches.
 - Whether the applicant demonstrates the availability of tissue, data, or human subjects, if applicable.
 - If applicable, to what extent the human subject population is described as being appropriate for the study and if there is clear access to the designated population.
 - If applicable, whether the power analysis for the proposed study adequately addresses an assessment of the population or subpopulation available for study.

**Answer ALL of
the questions
Peer Reviewers
evaluate!**

Second Tier: Programmatic Review

■ How the evaluation process works

- ◆ Comparison-based
- ◆ Strong scientific merit
- ◆ Adherence to award mechanism's intent
- ◆ Potential for impact
- ◆ Program relevance
- ◆ Consideration of portfolio composition

■ Programmatic reviewers

- ◆ Programmatic Panel members comprised of consumers, clinicians, and researchers
- ◆ Ad hoc reviewers



**Outcome:
Funding
Recommendations**

Programmatic Panel

Name, Organization

Dan Dixon, Ph.D. (Chair)

University of Kansas Medical Center

Jonathan Brody, Ph.D.

Thomas Jefferson University

Clark Chen, M.D., Ph.D.

University of Minnesota

LCDR Alden Chiu, M.D.

Walter Reed National Military Medical Center

Paul Doetsch, Ph.D.

National Institutes of Health, National Institute of Environmental Health Sciences

Lt. Col. Della Howell, M.D.

Brooke Army Medical Center

Brant Inman, M.D.

Duke University Health

John Kuttesch, M.D., Ph.D.

University of New Mexico

Aaron Mansfield, M.D.

Mayo Clinic

Robert Mesloh (Consumer)

Lymphoma Research Foundation

Lopa Mishra, M.D.

University of Texas MD Anderson Cancer Center

COL Thomas Newton, M.D.

Walter Reed National Military Medical Center

Nancy Roach (Consumer)

Fight Colorectal Cancer

Kenneth Tanabe, M.D.

Harvard University

II.E.1.b. Programmatic Review

To make funding recommendations and select the application(s) that, individually or collectively, will best achieve the program objectives, the following criteria are used by programmatic reviewers:

- Ratings and evaluations of the peer reviewers
- Relevance to the mission of the DHP and FY19 PRCRP, as evidenced by the following:
 - Adherence to the intent of the award mechanism
 - Program portfolio composition
 - Relevance to FY19 PRCRP Military Health Focus Areas
 - Relative innovation

- **Do NOT include ANY of the Programmatic Panel members in your application!**
- **Pay attention to the details of the Programmatic Review Criteria!**
- **Don't 'phone it in'!**

Strategies for Success



Relevance

- ◆ Address program-specific goals
- ◆ Align the proposed work with specific guidance from the announcement



Impact

- ◆ Propose solutions to important problems
- ◆ Clearly articulate translatability – how will this work make a difference?



Innovation

- ◆ Identify gap(s) that will be filled and novel approaches used



Feasibility

- ◆ Justify a technically sound plan with clear approaches for contingencies
- ◆ Include evidence of appropriate **EXPERTISE** (collaboration, consultants, etc.)
- ◆ Ensure the study is **APPROPRIATELY POWERED** for the proposed research outcome
- ◆ Demonstrate **AVAILABILITY** and **ACCESS** to critical resources, reagents, and/or subject populations

Strategies for Success

✓ Planning/Timelines

- ◆ Include and allow adequate time in project plan for regulatory approvals if required
- ◆ For multi-organizational efforts, show a clear plan for **COORDINATION** and communication
- ◆ For DoD collaborations, understand rules and plan for differences in funding process



✓ Grantsmanship

- ◆ Explain the proposed work with **CLARITY** and **UNBURDENED** by jargon
- ◆ Understand the different audiences of the peer and programmatic reviews and **COMMUNICATE** effectively
- ◆ **REVIEW** application documents carefully before submission – Enlist experienced colleagues to help
- ◆ Don't break the rules for deadlines or requirements – **BE COMPLIANT**

Pitfalls to Avoid in Application Submission



- **Do not include Programmatic Panel members for the program and fiscal year to which you are applying**
- **Do not exceed the page limits; check files after creating PDF version**
- **Do not miss the submission deadline**
 - ◆ Grants.gov validation may take up to 72 hours
 - ◆ System-to-system submissions are sometimes problematic
 - ◆ Application verification in eBRAP is possible before the deadline
- **Submit the correct Project Narrative and Budget**
 - ◆ These components cannot be modified during the verification period in eBRAP

For more information, please visit:
cdmrp.army.mil/prcrp

https://cdmrp.army.mil/pubs/video/CDMRP_overview

https://cdmrp.army.mil/pubs/Webinars/webinar_series

