

**US ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND (USAMRDC)
CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS (CDMRP)
FISCAL YEAR 2022 (FY22) PROSTATE CANCER RESEARCH PROGRAM (PCRP)**

DESCRIPTION OF REVIEW PROCEDURES

The programmatic strategy implemented by the FY22 PCRP called for applications in response to program announcements (PAs) for three award mechanisms released in April 2022:

- Idea Development Award (IDA)
- Physician Research Award (PRA)
- Early Investigator Research Award (EIRA)

For the IDA, PRA, and EIRA, Principal Investigators (PIs) were asked to submit a letter of intent to submit a full application. Applications were received for these three PAs in July 2022 and peer reviewed in September 2022. Programmatic review was conducted in November 2022.

In response to the IDA PA, 204 compliant applications were received and 34 (16.7%) were recommended for funding for a total of \$47.59 million (M).

In response to the PRA PA, 11 compliant applications were received and 7 (63.6%) were recommended for funding for a total of \$7.61M.

In response to the EIRA PA, 26 compliant applications were received and 12 (46.2%) were recommended for funding for a total of \$5.88M.

Submission and award data for the FY22 PCRP are summarized in the table below.

Table 1. Submission/Award Data for the FY22 PCRP*

Mechanism	Compliant Applications Received	Applications Recommended for Funding (%)	Total Funds
IDA	204	34 (16.7%)	\$47.59M
PRA	11	7 (63.6%)	\$7.61M
EIRA	26	12 (46.2%)	\$5.88M
Total	241	53 (22.0%)	\$61.08M

*These data reflect funding recommendations only. Pending FY22 award negotiations, final numbers will be available after September 30, 2023.

THE TWO-TIER REVIEW SYSTEM

The USAMRDC developed a review model based on recommendations of the 1993 Institute of Medicine (IOM) (now called the National Academy of Medicine) of the National Academy of Sciences report, *Strategies for Managing the Breast Cancer Research Program: A Report to the*

Army Medical Research and Development Command. The IOM report recommended a two-tier review process and concluded that the best course would be to establish a peer review system that reflects not only the traditional strengths of existing peer review systems, but also is tailored to accommodate program goals. The Command has adhered to this proven approach for evaluating competitive applications. An application must be favorably reviewed by both levels of the two-tier review system to be funded.

THE FIRST TIER—Scientific Peer Review

IDA, PRA, and EIRA applications were peer reviewed in September 2022 by 14 panels of researchers, clinicians, and consumer advocates based on the evaluation criteria specified in the PAs.

Peer review was conducted via videoconference by 11 panels for the IDA and three panels for the PRA and EIRA. Each peer review panel included a Chair, an average of seven scientific reviewers, an average of two consumer reviewers, and a nonvoting Scientific Review Officer. The primary responsibility of the panelists was to review the technical merit of each application based upon the evaluation criteria specified in the relevant PAs.

Individual Peer Review Panels

The Chair for each panel presided over the deliberations. Applications were discussed individually. The Chair called on the assigned reviewers for an assessment of the merits of each application using the evaluation criteria published in the appropriate PA. Following a panel discussion, the Chair summarized the strengths and weaknesses of each application, and panel members then rated the applications confidentially.

Application Scoring

Evaluation Criteria Scores: Panel members were asked to rate each peer review evaluation criterion as published in the appropriate PA. A scale of 1 to 10 was used, with 1 representing the lowest merit and 10 the highest merit, using whole numbers only. The main reasons for obtaining the criteria ratings were to (1) place emphasis on the published evaluation criteria and provide guidance to reviewers in determining an appropriate overall score, and (2) provide the applicant, the Programmatic Panel, and the Command with an informed measure of the quality regarding the strengths and weaknesses of each application. The evaluation criteria scores were not averaged or mathematically manipulated in any manner to connect them to the global or percentile scores.

Overall Score: To obtain an overall score, a range of 1.0 to 5.0 was used (1.0 representing the highest merit and 5.0 the lowest merit). Reviewer scoring was permitted in 0.1 increments. Panel member scores were averaged and rounded to arrive at a two-digit number (1.2, 1.9, 2.7, etc.). The following adjectival equivalents were used to guide reviewers: Outstanding (1.0–1.5), Excellent (1.6–2.0), Good (2.1–2.5), Fair (2.6–3.5), and Deficient (3.6–5.0).

Summary Statements: The Scientific Review Officer on each panel was responsible for preparing a Summary Statement reporting the results of the peer review for each application. The Summary Statements included the evaluation criteria and overall scores, and peer reviewers'

written comments. This document was used to report the peer review results to the Programmatic Panel. It is the policy of the USAMRDC to make Summary Statements available to each applicant when the review process has been completed.

THE SECOND TIER—Programmatic Review

Programmatic review was conducted in November 2022 by the FY22 Programmatic Panel, which is comprised of a diverse group of basic and clinical scientists and consumer advocates, each contributing special expertise or interest in prostate cancer. Programmatic review is a comparison-based process that considers scientific evaluations across all disciplines and specialty areas. Programmatic Panel members do not automatically recommend funding applications that were highly rated in the technical merit review process; rather, they carefully scrutinize applications to allocate the limited funds available to support each of the award mechanisms as wisely as possible. The programmatic review criteria published in the PAs were as follows: ratings and evaluations of the scientific peer review panels; adherence to the intent of the award mechanism; program portfolio composition; programmatic relevance to FY22 PCRP Overarching Challenges; and relative impact and innovation. After programmatic review, the applications recommended for funding were sent to the Commanding General, USAMRDC, for approval.