



Peer Review at NIH

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Review Branch

NCI New Grantee Workshop
January 24-25, 2024

Review and Funding of NIH Grant Applications - Timeline

Center for Scientific Review *Division of Receipt and Referral*

Assigns to Institute(s) and Review Group
2 weeks

Level I Review: *Study Section*

SRO Recruits and Assigns Reviewers
2-4 weeks

Reviews for Scientific Merit
4-6 weeks

Meets
1-2 days

Score Release
~3 days

SRO Produces Summary Statement
~30 days

Level II Review: *Institute or Center*

Evaluates Relevance to Research Priorities

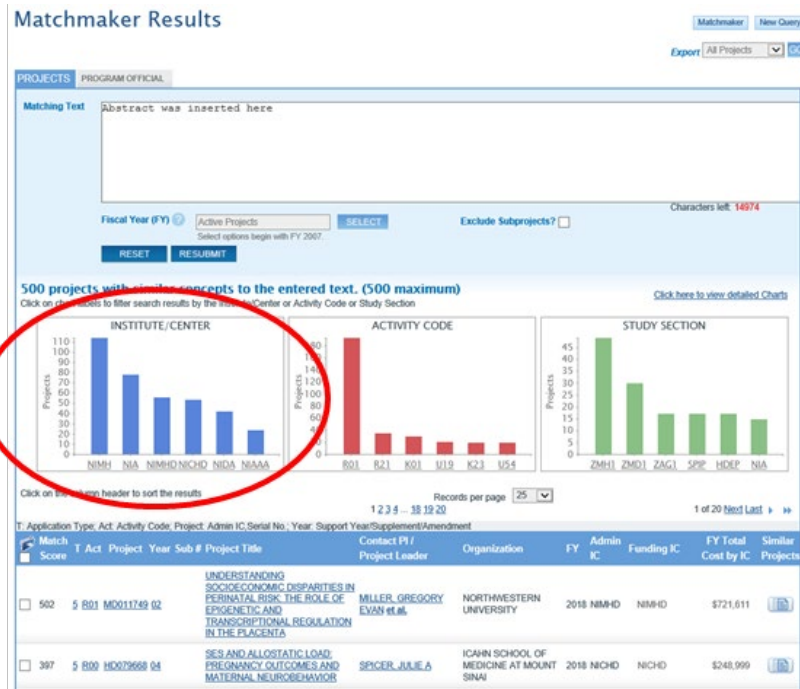
Council Recommends Action

Funding Decision by IC Director
2-4 months

Applications Are Assigned to:

- **Institutes or Centers based on**
 - Overall mission and guidelines of the IC
 - Specific programmatic mandates and interests of the IC
 - Applications can only be assigned to ICs participating in the FOA
- **Scientific review groups based on**
 - Specific, published review guidelines for each review group
 - Suggestions made in the Assignment Request Form are considered

Help Your Application Get to the Right Institute



- Copy abstract/ Aims
- Matchmaker Search returns:
 - List of Institutes
 - List of funded grants
 - Link to Program Officials

Assignment Request Form (ARF)


The ARF replaces many functions of the cover letter.

Use it to:

- Make assignment suggestions (study section and institute)
- Identify potential conflicts of interest
- List areas of expertise needed to evaluate the application

You should never suggest specific reviewers

What study sections might you suggest?



Need a study section recommendation? Try CSR's Assisted Referral Tool (ART)



Join CSR's leadership team: we are hiring for a Director, Division of Receipt and Referral



We're hiring SROs!

Find a Study Section

Enter Keyword or Title



- or -

Use the Assisted Referral Tool >

Keyword search

Assisted Referral Tool (ART)

<http://www.csr.nih.gov>

Assignment to CSR Study Sections

Within a Review Branch, applications are assigned to:

Standing Study Sections

- When subject matter of application matches the referral guidelines for the study section or

Special Emphasis Panels (SEPs)

- When the subject matter does not fit into any study section—recurring or for one-time conflicts or initiatives.
- When assignment of an application to the most appropriate study section creates a conflict of interest
- When certain types of grants are sought (e.g., fellowships, SBIRs, AREAS)

Reviewer Conflicts of Interest (COI)

What constitutes a reviewer COI?

- Institutional
- Family member/ close friend
- Collaborator/ Key Personnel
- Longstanding scientific disagreement
- Personal bias
- Appearance of conflict

http://grants.nih.gov/grants/peer/peer_coi.htm

Confidentiality

- Review materials and proceedings of review meetings represent confidential information for reviewers and NIH staff.
- At the end of each meeting, reviewers must destroy or return all review-related material.
- Reviewers should not discuss review proceedings with anyone except the SRO.
- Questions concerning review proceedings should be referred to the SRO.
- Applicants should never communicate directly with any members of the study section about an application.
- Statute of confidentiality is life-long.

Peer Review Integrity Issues

- For concerns or questions about possible violations of peer review integrity contact:
 - Your Scientific Review Officer
 - CSR Review Integrity Officer at: csrrio@mail.nih.gov
 - NIH Review Policy Officer at: reviewpolicyofficer@mail.nih.gov
- For issues related to respectful interactions, bias or anything else that could affect the fairness of the review process, contact your SRO or send a message to reportbias@csr.nih.gov.

Before the Study Section Meeting



Each application is assigned to 3 or more reviewers 5-6 weeks in advance

Reviewers Assess Each Application by Providing:

- Preliminary Overall Impact score
- Criterion scores
- Comment on appropriateness of your budget
- A written critique

Changes Coming: Simplified Framework for NIH Peer Review

Goals:

1. Enable peer reviewers to better focus on answering the key questions necessary to assess scientific and technical merit
 - Should the proposed research project be conducted?
 - Can the proposed research project be conducted?
2. Mitigate the effect of reputational bias
3. Reduce reviewer burden

When?

Applies to most research project applications submitted for January 25, 2025, due dates. Check the Guide Notice for specific details.

[Guide Notice
NOT-OD-24-010](#)

What Will Change Under the Simplified Review Framework for Research Project Grants?

1. Improve reviewer focus

- Existing five review criteria reorganized into three factors
- Some Additional Review Criteria (inclusions, study timeline) related to human subjects moved to Factor 2

2. Reduce reputational bias

- Investigator/ Environment will be evaluated as sufficient or gaps identified (considered in overall impact score, but no individual score)

3. Reduce reviewer burden

- Most Additional Review Considerations shifted from reviewers to NIH staff

Improve identification of the strongest, potentially highest-impact research

The Simplified Review Framework Reorganizes Five Regulatory Criteria into Three Factors

Before January 25, 2025

- Significance - scored
- Investigator(s) – scored
- Innovation – scored
- Approach – scored
- Environment - scored

On or after Jan 25, 2025 - Simplified Framework (all considered in Overall Impact Score)

- **Factor 1: Importance of the Research**
 - Significance, Innovation
 - Scored 1-9
- **Factor 2: Rigor and Feasibility**
 - Approach (*also include Inclusions and Study Timeline for clinical trials*)
 - Scored 1-9
- **Factor 3: Expertise and Resources**
 - Investigators, Environment
 - Evaluated as appropriate or gaps identified; gaps require explanation
 - Considered in overall impact; no individual score

Learn More & Stay Informed

Policy & Compliance » Simplifying Review of Research Project Grant Applications

- Development background
- Description of changes
- Guidance for reviewers
- Guidance for applicants
- Training and resources
- Notices and reports
- FAQs
- Contacts

& COMPLIANCE
Topics
Review Policies and Practices
Simplifying Review of Research Project Grant Applications
Background
Simplified Peer Review Framework
Reviewer Guidance
Applicant Guidance
FAQ
Training and Resources
Notices
Contacts
Recommendations for Improving NRSA Fellowship Review
Proposed Reviewer Guidance and Application Instructions

[VIEW](#) [NEW DRAFT](#)

Simplifying Review of Research P

NIH is implementing a simplified framework for the peer review of submissions with due dates of January 25, 2025. The changes are c

1. Enable peer reviewers to better focus on answering the key projects:
 - Should the proposed research project be conducted?
 - Can the proposed research project be conducted?
2. Reduce the potential for the review to be influenced by the

Background

Learn more about the N



grants.nih.gov/policy/peer/simplifying-review.htm

At the Meeting

Not Discussed Applications

- About half the applications will be discussed
- Applications unanimously judged by the review committee to be in the lower half are not discussed

Clustering of Review

- New Investigator R01 & some types of applications are often reviewed together

Order of Review

- Applications to be discussed are reviewed in random order within each cluster.



At the Meeting: Application Discussion

- Any member in conflict with an application leaves the room
- Reviewer 1 introduces the application and presents critique
- Reviewers 2 and 3 highlight new issues and areas that significantly impact scores
- All members without a conflict are invited to join the discussion and then vote on the final overall impact score

Scoring Overall Impact

Overall Impact:

The likelihood for a project to exert a sustained, powerful influence on research field(s) involved

Overall Impact	High	Medium	Low
Score	1 2 3	4 5 6	7 8 9

Evaluating Overall Impact:

Consider the 5 criteria: significance, investigator, innovation, approach, environment (weighted based on reviewer's judgment) and other score influences, e.g. human subjects

1-3 Applications are addressing a problem of high importance/interest in the field. May have some or no technical weaknesses.

4-6 Applications may be addressing a problem of high importance in the field, but weaknesses in the criteria bring down the overall impact to medium.

These Applications may be addressing a problem of moderate importance in the field, with some or no technical weaknesses

7-9 Applications may be addressing a problem of moderate/high importance in the field, but weaknesses in the criteria bring down the overall impact to low.

These Applications may be addressing a problem of low or no importance in the field, with some or no technical weaknesses.

5 is a good medium-impact application

NIH's Resubmission Policy

After an unsuccessful new (A0) application or an unsuccessful resubmission (A1) application, you may submit a new (A0) application with the same idea as long as your summary statement has been issued.

The NIH Will Not Accept:

- An A0 or A1 application that overlaps a funded application
- Simultaneous submissions of overlapping applications
- An A0 or A1 application before NIH issues the summary statement of an earlier, overlapping application.

Resubmission FAQs

http://grants.nih.gov/grants/policy/resubmission_q&a.htm

Your New Application Must Be Written as New

Your new (A0) application should not contain information that might bias the review or provide a competitive advantage:

You Cannot Refer to a Previous Review

- No mention of previous score
- No mention of previous reviewer comments
- No mention of how the A0 is responsive to previous review
- No marks in text to indicate changes

You Cannot Submit Elements of a Renewal

- No Progress Report
- No Progress Report Publication List

Where Do We Find Reviewers?

- Successful applicants
- Recommendations from reviewers and NIH staff
- NIH RePORTER (<http://projectreporter.nih.gov/reporter.cfm>)
- NIH PI and reviewer databases
- Internet
- Scientific conferences

NIH Peer Review Information on the Web

National Institutes of Health: <http://www.nih.gov>

- **Office of Extramural Research**
<https://grants.nih.gov/aboutoer/welcome.htm>
- **Grants Policy**
<https://grants.nih.gov/policy/index.htm>
- **Electronic Submission**
https://grants.nih.gov/aboutoer/oer_offices/era.htm

Center for Scientific Review: <http://www.csr.nih.gov>

- **Resources for Applicants**
<http://www.csr.nih.gov/ResourcesforApplicants>
- **CSR Study Section Descriptions**
<http://public.csr.nih.gov/StudySections>
- **CSR Rosters and Meeting Dates**
<https://public.csr.nih.gov/RevPanelsAndDates>