Chair Orientation: NIH's Simplified Review Framework

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How We Got Here-Community Input and NIH Partnership with Extramural Scientists

Community input solicited on Simplifying Review to provide foundational data

Recommendations refined and approved by Institute/Center Directors and the Acting NIH Director

NIH publicly announces the Simplified Review Framework for most research project grants

May 2020 - April 2021

Dec. 2022 - March 2023

February 2020

July 2021 - Sept. 2022

October 2023

Center for Scientific Review (CSR) Advisory Council Working Groups develop initial recommendations

Request for Information published and over 800 responses from individuals and societies received largely supporting the proposed changes.



Main Goals of the Simplified Review Framework (SRF)

- Refocus first-level peer review on its singular role of providing advice to the agency regarding the scientific/technical merit of grant applications
 - Reframes criteria to focus reviewer attention on 3 key questions
 - Removes distractions of certain administrative compliance items
- Address long-standing concerns
 - Inadequate attention to Significance/Innovation
 - Over-emphasis on technical minutiae in the Approach
 - Tendency for reviewers to be risk averse, potentially overlooking innovative research
 - Undue influence of reputation of the Investigator and Environment, making it harder for investigators/institutions less well known to NIH reviewers to be competitive

Facilitate the overarching goal of peer review: identification of the strongest, potentially highest-impact research



Research Project Grant Review: 5 Criteria -> 3 Factors

Applications submitted before January 25, 2025

Overall Impact Score based on 5 criteria

- Significance scored 1-9
- Investigator(s) scored 1-9
- Innovation scored 1-9
- Approach scored 1-9
- Environment scored 1-9

Applications submitted on or after January 25, 2025

Overall Impact Score based on 3 Factors

- Factor 1: Importance of the Research (should it be done?)
 - Scored 1-9
- Factor 2: Rigor and Feasibility (can it be done well?)
 - Scored 1-9
- Factor 3: Expertise and Resources (are the expertise and resources in place to do it?)
 - Evaluated as "appropriate" or "additional expertise/resources needed";
 if additional needs are identified, comments are required
 - Gaps in expertise and/or resources should affect Overall Impact score



^{*}Applies to most Research Project Grants: R01, R03, R15, R16, R21, R33, R34, R36, R61, RC1, RC2, RC4, RF1, RL1, RL2, U01, U34, U3R, UA5, UC1, UC2, UC4, UF1, UG3, UH2, UH3, UH5, R21/R33, UH2/UH3, UG3/UH3, R61/R33

SRF Reduces the Burden of Additional Review Considerations

Additional Review Criteria	Additional Review Considerations
Can affect overall impact score	Do not affect overall impact score
 Protections for Human Subjects Vertebrate Animals Biohazards Renewal Resubmission Revision 	 Authentication of Key Biological and/or Chemical Resources Budget and Period of Support



Role of the Chair

- Actively facilitate the discussion
 - Make sure key questions are answered
 - Step in when needed
- Chairs no longer summarize the discussion

Why? (consistent with SRF goals):

- Focus the chair's attention on facilitating a high-quality discussion
- Encourage non-assigned reviewers to be fully engaged throughout the discussion
- Improve meeting efficiency
- Reduce potential bias
- Pilots in earlier rounds were well received by chairs and panelists
- Partner with the SRO to implement SRF and promote culture change
 - Meet before the meeting to strategize and after the meeting to debrief



A Template for Discussing an Application

Presentations of critiques:

- SRF encourages brevity and better focus on the most important questions of review
- Each reviewer should clearly explain to the panel how they arrived at their score
- Focus should be on score driving issues, positive and negative

Panel discussion:

- Assigned reviewers should explore their differences regarding facts, weighting, perspective, scoring etc.
- Panelists should request clarifications and/or offer new (score-driving) considerations
- Score calibration is important
- Well-presented critiques and a good panel discussion allow for panelists to make informed judgments about the application.
- Clarity, not consensus, is the goal.



Facilitating Discussion: Make Sure Key Questions are Answered

When a discussion concludes you and the panel should understand:

1. Should it be done? (How important is the research?)

- Evaluating the importance of the science is hard, but vital.
- Reviewers confuse public health need with scientific importance.
- A clear message that importance is lacking can be a favor to everyone.
- Emphasis on importance is reflected in SRF structured scoring guidance.

2. Can it be done well? (How rigorous and feasible is the approach?)

- Don't nit pick.
- Don't require certainty—can they overcome challenges.
- Do require rigorous and feasible methods.

3. Are the expertise and resources in place to do it?

- Binary rating provides the input NIH needs without leaving room for reputational bias.
- Evaluations should be <u>specific and pertinent to the proposed project</u>.



Facilitating Discussion: Step in When Needed

- Intervene to end long descriptions of the application and discourage weedy discussions of methods.
- Step in to mitigate reputational bias.
 - If expertise/resources are 'appropriate', no comments needed; reviewers should focus on the science as presented.
 - Seemingly harmless laudatory comments can introduce bias into the evaluation.
- Wrap up discussions that carry on after the score-drivers are clear.
 - E.g., the interesting but tangential scientific discussion
 - E.g., a battle to win the point
- Not your job alone, but if no one asks, you should, when:
 - Importance of the research is not made clear.
 - Major differences in assigned reviewers' views are unexplored.
 - There is significant discrepancy between comments and scores.

