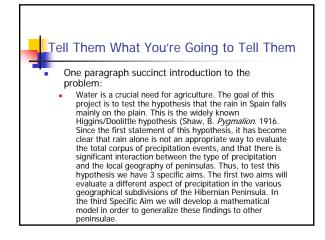
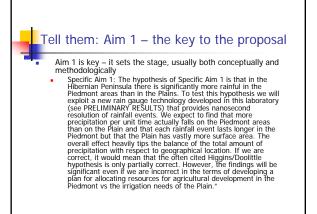
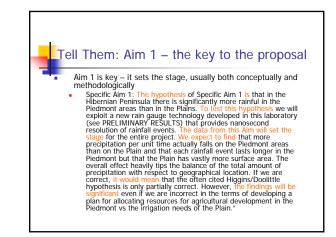


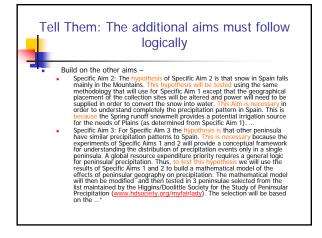
Make <u>Everything</u> Obvious in your Grant Writing

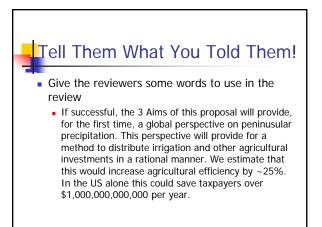
- Tell them what you're going to tell them
- Tell them
- Tell them what you told them









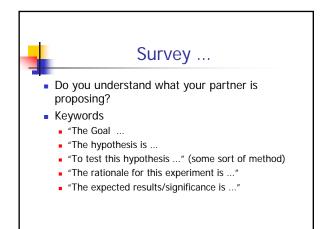


Attempt 2: The Specific Aims: Audience with Brain-engaged

- Think about an experiment that you are doing or that you want to do
- Write down a few sentences about that experiment as if you were writing a Specific Aim for a grant
- 5 minutes

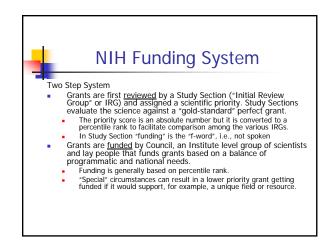
Brief Critique – Again!

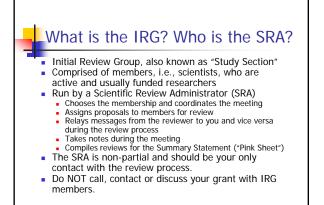
- Pick a partner
- Swap papers
- Read your partner's Aim
- 1 min ...

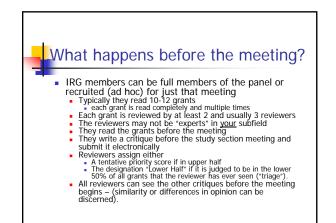




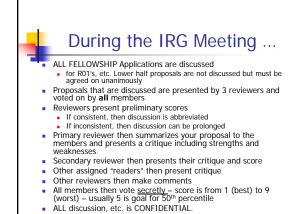












A Real Study Section

- All proceedings are confidential
- Who is <u>allowed</u> to be in the room?
 - SRA (Scientific Review Administrator)
 - Reviewers (Members plus Chair)
 - Administrative Assistant
 - NIH Program Officers

A Real Study Section (note windowless room!)

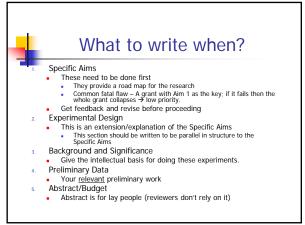


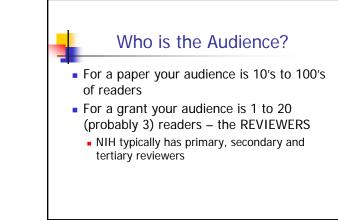
During the IRG Meeting ... The Discussion is crucial -- while the critiques are presented and the discussion is ongoing: Reviewers have originals with color pages, supplements, etc. Other members are listening and possibly browsing through your proposal Every member has the complete text of every proposal on a CD. Illustrations are usually in B&W. Members will likely only have time to read: Specific Aims Your C. V. A figure or two

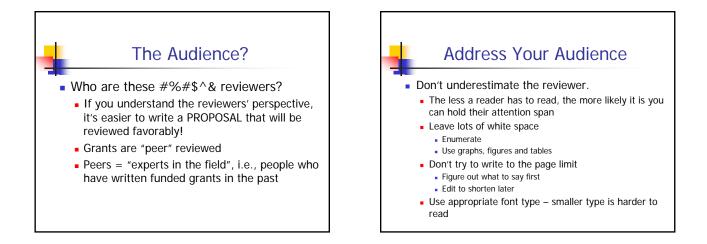
- Members might look at figures of preliminary data or experimental design if the discussion goes long enough and it seems worthwhile especially if the reviewers suggest that that do seems w they do.
- Translation: The simpler to understand, the more likely you are to get a good priority score

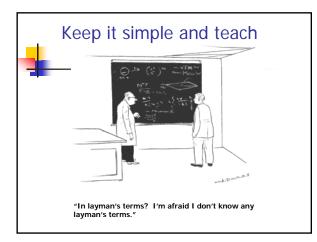
Formal Review Criteria

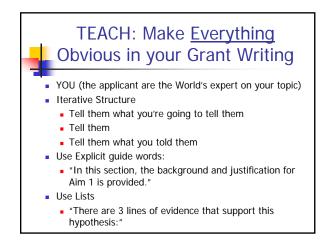
- Significance (Is the problem important?)
- Approach (Are the design and methods appropriate to the address the aims?)
- Innovation (Does the project employ novel concepts, approaches, or methods?)
 - High risk/high reward can be considered a good point.
 - High risk/low reward is not good.
- Investigator (Is the investigator appropriately trained to carry out the study?)
- Collaborators appropriate and qualified
- Environment (Will the scientific environment contribute to the probability of success?)











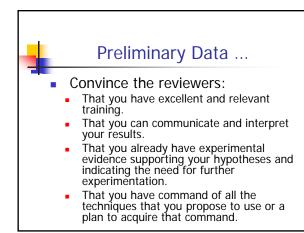
Background and Significance

Your chance to show that

- your proposed work addresses an important question
- your work fits into the larger picture
- it is timely to address the question
- you have a novel approach
- you are intellectually capable of making a contribution to the field
- Focus explaining your hypotheses and how they fit in and/or will change the field

Background and Significance

- Not a review of the literature! It is a sales pitch for YOUR project.
- Demonstrate knowledge of relevant published literature and a critical assessment of open questions. Include your own published work here
- State explicitly what scientific questions other scientists have not yet answered and how your hypothesis fits with these questions. In each paragraph, point out to the reader how your proposed experiments will help resolve important issues in the field (refer to your Aims).
- Some reviewers skip this section on the first read, and only go back if you have forced them.
- Significance should be integrated into your presentation
- Explain the importance of your proposed research. Reviewers are looking for the impact of your research on the disease or health issue in question.
- Relate the hypothesis and research aims to longer-term scientific objectives



Preliminary Data ... Present relevant and pertinent preliminary data. Show the actual data and explain how you interpreted it. This will help establish your experience, competence and credibility. Present your results (even if they are preliminary) in as professional a manner as possible, with clear and complete figure/table legends, calibrations, statistical analysis, etc. This is especially important in a new application in order to document that the applicant can do the work Do not ask reviewers to look at figures in your publications. Put published data into the B&S section, if it's necessary. List your publications and manuscripts submitted or accepted

Experimental Design and Methods

The sections of the experimental design and methods should be identical to the sections of the Specific Aims

- If you have 3 Aims, you should have 3 subsections.
- Label each subsection clearly e.g., Specific Aim 1, Specific Aim 2, etc.
- For each Specific Aim, describe in detail the experiments that you need to fulfill the Aims.

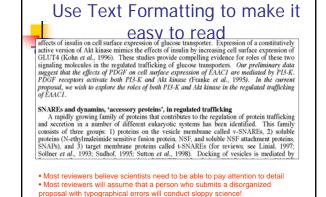
Experimental Design and Methods For each aim or subaim (use subheaders to make it easy to follow) Hypothesis and rationale Experimental design (be clear)

- Experimental design (be clear) Relevant control experiments Animal details, source of cells, number of replicates, statistical methods used, etc. Results and expected outcomes What do I expect, and what will it mean? What if the results are different? Explain alternative paths for the alternative results. Agraph of hypothetical results might clarify the presentation Potential pirtlails: Discuss potential difficulties and limitations of the proposed pn and give alternative procedures to achieve the aims.
- Significance Propose only experiments that are directly relevant to testing your hypotheses

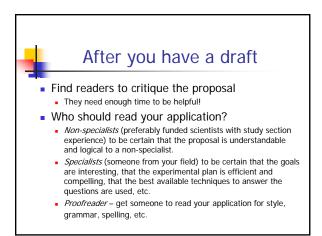
- Propose only experiments that are directly relevant to testing your hypotheses Make sure that that you have the expertise to execute each experiment successfully recruit a collaborator if necessary. Present methods with enough detail to be clear. Avoid excess details unless they are specialized and/or unique or unlikely to be known to reviewers. Refer to other Aims and to other sections of the grant make the grant read like an integrated whole.
 - "Using the methods described for Figure 4 in the Preliminary Results, ..."
 "... as will be tested in Specific Aim 2, ..."

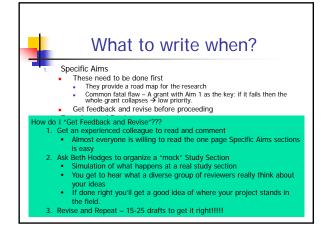
Literature Cited

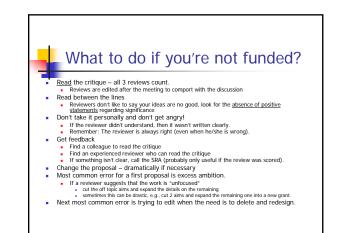
- Demonstrates your familiarity with the field
- Reviewers need complete citations including titles
- Put citations in alphabetical order of authors
- Use a computer program for managing citations



Use Schematics – specifically developed and labeled for the grant







Be Persistent ...

If at first you don't succeed, try, try again"
Teacher's Manual' (1840) by American educator Thomas H. Palmer