Overview

• Identifying funding opportunities
• Writing your grant proposal
• Understanding the review process

Huge thanks to Joyce Fernandes
Miami University, Oxford Ohio
Selected NIH opportunities

http://grants.nih.gov/
Selected NIH opportunities

- **F32** – Ruth L. Kirschtein National Research Service Award
  - *Individual postdoctoral research fellowship*
- **K99/R00 Pathway to Independence Award**
  - *Supports transition from postdoc to independent PI*
- **NIH Director’s New Innovator Award**
  - *Emphasizes individual’s creativity, innovation of approaches, and potential for significant impact*
- **NIH Director’s Early Independence Award**
  - *Supports movement directly from PhD to independence*
- **K Awards** ([http://grants.nih.gov/training/careerdevelopmentawards.htm](http://grants.nih.gov/training/careerdevelopmentawards.htm))
  - *Variety of career development programs, depending on Institute*
- **R21** – NIH Exploratory/Developmental Research Grant Program
Selected opportunities

http://www.nsf.gov/funding/
Selected opportunities

- NSF Graduate Research Fellowship Program
  - Can apply before starting graduate school or as first- or second-year student
- Doctoral Dissertation Improvement Grants
  - For selected areas in Biological Sciences including environmental biology, behavioral systems
- Postdoctoral Research Fellowships in Biology
  - For selected areas including broadening participation, research using biological collections, and National Plant Genome Initiative
- CAREER Awards for early-career faculty
  - Supports the integration of research and education
Other opportunities

• HHMI Early Career Scientist Program
  – *Six year, non-renewable HHMI appointment for those just beginning as independent PIs*

• Burroughs Wellcome Fund Career Awards
  – *Programs in Pathogenesis of Infectious Disease, Career Awards at the Scientific Interface*

• Human Frontier Science Program
  – *Offers postdoctoral fellowships, career development awards, more*

• Look for smaller, local, focused foundations
  – *Nearly 90,000 foundations listed in the Foundation Center Directory*
  – *Focus on career level, potential mission overlap*
Writing the application

• Start early – give yourself plenty of time
• Write clearly and concisely
• Discuss and get feedback from a diverse audience
  The review panel will likely not be specific to your field
• Be very familiar with the review criteria
  Structure the application so the reviewers can see the criteria
• Follow the rules
  Respect the guidelines for length, structure, format, etc.
• Work with your research office
Writing your grant application

1. Communicating the science
   *Your sales pitch*

   - The Central Idea
   - Your Expertise
   - Your Vision

   *What, So What, Then What*
   *What, How, Why*

2. NSF Broader Impacts-
   *the value added component*

   - Research
   - Education
   - Outreach

Genetics Society of America
Review Process

1. Study section
2. Administrative review
3. Institute Council
4. Funding decision by IC director
Review Criteria

– Overall Impact
– Significance
– Investigator(s)
– Innovation
– Approach
– Environment

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Review Process

Review Panel

Funding recommendation by program officer

Funding decision
Review Process

Review Criteria

– Intellectual Merit: the potential to advance knowledge
– Broader Impacts: the potential to benefit society

– Overall Score

Not Competitive → Low Quality → Medium Quality → High Quality
Help make the case for research!

GSA Advocacy Workshop
Friday, June 26, 11:45 am
De Neve Private Dining Room
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