How can a Training or Career Development Award Help You?

It supports the development of your research career:

- Facilitates movement from now to where you want to be in 3-5 years
- Develops your overall scientific career
- Research is just one element (compared to a research grant – e.g. R01 which is all about the research)

Factors to consider in selecting the right funding opportunity:

- Stage in career development
- Research focus
- Prior research experience including publications
- Level of institutional commitment
- Needs of the investigator
- Effort that can be committed
- Citizenship status

Provisions & Requirements:

- Provides up to 5 years salary and research support
- Mentored awards require mentors & strong institutional commitment
- Some awards have specific effort commitment e.g. of ≥75% effort / 9 calendar months
- US citizen or permanent resident (except F99 and K99)
- Letters of recommendation, submitted electronically
Structure of a Grant Application

Specific Aims

Candidate

Research Strategy

• Significance
• Innovation
• Approach
• Responsible Conduct of Research
Specific Aims & Applicant sections

**Specific Aims**
- The **most important page** in the grant – the only page that non-assigned reviewers may read
- Written for a scientist
- Uses short declarative sentences
- Does not include references, jargon or acronyms
- Clearly states the hypothesis
- Ensures that the aims **test** the hypothesis
- Is not be technology driven
- Elements are interdependent, not dependent

**Applicant**
- Tell the story of your training path, and goals
- Focus on the “why” not the “what” you did
- Include information not in biosketch
- Put your best self forward
- Prepare a “Training Program”
  - Select mentors and/or an advisory committee
  - Self identify deficiencies in your training & address with workshops and courses
  - Use the grant to augment your training
  - Indicate how the grant will maximize your chances of becoming an independent investigator
Research Strategy

• Introduction
  • Concise
  • Is not a literature review
  • Leads the reader to the hypothesis
  • Demonstrates the “conversation” in the field
  • Demonstrates a critical question is being asked and (hopefully) answered
  • Focuses everything on the hypothesis

• Approach
  • Demonstrates ability perform work
  • Shows PI’s contribution to work
  • Shows feasibility of experiments
  • Must be “doable” in requested period of funding
  • Is hypothesis-based, not tech driven
  • Is innovative and feasible - if very innovative, MUST have preliminary data to show it is feasible
  • Is NOT descriptive or a “fishing expedition”
  • Is FOCUSED and not a multi-aim proposal to conquer the world
  • Includes controls
  • Includes a section on statistics
  • Discusses potential pitfalls and proposes alternatives
Flaws that are often Fatal

Big Picture
- Lacks relevant significance
- Not innovative
- Not hypothesis-driven
- Poorly written

Experimental Approach
- Overly ambitious …
- … Too narrow
- Dependence of one aim on another
- Lacks sufficient detail and statistical analyses
- Lacks anticipated results and alternative strategies
Common Issues that Limit Enthusiasm from Reviewers

Training plan is too generic:
- If you can put someone else’s name in the training plan then it is not specific to the applicant
- The more detail the better (who, what, where, when)

Reference letters not glowing:
- Hint: All letters need to be "outstanding"
- Strategize with your sponsor concerning letters
- Ask people who know you, know your work and who are positive people and good writers
Thoughts on Review

- Know the Study Section
- Appreciate that they are busy people with full time jobs
- Be considerate of their time
- Make their job as easy as possible with clarity, clear language, good structure e.g. sub-headings, etc
- Provide them the information they need for writing their review
What has been funded

Enter mechanism

Filter by Institute/Center that is administrating or funding
What has been funded

A list of previously funded grants that you can explore
For additional information on training and career development opportunities offered by NCI, please visit cancer.gov/cct