

## Managing Your Research Career

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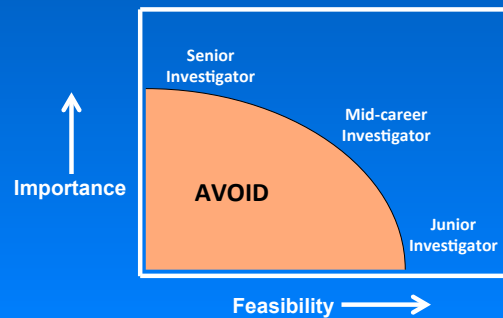
## Outline

- Writing papers
- Obtaining funding
- Managing time
- Obtaining CHR or IACUC approval
- Building a research team

## Writing Papers

- Carve out writing days, times and even places
- Shed perfectionistic tendencies
- Collaborate with peers, postdoctoral fellows
- Diversify projects: low-risk and high-risk
- Carefully choose research topics

## Carefully Choose Research Topics



## Authorship (order of importance)

1. First author
2. Last author
3. Second author
4. Penultimate author
5. Middle authors

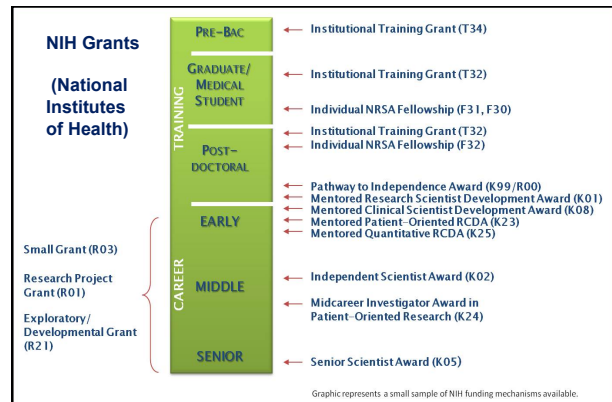
Clarify up front,  
preferably in writing

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## Rigorously peer-reviewed grants demonstrate investigator independence and recognition

1. US government research grants (NIH, DOD, VA)
2. Foundation or society grants (e.g., American Cancer Society, American Heart Association)
3. Investigator-initiated research funded by industry
4. Industry-sponsored research funded by industry



## Career Development Grants

- UCSF programs: <http://accelerate.ucsf.edu/funding>
- NIH (K awards, Minority or R01 Supplements)
- VA Research & Development: <http://www.research.va.gov/funding/>
- Foundations: <http://foundationcenter.org>; <http://www.cof.org/>
- Societies: [usually disease-specific](#)
- Industry: [www.pfizerfellowships.com/Partnerships.aspx](http://www.pfizerfellowships.com/Partnerships.aspx)

<http://accelerate.ucsf.edu/funding?/career-development-awards>

### Grant Writing Guidance

Examples of successful research proposals and expert advice on how to navigate and write grant applications.

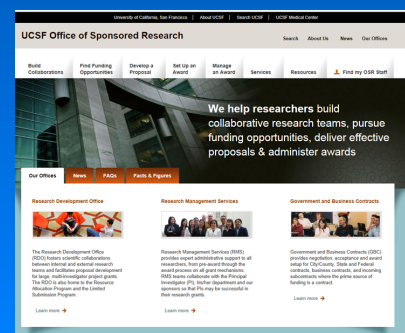
- K Proposal Library (K08, K23, K24, K99) ⓘ
- Writing NIH Mentored K Award Applications ⓘ
- T32 Proposal Library ⓘ
- Data Safety Monitoring Protocol Library ⓘ
- Biostatistics Consultation Services in Statistical Grant Writing ⓘ

## Research grants

- UCSF intramural grants – <http://rap.ucsf.edu/grants/>
- Patient-Centered Outcomes Research Institute (PCORI)
- Agency for Health-Care Research and Quality (AHRQ)
- Health Resources and Services Administration (HRSA) <http://www.hrsa.gov/grants/index.html>
- National Science Foundation (<http://www.nsf.gov/>)
- DOD – <http://cdmrp.army.mil/funding/reftable.shtml>
- Industry (Investigator-Initiated Research programs)

## New Office of Sponsored Research Website

<http://osr.ucsf.edu/>



### General Funding Resources

- PIVOT – <http://pivot.cos.com/>) from the new UCSF OSR website, sign-up for training or just set-up free automated search in your area of interest
- Foundations – [www.fdncenter.org](http://www.fdncenter.org); [www.cof.org](http://www.cof.org)
- Federal government opportunities – [www.grants.gov](http://www.grants.gov)
- Grantmakers in health – [www.gih.org](http://www.gih.org)
- Grateful patients (via development office)

### Grants administration

#### Pre-award

- Budgeting
- Letters of support
- Paperwork/signatures
- Biosketches and other support pages
- Uploading documents

#### Post-award

- Hiring and purchasing
- Budget projections
- Progress reports
- Agency correspondence

### Other extremely useful grant-writing resources


- <http://grants.nih.gov/training/resources.htm>
- <http://www.niaid.nih.gov/researchfunding/Pages/default.aspx>
- [http://grants.nih.gov/grants/grant\\_basics.htm](http://grants.nih.gov/grants/grant_basics.htm)
- [http://grants.nih.gov/grants/grant\\_tips.htm](http://grants.nih.gov/grants/grant_tips.htm)
- <http://grants.nih.gov/grants/oer.htm>
- <http://grants.nih.gov/grants/sitemap.htm>
- [http://grants.nih.gov/grants/useful\\_links.htm](http://grants.nih.gov/grants/useful_links.htm)

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### Managing Time

	Urgent	Not-urgent
Important	A	B
Not important	C	D



### Time is your most valuable resource

- Always more to do than time available
- No one else will protect your time
- Time spent on one thing = time not spent on another
- Think about whether you would want to do this tomorrow (not in the distant future)
- Remember: you will feel just as busy later
- Hire help whenever possible

### Obtaining CHR or IACUC approval

- Committee on Human Research:  
[www.research.ucsf.edu/chr/index.asp](http://www.research.ucsf.edu/chr/index.asp)
- Institutional Animal Care and Use Committee:  
[www.iacuc.ucsf.edu/Misc/awFaq.asp#whatis](http://www.iacuc.ucsf.edu/Misc/awFaq.asp#whatis)

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### Building a Research Team

- Co-Investigators at UCSF
- Collaborators outside of UCSF
- Pre-doctoral students (medical/dental/nursing/pharmacy)
- Post-doctoral fellows
- Volunteers
  - Foreign medical graduates
  - Undergraduates (SF State, City College, USF)
  - Pre-medical post-baccalaureate students
  - Graduate students (SF State, UC Berkeley)
- Don't forget - Mentors

### Q & A

### Tidbit from Q&A

- Time Management
  - Set time aside for writing
  - Set blocks of time to think
  - Turn off email

### Tidbit from Q&A

- Writing
  - Discuss authorship and corresponding author early, and send an email to confirm. But note that authorship can change if someone does not do their share.
  - Drafts are drafts; they can be rough when you show them to colleagues for input
  - Set time aside for writing
  - Different methods as to how to help a trainee to write a paper; depends on the trainee
    - Prep an outline
    - Prep a timeline
    - Have them write specific sections
    - Have them prepare an Abstract
    - Have them give a presentation of the work for the proposed paper
    - Sketch out the figures

## Tidbit from Q&A

- Writing cont'
  - Prepare figures at manuscript quality as you're going along
  - As PI, set the specs for figures and data presentation in the lab – what software package, what style, what colors for controls vs. samples
  - Take Mimi Zeiger courses on campus

## Tidbit from Q&A

- Grants/Funding Management
  - Make a realistic 5 year plan
  - Diversify your funding portfolio
  - Remember that grants need to be tailored to an agency and to the RFA/FOA; this means that it is a bit of a marketing piece.
  - Be careful when considering hiring new people too soon, using small grant awards
  - Some ideas are not fundable for reasons that aren't based in science
  - Sign up for training to use the Pivot funding opportunity database search tool (through RDO)
  - Great when one grant can easily provide pilot data for next grant

## Tidbit from Q&A

- Other
  - Innovation & Technology Alliance (ITA) offers workshops on entrepreneurship; QB3 and CTSI also offer resources to help with understanding the business aspects
  - Build a strong mentor network that has diversity of discipline and experience.