

K99/R00 Grants: insights into the review process and what reviewers look for

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Get your game plan in place

- When to submit – timing is critical – small window
 - Leave time for A1 resubmission if possible
 - Several “chefs in the kitchen” – select carefully

You need to feed the chefs!

Question: What are the key sections of your proposal?

- Candidate/PI
- Career Development Plan/Career Goals & Objectives
- Research Plan
- Mentor(s), Co-Mentor(s), Consultant(s), Collaborator(s)
- Environment & Institutional Commitment to the Candidate

Answer = ALL sections receive emphasis during the review and discussion!

*Actually read the instructions and criteria for each section!

Candidate/PI

- Biosketch – collect examples from PIs and peers
 - *Productivity record* – quantity vs quality
 - First author and contributing author
 - Avoid large gaps if possible
- Include any leadership positions or activities
- *Reference letters* – meet with your referees, bring your CV and career goals for discussion and *highlight key points*

Career Development Plan (applicant)

- Your plan for guidance and expanding your skill set (K99 phase)
 - *Scheduled meetings with mentor and mentoring team*
 - Ongoing presentations – lab or department
 - Other learning/didactic opportunities (workshops, courses)
 - Conference presentations planned – be specific
 - Grant agencies/mechanisms you will seek (R00 phase)

Important: Communicate this plan with your mentor and team well in advance and make sure you are all on the *SAME PAGE*

Career Goals & Objectives (applicant)

- Your vision of your future during your K99 and R00 years
- How you will develop the skills to transition to independence?
 - Developing *writing*, presentation and managerial skills
 - The type of position you will ultimately seek
 - Clearly and confidently state your vision of your independence and share the vision with your mentor(s)



Career Development Plan (Mentor)

- “Comprehensive” training plan in mentored K99 phase
 - How will applicant benefit from *mentor’s lab*, as well as departmental or institutional resources
 - How will the members of the *mentoring team* assist in the development of the applicant? (be specific!)
- * Assurance that the applicant is working on a project that can be *independently developed as a new PI* *

Research Plan

- Simple and logical – *Experts and non-experts* all contribute to the review and discussion
 - Outline *big picture* – effective use of schematics, models
 - Clearly separate and organize the aims, hypotheses and approaches *into distinct portions for K99 vs. R00 years*
- Proofreading
 - Written English/grammatical errors can be very distracting 😞
 - Aesthetics - formatting of figures, legends and sub-sections
 - make these consistent, logical and easy to follow
- **Ask several people for help in advance*****

Mentors, Co-mentors, Consultants

- Biosketches – Mentor and Co-mentors must submit
 - Ample support for applicant during K99 years
 - *Grant funding, space, environment for career development of candidate*
 - Productivity record
 - Collaborations to support candidate
 - *Track record of mentoring, previous trainees*

Environment and Institutional Commitment

- Having tons of equipment and lab space is nice, but...
 - Support for animal experimentation, core facilities, administrative assistance (grants office)
 - Intellectual environment
- *Letter of commitment from Chair/Director is essential*

Review Process and Meeting: Reviewer's Timeline

- 6-10 weeks before review meeting: confirm availability and attendance
- 4-6 weeks before: assignments sent to reviewers
 - *6-8 applications per reviewer, 80-110 pages each*
- 48 hours before – post preliminary scores and full critiques
- Half of applications are streamlined (aka triaged, unscored)

Day(s) of Meeting – how it unfolds

- Introductions and instructions – Program officers, staff, reviewers
 - Applications reviewed in random order by application number
 - Reviewers 1-3 state their initial scores of application (1-9)
 - *Thorough discussion for EVERY application* regardless of initial scores, led by reviewers 1-3 and panel Chair
 - Discussion and *questions from entire panel* is encouraged
 - Assistance may be requested
- Reviewers 1-3 give final scores verbally, all others vote electronically

Conclusions and Recommendations

- Start early – gather information and advice at beginning
- Be thorough and meticulous in ALL sections
- Communicate often with your mentor and support team
- Get feedback on all sections, leave time for revisions
- Have a team of proofreaders reserved for deadline

