Insight into Successful F30/31/32 Applications - A Reviewers Perspective

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F30/31/32 Funding Mechanisms

F30: Ruth L. Kirschstein Individual Predoctoral NRSA for MD/PhD and other Dual Degree Fellowships (DO/PhD, DDS/PhD, and DVM/PhD)

F31: Ruth L. Kirschstein Predoctoral Individual National Research Service Award

F32: Ruth L. Kirschstein Postdoctoral Individual National Research Service Award
SCORED REVIEW CRITERIA

1. Fellowship Applicant:
   a. Statement about career goal:
      - Should be in applicant’s Biosketch (Research, Teaching, Biotech industry etc).
      - Why you picked your sponsor’s laboratory for your proposed training?
   b. Academic qualification:
      - Grades in undergraduate and graduate level courses
      - GRE/MCAT scores (F30/F31)
      - Awards and fellowships during undergraduate and graduate studies
      - Research experience during undergraduate studies or even during high school (F30/F31)
      - Poster presentation in regional, national, international conferences
      - Publications in peer reviewed journals (F30/F31; Even middle author publications help)
      - Progress in your current project (Is project now well-defined, F30/F31)
        (Preliminary data is not required but anything which supports your current project
        is always helpful)

Additional criteria for F32

- Publications from undergraduate work (Number of publications and quality of journals)
- Is post-doctoral training sufficiently different from your graduate training?
- Define your career goals in sufficient detail – Faculty position, Industry, …?
- How many years you have been as post-doc and the productivity?
1. Fellowship Applicant:

c. Reference letters:
- Has your dissertation committee (F30/F31) formed?
- Letters from committee members or from those with whom you have closely worked.
- Reference letters should be specific to candidate's strength and weaknesses and potential to become a successful scientist.
2. Sponsors, Collaborators, and Consultants:

**Sponsor**: Reputation of the sponsor in his/her area of research - Publications/funding history

**Mentoring history**: Graduate and post-doctoral fellows previously trained by the mentor? How previously trained students and post-doctoral fellows have moved in their career? If your sponsor is a new investigator, include an experienced/established investigator as co-sponsor.

**Funding**: Does the sponsor has funding to support the candidate’s research training? There should be enough funding to support your research training because F mechanism does not provide funds for your research work.

**Co-sponsor**: Having co-sponsor/collaborators/consultants is always plus. Integrate their role in your training plan.

**Mentoring Committee**: Although not common but it is good to have a committee even for post-doctoral fellows (F32) which can monitor candidate’s progress and guide in his/her career path.
SCORED REVIEW CRITERIA

3. Research Training Plan:
   - Well-defined specific aims. Highlight significance and impact of the proposed research
   - Clearly written hypotheses and include potential pitfalls and alternative approaches
   - Don’t Copy and Paste your mentor’s R01 grant even though it has some overlap
   - Research should be innovative (not necessarily to the level of R01 application).
   - Get your research plan thoroughly reviewed by your mentor. (Too many typos and grammatical errors reflect weakness in mentorship)
   - Research training should be within the expertise of sponsor(s) and/or collaborator(s)
   - Explain clearly what new assays and technologies will be learnt during the fellowship
   - Can you get quality publications and degree (F30/F31) from the proposed research?

Additional criteria for F32
   - Is your proposed research training sufficiently novel and thorough that it will lead you to an independent faculty position in academic institution?
4. Training Potential:

- Will new technical skills and experimental design/approaches beyond what is already learnt?

- Do training activities match candidate’s stated career goals?

- Does individualized training addresses needs in term of weaknesses and career development

- Do the proposed research and other training activities provide sufficient individual and supervised experiences that will develop her/his research skills for future independent career?

Important points to include in training part of the application:

- Lab environment (Number of students and post-docs, journal clubs etc.
- New skills and techniques during the fellowship training.
- Conferences and presentations (~2 conferences per year; poster presentation, networking)
- Mentoring opportunities (Training junior researchers and high school students)
- Teaching (Good to have opportunities for class-room teaching)
- Development of manuscripts and grants writing skills
- Getting involved in writing IACUC and IBC protocols
5. Institutional Environment & Commitment to Training:

- Reputation of the institution for graduate and undergraduate training
- Seminars at the host institution
- Equipment/Facility in sponsor’s and collaborators laboratory
- Potential for collaboration within and outside the institution
- Core facilities at the institution to support candidate’s research
- Office of Graduate and Postdoctoral Studies
  (Quite helpful in professional development and resolution of COI in some situations)
ADDITIONAL REVIEW CRITERIA

1. Protections of human subjects

2. Vertebrate animals
   - Same as for R series applications
   - Insufficient details can affect chances of your success

ADDITIONAL CONSIDERATIONS

Responsible conduct of Research (RCR)
   - Format of RCR course (online/class room)
   - Subject matter (what was taught?)
   - Faculty participation
   - Duration of RCR course
   - Frequency (discussion during lab meetings, formal course every 2-3 years etc)
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