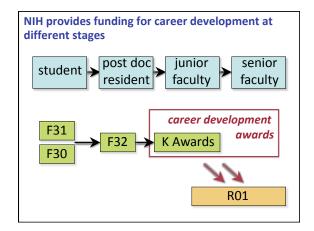
Know Your K

Joan M. Lakoski, PhD • Robert J. Milner, PhD



NIH Career Development (K) Awards provide support for research careers

~2% NIH budget: \$688 million (FY17)

~3,800 awards (FY17)

Currently 15 different types (K01-K99)

- for clinicians & basic scientists
- · for junior & senior faculty

Mentored K awards:

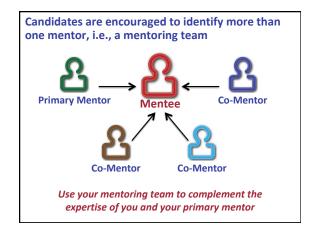
designed for postdocs & junior faculty
-> K01, K08, K23, K99/R00

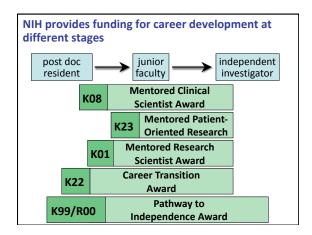
The Goal of Mentored K Awards

To provide support and "protected time" (3-5 years) for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences leading to research independence.

A dedicated mentor is essential for

- · successful application
- successful outcome





K01: Mentored Research Scientist Award

 to develop research independence or to foster career development in a new area



- for candidates with potential for productive independent research
- mentor with extensive research experience
- 75% effort over 3-5 years
- different Institutes use the K01 award for different purposes
 contact the Program Officer!

K08: Mentored Clinical Scientist Award

 to develop clinician research scientists as independent investigators



Requires:

- clinical doctoral degree
- must have initiated postgraduate training
- mentor with extensive research experience
- 75% effort over 3-5 years

K23: Mentored Patient-Oriented Research Career Development Award

 to develop investigators committed to patient-oriented research



Requires:

- · clinical or nursing doctoral degree
- completion of all clinical training
- mentor with extensive research experience
- 75% effort over 3-5 years

K99/R00: Pathway to Independence Award

— to facilitate independent funding earlier in an investigator's career



- for highly promising postdoctoral scientists
- established in response to increasing age of first independent support
- non-citizens are eligible

Afternoon Session on K99 Awards

K22: Career Transition Award

 support for postdoctoral fellows in transition to faculty positions



- for candidates with potential for productive independent research
- differences among Institutes: may involve training in intramural NIH programs

Other individual K Awards

- **K02** Independent Scientist Award
- **K05** Senior Scientist Research & Mentorship
- K07 Academic Career Award
- **K18** Research Career Enhancement Award for Established Investigators
- **K24** Midcareer Investigator Award in Patient-Oriented Research
- **K25** Mentored Quantitative Research Development Award
- **K26** Midcareer Investigator Award in Biomedical and Behavioral Research
- K43 Emerging Global Leader Award
- K76 Emerging Leaders Career Development Award

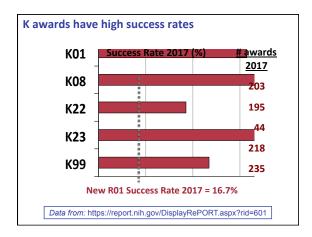
Common features of K Awards

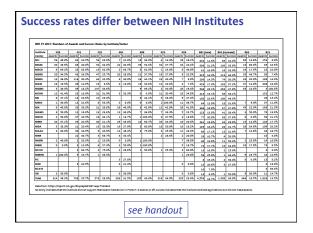
Eligibility:

- doctoral degree
- US Citizen, non-citizen national, or permanent resident (except K99/R00)
- not eligible if previous PI on R or K grants

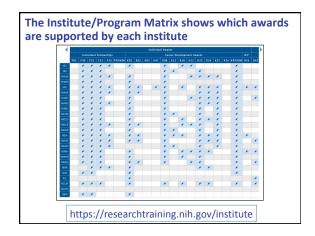
Duration: 3–5 years

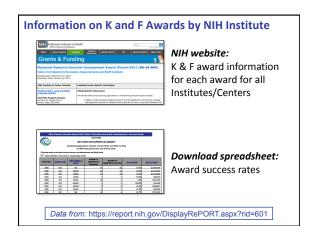
Effort: minimum 75% (but can be 100%)













Current Program Announcements for K awards

K01: Mentored Research Scientist Development Award PA-18-369 & PA-18-363*

KO8: Mentored Clinical Scientist Research Career

Development Award

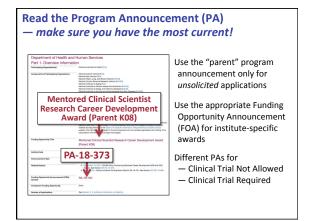
PA-18-373 & PA-18-372* **K22:** see individual institutes

K23: Mentored Patient-Oriented Research Career Development Award

PA-18-375 & PA-18-374*

* Clinical Trial Required

http://grants.nih.gov/training/careerdevelopmentawards.htm



Application for a K award should be a collaboration between you & your advisor

You (the "applicant") are Principal Investigator

- · you are responsible for submitting the application
- you write the research training plan in collaboration with your sponsor

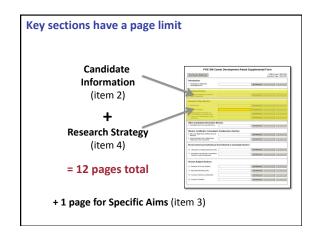
Your advisor/mentor is the Mentor

· she/he must write sections of the application

You must involve your mentor early & often in crafting the application!

As the Principal Investigator, you sign the application by checking "I agree" SF424 (R&R) Form page 2 Remember that in submitting the application, you certify that the contents are "true, complete, and accurate"











Mentored K Award applications require letters of reference

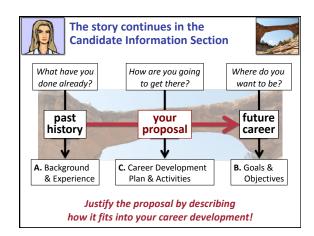
Required for K01, K08, K22, K23 & K99/R00 applications

- 3–5 letters from individuals other than those involved in the application
- i.e., not sponsor/mentor or collaborators

Letters should address candidate's competence & potential as an independent investigator

The referees (name, department, institution) must be listed in the Cover Letter Attachment

see: http://grants.nih.gov/grants/how-to-apply-applicationguide/submission-process/reference-letter.htm





The Candidate Information Section covers three critical areas



Candidate's Background/Research Experience:

 describe your past scientific history, indicating how the award fits into past and future research career development

Career/Training Goals and Objectives:

 describe your short-term and long-term career goals and objectives and how the award will enable you to develop and/ or expand your research career

Candidate's Plan for Career Development/ Training Activities During Award Period:

- describe the new or enhanced research skills and knowledge you will acquire as a result of the award
- describe activities planned during the award

Describe what you will learn in the Career Development Plan

Describe new skills & knowledge

• provide details of courses & workshops

Define distribution of effort for activities (use timeline)

Relate activities to career development & research plans

Proposing to do what you already know will be viewed as having no training potential!



Items that you must include in a Career Development Plan

Describe your goals:

- what you hope to achieve . . .
- describe specific activities designed to achieve each goal
- include a specific aspect of advanced research training and professional skills (e.g. training in grant writing)
- describe how your institutional environment will enhance your success in achieving your goals



Include a <u>Timeline</u> for your Career Goals & Objectives

List:

- your distribution of effort
- specific objectives for each year
- plans for subsequent grant support





Your mentor(s) must describe detailed plans for mentoring

The specific expertise of your mentors and how their guidance will help you to achieve your goals

The specifics of mentoring, including frequency of meetings (e.g., weekly)

Consider adding an Advisory Committee to monitor your progress every 6 months



The Research Plan is a major part of the career development plan

Relate the research plan to the applicant's scientific career goals

For most types of research the plan should include:

- · a specific hypothesis
- specific aims to test the hypothesis
- description of approach, methods, techniques
- possible problems and alternative approaches

Tailor the plan to the experience of the applicant

Mentors and colleagues should review the plan



Research Plan should enable the applicant to develop skills needed by a researcher

- should be hypothesis-driven
- not overly ambitious or routine

Specific Aims

1 page

Research Strategy

- organize by sections:
 - Significance
 - Innovation
 - Approach

.

6–8 pages Career Awards



For Career Awards the Mentor statement must include key information

- plans for candidate's career development
- source(s) of support for research project
- supervision & mentoring of candidate
- candidate's teaching load (if any) and other responsibilities
- plan for transition of candidate to an independent investigator
- Mentors previous mentoring experience

Statement limited to 6 pages for all mentors/co-mentors!



Your Mentors must have a strong record of research and mentoring

Your mentor should meet these qualifications (& document them adequately!)

If not, provide a plan to correct any deficiencies:

- co-mentor(s)
- mentoring advisory team



A strong statement of Institutional Commitment is essential for Career Awards

- on institutional letterhead
- commitment to candidate independent of award
- agreement to provide protected time for candidate's research & career development
- equipment, lab space, office, facilities, resources

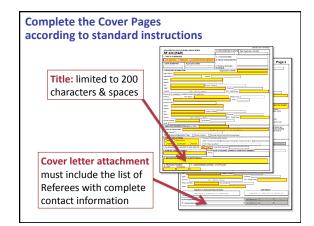


Letter limited to 1 page!

Make sure that you complete the "Front Pages" and comply with regulations

- Cover Page (Cover Letter)
- Project Abstract
- Project Narrative
- Bibliography & References Cited
- Facilities & Other Resources
- Human Subjects (if applicable)
- Vertebrate Animals (if applicable)
- Budget
- Biosketches
- etc, etc, etc

Consult with your grants office for help in completing the forms



Budget: allowable costs may differ by award type & institute

- consult your grants office &/or Program Officer
- modular budgets not used for K and F awards
- only a few budget categories used



Other Project Information Form

7. Project Summary/Abstract

- no more than 30 lines
- the abstract should include a description of your research project & your training plan

9. Bibliography

for whole proposal

10. Facilities & Other Resources; 11. Equipment

- description of resources available to candidate
- establishes feasibility of proposal



There are three deadlines per year for submission of NIH Awards K awards: Receipt Review Council Start Feb 12 June-July Sept-Oct December Oct-Nov April June 12 Jan-Feb May-June July Oct 12 Jan-Feb Applications must be received electronically at NIH on or before the receipt date Your Office of Research will require proposals to review before the NIH deadline

