



**U.S. Department of Health and Human Services**  
National Institutes of Health



# Research Training Support Mechanisms

**Division of Extramural Research Activities**  
**Charles W. Joyce, PhD**



**Funding Opportunities**

[Funding Opportunities \(RFAs, PAs\) & Notices](#)

[Unsolicited Applications \(Parent Announcements\)](#)

[Research Training & Career Development](#)

[Extramural Training Mechanisms](#)

[Intramural](#)

[News](#)

[Career Resources](#)

[Q&A and FAQs](#)

[Small Business \(SBIR/STTR\)](#)

[Contract Opportunities](#)

**NIH Wide Initiatives**

[New Investigators Program](#)

[Multiple Principal Investigators](#)

[Genome-Wide Association Studies \(GWAS\)](#)

[NIH Roadmap for Medical Research](#)

[NIH Blueprint for Neuroscience Research](#)

**Global OER Resources**

[Glossary & Acronyms](#)

[Frequently Used Links](#)

[Frequent Questions](#)

## Ruth L. Kirschstein National Research Service Award (NRSA)

- **Guide to Kirschstein - NRSA Programs**

- [For individuals with or working on a research doctorate](#)
- [For individuals with or working on a health-professional doctorate](#)

- **Institutional Research Training Grants**

- [T Table](#) - Listing of ALL NRSA Institutional Training Grant Funding Opportunity Announcements
- [NIH Forms and Applications Page](#) (Including [PHS 398](#) and [PHS 2590](#) application and other [Training Forms](#))

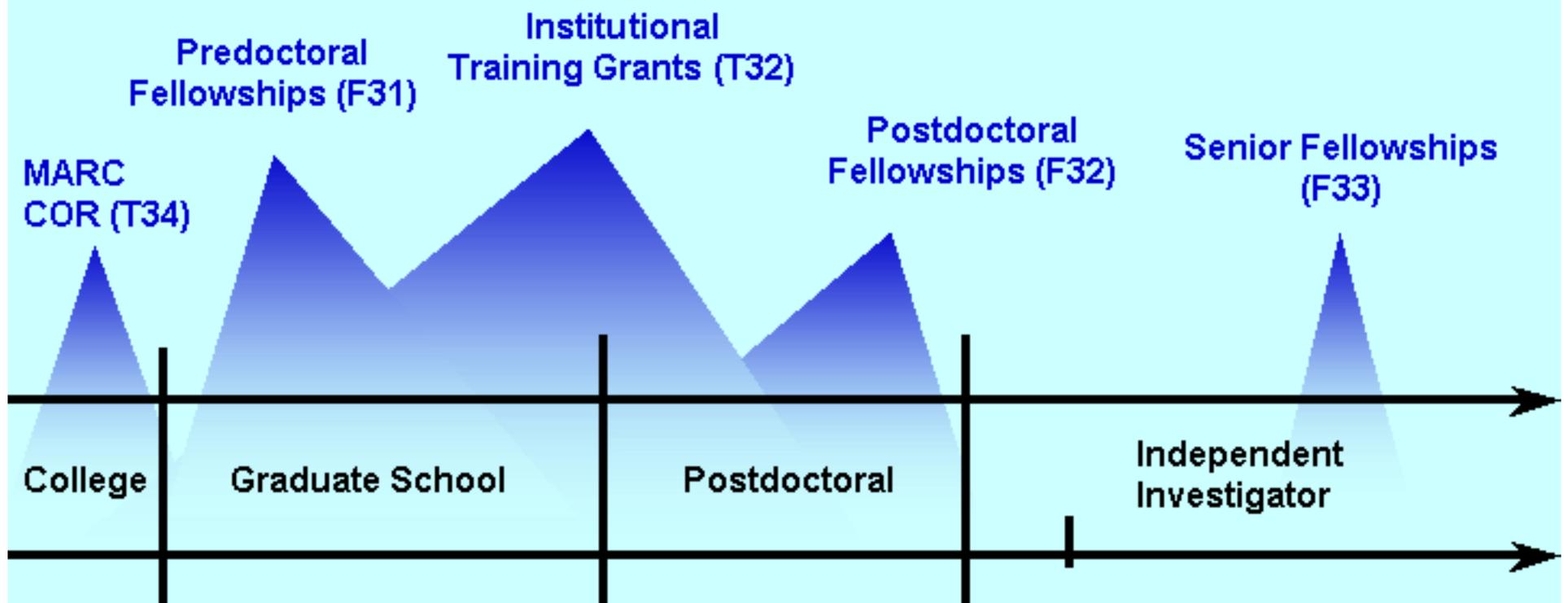
- **Individual Fellowships**

- [F Files](#) - NRSA Fellowship Funding Opportunities
- [NIH Forms and Applications Page](#) (Including PHS [416-1](#) and [416-9](#) application and other [Training Forms](#))
- [Guidelines for Reviewers](#) (Links to review guidelines for various fellowship "F" mechanisms)
- [Revision: Streamlined Review Process to be used for Ruth L. Kirschstein National Research Service Awards \(NRSA\) Postdoctoral Fellowship Applications \(F32\)](#) (08/09/2007)

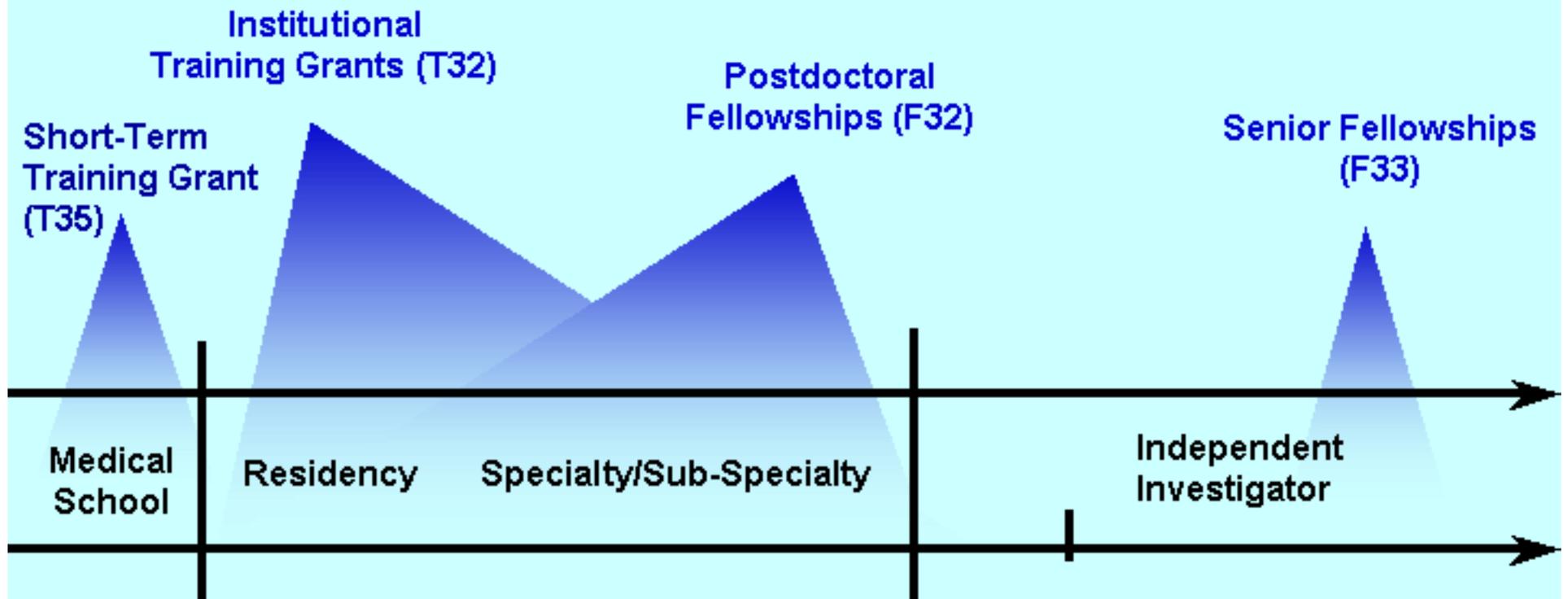
- **NRSA Policy Issues**

- [NIH-NSF Definition of Postdoctoral Scholar](#) (January 29, 2007 Letter to National Postdoctoral Association) (02/22/2007) - (PDF - 76 KB)
- [Guidance to Applicant Organizations about Registering Research Fellows in the eRA Commons](#) (10/5/2006)
- [Questions and Answers Related to NOT-OD-06-093](#) (09/08/2006)
- [Revision: Notice of New NIH Policy for Funding of Tuition, Fees, and Health Insurance on Kirschstein-NRSA Awards](#) (08/18/2006)
- [Summary of NIH Town Hall Meeting on NRSA Tuition Support - November 30, 2005](#) (MS Word)
- [Final Report of the Task Force on NRSA Tuition](#) - June, 1995
- [Authorizing Legislation for the Ruth L. Kirschstein National Research Service Award Program](#) (RTF - 20 KB) - (42USC288)
- [Senate Report Language Associated with the Authorizing Legislation at 42USC288](#) (RTF - 13 KB)
- Earlier Legislation (**link needs to be added**)
- [Federal Regulations for the NRSA Program \(42CFR66\)](#) - May 31, 2001 (PDF - 71 KB)
- [NRSA Policy Guidelines](#) (Including Payback and Reporting Requirements)

## NRSA Fellowships and Training Grants (F & T Awards) for Individuals With or Earning a Research Doctorate



# NRSA Fellowships and Training Grants (F & T Awards) for Individuals With or Earning a Health-Professional Doctorate





Funding Opportunities

[Funding Opportunities \(RFAs, PAs\) & Notices](#)

[Unsolicited Applications \(Parent Announcements\)](#)

[Research Training & Career Development](#)

[Extramural Training Mechanisms](#)

[Intramural](#)

[News](#)

[Career Resources](#)

[Q&A and FAQs](#)

[Small Business \(SBIR/STTR\)](#)

[Contract Opportunities](#)

NIH Wide Initiatives

[New Investigators Program](#)

[Multiple Principal Investigators](#)

[Genome-Wide Association Studies \(GWAS\)](#)

[NIH Roadmap for Medical Research](#)

[NIH Blueprint for Neuroscience Research](#)

Global OER Resources

[Glossary & Acronyms](#)

[Frequently Used Links](#)

[Frequent Questions](#)

## T Table - NRSA Training Grants Funding Opportunities

Mechanism	Program Description
Notice	<a href="#">Extension of Several NRSA Training (T), NRSA Fellowship (F), and Career Development (K) Funding Opportunity Announcements</a>
T32	<p><a href="#">Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32)</a>                      This is the NIH omnibus Kirschstein-NRSA research training funding opportunity announcement. The purpose of this program is to provide predoctoral and postdoctoral research training opportunities for individuals interested in pursuing research careers in biomedical, behavioral and clinical research.</p> <p><a href="#">Jointly Sponsored Ruth L. Kirschstein National Research Service Award Institutional Predoctoral Training Program in the Neurosciences (T32)</a>                      (See Extension Notice <a href="#">NOT-OD-07-043</a>)                      The objective of this trans-NIH Kirschstein-NRSA research training program is to provide broad and fundamental, early-stage graduate research training in the neurosciences. Trainees are expected to be participants in a formal predoctoral curriculum offering broad and fundamental training in the neurosciences.</p> <p><a href="#">Dental School Joint DDS or DMD/Masters Degree NRSA Research Training Program (T32)</a>                      The purpose of this NIDCR Kirschstein-NRSA research training program is to develop a joint D.D.S. or D.M.D./Masters degree training program. The Masters degree must be in clinical/behavioral research or in public health (MPH).</p> <p><a href="#">Human Genes and the Environment Research Training Program (T32)</a>                      The purpose of this NIEHS and NHGRI Kirschstein-NRSA research training program is to support predoctoral, postdoctoral and short-term training to ensure the appropriate workforce is available to assume leadership roles to advance the research objectives of the Genes and Environment Initiative.</p> <p><a href="#">Predoctoral Training at the Interface of the Behavioral and Biomedical Sciences (T32)</a>                      The purpose of this NIGMS Kirschstein-NRSA training program is to support predoctoral research trainees at the behavioral sciences-biomedical sciences interface. The goal of the program is to develop basic behavioral scientists with rigorous broad-based training in biology and biomedical science who are available to assume leadership roles related to the Nation's biomedical, behavioral and clinical research needs.</p> <p><a href="#">NICHD Institutional Predoctoral Training Program in Reproductive, Perinatal and Pediatric Epidemiology (T32)</a>                      The purpose of this NICHD Kirschstein-NRSA training program is to support broad and fundamental, early stage graduate research training in reproductive, perinatal, and pediatric epidemiology, to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical and behavioral research agenda.</p> <p><a href="#">Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Dental Research Training Program (T32)</a> (See Extension Notice <a href="#">NOT-OD-07-043</a>)                      The purpose of this NIDCR Kirschstein-NRSA training program is to help develop a cadre of highly skilled, interactive scientists who can successfully address the expanding opportunities in dental, oral and craniofacial research.</p>

# **Institutional National Research Service Award (NRSA) Training Opportunities (T Series)**

---

**MARC Undergraduate Student Training in Academic Research, Institutional National Research Service Award (NRSA) Research Training Grant (T34)**  
(<http://grants.nih.gov/grants/guide/pa-files/PAR-07-337.html>)

**Institutional National Research Service Award (T32)**  
(<http://grants.nih.gov/grants/guide/pa-files/PA-06-468.html>)

**Short-Term Institutional Research Training (T35)**  
(<http://grants.nih.gov/grants/guide/pa-files/PA-05-117.html>)

Mechanism	Purpose	Trainee(s)
<p><b>T32</b> January 25 May 25 September 25</p>	<p>primary means of supporting graduate and postdoctoral research training to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical, behavioral and clinical research agenda</p>	<p>Predocutorial, Postdoctoral-- Any individual with the skills, knowledge, and resources necessary to carry out the proposed research training program</p>
<p><b>T34</b> January 25 May 25 September 25</p>	<p>means of supporting undergraduate research training to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical and behavioral research agenda</p>	<p>US residents or permanent residents from populations underrepresented in biomedical/behavioral research enrolled in PhD or MD/PhD program</p>
<p><b>T35</b> January 25 May 25 September 25</p>	<p>develop or enhance research training opportunities for individuals interested in careers in biomedical and behavioral research</p> <p>may be used to support other types of predoctoral and postdoctoral training in focused, often emerging, scientific areas relevant to IC mission</p> <p>may <b>not</b> be used to support courses and study leading to a clinical or health professional degree, nor support for a residency program</p>	<p>Predocutorial</p> <p>Postdoctoral</p> <p>Health Professional Students (MD, DDS, DO, DVM, RN, or other clinical or health professional degrees)</p>



Funding Opportunities

Funding Opportunities (RFAs, PAs) & Notices

Unsolicited Applications (Parent Announcements)

Research Training & Career Development

Extramural Training Mechanisms

Intramural

News

Career Resources

Q&A and FAQs

Small Business (SBIR/STTR)

Contract Opportunities

NIH Wide Initiatives

New Investigators Program

Multiple Principal Investigators

Genome-Wide Association Studies (GWAS)

NIH Roadmap for Medical Research

NIH Blueprint for Neuroscience Research

Global OER Resources

Glossary & Acronyms

Frequently Used Links

Frequent Questions

**F Files - Ruth L. Kirschstein National Research Service Award (NRSA) Fellowships Funding Opportunities**

Mechanism	Program Description
Notice	<a href="#">Extension of Several NRSA Training (T), NRSA Fellowship (F), and Career Development (K) Funding Opportunity Announcements</a>
F30	<p><a href="#">Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral MD/PhD Fellows (F30)</a>                      Supported by the NIA, NIAAA, NIDA, NIDCD, NIDDK, NIEHS, NIMH, NINDS, and ODS, this program is intended for individuals in combined M.D./Ph.D. fellowship training. Applicants must show potential to become productive, independent, highly trained physician-scientists, including patient-oriented physician-scientists, in scientific mission areas of one or more of the sponsoring NIH entities.</p> <p><a href="#">NIDCR Individual Predoctoral Dental Scientist Fellowship</a>                      The purpose of the NIDCR individual predoctoral dental scientist fellowship program is to offer an integrated dental and graduate research training program that leads to attainment of both the D.D.S./D.M.D. and Ph.D. (or equivalent) degrees.</p>
F31	<p><a href="#">Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellowships (F31) to Promote Diversity in Health-Related Research</a>                      This program is intended to promote diversity in health-related research by supporting research training leading to the Ph.D. or equivalent research degree, the combined M.D./Ph.D. degree; or another formally combined professional degree and research doctoral degree in biomedical, behavioral, health services, or clinical sciences.</p> <p><a href="#">Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows (F31)</a>                      This fellowship program is supported by the NIA, NIAAA, NIDA, NIDCD, NIMH, NINDS, and ODS. The programs objective is to provide support for promising doctoral candidates (Ph.D., M.D./Ph.D., or equivalent) who will be performing dissertation research and training in scientific health-related fields relevant to the missions of the participating NIH entities.</p> <p><a href="#">Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellowship Training in Complementary and Alternative Medicine (F31)</a>                      The purpose of this NCCAM individual predoctoral fellowship is to help ensure that diverse pools of highly trained scientists will be available in adequate numbers and in appropriate research areas to carry out the Nation's biomedical, behavioral and clinical research agendas in complementary and alternative medicine.</p> <p><a href="#">Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Predoctoral Fellows (F31) in Nursing Research</a>                      This program will provide predoctoral training support for doctoral students who propose a research training program and dissertation research that is consistent with the scientific mission of the NINR. NINR is particularly interested in facilitating the progress of students who are in research training programs for recent nursing graduates and students in BSN to PhD programs.</p>
F32	<p><a href="#">Ruth L. Kirschstein National Research Service Awards (NRSA) for Individual Postdoctoral Fellows (F32)</a>                      This is the NIH omnibus postdoctoral fellowship funding opportunity announcement. The objective of this program is to provide support to promising postdoctoral applicants who have the potential to become productive and successful independent research investigators in</p>

# **Institutional National Research Service Award (NRSA) Training Opportunities (F Series and other)**

---

**Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral MD/PhD Fellows (F30)**

**(<http://grants.nih.gov/grants/guide/pa-files/PA-05-151.html>)**

**Individual Predoctoral Fellowships to Promote Diversity in Health Related Research (F31)**

**(<http://grants.nih.gov/grants/guide/pa-files/PA-06-481.html>)**

**Individual Postdoctoral National Research Service Award (F32)**

**(<http://grants.nih.gov/grants/guide/pa-files/PA-07-107.html>)**

**Ruth L. Kirschstein National Research Service Awards (NRSA) for Individual Senior Fellows (F33)**

**(<http://grants.nih.gov/grants/guide/pa-files/PA-07-172.html>)**

**Research Supplements to Promote Diversity in Health-Related Research for Graduate Research Assistants**

**(<http://grants.nih.gov/grants/guide/pa-files/PA-05-015.html>)**

Mechanism	Purpose	Trainee(s)
<b>F30</b> April 8 August 8 December 8	The NIA, NIAAA, NIDCD, NIDA, NIEHS, NIMH, NINDS, and the ODS are interested in supporting individual predoctoral fellowships for combined MD/PhD training in research areas relevant to the mission of the participating Institutes	Predoctoral—enrolled in an MD/PhD program, accepted in a related PhD scientific program, supervised by mentor in the scientific discipline
<b>F31</b> April 8 August 8 December 8	provide individual predoctoral research training fellowship awards to promising doctoral candidates who have the potential to become productive, independent investigators in research fields relevant to the missions the supporting IC	Predoctoral—individuals from racial and ethnic minorities, individuals with disabilities, disadvantaged individuals
<b>F32</b> April 8 August 8 December 8	individual postdoctoral research training fellowships to promising applicants with the potential to become productive, independent investigators in research fields relevant to the missions of participating NIH Institutes and Centers	Postdoctoral (must have PhD, MD, DC, DDS, OD, DPM, ScD, EngD, DNSc, ND, Pharm D, DSW, Psy D or equivalent)
<b>F33</b> April 8 August 8 December 8	individual senior level research training fellowships to experienced scientists who wish to make major changes in the direction of their research careers or who wish to broaden their scientific background by acquiring new research capabilities as independent investigators in research fields relevant to the missions of participating NIH Institutes and centers	Professionals engaging in biomedical research (must have PhD, MD, DC, DDS, OD, DPM, ScD, EngD, DNSc, ND, Pharm D, DSW, Psy D or equivalent)



Grantsmanship Workshop for  
Research on Chronic Fatigue Syndrome  
September 2007

## Career Development (K) Awards

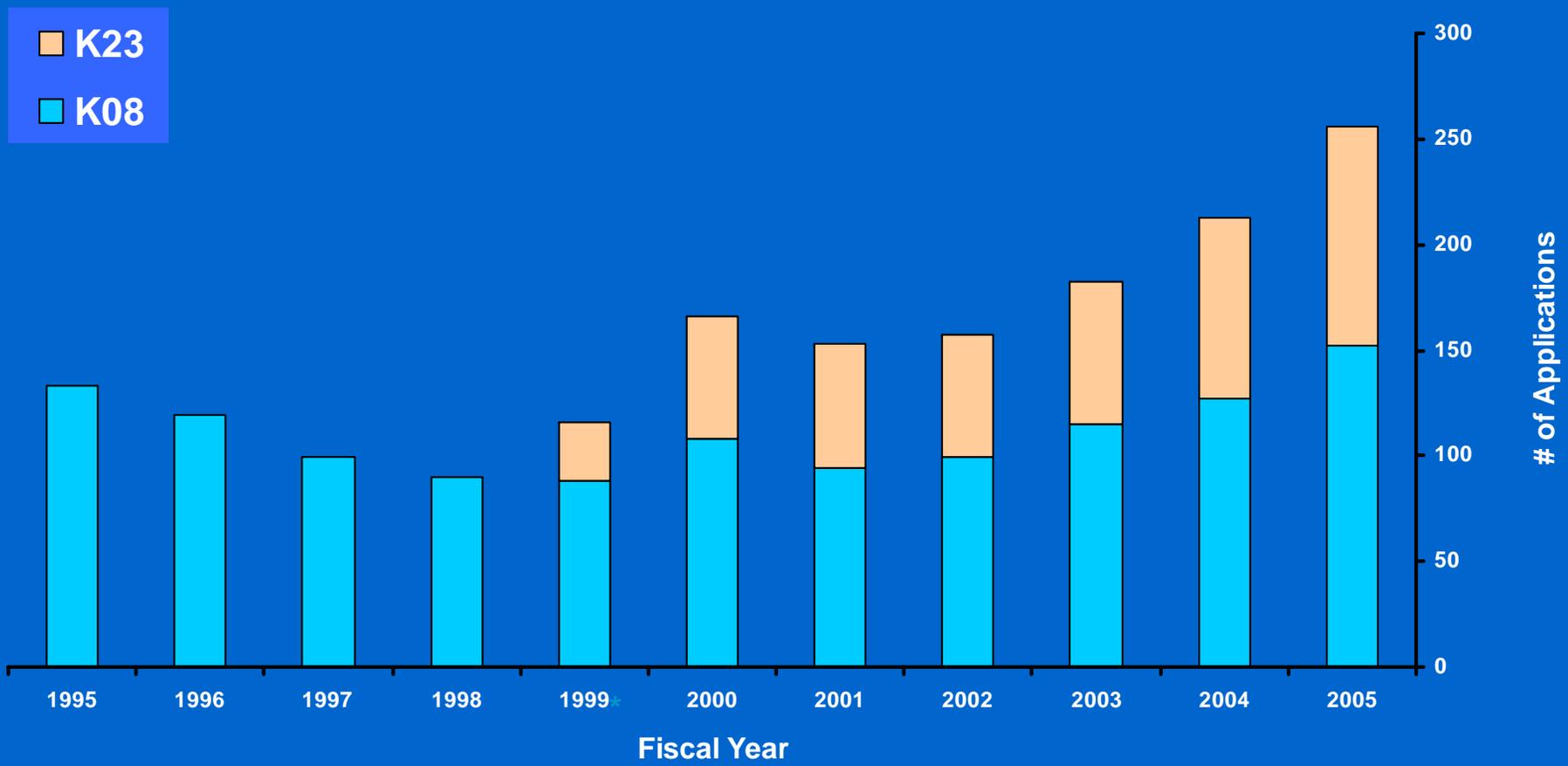
Jane D. Scott, ScD, MSN, FAHA  
Director, Office of Research Training & Career Development  
Division of Cardiovascular Diseases  
National Heart, Lung and Blood Institute, NIH



## Spectrum of Research Training & Career Development Awards

Graduate & Medical School	Post-graduate Fellowships	Transition to Established Investigator	Established Investigator
<p>T32 Institutional award</p> <p>T32 Minority institutions</p> <p>F31 Minority students &amp; individuals with disabilities</p> <p>T35/R25 Short-term training institutional award for minority students</p>	<p>F32 Individual award</p> <p>T32 Institutional award</p> <p>T32 Minority institution award</p>	<p><b>K08</b></p> <p><b>K23</b></p> <p><b>K25</b></p> <p><b>K02</b></p> <p><b>K01</b></p> <p><b>K99/R00</b></p> <p><b>K12 Programs</b></p>	<p>F33</p> <p><b>K24</b></p> <p><b>K25</b></p>

# NHLBI K08 and K23 Applications Fiscal Years 1995 - 2005



# Awards For Young Investigators

- K08
- K23
- K02
- K99/R00
- And more...

## Mentored Clinical Scientist Development Award (K08)

- Who: Scientists who are interested in developing independent research careers.
- When: Late post-doc training-early faculty
- What: 75% effort, for 3-5 years.
- Salary: Up to \$75,000 per year plus benefits
- \$25,000 per year for research development support
- Transition to R during K

## Mentored Patient-Oriented Research Career Development Award (K23)

- Who: Scientists who are committed to developing careers in patient-oriented research
- When: Late postdoctoral fellowship-early faculty
- What: 75% effort or more, 3-5 years
- Salary: Up to \$75,000 per year plus benefits
- \$50,000 per year research development support
- Transition to R during K

# What is “Patient-Oriented Research?”

This NIH definition determines eligibility for K08 or K23

- Research conducted with human subjects (or on material of human origin such as tissues, specimens, and cognitive phenomena) for which an investigator directly interacts with human subjects.
  - mechanisms of human disease
  - therapeutic interventions
  - clinical trials
  - development of new technologies

## K08 & K23: Review Criteria

- You (your capacity to be an independent investigator)
- Strength of your mentors/mentoring team
- Specificity of your career development plan (courses/training)
- Strength and soundness of you research plan
- Institutional support

## Independent Scientist Award (K02)

- For starting faculty with limited independent funding & salary support
- 3-5 years
- Salary support only: Up to \$75,000 per year plus benefits.
- No other research development support funds

## *New NIH Pathway to Independence Award (K99/R00) PA-07-297*

- When: Started 2006
- Who: Postdoctoral candidates who have clinical or research doctorates (Ph.D, M.D., D.O., etc.)
- No more than 5 years post-doc research training.
- Requires 75% effort
- 2 years K99 mentored research training
- 3 years R00 independent research funding

## How to get started.....

- K Kiosk to find what K you need
- Find an Institute/Center
- Check Institute Training website
- Call more than one Institute to discuss institute interest
- Consult with Training Program Officers
- Check the *fine print*:
  - End of PA
  - Institute web-site

## NIH K Kiosk

<http://grants1.nih.gov/training/careerdevelopmentawards.htm>

## NIH Training Website:

<http://grants1.nih.gov/training/extramural.htm>

## K99-R00 –New Investigators Programs

[http://grants1.nih.gov/grants/new\\_investigators/index.htm](http://grants1.nih.gov/grants/new_investigators/index.htm)