



AACN 2016 Doctoral Educ. Conference
Introduction: Working with Federally-Funded Doctoral Students

Panel Convener: Barbara A. Smith, PhD, RN, FACS, FAAN
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Panelists

- **Debra Brandon PhD, RN, CNS, FAAN**
Director PhD and Postdoctoral Programs,
Duke University School of Nursing
Email: Debra.Brandon@duke.edu
- **Susan M. Rawl, PhD, RN, FAAN**
Director, PhD in Nursing Science Program
Director, Training in Behavioral Nursing Research
Indiana University School of Nursing
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Presentation Outline

- I. Introduction and overview (Smith, 5 minutes)
- II. Individual NRSAAs (Brandon, 10 minutes)
- III. Writing a Competitive F31 (Rawl, 10 minutes)
- IV. T32 Experience (Rawl, 10 minutes)
- V. Post-doctoral and Career Development Awards (Smith, 10 minutes)
- VI. Open Discussion with participants (Brandon, Rawl, Smith)
- VII. Summary (Smith)

OBJECTIVES

- Participants will be able to discuss ways they may assist their graduate students applying for an NRSA.
- Participants will be able to differentiate between an F31, F32, and an F33.
- Participants will be able to describe the purpose of a T32.
- Participants will be able to identify at least two mechanisms for funding post-doctoral work.
- Participants will be able to discuss some issues that may arise in the post-award period of an NRS

NRSA Post-award Mentoring

Debra H. Brandon
PhD, RN, CNS, FAAN
Duke University

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DUKE UNIVERSITY

The Difference is Duke!

Lessons Learned

- Submit as early as possible in PhD program
- Plan to resubmit and incorporate into “training timeline”.
- Ensure planned research activities can be implemented with resources available/accessible
- Evaluate any study additions carefully

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Institutional Review Approval

- Initiate early
- Anticipate changes from grant
- IRB number for “just in time”

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Grant Management Considerations

- Consider institutional allowance account
- Meeting with post-award research staff
 - With award notice
 - Allowable expenses
 - Annually
- Ensure RCR training is up-to-date

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Budget and Human Resource Management

- Trainee training
- Purchasing of equipment/supplies
- Hiring of personnel as needed (e.g. transcriptionist, database construction)
- Subject incentive processes

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Reporting Requirements

- NIH reporting
 - Annual report
- IRB reporting
 - AE
 - Enrollment
- Institutional reporting
 - Financial
 - HR

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Implementation



- Update and refine study procedures
 - Recruitment
 - Checklist for initial informed consent
 - Data collection procedures
 - Data transportation and storage procedures
 - Data management processes
 - Consider post award needs up front

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Implementation



- Intervention studies
 - Set up intervention protocols
 - Register in ClinicalTrials.gov

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Ongoing Implementation



- Establish mentorship meetings
 - Sponsors
 - Consultants
 - Dissertation committee
- Assess grant timeline targets

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Closeout



- Begin 90 days prior to close out
- Institutional fund code
- NRSA
 - Termination notice
 - Final progress report (goals met/not met – how/why)
 - Sponsor/mentor report
 - Human subjects report

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Next Steps



- Manuscripts
 - PubMed Central (linked and associated)
- IRB status going forward
 - Data preparation
 - Data/material transfer
- Future research
- Postdoctoral applications

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Questions



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Writing a Competitive Ruth L. Kirschstein
National Research Service Award
(F31)

Susan M. Rawl, PhD, RN, FAAN
Indiana University

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Two NRSA/F31 Announcements


[Ruth L. Kirschstein National Research Service Award \(NRSA\) Individual Predoctoral Fellowship \(Parent F31\)](#)

[Ruth L. Kirschstein National Research Service Award \(NRSA\) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research \(Parent F31 - Diversity\)](#)

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



Purpose

- Ensure a diverse pool of highly trained scientists to address the nation's biomedical, behavioral, & clinical research needs
- Provide support for promising doctoral students to conduct dissertation research & training
- Up to 5 years of support for research training that leads to the PhD

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Research training will provide:

- Strong foundation in research design, methods, & analytic techniques;
- Enhancement of applicant's ability to conceptualize research problems with increasing independence;
- Experience conducting research using appropriate, state-of-the-art methods, presenting & publishing research findings as first author;
- Opportunity to interact with the scientific community at scientific meetings/workshops;
- Skills needed to transition to the next stage of the applicant's research career; and
- Opportunity to enhance the applicant's understanding of the health-related sciences and the relationship of the proposed research to health and disease.

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Why Write an NRSA?




Experience writing first NIH grant with close supervision and mentoring




Prestige/competitive edge

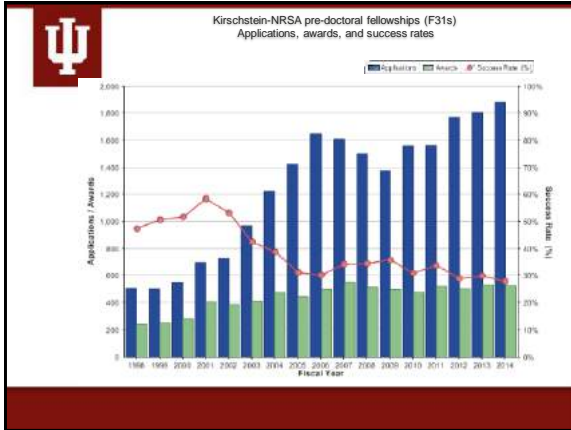
Financial support (as of 2015):

- Stipend: \$22,920
- Tuition and fees: up to \$16,000
- Research-related expenses: \$4200
- Travel: \$800

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Step 1: Assessment

Eligibility: Applicant

- US citizen or permanent resident
- BSN, currently enrolled in PhD or equivalent research degree program
- Strong academic record, commitment to a research career
- NIH biosketch
- Proposed dissertation excellent fit with the sponsor's research expertise

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Step 1: Assessment

Sponsor(s)/Mentors:

- track record of research productivity
- funded program of research
- experience as a mentor, mentees have gone on to successful research careers
- two sponsors with complementary expertise, could be interdisciplinary
- strong interdisciplinary research training environment

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Step 2: Writing the Application

- START EARLY! 9-12 months in advance
- Meet with university grant specialist to review process and internal deadlines
- Read the instructions carefully, attend to page limits, templates, formatting requirements
- Review successful applications
- Obtain feedback on drafts, revise, external review if needed

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Step 2: Writing the Application

Specific Aims	1 page
Research Strategy (Significance, Approach, Prelim studies)	6 pages
Human Subjects	no limit
Inclusion of women & minorities	1 page
Inclusion of children (<18 years)	1 page
Targeted/planned enrollment table	1 page

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Step 2: Writing the Application

Respective contributions	1 page
Selection of sponsor & institution	1 page
Responsible conduct of research	1 page
Current or prior NRSA support	1 page
Applications for concurrent support	1 page
Goals for fellowship training & career	1 page
Activities planned under this award	1 page

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Step 2: Writing the Application

- Dissertation & research experience 2 pages
 Sponsor(s) information: 6 pages
- research support available
 - previous fellows/trainees
 - training plan, environment, facilities
 - # fellows to be supervised at same time
 - applicant's qualifications/potential for a research career



Step 3: Submit the Application



Celebrate submission
of the F31!!!



Review Criteria

- Applicant** (high quality record & potential)
- Sponsors, collaborators, consultants** (research funding, productivity, mentoring experience, match, qualifications)
- Research & training plan** (research is of high scientific quality and clearly related to the training plan; training provides needed skills)



Review Criteria

- Training potential** (training plan will provide required individualized and supervised research experience; will provide a solid foundation for a research career)
- Institutional environment & commitment to training** (research facilities and training opportunities adequate/appropriate, high quality research training environment and institutional commitment to the applicant)



Training in Behavioral Nursing Research:
(5 T32 NR007066-24)

Celebrating 25 Years of
Preparing Nurse Scientists
at Indiana University

Susan M. Rawl, PhD, RN, FAAN



Institutional Training (T32) Program: Goal & Purpose

Goal of the NIH Ruth L. Kirschstein National Research Service Award (NRSA) program is to ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's biomedical, behavioral, and clinical research needs. NRSA training programs are designed to train individuals to conduct research and to prepare for research careers.

Institutional NRSA programs allow the Training PD/P/1 to select the trainees and develop a program of coursework, research experiences, and technical and/or professional skills development appropriate for the selected trainees.

[Ruth L. Kirschstein National Research Service Award \(NRSA\) Institutional Research Training Grant \(Parent T32\)](#)



Why Submit an Institutional NRSA (T32)?

Financial Support for Trainees (annual):

	Predocctoral Trainees	Postdoctoral Trainees
Stipend	\$22,920	\$42,840 - \$56,376
Tuition & Fees	60% (up to \$16K/yr)	60% (up to \$4500/yr)
Research-related expenses	\$4200	\$7850
Travel	\$800	\$800

Recognition as a research intensive environment with strong interdisciplinary opportunities for trainees and faculty

Opportunities to engage in national networks of nursing and interdisciplinary scientists



Success Rates of T32 Applications by Institute (2014)

Institute	# Apps Reviewed	# Apps Awarded	Success Rate ¹	Total Funding ²
NCCAM	3	1	33.3%	\$257,925
NCI	61	28	45.9%	\$9,286,054
NEI	13	8	61.5%	\$1,677,625
NHLBI	80	43	53.8%	\$14,205,767
NIA	20	8	40.0%	\$2,320,756
NIAAA	6	3	50.0%	\$1,323,847
NIAID	92	55	59.8%	\$13,868,298
NIAMS	24	13	54.2%	\$2,638,332
NIBIB	26	15	57.7%	\$3,675,971
NICHD	63	18	28.6%	\$4,117,378
NIDA	18	12	66.7%	\$3,607,985
NIDCD	13	7	53.8%	\$2,007,521
NIDCR	1	0	0.0%	\$117,534
NIDDK	66	33	50.0%	\$7,393,599
NIEHS	16	8	50.0%	\$3,616,797
NIGMS	112	65	58.0%	\$26,210,146
NIMH	37	21	56.8%	\$5,849,645
NINDS	30	16	53.3%	\$3,852,875
NINR	11	5	45.5%	\$1,537,446



Research training must provide:

- Strong foundation in research design, methods, & analytic techniques;
- Enhancement of applicant's ability to conceptualize research problems with increasing independence;
- Experience conducting research using appropriate, state-of-the-art methods, presenting & publishing research findings as first author;
- Opportunity to interact with the scientific community at scientific meetings/workshops;
- Skills needed to transition to the next stage of the applicant's research career; and
- Opportunity to enhance the applicant's understanding of the health-related sciences and the relationship of the proposed research to health and disease.



Assessing Potential for Success:

Review Criteria for Institutional Training Grants (T32)

- Are the research **facilities & environment** conducive to preparing trainees for successful careers as biomedical research scientists?
- Are the **objectives, design & direction** of the training program likely to ensure effective training?
- Do the **courses & research experiences** provide opportunities for trainees to acquire state-of-the-art scientific knowledge, methods, and tools that are relevant to the goals of the training program?
- Does the program provide appropriate **inter- or multidisciplinary research** training opportunities?
- Is the program likely to ensure trainees will be **well prepared for research-intensive** & research-related careers?
- Is the level of **institutional commitment** to the training program, including administrative & research training support, sufficient to ensure the success of the program?
- Is it clear how the proposed training program is **distinguished from other** externally funded training programs at the institution?





Training Program Director(s)/Principal Investigator(s)

- Does the PD/PI have the **scientific background, expertise, and administrative and training experience** to provide strong leadership, direction, management, and administration of the proposed research training program?
- Does the PD/PI plan to commit **sufficient effort** to ensure the program's success?
- **For applications designating Multiple Training PDs/Pis:**
 - Is strong **justification** provided that the multiple Training PD/PI leadership approach will benefit the training program and the trainees?
 - Is a strong & compelling **leadership approach** evident, including the designated roles & responsibilities, governance, and organizational structure consistent with and justified by the aims of the training program and the complementary expertise of the PDs/Pis?



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Research Mentors

- Are **sufficient numbers of experienced mentors** with appropriate expertise and funding available to support the number and level of trainees proposed?
- Do mentors have **strong records as researchers**, including recent publications and successful competition for research support **in areas directly related** to the proposed research training program?
- Do mentors have **strong records of training individuals** at the level of trainees proposed? Are appropriate plans in place to ensure that preceptors lacking sufficient research training experience are likely to provide strong and successful mentoring?



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Trainees

- Is a **recruitment plan** proposed with strategies likely to attract well-qualified candidates?
- Is there a **competitive applicant pool** of sufficient size & quality at each proposed level (pre- and postdoctoral) to ensure a successful program?
- Are there well-defined and justified **selection and re-appointment criteria** as well as **retention strategies**?



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Training Record

- How **successful are the trainees** (or, for new applications, other past students/postdoctorates in similar training) in **completing the program**?
- Has the training program ensured that **trainees are productive** (or, for new applications, other past students/postdoctorates in similar training) in terms of research accomplishments, publication of research conducted during the training period, and subsequent training appointments and fellowship or career development awards?
- How **successful are the trainees** (or, for new applications, other past students/postdoctorates in similar training) in **achieving productive scientific careers** as evidenced by successful competition for research science positions in industry, academia, government or other research venues; grants; receipt of honors, awards, or patents; high-impact publications; promotion to scientific leadership positions; and/or other such measures of success?



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Training Record (cont.)

- To what extent do **trainees' subsequent positions** in industrial, academic, government, non-profit, or other sectors benefit from their NRSA-supported research training and directly **benefit the broader** biomedical research enterprise?
- Does the program propose a **rigorous evaluation plan** to assess the quality and effectiveness of the training? Are effective mechanisms in place for obtaining feedback from current and former trainees?



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NINR T32 Applications

- Due May 25th
- Reviewed in October
- Scores within 30 days
- Funding starts July 1st
- Trainees must have a BSN
- Trainees must be a U.S. citizen or permanent resident
- Do not allow short-term training



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Helpful Links

23 Schools of Nursing with T32s:

- http://www.ninr.nih.gov/researchandfunding/funded-ninr-grants-collaborative-activities/institutionalfile#.Vpz2MFJWI_w

Submission Requirements

- <http://grants.nih.gov/grants/funding/424/index.htm#DataTabInstruct>

Changes coming in 2016-17

- <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-16-004.html#>



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Training in Behavioral Nursing Research: Indiana University (5 T32 NR007066-24)

- Focus: Health behaviors and health behavior change to prevent, detect, or manage chronic illness
- Past Directors: Angela Barron McBride, Joan Austin
- Current Director: Susan Rawl; Co-Directors: Janet Carpenter, Claire Draucker
- Funded for 3 predoctoral and 3 postdoctoral trainees annually
- Based on well-established PhD program
- Supply of funded scientists as mentors with a strong history of interdisciplinary research collaboration
- Structured training curriculum with required courses, seminars, and research training opportunities
- Diversity a priority: *Career Connections*
- Excellent outcomes: Successful F31 applications, predocs pursuing postdoctoral training, postdocs obtaining funding & positions in research intensive environments

Website: <http://nursing.iupui.edu/research/fellowships/behavioral-research/index.shtml>

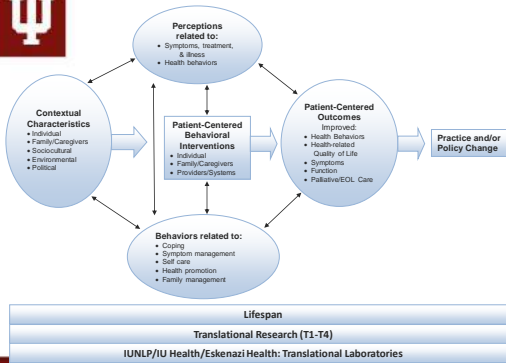


Figure 1. T32 Conceptual Framework



Questions?

Thank You!



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Post-Doctoral and Career Development Awards

Barbara A. Smith, PhD, RN, FACSM, FAAN
Professor, Associate Dean for Research and PhD
Program

Michigan State University

Email: Barbara.smith@hc.msu.edu

NINR Fellowships

- NINR currently supports **F31, F32, F33, T32** mechanisms for fellowship grants (NRSA).
- The NRSA enables scientists to be trained to conduct independent research and to collaborate in interdisciplinary research.
- I will review the postdoctoral and senior fellowships (**F32, F33**).

F32

- F32 provides **postdoctoral** research training to RNs to broaden their scientific background and extend their potential for research in specified areas related to the mission of NINR.
<http://grants.nih.gov/grants/guide/pa-files/PA-14-149.html>
- As with any NIH Fellowship or Career Development Award, the individuals must be a U.S. citizen or permanent resident.

Update on Postdoc Benefit Survey

<http://nexus.od.nih.gov/all/2015/11/30/update-postdoctoral-benefit-survey/>

- In 2014, the NIH announced a survey on benefits available to postdoctoral researchers. The survey was in response to a report to the Director which recommended increasing postdoctoral NRSA stipends and adjustments to benefits such as health insurance.
- The NIH invited 334 educational institutions, research institutes and hospitals who had received at least one NRSA award and/or supported at least one postdoctoral researcher during FY2013.
- NIH received 167 responses for a response rate of 50%.
- Over the next few months, the NIH will consider various policy approaches that will help institutions adjust benefits accordingly.

F33

- support investigators with doctoral degree and at least **7 years** of relevant research experience at time of award.
- For experienced scientists to:
 - make changes in direction of research career
 - broaden their scientific background,
 - acquire new research capabilities,
 - enhance command of interdisciplinary field.

Career Development Awards (The NIH Ks)

- NIH has a series of career development programs often called the K-series awards (K01 etc.).
- Institutes and centers implement K awards in different ways based on the needs of researchers doing work related to the institute/center mission.
- Currently, **NINR supports only the K01, K23, K24 and K99 Career Development Awards.**
- Other Institutes support K02, K05, K07, K08, K12, K22, K25.
- **MOST IMPORTANT ACTION:** Contact the institute/center in the early stages of application preparation to discuss issues of eligibility and specific provisions of these awards.

K01 Mentored Research Scientist Career Development Award

- The purpose is to **provide support** and **protected time** for an intensive, supervised career development experience leading to research independence.
- Some institutes use it to enhance diversity, for those going into a new field or had a hiatus in career; however that is not described on .

K12 Mentored Clinical Scientist Development Program Award

- This is an award to an educational institution to support career development experiences for clinicians leading to research independence. I served on an Multidisciplinary K12 Advisory Committee and the Fellow Selection Committee.
- Unfortunately, currently this mechanism is only supported by the National Institute of Dental and Craniofacial Research.
- Under this award, newly-trained clinicians are selected and appointed to this program by the grantee institution.
- Our program was designed to accommodate appointees with varying levels of experience but most often were postdoctoral fellows or junior faculty and included dentists, physicians, psychologists, nurses, social workers etc.

K23 Mentored Clinical Scientist Development Program Award

<http://grants.nih.gov/grants/guide/pa-files/PA-14-049.html>

- The purpose of the K23 is to support the career development of individuals with a clinical doctoral degree who have committed to focus their research on patient-oriented issues.
- Candidates for this award must have a health-professional doctoral degree. Such degrees include but are not limited to the: M.D., D.O., D.D.S., D.M.D., O.D., D.C., Pharm.D., N.D. (Doctor of Naturopathy), as well as a **doctoral degree in nursing research or practice**.

K24 Mentored Clinical Scientist Development Program Award

<http://grants.nih.gov/grants/guide/pa-files/PA-14-047.html>

- The purpose of the NIH Midcareer Investigator Award in Patient-Oriented Research (K24) is to provide support to mid-career health-professional doctorates or equivalent who are typically at the Associate Professor level or the equivalent.
- It is intended to provide protected time to devote to patient-oriented research (POR) and to act as research mentor for clinical residents, clinical fellows and/or junior clinical faculty.

Some Private Funders

- American Cancer Society (<http://www.cancer.org/index>)
- American Heart Association (<http://www.heart.org/HEARTORG/>)
- Robert Wood Johnson (<http://www.rwjfleaders.org/programs>)

Others???