

NIH FELLOWSHIP TRAINING GRANTS

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ADVANCE at WSU
REGIONAL APPROACHES TO WOMEN'S LEADERSHIP IN STEMM CONFERENCE
Early Career Challenges
March 3, 2018

Outline

- Components of the NIH Fellowship grants
- Review criteria
- Components you can start writing now
 - Biosketch
- Tips for optimizing your application

Fellowship Grant Components

- Specific Aims
- Research Strategy
- Bibliography and References Cited
- Activities Planned Under This Award
- Applications for Concurrent Support
- Biosketch
- Cover Letter
- Doctoral Dissertation and Other Research
- Equipment
- Facilities and Other Resources
- Goals for Fellowship Training and Career
- List of Referees
- Project Narrative
- Project Summary
- Respective Contributions
- Responsible Conduct of Research
- Section II Sponsor Co-Sponsor
- Selection of Sponsor and Institution
- Vertebrate Animals or Protections for Human Subjects

Reviewer Criteria

- Tailor your writing to address specific criteria the Reviewers will address
- **Fellowship Applicant**
 - Research experiences and contributions
 - Publications, abstracts, presentations
 - Merit-based honors and awards
 - Academic performance
- **Sponsors, Collaborators, and Consultants**
 - Track record of funding and mentorship
 - Funds and expertise to support the research
 - Tools, equipment, and technologies

	Fellowship (F30, F31, F32, F33)
Overall Impact	<u>Overall Impact/Merit</u>
Scored Review Criteria (Scored individually and considered in overall impact score)	<ul style="list-style-type: none"> ✓ <u>Fellowship Applicant</u> ✓ <u>Sponsors, Collaborators, and Consultants</u> ✓ <u>Research Training Plan</u> ✓ <u>Training Potential</u> ✓ <u>Institutional Environment & Commitment to Training</u>
Additional Review Criteria (Not scored individually, but considered in overall impact score)	<ul style="list-style-type: none"> ✓ <u>Protections for Human Subjects</u> ✓ <u>Inclusion of Women, Minorities, & Children</u> ✓ <u>Vertebrate Animals</u> ✓ <u>Biohazards</u> • <u>Resubmission</u> • <u>Renewal</u>
Additional Review Considerations (Not scored individually and not considered in overall score)	<ul style="list-style-type: none"> ✓ <u>Training in the Responsible Conduct of Research</u> • <u>Applications from Foreign Organizations</u> • <u>Select Agents</u> • <u>Resource Sharing Plans</u> ✓ <u>Budget & Period of Support</u>

https://grants.nih.gov/grants/peer/guidelines_general/Review_Criteria_at_a_glance.pdf

Reviewer Criteria

- **Research Training Plan**
 - Scientific quality of proposal
 - Feasibility within the fellowship time frame

- **Training Potential**
 - Utilizing existing skill set
 - Gaining skills to address weaknesses/gaps
 - Preparing applicant for productive and independent research career

- **Institutional Environment & Commitment to Training**
 - Research resources
 - Training opportunities
 - Institutional commitment to training

	Fellowship (F30, F31, F32, F33)
Overall Impact	<u>Overall Impact/Merit</u>
Scored Review Criteria <small>(Scored individually and considered in overall impact score)</small>	<ul style="list-style-type: none"> ✓ <u>Fellowship Applicant</u> ✓ <u>Sponsors, Collaborators, and Consultants</u> ✓ <u>Research Training Plan</u> ✓ <u>Training Potential</u> ✓ <u>Institutional Environment & Commitment to Training</u>
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Ways to optimize your application

- Start writing now

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* Documents you can start writing now even if you don't know the details of your Aims

Biosketch

- **Personal Statement**
 - Why are you well positioned to perform this research?
 - What will you gain from this research experience?
- **Positions and Honors**
 - Relevant past positions
 - Relevant academic and professional honors and awards
 - Memberships in professional societies
 - Add a subsection on Leadership and Citizenship
- **Contributions to Science**
 - State the problem, findings, impact, and personal contribution
 - List up to 4 publications and/or research products for each contribution
- **Research Support and/or Scholastic Performance**
 - F31: grades from all undergraduate and graduate courses
 - F32: grades from all graduate courses

<https://grants.nih.gov/grants/forms/biosketch.htm>

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Robertson-Chang, Leilani

eRA COMMONS USER NAME (credential, e.g., agency login): RobertsonL

POSITION TITLE: Postdoctoral Researcher

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	START DATE MM/YYYY	END DATE MM/YYYY	FIELD OF STUDY
Swarthmore College	BS	08/1995	05/1999	Engineering
UC San Diego	PHD	08/2001	09/2007	Molecular Biology
Michigan State University	NIH training grant	09/2007	present	Bioinformatics/Immunology

A. Personal Statement

My long term research interests involve the development of a comprehensive understanding of key developmental pathways and how alterations in gene expression contribute to human disease. My academic training and research experience have provided me with an excellent background in multiple biological disciplines including molecular biology, microbiology, biochemistry, and genetics. As an undergraduate, I was able to conduct research with Dr. Xavier Factor on the mechanisms of action of a new class of antibiotics. As a predoctoral student with Dr. Tanti Auguri, my research focused on the regulation of transcription in yeast, and I gained expertise in the isolation and biochemical characterization of transcription complexes. I developed a novel protocol for the purification for components of large transcription complexes. I was first author of the initial description of the Most Novel Complex. A subsequent first author publication challenged a key paradigm of transcription elongation and was a featured article in a major journal. During my undergraduate and graduate careers, I received several academic and teaching awards. For my postdoctoral training, I will continue to build on my previous training in transcriptional controls by moving into a mammalian system that will allow me to address additional questions regarding the regulation of differentiation and development. My sponsor Dr. I.M. Creative is an internationally recognized leader in the transcription/chromatin field and has an extensive record for training postdoctoral fellows. The proposed research will provide me with new conceptual and technical training in developmental biology and whole genome analysis. In addition, the proposed training plan outlines a set of career development activities and workshops – e.g. grant writing, public speaking, lab management, and mentoring students – designed to enhance my ability to be an independent investigator. My choice of sponsor, research project, and training will give me a solid foundation to reach my goal of studying developmental diseases in man. During my second postdoctoral

Ways to optimize your application

- Start writing now
- Talk to the Program Officers
- Establish a track record of funding
- Publish
- Submit abstracts and present at meetings
- Become a leader and volunteer
- Get Letters of Support to fill gaps in your and/or PI's expertise
- Get feedback from outside of your expertise
- Apply for other grants for which you will receive reviewer feedback
- Read examples of successful fellowships
 - <https://www.niaid.nih.gov/grants-contracts/sample-applications>

QUESTIONS?
