

Intramural Training Programs at NIH/NICHD

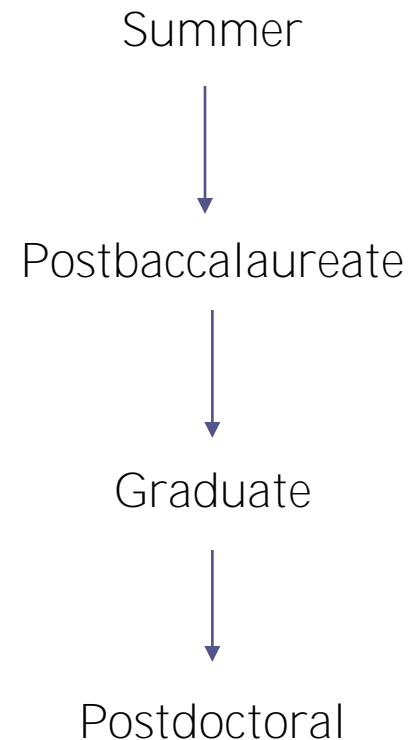


Eunice Kennedy Shriver National Institute
of Child Health and Human Development

Office of Education
Dr. Yvette Pittman
November 14, 2014

Current Trainees at NIH IRP: who do you expect to see here?

- High school and college students
- Recent college graduates
- Graduate/Medical students
- Postdoctoral and clinical fellows



Summer Internship Program in Biomedical Research

<https://www.training.nih.gov/programs/sip>

- Spend eight to ten weeks conducting biomedical research with NH investigators, students generally arriving at NIH in May or June
- The application for summer 2015 will be available in mid-November to March 1
- Sponsors a wide range of summer activities, including lectures featuring distinguished NIH investigators, career and professional workshops/webinars, and Summer Poster Day
- Before students begin, take a look at the *Applying Successfully* Video

NICHD: 25% of our summer slots are set aside for students traditionally underrepresented in science

Postbac Program (for recent college graduates)

https://www.training.nih.gov/programs/postbac_irta

- A biomedical research program that enables recent college graduates who are planning to apply to graduate or professional (medical/dental/pharmacy) school to spend one or two years in full-time research with NIH investigators.
- A wide range of career and professional development activities: oral and poster presentation workshops, Graduate & Professional School Fair, and Postbac Poster Day
- Advice to Applicants – Online Resources: Videocast “Applying to the NIH Postbac Program”

Graduate Partnership Program

<https://www.training.nih.gov/programs/gpp>

- Designed to bring PhD students to the NIH Intramural Research program for their dissertation research
- Participants enjoy the academic environment of a university, the extensive research resources of the NIH
- Some of the NIH-University Partnerships:
 - Brown University – Neuroscience
 - Georgetown University – Biomedical Sciences
 - Johns Hopkins - Cell, Molecular, Developmental Biology & Biophysics
 - University of Oxford / University of Cambridge (England)
- Can create an individual partnership with a MOU between the university and NIH

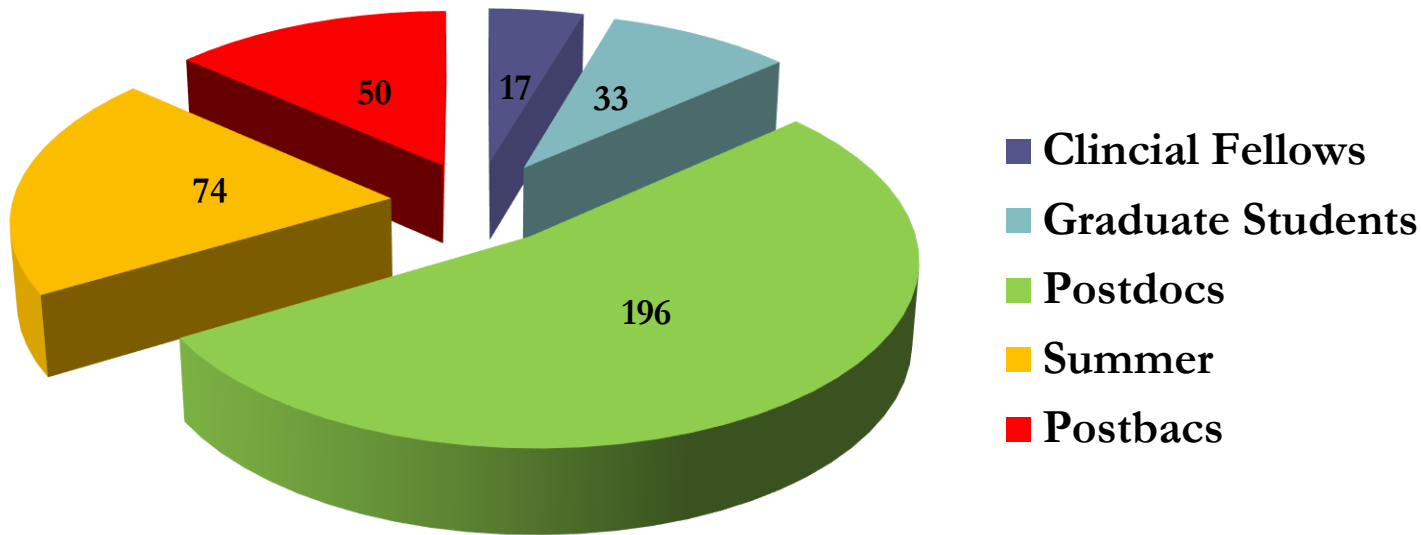
NIH Postdoctoral Training

https://www.training.nih.gov/programs/postdoc_irp

- Provides the opportunity for recent doctoral degree recipients to enhance their research skills in the resource-rich National Institutes of Health (NIH) environment
- Trainees can pursue basic, translational, and clinical research free from the demands of obtaining grants and teaching, although opportunities to do both are available.

NICHD-Division of Intramural Research

- Comprises 70 principal investigators and over 300 postbaccalaureate, clinical, and postdoctoral fellows and graduate students



NICHD Division of Intramural Research

Constantine A. Stratakis, MD, D(Med)Sci, *Scientific Director*
 Chris J. McBain, PhD, *Deputy Scientific Director*
 Forbes D. Porter, MD, PhD, *Clinical Director*

Cell Biology and Metabolism Program (CBMP)

Juan S. Bonifacino
Program Head

Gisela Storz
Deputy Program Head

Anirban Banerjee
 Mary Lilly
 Jennifer Lippincott-Schwartz
 Matthias Machner

Program in Cellular Regulation and Metabolism (PCRM)

Alan G. Hinnebusch
Program Head

Henry Levin
Deputy Program Head

Mary Dasso
 Thomas Dever
 Chi-Hon Lee
 Mihaela Serpe
 Yun-Bo Shi

Program on Developmental Endocrinology and Genetics (PDEGEN)

Forbes Porter
Program Head

Greti Aguilera
 Jeffrey Baron
 Janice Chou
 Maria Dufau
 David Klein
 Anil Mukherjee
 Ida Owens
 Constantine Stratakis
 Jack Yanovski
 Joan Han - ACI
 Angela Delaney - ACI

Program in Developmental Neuroscience (PDN)

Chris J. McBain
Program Head

Tamas Balla
 Dax Hoffman
 Y. Peng Loh
 Stanko Stojilkovic
 Mark Stopfer

Program on Genomics of Differentiation (PGD)

Brant Weinstein
Program Head

Karl Pfeiffer
Deputy Program Head

Sohyun Ahn
 Harold Burgess
 Michael Cashel
 Ajay Chitnis
 David Clark
 Robert Crouch
 Igor Dawid
 Melvin DePamphilis
 Bruce Howard
 Judith Kassis
 James Kennison
 Judith Levin
 Paul Love
 Todd Macfarlan
 Richard Maraia
 Keiko Ozato
 Thomas Sargent

Molecular Medicine Program (MMP)

Tracey Rouault
Program Head

Stephen Kaler

Program in Reproductive and Adult Endocrinology (PRAE)

Alan DeCherney
Program Head

Lynnette Nieman
Deputy Program Head

Karel Pacak
 Erin Wolff - ACI

Program on Pediatric Imaging and Tissue Sciences (PPITS)

Peter J. Basser
Program Head

Amir Gandjbakhche

Program in Perinatal Research and Obstetrics (PPRO)

Roberto Romero
Program Head

Program in Physical Biology (PPB)

Joshua Zimmerberg
Program Head

Sergey Bezrukov
 Robert Bonner
 Leonid Chernomordik
 Leonid Margolis
 Ralph Nossal
 Donald Raul

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Deputy Director

Rebecca Preston & Valerie Leftwood
Deputy Branch Chiefs

Liaison & Training

Brenda Hanning
Deputy Director

Office of the Clinical Director (OCD)

Forbes Porter
Deputy Director
Meg Kell
Associate Director

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Head

Section on Molecular Neurobiology (SMN)

Andres Buonanno
Head

Section on Nervous System Development and Plasticity (SNSDP)

R. Douglas Fields
Head

Section on Physical Biochemistry (SPB)

Sergey Leikln
Head

Bone and Extracellular Matrix Branch (BEMB)

Joan C. Marini
Branch Chief

Laboratory of Cellular and Molecular Neurophysiology (LCMN)

Mark Mayer
Head

Laboratory of Clinical Genomics (LCG)

Owen Rennett
Head

Laboratory of Comparative Ethology (LCE)

Stephen Suomi
Head

Laboratory of Genomic Integrity (LGI)

Roger Woodgate
Head

Office of the Scientific Director

Core Facilities

Biomedical Mass Spectrometry Facility
Molecular Genetics Lab
Microscopy and Imaging
Computer Support Services
Zebrafish Core
FACS

Peter Backlund
Forbes Porter
James Russell
Chandan Sastry
Ben Feldman
 (TBA)

Research Animal Management Branch (RAMB)

Joseph Schech
Head

Office of Education: Fellowship Training Programs

Office of Education (OE)

Brenda Hanning
Director
Yvette Pittman
Associate Director

Pediatric Endocrinology

Constantine Stratakis
Director
Maya Lodish
Deputy Director

Internal Medicine/Endocrinology

Lynnette Nieman
Associate Director

Pediatric Genetics

Constantine Stratakis
Director

Maternal-Fetal Medicine

Roberto Romero
Director

REI Fellows

James Segars
Director

NICHD Core Facilities: Resources to DIR!

Mass Spectrometry:

- High-end mass-spectrometric services to scientists
- Proteomics
- Biomarker discovery
- Protein characterization
- Detection of post-translational modifications

Zebrafish Core:

- Consultation
- Access to equipment and reagents
- Service in the area of zebrafish genetics

Molecular Genomics Laboratory:

- Deep sequencing
- Project data analysis

Microscopy and Imaging:

- Light microscopy
- Electron microscopy services
- Microscopy Class, annually

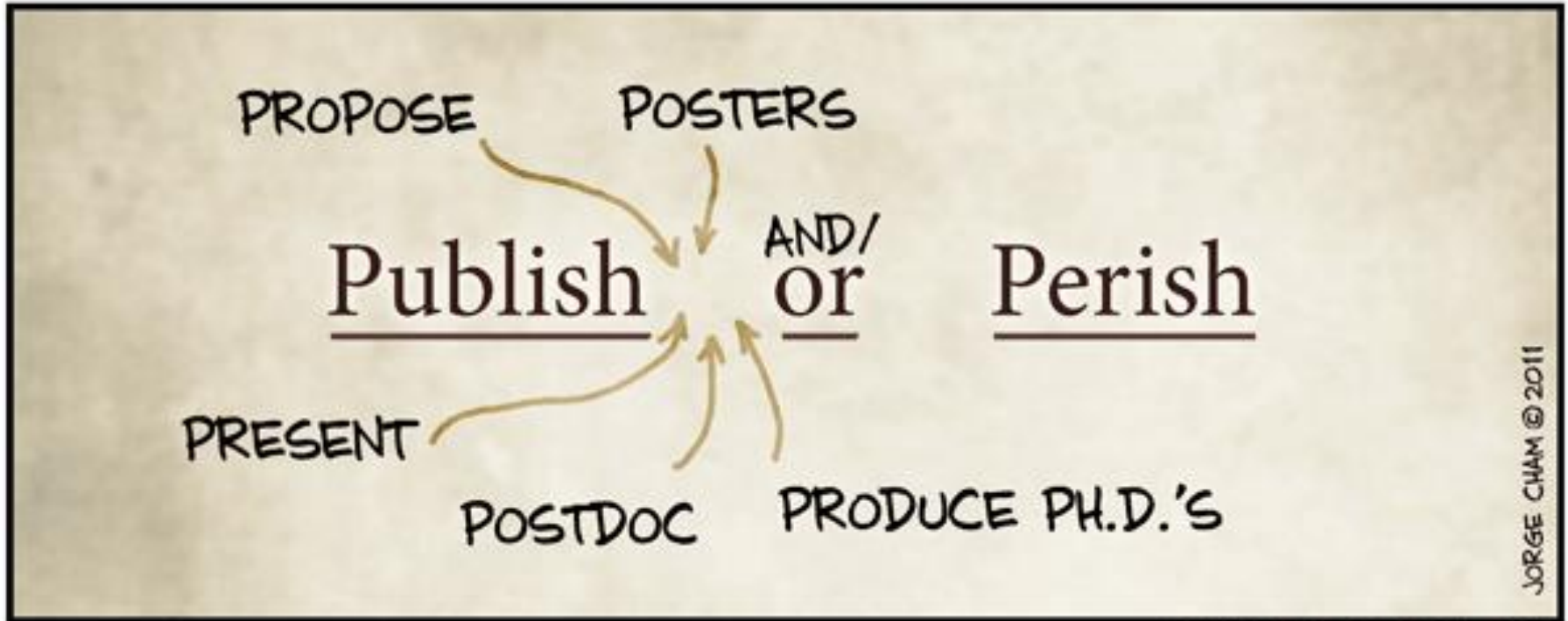
Computer Support Services:

- Clinical informatics
- Bioinformatics
- Biovisualization
- Web services
- Core IT support

<https://science.nichd.nih.gov/confluence/display/bioviz/Welcome>

<http://annualreport.nichd.nih.gov/index.html>

Ps for Success!



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Success in Science:

Your training commitments

- Science, Publications
- Oral Communication
- Written Communication
- Teaching and Mentoring
- Leadership
- Career Exploration
- Grantsmanship
- Job Searching
- Team Science
- Transferrable Skills

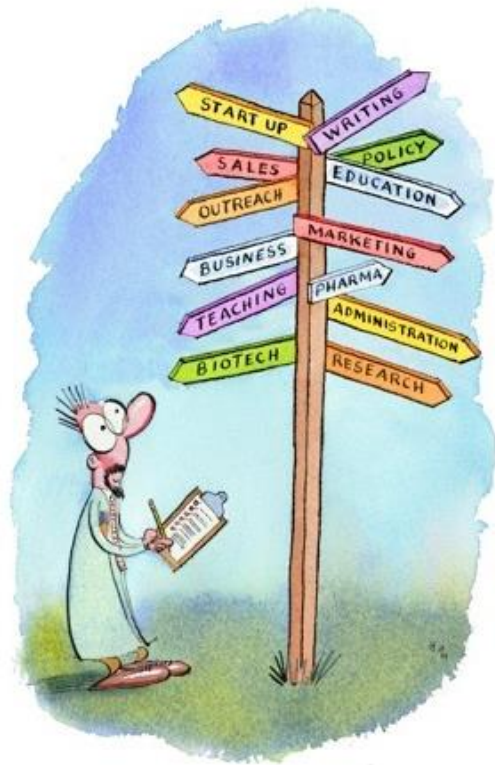
Think about the ENTIRE PACKAGE and try to find the holes in your CV/resume to make yourself more competitive in the job market.

NICHD-DIR Office of Education

Key programs/activities:

- Public speaking workshops (giving one-hour talks and “elevator pitches”)
- Job interviewing
- Writing and editorial services
- Annual one-day grant writing workshop
- Study section education
- Career presentations and counseling
- CV, resume, cover letter review
- College teaching workshop series associated with the University of Maryland
- Annual "Becoming an Effective Scientist" postbac course

Career Planning Tool



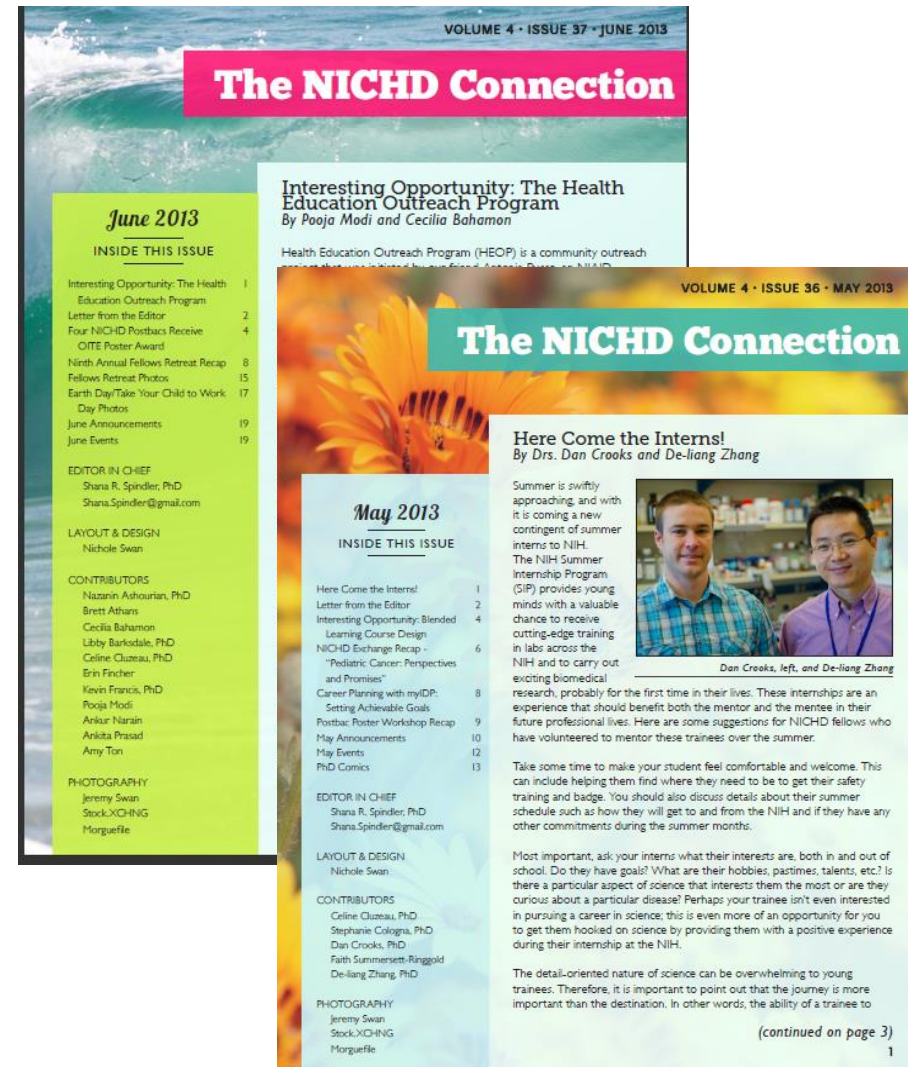
myIDP provides:

- Exercises to help you examine your skills, interests, and values
- A list of 20 scientific career paths with a prediction of which ones best fit your skills and interests
- A tool for setting strategic goals for the coming year, with optional reminders to keep you on track
- Articles and resources to guide you through the process

<http://myidp.sciencecareers.org/>

NICHD-DIR Fellows Newsletter

- **NICHD Connection**, a monthly newsletter run and written by fellows, continues its focus on mentoring, career, and academic programs
- **A way to reach out to our NICHD intramural community**



Grant Opportunities for Intramural Fellows

- PRAT (NIGMS)
- F32 (NIH Postdoc Fellowship)
- K99/R00-NIH Pathway to Independence Award
- Intramural AIDS (OITE)
 - NICHD Fellows Intramural Grants Supplement (FIGS)
 - FARE (Fellows Award for Research Excellence)
 - <https://www.training.nih.gov/felcom/fare>

Opportunities to Present Locally

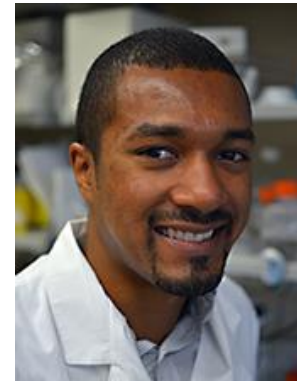
- NICHD Fellows Retreat: <http://retreat.nichd.nih.gov/>
- NIH Scientific Interest Groups:
<http://www.nih.gov/sigs/sigs.html>
- Journal Clubs, Lab Meetings, and Research Program Seminars

NICHD Developing Talent Scholars Program:

Committed to train, support, and sustain a diverse cohort of individuals traditionally underrepresented in science

Objectives:

- To provide a superlative research and mentoring experience scholars
- To tailor an academic and professional skills development program to the needs of the individual trainee
- To foster networking skills and collaboration across NICHD and NIH
- To guide the scholar, on a continuing basis, in his or her continued professional development through an alumni liaison program



Name: Dezmond Taylor-Douglas
Title: Third year MD/PhD student,
Howard University College of Medicine
NICHD Advisor: Jack Yanovski, MD, PhD

NICHD Fellows Recruitment Incentive Award (FRIA)

- Objective: to encourage DIR investigators to appoint postdoctoral fellows to their laboratories who come from underrepresented backgrounds in science
- PI awardees will exhibit superior mentoring ability, and commitment to the career development and academic progress of their fellows
- The PI will work with the fellow to identify a secondary mentor outside of the laboratory and meet at least four times per year to discuss the fellow's individualized training plan and research progress

For Trainees Outside The NIH

https://www.training.nih.gov/for_trainees_outside_the_nih

The Office of Intramural Training & Education (OITE)'s workshops and science skills tutorials are now available online to trainees across the United States and around the world.

Videocasts on designing and delivering successful oral and poster presentations, using LinkedIn effectively, grant writing, CV and resumes, networking, and more

Webinars and guidelines covering a variety of science skills: keeping a lab notebook, attending your first scientific meeting, preparing for your professional school interview, Medical School Application Schedule for Admission in August 2015.

Any Questions

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