Writing Successful Training Grants

Phillip I. Tarr, M.D.

Division of Gastroenterology and Nutrition
Department of Pediatrics
Training Grants

NIH supports training at multiple levels:

F30: Pre-doctoral support for MD/PhDs

T35: Short term training in research while in medical school

F31: Individual pre-doctoral research training

F32: Individual post-doctoral research training

F33: Re-training for established investigators
T32s and F32s

T32: Assured slots, to provide codified training in a program that is aligned with the interests of their NIH Institute. Reviewed by institutes, not CSR.

F32: Individualized slots, customizes training to investigator. Reviewed by CSR. Considers sponsor, candidate, and scientific content of application against the stated goals of the candidate.
Non-MD Support Pathways

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

http://grants.nih.gov/training/FT Awards.htm
MD Support Pathways

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

- Medical School
- Residency
- Specialty/Sub-Specialty
- Independent Investigator

Short-Term Training Grant (T35)
Institutional Training Grants (T32)
Postdoctoral Fellowships (F32)
Senior Fellowships (F33)

http://grants.nih.gov/training/FTAwardshp.htm
Current T32s at Washington University

Institutional Training Grant in Genomic Science
Cardiovascular System – Function, Regulation and Pharmacology
Training Program in Immunology and Immunogenetics
Research Training Program in the Vision Sciences
Training in Reproductive Sciences
Dermatology Training Grant
Postdoctoral Training Program in Critical Care
Biomedical Research Training in Drug Abuse
Mechanisms of Disease in the Newborn Human Infant
Psychiatric Epidemiology & Biostatistics
T32 in Drug Abuse Comorbidity and Biostatistics
Indo-US Fogarty Training Program in Behavioral Disorders
Basic Science Research Training Cardiopulmonary Surgery
Clinical/Laboratory Training Academic Gastroenterology
Surgical Oncology Training Grant
Infectious Disease/Basic Microbial Pathogenic Mechanisms
Renal Disease Training Grant
Biomedical Training in Alcoholism Research
Principles in Pulmonary Research
Nervous System Development and Injury
Pediatric Training Program in Chronic Kidney Diseases
Training of the Pediatric Emergency Physician-Scientist
Nutrition-Behavioral Cardiovascular Disease Prevention
Trans-NDDK Short-Term Training for Medical Students
Pre and Postgraduate Training in Molecular Hematology
Cell Biologic Approaches to Diabetes Research
Developmental Cardiology and Pulmonary Training Program
Principles in Cardiovascular Research Training Program
Development of Clinical/Researchers in Academic ENT
Protectoral Clinical Research Training
Molecular Oncology Training Grant
Research Training in Clinical Sciences
Protectoral Research Training in Human Genetic Epidemiology
Training in Cancer Biology
Training of the Pediatric Physician-Scientist
Training Program in Developmental Hematology
Diabetes and Related Metabolic Diseases
Mechanisms of Childhood Infection and Immunity
Pediatric Gastroenterology Research Training
Fellowship Training in Pediatric Diabetes at WUSM
Immunobiology of the Rheumatic Diseases
Short-Term Training in Health Professional Schools
National Research Science Award-Medical Scientist
Training Program in Molecular Biophysics
Training Program in Cellular and Molecular Biology
Doctoral Training Program in Movement Science
21st Century Imaging Sciences: Undergraduate and Graduate Student Training
Training Program in Computational Biology
Systems and Molecular Neurobiology
Total number of pre-doctoral slots at Washington University 162

Total number of post-doctoral slots at Washington University 160

Total dollars $15,135,734
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<tr>
<th>Grant Number</th>
<th>PI Name</th>
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<td>ZHANG, DONGYANG</td>
<td>Relation between Spontaneous BOLD Fluctuations and Brain Connectivity</td>
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Didactics

- Responsible conduct of research
- Course work appropriate to the research project, or the training motif
- MPH – can be built into T32s
Common Attributes

- Rigorous science, by members of “team” (T32) or people on project (F32).
- Strong environment
- Funding record of mentors and publication and funding record of graduates
- Current positions of graduates (academics>industry>teaching>practice)
Mentorship Plans

• Committee Structure
• Identifiable parting out of project
• Regular sessions
• Be specific – name people on F32s, and recent past on T32s
T32 and F32 Homework

- Applicant files, and evidence of diversity
- Plans to maintain and increase diverse pipeline
- Credible Mentors
- Matrixes within institution (CTSA, Center Grants)
T32 additional considerations

- Don’t ask for more than applicant pool can support
- Word broadly, so as to distribute slots to others with suitable candidates
- Don’t fill slots with unsuitable people
- Consider including Ph.D. post-docs
- Know your audience at the NIH
WUSTL Strengths

- Co-localization
- Collegiality
- CTSA momentum
- Research Portfolio
WUSTL Weaknesses

• No Public Health School
• Clinical research not so externally recognized (unfairly)
• Geographic handicaps re applicant pool
• T32 Portfolio