

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

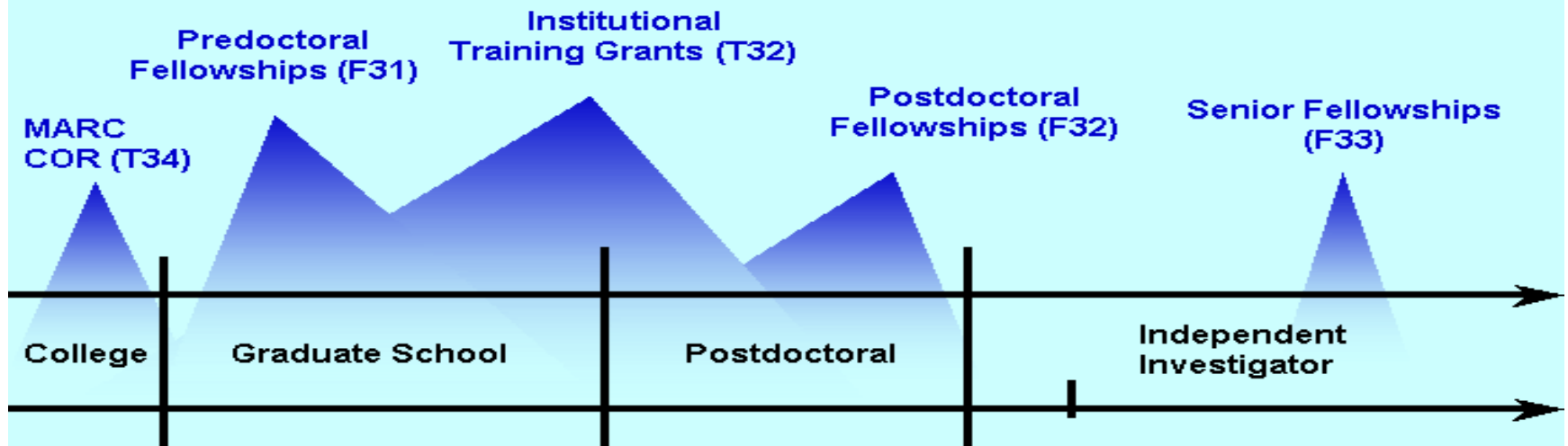
T32s and F32s

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

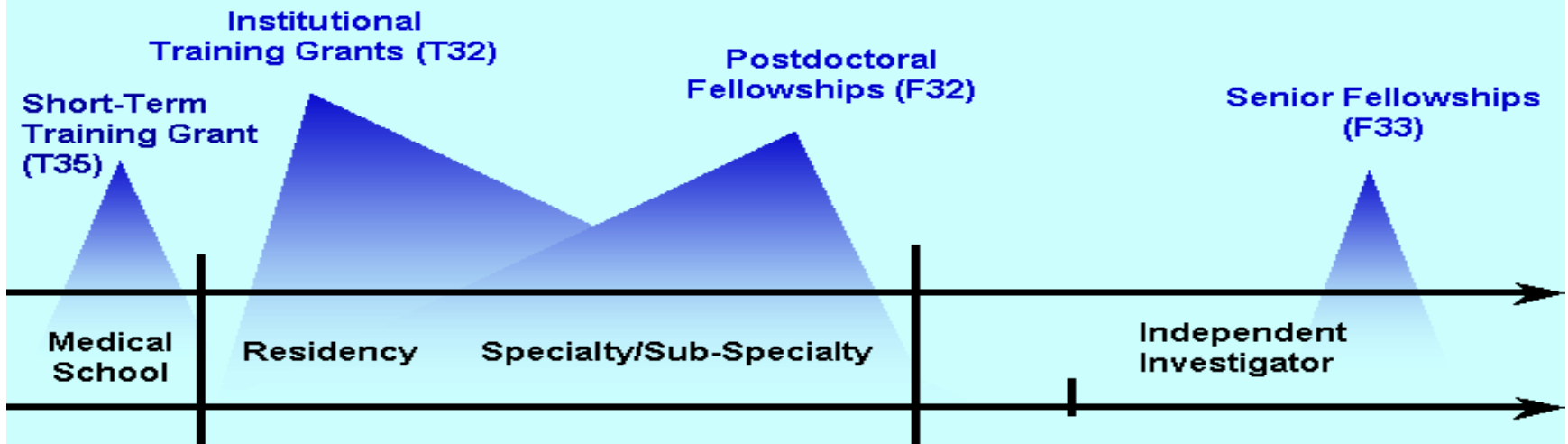
NRSA Fellowships and Training Grants (F & T Awards) for Individuals With or Earning a Research Doctorate



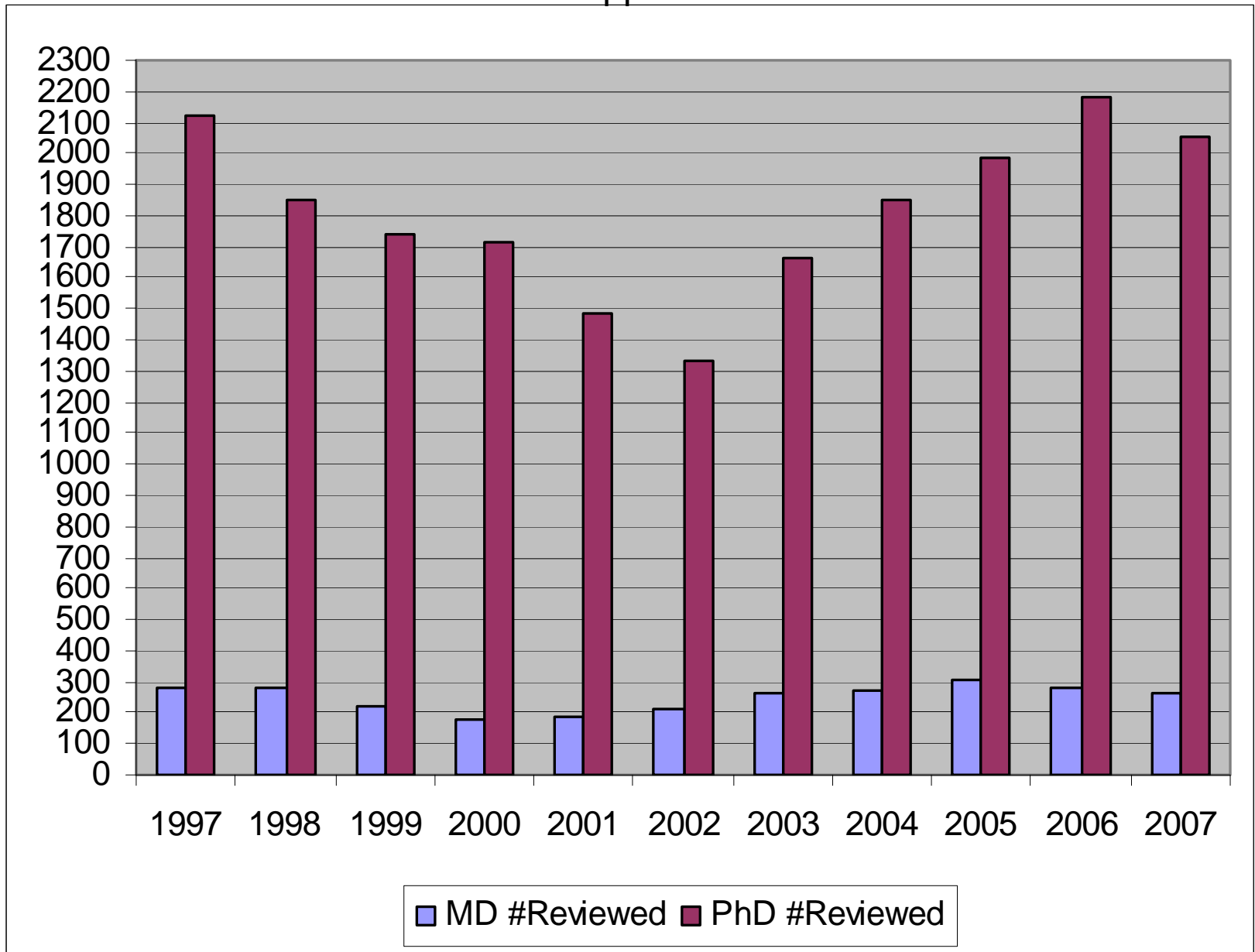
<http://grants.nih.gov/training/FTAwards.htm>

MD Support Pathways

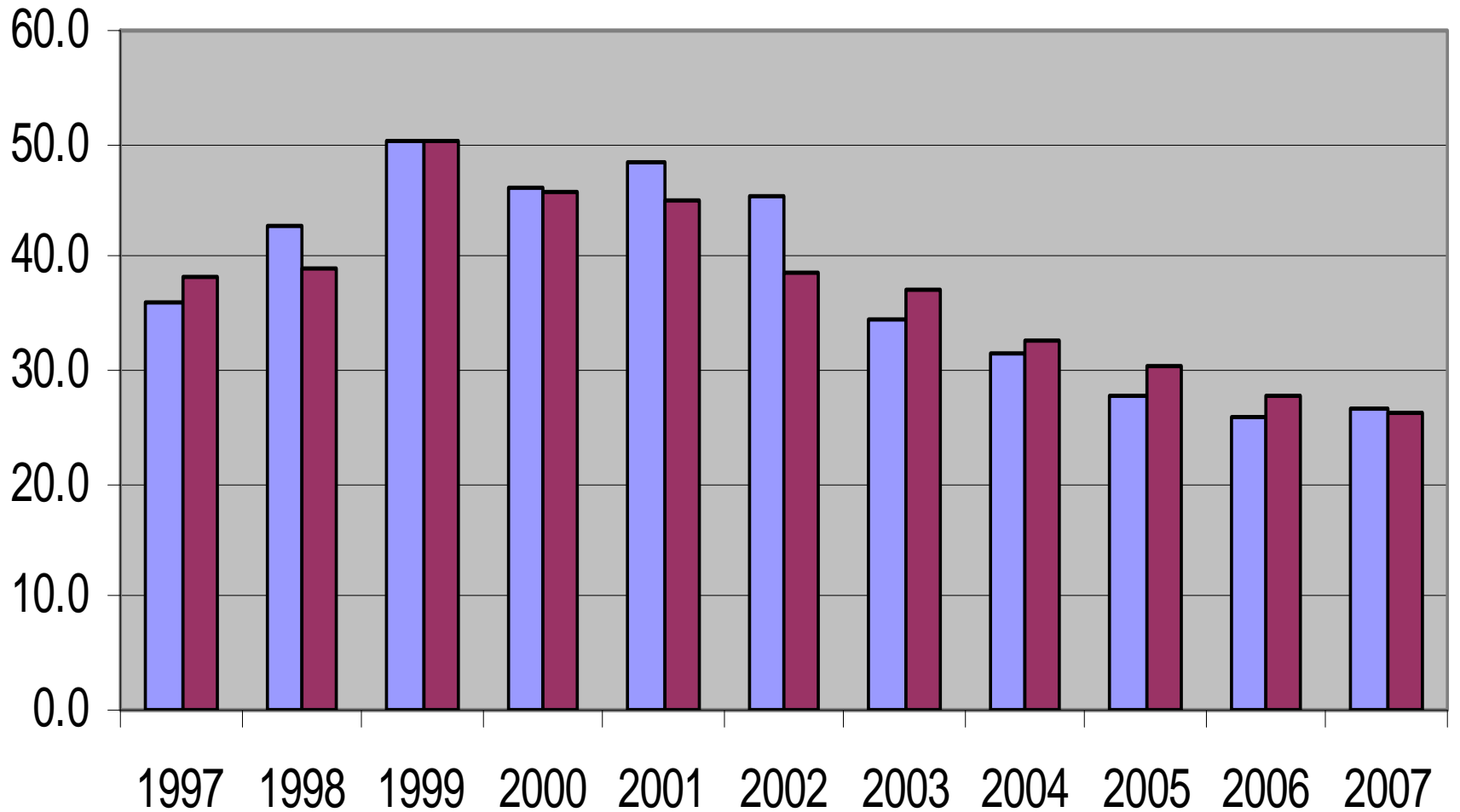
NRSA Fellowships and Training Grants (F & T Awards) for Individuals With or Earning a Health-Professional Doctorate



F32 Applicants



F32 Applicants



■ MD Success Rate ■ PhD Success Rate

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
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Total number of post-doctoral slots at Washington University	160
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Total dollars	\$15,135,734
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CRISP Database F32 + Washington University

You had 39 hits for the query:

Grant Number	PI Name	Project Title
1F30NS061398-01	ALTER, BENEDICT	<u>Isoform-specific Roles of Extracellular-signal Regulated Kinases in Pain</u>
5F31NS052097-03	BUDDE, MATTHEW	<u>In vivo MEL of apinal cord lesions in EAE mice</u>
1F32AI071429-01A1	BUTLER, WILLIAM	<u>Actin Assembly Regulation in Lytic Synapse Formation</u>
5F32AI068362-02	CHEN, SWAINE	<u>Computational tests of urinary tract infection mechanism</u>
5F31NS046910-05	CHRISTENSEN, HEATHER	<u>Defining the link between the Prion Protein and Cancer</u>
1F30NS062489-01	COHEN, ALEXANDER	<u>Defining Human Cortical Functional Areas Using Resting Functional Connectivity</u>
5F32GM078743-02	COPPINS, REBECCA	<u>Structure of a Mg²⁺-Dependent Riboswitch in Salmonella</u>
5F32GM075680-03	ELAM, JENNIFER	<u>Bacterial Amyloid: Biogenesis and Role in Pathogenesis</u>
5F30NS054398-03	FOX, MICHAEL	<u>Functional Relevance of Spontaneous BOLD Fluctuations</u>
5F32NS056765-02	GRAF, ETHAN	<u>Genetic Analysis of Synapse Formation in Drosophila</u>
1F32GM082165-01	GROSS, BRIANA	<u>Evolutionary Response to Parallel Selective Pressures in Cultivated Rice</u>
5F32DK076410-02	HANCOCK, CHAD	<u>Dietary Fat Mitochondria and Insulin Signaling</u>
1F32GM083604-01	HASS, MATTHEW	<u>Molecular Mechanisms Underlying the Distinct Functions of Notch1 and Notch2</u>
5F30DC006988-03	HENDRICKSON, REBECCA	<u>Sensory Processing in the Mouse Accessory Olfactory Bulb</u>
5F31NS056633-02	HONG, MINNA	<u>Locomotor Deficits in Parkinson Disease</u>
1F32CA128335-01A1	HOUSHMANDI, SHERVIN	<u>Merlin regulation of glial cell growth and motility</u>
5F31NS053054-02	HUCKFELDT, RACHEL	<u>Role of horizontal cells in retinal circuit assembly</u>
5F32GM078833-02	HUISINGA, KATHRYN	<u>Role of siRNAs in Drosophila heterochromatin formation</u>
5F32AG029044-02	KOENIGSNECHT-TALBOO, JESSICA	<u>ApoE and cytokines: In vivo effects on AD-like pathology</u>

5F31MH075250-02	KOLBER, BENEDICT	<u>Amredala GR Function in Stress Activation and Promotion</u>
5F32AJ069688-02	LATHEM, WYNDHAM	<u>PROGRESSION OF PRIMARY PNEUMONIC PLAGUE</u>
1F31NS056718-01A1	MACAULEY, SHANNON	<u>Cellular Pathology of Batten Disease</u>
1F32AJ073060-01	MARTENS, ERIC	<u>Sensing and Utilization of Mucopolysaccharides by Bacteroides thetaotaomicron</u>
5F32GM075606-03	MCDANIEL, STUART	<u>The molecular basis of reproductive isolation</u>
5F31DK077577-02	MICHEL, CARLOS	<u>Role of Ribosomal Protein L13a in Lipotoxicity</u>
1F32AJ065069-01A2	PASIEKA, TRACY	<u>Gene expression analysis of HSV-1 infected cells</u>
5F30MH077368-02	RAO, VINOD	<u>Neural and Perceptual Correlates of Expectation</u>
1F30AG030280-01	REEVE, JENNIFER	<u>The role of SLP-76 in osteoclast function</u>
5F32GM076987-02	SABINA, JEFFREY	<u>Dissecting the wiring of yeast's glucose sensing circuit</u>
1F32AA017010-01	SARTOR, CAROLYN	<u>Heritability of Transitions in Women's Alcohol Use/Dependence</u>
5F30NS057926-02	SYLVESTER, CHAD	<u>Do preparatory spatial attention signals in visual cortex predict performance?</u>
5F31NS054513-03	TANK, ELIZABETH	<u>Yeast Model of Disease Associated Mutant Ubiquitin</u>
1F32GM082200-01A1	TAYLOR, CHRISTINA	<u>Understanding Molecular Recognition at the Rhodopsin/Transducin Interface</u>
5F31DK077583-02	THOMAS, RITA	<u>Regulation of Lipotoxicity by the non-coding RNA gadd7</u>
5F30NS057901-02	VAISHNAVI, SANJEEV	<u>Learning Related Modulation of Retina Brain Metabolism</u>
5F32CA115148-03	WADAS, THADDEUS	<u>Bone Metastasis Imaging with Copper-64-labeled Peptides</u>
1F32HL091616-01	WAMBACH, JENNIFER	<u>Variation in SP-C and Key UPR Genes among Infants with Respiratory Distress</u>
1F32GM080964-01	WHITE, MICHAEL	<u>Uncovering novel transcriptional regulatory pathways in the cell cycle</u>
1F30MH083483-01	ZHANG, DONGYANG	<u>Relation between Spontaneous BOLD Fluctuations and Brain Connectivity</u>

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