The Translational Post-Doctoral Training Program in Neurodevelopment

at Boston Children's Hospital and Harvard Medical School

Program Description

Two-year fellowships funded by the National Institute of Mental Health (NIMH) are available for researchers who seek to improve or expand their ability to conduct interdisciplinary investigation in translational neuroscience research in neurodevelopment and neurodevelopmental disorders. To accomplish this goal, additional training beyond an MD or PhD is required.

Research Areas

Postdoctoral projects can encompass basic and/or clinical research and might include investigation into one or more of the following areas:

- Molecular or behavioral neurogenetics
- Neuroimaging
- Neurobiology
- Developmental psychopathology
- Rare neurogenetic disorders
- New diagnostic methods
- Outcomes research
- Interventional studies

Program Areas/Faculty Department Affiliations

Fellows with MD or PhD degrees conduct research during the program with mentors/advisors from the following areas:

- Neurology
- Neurobiology
- Neuroscience
- Developmental/Behavioral Pediatrics
- Psychiatry and Behavioral Sciences
- Genetics
- Psychology
- Neuroradiology
- Neurosurgery
- Computer Science

Trainee Program

This two-year training program provides trainees with the essential guidance, training, and mentoring critical to launching a career in academic research. The training program starts by recruiting the most talented trainees from MD/PhD, MD, and PhD programs who are interested in pursuing a career in translational neuroscience research and academia. Trainees accepted into the T32 program are assigned two mentors, one preclinical and the other clinical, based on their area(s) of interest, background, and aligned with faculty expertise. Close interaction between T32 mentors and trainees are supplemented by a structured training program that provides a common knowledge base with respect to translational neuroscience research. Supplemental work will focus on Translational Neuroscience Seminar Series and Proseminars complemented by trainee specific coursework. Administratively, the program consists of three co-directors (Drs. Nelson, Glahn & Sahin) and a group of 14 highly skilled and successful training faculty from diverse array of disciplines. Applicants should be nominated by their post-doctoral research mentor or their current training program director. The nominator should submit one PDF via email to T32translationaldevelopment@childrens.harvard.edu with the following documents: (1) trainee's CV, (2) list of trainee's other support (need to be at least 80% available for the T32), (3) trainee's statement (max 2 pages) about research interest and specifically why they have selected this training grant, and (4) names and contact information of 2 potential letter writers. Project proposals should clearly state the interdisciplinary nature of the project. *If selected for an interview*, will require: (5) 2 letters of support (one from trainee's mentor) and (6) mentor's other support document.

Faculty Mentors

Mentor Name/Degree ***Affiliation***	**Rank**	**Primary (& Secondary) Appointment(s)**	**Research Interest**
Charles A. Nelson, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Pediatrics and Neuroscience, Psychiatry	Developmental Cognitive Neuroscience
Mustafa Sahin, MD, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Neurology, Neurobiology	Neurodevelopmental Disorders, Neuronal Connectivity
David Glahn, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Psychiatry	Neuropsychiatric Genetics, Affective and Psychotic Disorders
Todd Anthony, PhD *Harvard Medical School, Boston Children's Hospital*	Assistant Professor	Psychiatry and Neurobiology	Stress-induced Psychiatric Disorders
Mark Bear, PhD *MIT*	Professor	Brain and Cognitive Sciences	Neuroscience
Michelle Bosquet Enlow, PhD *Harvard Medical School, Boston Children's Hospital*	Associate Professor	Psychiatry	Neurodevelopmental Disorders
Elizabeth Engle, MD *Harvard Medical School, Boston Children's Hospital*	Professor	Neurology, Ophthalmology, and Genetics and Genomics	Aberrant Cranial Motor Neuron Development
Michela Fagiolini, PhD *Harvard Medical School, Boston Children's Hospital*	Associate Professor	Developmental and Behavioral Pediatrics	Neurodevelopmental Disorders
Susan Faja, PhD *Harvard Medical School, Boston Children's Hospital*	Assistant Professor	Pediatrics and Psychology	Neurodevelopmental Disorders
Nadine Gaab, PhD *Harvard Medical School, Boston Children's Hospital*	Associate Professor	Pediatrics	Cognitive Neuroscience, Auditory and Language Processing
John Gabrieli, PhD *MIT, Harvard Medical School*	Professor	Brain and Cognitive Sciences	Cognitive Neuroscience
P Ellen Grant, MD, MSc *Harvard Medical School, Boston Children's Hospital*	Professor	Radiology and Pediatrics	Fetal-Neonatal Neuroimaging and Developmental Science
Takao Hensch, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Neurology	Development of Neural Circuits
Jonathan Lipton, MD, PhD *Harvard Medical School, Boston Children's Hospital*	Assistant Professor	Neurology	Neurodevelopment and Circadian Rhythms
Alexander Rotenberg, MD, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Neurology	Brain Injury and Epilepsy
Beth Stevens, PhD *Harvard Medical School, Boston Children's Hospital*	Associate Professor	Neurology	Synapses, Neuron-glia and Neural-immune Interactions
Mriganka Sur, PhD *MIT*	Professor	Brain and Cognitive Sciences	Learning and Memory

Helen Tager-Flusberg, PhD *Boston University*	Professor	Psychological and Brain Sciences	Neurodevelopmental Disorders
Christopher Walsh, MD, PhD *Harvard Medical School, Boston Children's Hospital*	Professor	Pediatrics and Neurology, Genetics and Genomics	Neurodevelopmental Disorders, Brain Development, Evolution, and Function
Timothy Yu, MD, PhD *Harvard Medical School, Boston Children's Hospital*	Associate Professor	Genetics and Genomics	Neurodevelopmental and Neurogenetic Diseases