



## **T32 NIH Research Fellowship**

### **Image Guidance, Precision Diagnosis and Therapy**

**We are accepting applications from MDs and PhDs for the "Image Guidance, Precision Diagnosis and Therapy" (IGPDT) training program at Brigham and Women's Hospital – Harvard Medical School (BWH/HMS), effective immediately.**

The trainee will work in the Focused Ultrasound Laboratory under the primary mentorship of Dr. Nick Todd. The project will combine focused ultrasound-mediated disruption of the blood-brain barrier with AAV capsid development. We aim to harness these two complimentary technologies to develop a novel FUS-specific AAV capsid and overcome the critical challenge of delivering gene therapies to the brain.

#### **PRINCIPAL DUTIES AND RESPONSIBILITIES:**

- Generation of FUS-specific AAV capsid libraries.
- Design and carry out AAV + FUS-BBB opening experiments in mice.
- Capsid screening and selection of top hits.
- Characterization of AAV delivery biodistribution.
- Organize and analyze data.
- Present findings at scientific meetings and publish results in scientific journals.

**Eligible candidates:** Per NIH guidelines, this is restricted to US citizens or legal aliens. Postdoctoral PhD fellows or MD physician-scientists who have completed residency (in specialties such as diagnostic/interventional radiology, surgery, radiation oncology, pathology) are eligible to apply for research/clinical training in IGPDT. Appointments will be for one to two years. Salary is commensurate with NIH guidelines, qualifications and years of training.

**Criteria for selection:** Previous outstanding research and/or clinical and academic performance, prior research experience and publications, commitment to an academic career in precision diagnosis and therapy, personal references and an interview. Women, persons with disabilities and of diverse backgrounds/members of underrepresented minority groups are particularly encouraged to apply.

Please see NIH eligibility criteria:

([https://grants.nih.gov/grants/policy/nihgps/html5/section\\_11/11.3.2\\_eligibility.htm](https://grants.nih.gov/grants/policy/nihgps/html5/section_11/11.3.2_eligibility.htm))

The application should consist of a brief letter of interest containing addresses, telephone number(s) and US citizenship or US permanent residency status, names of three references, a full CV, and a one-page statement of interest.

#### **CONTACT INFORMATION:**

To apply, please send application to Dr. Nick Todd at: **ntodd1@bwh.harvard.edu**. Subject line should read **"Last Name: PostDoc Position"**.