

Harvard Medical School Molecular Genetic Pathology Training Program

Description of Program and Additional Information:

The Harvard Medical School (HMS) Molecular Genetic Pathology Training Program is an ACGME accredited program that provides integrated rotations through molecular diagnostic laboratories and genetic clinics at five HMS affiliated hospitals: Brigham and Women's Hospital, Massachusetts General Hospital, Beth Israel/Deaconess Medical Center, Dana Farber Cancer Institute and Children's Hospital over one academic year. The overall goals of the program are:

1. Provide extensive training in broad areas of molecular diagnostics and molecular genetics including inherited genetic disorders, infectious disease, neoplasia, and identity testing.
2. Provide training in the performance and interpretation of molecular, cytogenetic and biochemical laboratory tests.
3. Provide training as a medical consultant in Molecular Genetic Pathology to assist clinicians in the diagnosis and care of patients.
4. Provide training and direct exposure to laboratory management, quality-assurance, troubleshooting of molecular tests, assay development and evaluation, and instrument evaluation.
5. Provide training and direct exposure to clinical genetic practice through active participation in genetics clinics with the aim of better understanding the clinical implications of genetic testing.
6. Ensure that the fellows achieve the following:
 - Acquire a sound knowledge base of the basic science of molecular biology and molecular genetics.
 - Learn to integrate molecular and clinical data and calculate genetic risk.
 - Develop research skills and participate in a research project.
 - Demonstrate good communications skills with laboratory and clinical physicians, patients, technologists, and ancillary staff.
 - Demonstrate sensitivity to ethical issues in genetics, particularly those raised by molecular diagnostic testing.

Overview of HMS MGP Program

The program is set up that each fellow rotates through the institutions for a three month block period, with the BIDMC and DFCI rotations combined in to one block. Please see below for a brief overview of the clinic and lab rotations with the core labs highlighted in red:

	<u>BWH</u>	<u>MGH</u>	<u>Children's</u>	<u>BIDMC/DFCI</u>
Clinic Rotations	Center for Fetal Medicine and Prenatal Genetics	Genetics and Metabolism Clinics	Genetics Clinic	DFCI Clinic: Cancer Risk and Prevention Clinic
Lab Rotations	Molecular Diagnostics; Cytogenetics; Tissue Typing; Molecular Microbiology	Neurogenetics DNA Diagnosis; Molecular Diagnostics and Neurochemistry; Molecular Microbiology	DNA Diagnostic Lab	BIDMC Labs: Molecular Pathology; Molecular Microbiology; Cytogenetics

Program Website:

<http://www.brighamandwomens.org/pathology/Medical/MolecGeneticPathology.asp>

Requirements:

MD; training in an ACGME accredited residency in Pathology (AP, CP or AP/CP) or Medical Genetics; eligibility for Massachusetts medical license

Length of Program:

12 months

Application Deadline:

Applications accepted up to 18 months in advanced and decisions will be made by March of that year.

Additional Contact:

Caitlin Brennan, Administrative Coordinator
857-307-1562
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Visas Accepted:

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Faculty:

The training program has over 30 faculty members across the 5 institutions including pathologists, geneticists, clinicians and physician-scientists. Details of the faculty, rotations and application requirements can be obtained from the Administrative Coordinator.

