INSTITUTE OF GENETIC MEDICINE

Constituted in 1999, the McKusick-Nathans Institute of Genetic Medicine became the Department of Genetic Medicine (DGM) in 2019 and is the focal point for patient care; basic, translational, and clinical research; and education in human genetics and genomics at Johns Hopkins. The DGM is a national and international leader in genetic medicine - the integration of our rapidly expanding knowledge of genetics and genomics into the practice of medicine. The goal of genetic medicine is to tailor prevention, diagnosis, and treatment in a manner appropriate for each individual patient. In pursuit of the goal of individualized medicine, the DGM catalyzes interactions between physicians and scientists with diverse and complementary expertise to promote the application of genetic discoveries to human disease and genetics education to the public. Many DGM faculty members have a co-primary appointment in another department in the School of Medicine and serves to introduce and integrate genetics throughout the School and the University. Moreover, our faculty members have considerable strengths and expertise in the areas of genomics, developmental genetics, biochemical genetics, population genetics, computational biology, and the genetics of complex disease. We aim to maintain Hopkins Medicine’s leadership role in the medicine of the 21st century, a medicine that increasingly individualized and focused on prevention.

Graduate Program

Students are accepted for graduate work leading to the degree of Doctor of Philosophy (see Graduate Programs in Human Genetics)

Program Requirements

Residency Program

The Johns Hopkins medical genetics residency programs provide ACGME-accredited clinical residency and comprehensive research training in medical genetics. We offer a categorical training track and four combined training tracks with pediatrics, internal medicine, maternal fetal medicine, and reproductive endocrinology. With successful program completion, trainees are qualified and eligible for ABMGG and other specific board certification.

Medical Genetics Residency Program is a two-year program designed to train physicians to provide comprehensive diagnostic, management, and counseling services for inherited diseases and the genetic factors pertinent to all diseases. The training experience also emphasizes the role of research in Medical Genetics so that trainees can pursue investigator-initiated research upon completion of the program. A third year of individualized specialty research is recommended.

Combined Pediatrics & Medical Genetics Residency: This 4-year curriculum meets the requirements of the American Board of Pediatrics (ABP) & ABMGG. Trainees are highly encouraged to complete additional mentored research training in medical genetics.

Combined Internal Medicine & Medical Genetics Residency: This 4-year curriculum is structured according to the requirements of American Board of Internal Medicine (ABIM) & ABMGG. Trainees are highly encouraged to complete additional mentored research training in medical genetics.

Combined Maternal Fetal Medicine Fellowship & Medical Genetics Residency: This 4-year curriculum is unique for physicians who have completed an accredited residency in Obstetrics and Gynecology and wish to integrate their Maternal and Fetal Medicine (MFM) fellowship with Medical Genetics residency training.

Combined Reproductive Endocrinology and Infertility Fellowship & Medical Genetics Residency: This 4-year curriculum is unique for physicians who have completed an accredited residency in Obstetrics and Gynecology and wish to integrate their Reproductive Endocrinology and Infertility (REI) fellowship with Medical Genetics residency training.