

University of Minnesota Medical Center Molecular Genetic Pathology Fellowship

Description of Program and Additional Information:

The Molecular Genetic Pathology (MGP) Fellowship Program at the University of Minnesota is an ACGME-accredited one-year fellowship whose goal is to give trainees both depth and breadth of experience in molecular testing. The University's Molecular Diagnostics Laboratory is a full-service laboratory offering over 30 clinical tests for hematologic, oncologic, infectious and inherited disorders. Fellows will become proficient in the performance of molecular techniques including DNA and RNA extraction, Southern analysis, PCR, methylation-sensitive PCR, qualitative and quantitative RT-PCR and sequencing, including next-generation sequencing. Fellows will apply their knowledge of these techniques to the interpretation and reporting of the clinical tests performed daily. Gradually assuming increasing responsibilities throughout the year, Fellows will take part in the same activities as the Laboratory Director: they will assume responsibility for the daily operations of the laboratory (troubleshooting, interacting with clinicians, preliminary interpretation of results), act as consultants to other physicians and healthcare providers, take part in quality assurance and quality control activities, engage in the education of residents and genetic counseling students, and participate in ongoing administrative duties. The Fellow will also be expected to take part in the design and implementation of a research project, which can be basic science or translational research; additionally, Fellows will develop one new clinical assay for the laboratory. Departmental funding is available to assist the Fellows in their research endeavors. At the end of their training, the Fellow will have gained the skills necessary to provide comprehensive diagnostic and interpretive services for inherited and acquired diseases, and will also have considerable experience in the many administrative duties performed by today's laboratory directors.

Program Website: <http://residency.pathology.umn.edu>

Educational Requirements: MD with training in anatomic and/or clinical pathology

Length of Program: 12 months (July – June)

Application Deadline: September 1; early application is encouraged

Faculty/Key Staff:

Michelle Dolan, M.D., Fellowship Program Director
Randolph Peterson, M.D., Director, Molecular Diagnostics Laboratory
Bharat Thyagarajan, M.D., Ph.D.
Sophia Yohe, M.D.
Betsy Hirsch, Ph.D.
Michael Tsai, Ph.D.
Lisa Schimmenti, M.D., Ph.D.
Tracy Prosen, M.D.
Matthew Bower, M.S., CGC
Mary Ahrens, M.S., CGC

