
UNIVERSITY OF NEW MEXICO

Molecular Genetic Pathology

Description: A comprehensive training in Molecular Genetic Pathology (MGP) is provided at the University of New Mexico Health Science Center and TriCore Reference Laboratories in all areas of Molecular Pathology including Molecular Oncology, HLA typing, Post Bone Marrow Transplantation Chimerism, Hereditary Genetic Tests, Molecular Microbiology/Virology and Cytogenetics/FISH. Training in Medical Genetics and Genetic Counseling is provided in Medical Genetics and Dysmorphology Clinics in Department of Pediatrics with close interaction of MGP fellow with pediatric dysmorphologist and geneticist including participation in medical rounds. The MGP fellow will be trained in a structured manner with active involvement in the interpretation of molecular pathology test results, preparation of molecular pathology reports prior to sign out and discussion of results with referring physicians. An integrated approach will be taught and used. The fellow will attend ongoing education conferences and didactic presentations. The fellow will also present conferences including interesting, classic or challenging cases in molecular pathology. The fellow will participate in QA/QC aspects of molecular pathology as well as in weekly laboratory management meetings. Graduated responsibility will be given to the fellow as the fellow accrues acceptable competency levels. Ample opportunities for research projects and publications are provided and the fellow is encouraged to present his/her work in molecular pathology-related national meetings. **Length of Program:** 12 months; July 1st through June 30th.

Requirements: MD plus residency training in pathology or medical genetics in an ACGME accredited program

Facilities: The molecular tests are mainly performed at TriCore Reference Laboratories and include over 70,000 molecular diagnostic tests, 1,300 molecular oncology and 4,400 cytogenetics/FISH assays. A range of technologies is employed that include RT-PCR, qualitative PCR, allelic discrimination PCR, quantitative real time PCR, direct DNA sequencing, high resolution melting curve analysis, restriction fragment length polymorphism and analysis, DNA methylation assays, fluorescent and chromogenic in situ hybridization, and capillary electrophoresis.

Staff: **Mohammad Vasef MD** (MGP Board Certified); **Thomas Williams MD** (MGP Board Certified); **David Czuchlewski MD** (MGP Board Certified); **Rama Gullapalli MD** (MGP Board Certified); **Barbara Masten PhD** (HLA Laboratory); **Sara Koenig MD** (HLA Laboratory); **Randall Heidenreich MD** (Pediatric Medical Genetics); **Thomas Cushing MD** (Pediatric Medical Genetics); **Carol Clericuzio MD** (Pediatric Medical Genetics); **James Gale PhD** (Research and Development); **Frederick Elder PhD** (Cytogenetics); **Bonnie Carmichael MD** (Cytogenetics); **Karissa Culbreath PhD** (Microbiology/Virology); **Stephen Young PhD** (Microbiology/Virology); **Richard Harvey PhD** (Cancer Research Center).

Applications: CV, personal statement and 3 letters of reference to be received no later than November 1 of each year for positions commencing July 1 two years later. Interviews will be conducted in January. **Application Deadline:** November 1st.

Visa Accepted: J1. Address inquiries to: Raquel Calderon, MGP Fellowship Program Coordinator, University of New Mexico, Pathology, 1001 Woodward Place NE, MSC08 4640, Albuquerque, NM 87102-2705

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