

## Dr. Michael Dean

### Biography

Dr. Michael Dean is a senior investigator in the Laboratory of Translational Genomics. He obtained his Ph.D. from the Biochemistry Department at the Boston University School of Medicine. He performed his postdoctoral studies at the National Cancer Institute, Center for Cancer Research (CCR), on the *MET* oncogene and cystic fibrosis gene. He is a member of the American Society of Human Genetics, Centre d'Etude du Polymorphisme Humaine (CEPH), the Human Genome Organization (HUGO), and an adjunct faculty member at Hood College. Before joining DCEG in 2015, Dr. Dean led the Human Genetics Section of the Cancer and Inflammation Program within CCR.

### Research Interests

Dr. Dean is broadly interested in inherited (germline) genetic variation, somatic mutations in tumors, and the combined effect of both on cancer risk, progression, and response to therapy. While part of CCR, Dr. Dean participated in cloning genes (*PTCH*, *VHL*) involved in inherited cancers; characterized common variants associated with cancer; and sequenced the genomes of tumors to identify genes commonly altered. In the LTG, Dr. Dean is continuing his work on unlocking the mechanisms through which genetic alterations affect cancer risk. By evaluating the genetic factors of tumor as well as host, Dr. Dean is determining new biomarkers for early detection and treatment. He also continues his investigations into the genetic components of cancer health disparities in the U.S. and in Latin America.