Genetics, Genomics, and Molecular Medicine

Course Director: Rizwan Hamid, MD, PhD
Spring [4 hours credit] Hamid

The main goal of this course is to provide an up to date perspective in genomics as it applies to clinical practice and medical research and thus to enhance knowledge and skills in this rapidly evolving field. This course is designed to give physician and life-scientist trainees an overview of genomic medicine and how best to utilize it in both clinical practice and research projects. The course will introduce students to key concepts in genetics and how these concepts affect genomic data interpretation and study design. Students will learn about a number of approaches that can be used to biologically test these data. The course format will be a mix of interconnected lectures, hands-on workshops, supplemented by online training modules.

Texts & Readings:

- Recommended: Thompson & Thompson Genetics in Medicine, (Robert L. Nussbaum MD FACP FACMG (Author), Roderick R. McInnes CM MD PhD FRS(C) FCAHS FCCMG (Author), Huntington F Willard PhD (Author))