Hyperactive Ras Signaling in Developmental Disorders and Blood Cancer

*RAS* and *NF1* genes, which encode core components of the Ras/GTPase molecular switch, are frequently altered by somatic mutations in human cancer. These mutations increase Ras output and drive malignant growth. Germline NF1 mutations cause type 1 neurofibromatosis (NF1) a common dominant multi-system disorder that is the founding member of a group of related developmental disorders collectively called the “Rasopathies”. This seminar will focus on the role of Ras pathway mutations in these different clinical contexts and discuss emerging therapies.

**Dr. Kevin Shannon, MD**  
Professor  
University of California, San Francisco

**Host: Dr. Mandar Muzumdar, MD**  
Assistant Professor  
YSM Department of Genetics

**Tuesday, November 12, 2019**  
11:30am - 12:30pm  
The Anlyan Center – N107

The Genetics Calendar of Events can be viewed on-line at https://medicine.yale.edu/genetics/events/seminars.aspx