Trainee Symposium on Diagnostic Genetics

Thursday, June 29, 2017
8 a.m. to 6 p.m.
Mitchell Building, Floor 3, Elevator J, Onstead Auditorium (S3.8012)

Invited Lectures

8 a.m.  Registration and Breakfast

9 a.m.  Next generation sequencing as a tool for precision cancer care: Challenges and advances; A. Karina Eterovic, Ph.D., associate professor of Systems Biology, MD Anderson

9:30 a.m.  Identification of novel regulators and therapeutic targets in hematologic malignancies; Sean M. Post, Ph.D., assistant professor of Leukemia, MD Anderson

10 a.m.  Molecular diagnostics in solid tumors; Sinchita Roy-Chowdhuri, M.D., Ph.D., assistant professor of Pathology, MD Anderson

10:30 a.m.  Coffee Break

11 a.m.  Whole genome amplification of single fetal cells for downstream NGS analysis of copy number variants and SNPs; Adriel Kim, PI: Arthur Beaudet, Baylor College of Medicine

11:30 a.m.  Highly-multiplexed single cell DNA sequencing to investigate intratumor heterogeneity; Haowei Du, PI: Nick Navin, MD Anderson

12 p.m.  Chromosome 8p12-21 alteration in lung cancer; Mohamed Baity, PI: Bingliag Fang, MD Anderson

Awardee Lectures

2 p.m.  Circulating cell free DNA as a biomarker to detect early stage endometroid type endometrial carcinoma; Ana Bolivar, Awarded Best Abstract, Cancer Genome Consortium Meeting, 2017, PI's: Russell Broaddus and Raja Luthra, MD Anderson

2:30 p.m.  Whole genome-based molecular epidemiology of Staphylococcus epidermidis isolates causing invasive bloodstream infection in cancer patients; Xiqi Li, Awarded Student and Postdoctoral Travel Award, American Society for Microbiology, 2017, PI's: Sam Shelburne and Awdhesh Kalia, MD Anderson

3 p.m.  Comparison of whole genome sequencing and conventional molecular techniques for genotyping bacterial isolates causing bacteremia in cancer patients; Wenrui Ye, Awarded Best Abstract, Association of Genetic Technologists Annual Meeting, 2017, PI: Awdhesh Kalia, MD Anderson

3:30 p.m.  Coffee Break

3:45 p.m.  Structural variant analysis in Mendelian disease; Vahid Bahrambeigi, PI: James Lupski, Baylor College of Medicine

4:15 p.m.  Molecular genetic analysis of ccfDNA can be used as noninvasive cancer-specific screening markers of colorectal cancer; Xuemei Shi, PI's: Scott Kopetz and Raja Luthra, MD Anderson

4:45 p.m.  Genomic profile-based prognostic markers of pediatric germ cell tumors; Hui Yi Yon, PI: Pulivarthi Rao, Texas Children’s Hospital

5:15 p.m.  Specific genetic signatures associated with breast cancer among African Americans and Caucasians; Maha El Naofal, PI: Rana El-Zein, Methodist Hospital Research Institute

For more information, contact akalia@mdanderson.org