

DDC RESEARCH FORUM



"Dissecting plasticity during colorectal cancer metastasis"



Karuna Ganesh, M.D., Ph.D.

Assistant Member, Dept. of Medicine
Molecular Pharmacology Program
Memorial Sloan Kettering Cancer Center
Manhattan, New York

About this seminar: We are adopting a patient-derived functional biospecimen approach combining (1) hypothesis-generation using transcriptomics, epigenomics and spatial/histological analysis of patient samples of primary and metastatic gastrointestinal (GI) cancer with (2) mechanistic dissection in cutting-edge patient-derived organoid models, including co-cultures with immune/stromal cells, and (3) genetically engineered and orthotopic transplantation models of metastatic GI cancer. By profiling, lineage tracing and genetically interrogating the evolving transcriptomic and chromatin landscapes of regenerative metastatic states, we are defining the molecular mechanisms that underpin the phenotypic plasticity of metastatic cancer, and the co-evolution of the tumor microenvironmental response to dynamically emerging tumor regenerative states. Our approach is unveiling crucial signaling nodes required for metastatic plasticity that can be therapeutically targeted to improve outcomes for patients with cancer.

References: PMID: PMC7895475, PMID: PMC7351134, PMID: PMC7385919.



Baylor Main Campus
DeBaKey Building
Auditorium M112

Refreshments provided.



<https://bcm.zoom.us/>
Meeting ID: 951 0349 9512
Password: 2020



SEPT 29

4:00 PM

For more info: Sara Tristan, DDC Administrator, escamill@bcm.edu, (713) 798-3478