

**10th Mayo Clinic Symposium on Tumor Microenvironment
and Immuno-Oncology Crosstalk:
*From Novel Therapeutics to transformative practice***

**Ponte Vedra Inn and Club
Ponte Vedra Beach, Florida**

December 5-7, 2024

All Presentations Eastern Time

Thursday, December 5, 2024

7:00 a.m.	Breakfast and Registration
8:00 a.m.	Section I: Mini-Symposium – Nanotechnology and System Biology Chairs: Priyabrata Mukherjee, Ph.D., Stephenson Cancer Center
8:10 a.m.	Harnessing nano properties to improve cancer immunotherapy. Andrew Wang, M.D., UT Southwestern Medical Center
8:30 a.m.	Discussion
8:35 a.m.	Biomimetic Microbubbles- A Novel Delivery Platform for Immunotherapy and Imaging Ramasamy Paulmurugan, Ph.D., Stanford University
8:55 a.m.	Discussion
9:00 a.m.	Nanoparticles encapsulated with drugs to reduce stenosis formation in hemodialysis vascular access Gaurav Sahai, Ph.D., Oregon State University
9:20 a.m.	Discussion
9:25 a.m.	Title TBA Liangfang Zhang, Ph.D., UC San Diego
9:45 a.m.	Discussion
9:50 a.m.	Title TBA Priyabrata Mukherjee, Ph.D., Stephenson Cancer Center, Oklahoma
10:10 a.m.	Discussion
10:15 a.m.	Coffee Break and Exhibits
10:45 a.m.	Continuous low-dose cancer chemotherapy with oral nanoparticle-paclitaxel Dipanjan Pan, Ph.D., Pennsylvania State University
11:05 a.m.	Discussion
11:10 a.m.	Ex vivo vulnerabilities of human gliomas Sunil Krishnan, M.D., Ph.D., UT Health Houston
11:30 a.m.	Discussion
11:35 a.m.	Title TBA Zigang Dong, M.D., Ph.D., China-US(Henan) Hormel Cancer Institute, University of Zhengzhou
11:55 a.m.	Discussion
12:05 p.m.	Lunch
1:15 p.m.	Section II: Welcome and Introduction

	Cheryl L. Willman, M.D., Mayo Clinic Rochester Alfredo Quiñones-Hinojosa, M.D., Mayo Clinic Florida Vijay Shah, M.D., Mayo Clinic Florida
1:30 p.m.	Section III: GBM Microenvironment and novel therapeutics Chair: Alfredo Quiñones-Hinojosa, M.D., Mayo Clinic Florida
1:35 p.m.	Title TBA Mitchel Berger, M.D., Ph.D., UCSF
1:55 p.m.	Discussion
2:00 p.m.	The critical role of m6A RNA methylation in cancer cell-brain microenvironment interaction and brain metastasis Suyun Huang, M.D., Ph.D., Virginia Commonwealth University
2:20 p.m.	Discussion
2:25 p.m.	Title TBA Panagiotis Z. Anastasiadis, Ph.D., Mayo Clinic Florida
2:45 p.m.	Discussion
2:50 p.m.	Targeting the Development of Resistance to Stem-Cell Active Drugs in Glioblastoma Steven Rosenfeld, M.D., Ph.D., Mayo Clinic Florida
3:10 p.m.	Discussion
3:15 p.m.	Coffee Break and Exhibits
3:45 p.m.	Section IV: Microenvironment and Immune Evasion Chair: Vivek Rangnekar, Ph.D., University of Kentucky
3:50 p.m.	Title TBA Candace Johnson, Ph.D., Roswell Park Cancer Institute
4:10 p.m.	Discussion
4:15 p.m.	Tumor Microenvironment and cellular tracing Nagarajan Kannan, Ph.D., Mayo Clinic Rochester
4:35p.m.	Discussion
4:40 p.m.	Pancreatic cancer tumor microenvironment Daniel D. Billadeau, Ph.D., Mayo Clinic Rochester
5:10 p.m.	Discussion
5:15 p.m.	The good, the bad and the yet to be known about monoclonal anti-CD38 therapy in Multiple Myeloma Fabio Malavasi, M.D., University of Torino Medical School, Torino, Italy
5:35 p.m.	Discussion
5:40 p.m.	Section V: Martin and Winifred Ehlers Lectureship (Named-Professor Lecture) Chair: Jennifer J. Westendorf, Ph.D., Mayo Clinic Rochester
5:45 p.m.	Title TBA Guillermo A. Ameer, Sc.D., Daniel Hale Williams Professor of Biomedical Engineering, McCormick School of Engineering, Professor of Surgery, Feinberg School of Medicine
6:10p.m.	Discussion
6:15 p.m.	Section VI: Virtual Poster Session and Networking
7:00 p.m.	Dinner (Supported by Ehlers Lectureship Honoring Dr. Eniola-Adefeso) and Health Disparities in Cancer Research and Care – Gaps and Opportunities Chair: Cheryl L. Willman, M.D., Chair of Biochemistry & Molecular Biology, Mayo Clinic Rochester

	Panelists: Lewis R. Roberts, M.B., Ch.B., Ph.D., Mayo Clinic Rochester Folakemi T. Odedina, Ph.D., Mayo Clinic Florida Roxana S. Dronca, M.D., Mayo Clinic Florida Candace Johnson, Ph.D., Roswell Park Cancer Institute
9:00 p.m.	ADJOURN – End of Day 1
Friday, December 6, 2024	
7:00 a.m.	Breakfast and Registration
8:00 a.m.	Section VII: Molecular basis of human diseases Chair: Krishnendu Pal, Ph.D., Mayo Clinic Florida
8:10 a.m.	Forkhead (Fox) Transcription Factors in Vascular Formation Tsutomu Kume, Ph.D., Northwestern University
8:30 a.m.	Discussion
8:35 a.m.	Regulation of the PHD/HIF axis in normoxia Resham Bhattacharya, Ph.D., University of Oklahoma
8:55 a.m.	Discussion
9:00 a.m.	Ultrasmall silica nanoparticles improve anti-tumor pro-inflammatory and cytotoxic responses in immune suppressive microenvironments. Michelle S. Bradbury, M.D., Ph.D., Memorial Sloan Kettering Institute
9:20 a.m.	Discussion
9:25 a.m.	Pancreatic Cancer and pancreatitis Baoan Ji, Ph.D., Mayo Clinic Florida
9:45 a.m.	Discussion
9:50 a.m.	Neuroblastoma and tumor microenvironment (Young Investigator Talk) Jane Zhu, Ph.D., Mayo Clinic Rochester
10:05 a.m.	Discussion
10:10 a.m.	Coffee Break and Exhibits
10:35 a.m.	Section VIII: Microenvironment and Cell Signaling Chair: Sujit Basu, M.D., Ph.D., Ohio State University
10:40 a.m.	Metabolism and Cancer Edward Chini, M.D., Ph.D., Mayo Clinic Florida
11:00 a.m.	Discussion
11:05 a.m.	Cilia as a biomarker of vascular health Ramani Ramchandran, Ph.D., Medical College of Wisconsin
11:25 a.m.	Discussion
11:30 a.m.	Microenvironment Dynamic role in Cancer role Hellmut Augustin, DVM, Ph.D., Heidelberg University
11:50 a.m.	Discussion
11:55 a.m.	Short Talk from Abstract (not accredited)
12:00 p.m.	Lunch
1:00 p.m.	Section IX: Special Keynote Lecture Chair: Asher Chanan-Khan, MD. Mayo Clinic Jacksonville
1:05 p.m.	Title TBA Arul M. Chinnaiyan, M.D., Ph.D., University of Michigan
1:30 p.m.	Discussion

1:35 p.m.	Section X: Microenvironment and Cell Therapy Chair: Hiren Banerjee, M.D., Elizabeth City State University, NC
1:40 p.m.	Title TBA Sanjay Misra, M.D., Mayo Clinic Rochester
2:00 p.m.	Discussion
2:05 p.m.	Endometriosis and Endometrial Cancer: Immune infiltrating cells Khashayarsha Khazaie, Ph.D., D.Sc., Mayo Clinic Arizona
2:25 p.m.	Discussion
2:30 p.m.	TNBC and immune therapy (Young Clinical Investigator Talk) Pooja Advani, M.D., Mayo Clinic Florida
2:45 p.m.	Discussion
2:50 p.m.	Coffee Break and Exhibits
3:20 p.m.	Section XI: Vascular-Immune biology and cell signaling Chair: Justilien Verline, Ph.D., Mayo Clinic Jacksonville
3:30 p.m.	Liver disease and its microenvironment Vijay Shah, M.D., Mayo Clinic Rochester
3:50 p.m.	Discussion
3:55 p.m.	Pancreatic Cancer and novel therapy Keping Xie, M.D. Ph.D., South China University of Technology School of Medicine
4:15 p.m.	Discussion
4:20 p.m.	Pancreatic Cancer in invasion (Young Investigator Talk) Gina Razidlo, Ph.D., Mayo Clinic Rochester
4:35 p.m.	Discussion
4:40 p.m.	Young Investigator Travel Award Talks from Abstracts (not accredited)
5:00 p.m.	Section XII: Virtual Poster Session and Reception and Dinner with Cultural Program
	ADJOURN – End of Day 2
Saturday, December 7, 2024	
7:00 a.m.	Continental Breakfast and Registration
8:00 a.m.	Section XIII: Developing precision therapy targeting microenvironment-immune pathways from preclinical to clinical steps. Chair: Roxana Dronca, M.D., Ph.D., Mayo Clinic Florida
8:10 a.m.	TFields and pancreatic cancer Hani M. Babiker, M.D., Mayo Clinic Florida
8:30 a.m.	Discussion
8:35 a.m.	Preclinical to Clinical trial in renal cancer Al Copland, Ph.D., Mayo Clinic Florida
8:55 a.m.	Discussion
9:00 a.m.	Title TBA Azra Raza, M.D., Columbia University
9:20 a.m.	Discussion
9:25 a.m.	Title TBA Lewis R. Roberts, M.B., Ch.B., Ph.D., Mayo Clinic Rochester
9:45 a.m.	Discussion
9:50 a.m.	Coffee Break and Exhibits

10:20 a.m.	CAR-T cell therapy in solid tumors Hong Qin, M.D., Ph.D., Mayo Clinic Florida
10:40 a.m.	Discussion
10:45 a.m.	Immune Therapy Clinical Trials and outcomes Keith L. Knutson, Ph.D., Mayo Clinic Florida
11:05 a.m.	Discussion
11:10 a.m.	Section XIV: Folkman Lectureship Forum: New Horizon of Cancer Diagnostic and Therapy Chairs: Alfredo Quiñones-Hinojosa, M.D., Mayo Clinic Florida Vijay Shah, M.D., Mayo Clinic Rochester
11:20 a.m.	Title TBA Chad Mirkin, Ph.D., Northwestern University
11:55 p.m.	Discussion
12:10 p.m.	Overview of the symposium Asher Chanan-Khan, M.D. and Dev Mukhopadhyay, Ph.D., Mayo Clinic Florida
12:20 p.m.	Vote of Thanks Dev Mukhopadhyay, Ph.D., Mayo Clinic Florida
12:30 p.m.	ADJOURN – End of Day 3