

**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, Registration and Exhibits
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 Comprehensive Cancer Center Asher Chanan-Khan, MD. Mayo Clinic Jacksonville Vijay Shah, M.D., Mayo Clinic Florida
1:30 p.m.	Section III: Vascular-Immune biology and cell signaling. Chair: Justilien Verline, Ph.D., Mayo Clinic Jacksonville
1:35 p.m.	Pancreatic cancer tumor microenvironment Daniel D. Billadeau, Ph.D., Mayo Clinic Rochester
1:55 p.m.	Discussion
2:00 p.m.	Pancreatic Cancer and novel therapy Keping Xie, M.D. Ph.D., South China University of Technology School of Medicine
2:20 p.m.	Discussion
2:25 p.m.	Pancreatic Cancer in invasion (Young Investigator Talk) Gina Razidlo, Ph.D., Mayo Clinic Rochester
2:40 p.m.	Discussion
2:45 p.m.	Young Investigator Travel Award Talks from Abstracts (not accredited)
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.	Liver disease and its microenvironment Vijay Shah, M.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 the Martin and Winifred Ehlers fund for Molecular Research) Health Disparities in Cancer Research and Care – Gaps and Opportunities Chair: Cheryl L. Willman, M.D., Mayo Clinic Comprehensive Cancer Center Jennifer J. Westendorf, Ph.D., Mayo Clinic Rochester Panelists: Kim M. Barbel Johnson, D.O., M.P.H., Mayo Clinic Florida Lewis R. Roberts, M.B., Ch.B., Ph.D., Mayo Clinic Rochester Folakemi T. Odedina, Ph.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, Registration and Exhibits
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.	Ultrasml 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.	The interplay between LMO1-overexpressing neuroblastoma cells and macrophages contributes to tumor metastasis (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.	Endothelial Cilia: Unexpected Roles in Vascular Biology 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 James C. and Sarah K. Kennedy Dean of Research Professorship 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 X: GBM Microenvironment and novel therapeutics Chair: Alfredo Quiñones-Hinojosa, M.D., Mayo Clinic Florida
3:30 p.m.	Title TBA Mitchel Berger, M.D., Ph.D., UCSF
3:50 p.m.	Discussion
3:55 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
4:15 p.m.	Discussion
4:20 p.m.	Title TBA Panagiotis Z. Anastasiadis, Ph.D., Mayo Clinic Florida
4:35 p.m.	Discussion
4:40 p.m.	Targeting the Development of Resistance to Stem-Cell Active Drugs in Glioblastoma Steven Rosenfeld, M.D., Ph.D., Mayo Clinic Florida
5:00 p.m.	Discussion
5:00 p.m.	Section XI: 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, Registration and Exhibits

8:00 a.m.	Section XII: Developing precision therapy targeting microenvironment-immune pathways from preclinical to clinical steps. Chair: Name TBA Name TBA
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 XIII: Joseph Austin McCartney and Ruth McCartney Hauck Named Visiting Professorship Lecture 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