

# 9th Mayo Clinic Symposium on Immuno-Oncology and Tumor Microenvironment Crosstalk

## Friday, October 30, 2020

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7:00 a.m. 8:00 a.m.	Continental Breakfast and Registration Section I: Mini-Symposium - Nanotechnology Chairs - Priyabrata Mukherjee, Ph.D. and Santanu Bhattacharya, Ph.D.
8:05 a.m.	Aiming to Push Forward Novel Micro/Nanoscaled Technologies for the Purpose of Minimally Invasive Therapeutics  Ali Khademhosseini, Ph.D., UCLA Samueli School of Engineering,  California, Los Angeles
8:25 a.m.	Discussion
8:30 a.m.	HURying for Cancer Therapy Rajagopal Ramesh, Ph.D., University of Oklahoma
8:50 a.m.	Discussion
8:55 a.m.	Probing Cellular Processes Using Engineered Nanoparticles Priyabrata Mukherjee, Ph.D., Stephenson Cancer Center
9:15 a.m.	Discussion
9:20 a.m.	Theranostic Nanoparticles Targeting Both Tumor and Stromal Cells for the Treatment of Drug Resistant Cancer Lily Yang, M.D., Ph.D., Emory University, GA
9:40 a.m.	Discussion
9:45 a.m.	Targeting The Microenvironment in Liver Metastasis of Colorectal Cancer Leaf Huang, Ph.D. UNC Eshelman School of Pharmacy, Chapel Hill, NC
10:05 a.m.	Discussion
10:10 a.m.	Coffee Break
10:30 am.	Transdermal, Oral and Targeted Drug Delivery Systems Samir Mitragotri, Ph.D. Harvard University, MA
10:50 a.m.	Discussion Discussion
10:55 a.m.	Nanoparticles in Cancer Radiotherapy – Updates and Future Visions Sunil Krishnan, M.D. Ph.D., Mayo Clinic Jacksonville, FL
11:15 a.m.	Discussion
11·20 a m	Short Talk- Abstract Presentation

11.30 a.m.	Short Talk- Abstract Presentation
11:40 a.m.	Short Talk- Abstract Presentation
11: 50 p.m.	Adjourn and Lunch Break
12:50 p.m.	Section II: Welcome and Introduction Angiogenesis and Tumor Microenvironment Symposium Asher Chanan-Khan, M.D., Mayo Clinic Jacksonville
12:55 p.m.	Pre-Plenary Assessment Utilizing Audience Response
1:10 p.m.	Joseph Austin McCartney and Ruth McCartney Hauck Named Visiting Professorship Lecture Chair: Mayo Clinic Cancer Center Director
1:15 p.m.	Available at a Later Date  Hauck Proffesorship Lecture
1:40 p.m.	Discussion Discussion
1:55 p.m.	Section III: Vascular Biology and Cell Signaling Chair: Ying Wang, M.D., Ph.D., Mayo Clinic Jacksonville
2:00 p.m.	Targeting Pancreatic Cancer Cells and Stellate Cells Using Designer Nanotherapeutics in Vitro
2:20 p.m.	Resham Bhattacharya, Ph.D., Oklahoma Discussion
2:25 p.m.	Angiopoietin/Tie Signaling: Still an Attractive Therapeutic Target?  Augustin Hellmut, Ph.D., Heidelberg University
2:45 p.m.	Discussion
2:50 p.m.	Vascular-neural interface in development and disease Ramchandran Ramani, Ph.D., Medical College of Wisconsin Milwaukee, Wi
3:10 p.m.	Discussion
3:15 p.m.	Coffee Break
3:35 p.m.	Mechanisms of Blood & Lymphatic Angiogenesis  Laura Benjamin, Ph.D., University of Pennsylvania
3:55 p.m.	Discussion
4:00 p.m.	Harnessing the information in cancer exosomes for novel cardiac repair mechanisms.  Ke Cheng, Ph.D., North Carolina State University, Raleigh, North Carolina
4:20 p.m.	Discussion

Partners in Crime: Brain Tumor Stem Cells and the Microenvironment 4:25 p.m. Gangjian Qin, M.D., The University of Alabama at Birmingham 4:45 p.m. Discussion 4:50 p.m. Short Talk- Abstract Presentation 5:00 p.m. Short Talk- Abstract Presentation 5:10 p.m. Adjourn

5:15-7:00 p.m. Section IV: Poster Session and Reception

10:10 a.m. Coffee Break

Saturday, October 31, 2020				
7:00 a.m.	Continental Breakfast and Registration			
8:00 a.m.	Section V: Tumor Microenvironment Crosstalk and Cancer Stemness in GBM Chair: Subrata Sinha M.D., Ph.D.; FAMS FNA FASc FNASc., Indian National Science Academy, India			
8:05 a.m.	When Less is More: Dexamethasone Dosing for Brain Tumors David Reardon, M.D., Dana Farber Cancer Institute			
8:25 a.m.	Discussion			
8:30 a.m.	Reconstructing Tumor Vessels for Cancer Therapy Gabriele Bergers, M.D., Ph.D., Vib-Ku Leuven Center for Cancer Biology			
8:50 a.m.	Discussion			
8:55 a.m.	Epigenetic Regulation of Glioma Angiogenesis and Growth Suyun Huang, M.D. Ph.D., Virginia Commonwealth University			
9:15 a.m.	Discussion			
9:20 a.m.	A Deadly Conversation: Cancer Stem Cells and the Microenvironment <i>Jeremy Rich, Ph.D., Cleveland Clinic</i>			
9:40 a.m.	Discussion			
9:45 a.m.	"Go and Grow" in Glioblastoma Steven Rosenfeld, M.D., Ph.D., Mayo Clinic Jacksonville			
10:05 a.m.	Discussion			

Section VI: Cross-Talk Between Tumor and Stroma for Targeting 10:35 a.m. Derek Radisky, Ph.D., Mayo Clinic Jacksonville Chairs:

10:40 a.m.	Theranostic Nanoparticles Targeting Both Tumor and Stromal Cells for the Treatment of Drug Resistant Cancer  Ming-Hui Zou, Ph.D., Georgia State University, Atlanta, GA
11:00 a.m.	Discussion
11:05 a.m.	New Avenues for the Development of Novel and Effective Pharmacological Therapeutic Approaches for Human Diseases
11:25 a.m.	Arduino Mangoni, M.D., Ph.D., Flinders University, Australia Discussion
11:30 a.m.	Understanding the Behavior of Mitochondria is Controlled in Cells Y. Eugene Chen, M.D., Ph.D., University of Michigan
11:50 p.m.	Discussion
11:55 p.m.	Lunch
Section VII	: Onocogenesis and novel therapeutics
Chair:	Panagiotis Z. Anastasiadis, Ph.D., Mayo Clinic Jacksonville
11:55 p.m.	Keynote Talk Defining the Complex Functions of the MYC Oncogene, Identifying Key Domains Mediating Myc Transcription Activity Chi Van Dang, M.D. Ph.D., The Wistar Institute, PA
1:45 p.m.	Discussion
1:50 p.m.	Protein Kinase Ciota: Oncogene and Therapeutic Target Alan Fields, Ph.D., Mayo Clinic, Florida
2:10 p.m.	Discussion
2:15 p.m.	Ntanoparticles in Radiation Oncology – the Road Traveled, the Road Ahead <i>Eduardo Chini, M.D., Ph.D., Mayo Clinic Rochester</i>
2:35 p.m.	Discussion
2:40 p.m.	Syncope: A Mindful and Systematic Approach Jordan (Chris) C. Ray, M.D., Mayo Clinic Jacksonville, FL
3:00 p.m.	Discussion Discussion
3:05 p.m.	Young Investigator Talk – abstract presentation
3:20 p.m.	<u>Young Investigator Talk</u> – abstract presentation
3:35 p.m.	Coffee Break
4:00 p.m.	Section VIII: Microenvironment and Disease Progression Chairs: Baoan Ji, M.D., Ph.D. Mayo Clinic Jacksonville

4:10 p.m.	Unexpected Contribution of Lymphatic Vessels to Promotion of Distant Metastatic Tumor Spread
4:30 p.m.	Michael Detmar, M.D., Swiss Federal Institute of Technology Discussion
4:35 p.m.	Mechanisms of Lymphangiogenesis and Lymphatic Valve Formation Tsutomu Kume, Ph.D., Northwestern University, IL
4:55 p.m.	Discussion
5:00 p.m.	Ceramide Restoration with Ant Venom Derived Solenopsin Analogs as Anti-Inflammatory and Anti-Neoplastic Strategies Rodionov Roman M.D., Ph.D., Technische Universität Dresden, Germany
5:20 p.m.	Discussion
5:30 p.m.	Section VIII: Poster Session and Reception
6:30 p.m.	Section IX: Travel Scholarships/Oral Presentations and Dinner Chairs: Vijay Shah and Tushar Pal Travel Award Winners
	Young Faculty Scholarship Winners

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## Sunday, November 1, 2020

Continental Breakfast and Registration
Section XI: Precision Therapy Targeting Microenvironment and Clinical Outcomes Chair: John A. Copland, Ph.D. Mayo Clinic Jacksonville
Chair. John A. Copiana, 1 n.D. Mayo Clinic Jacksonville
Disruption of the Immunosuppressive Microenvironment in Mantle Cell Lymphoma with Bromodomain Inhibitors
Eduardo Sotomayor M.D., George Washington Cancer Center
Discussion
Angiocrine Signaling in Liver
Vijay Shah, M.D., Mayo Clinic Rochester
Discussion
Understanding the Immune System Using Genetic Knockout Models and in Vitro Human Cell Systems with an Emphasis on T cell and NK Cell Biology
Dan Billadeau, Ph.D., Mayo Clinic, Rochester
Discussion
Ceramide Restoration with Ant Venom Derived Solenopsin Analogs as

Anti-Inflammatory and Anti-Neoplastic Strategies *Jack Arbiser, M.D Ph.D., Emory University School of Medicine* 

9:45 a.m. Discussion

9:50 a.m. **Coffee Break** 

10:05 a.m. Vaccines for the Treatment and Prevention of Cancer *Keith L. Knutson, Ph.D., Mayo Clinic Jacksonville* 

10:25 a.m. Discussion

10:30 a.m. Modeling Tumor Vascular Integrity and the Tumor Microenvironment *Michelle Bradbury M.D., Ph.D., Memorial Sloan Kettering Cancer Center* 

10:50 p.m. Discussion

10:55 a.m. **Section XII:** 

Folkman Lectureship Forum

New Horizon of Cancer Research: from Biomarker Discovery to Therapy

Moderators: Jack Arbiser, M.D., Ph.D., Emory University School of Medicine Kabir Mody, M.D., Mayo Clinic Jacksonville

Panel members: Kenechi Takeshita, M.D. Ph.D., Saranto/ Kite Pharma Biotechnology

Santa Monica, California ·

Asher Chanan-Khan, M.D., Mayo Clinic Jacksonville Keith L. Knutson, Ph.D., Mayo Clinic Jacksonville

Subrata Sinha M.D., Ph.D.; FAMS FNA FASc FNASc., Indian National

Science Academy, India

### **Section XIII:**

12:25 p.m. Post-Plenary Assessment Utilizing Audience Response Dev Mukhopadhyay, Ph.D., Mayo Clinic Jacksonville

12:35 p.m. **Vote of Thanks** 

Leslie Cooper M.D., Mayo Clinic Jacksonville

12:40 p.m. **Adjourn**