Friday, October 30, 2020

7:00 a.m.  Continental Breakfast and Registration
8:00 a.m.  **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 Samuei 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

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 Professorship Lecture
1:40 p.m. 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
Resham Bhattacharya, Ph.D., Oklahoma
2:20 p.m. 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
4:25 p.m. Partners in Crime: Brain Tumor Stem Cells and the Microenvironment  
*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**

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**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  
*Jeremy Rich, Ph.D., Cleveland Clinic*

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

10:10 a.m. Coffee Break

10:35 a.m. **Section VI: Cross-Talk Between Tumor and Stroma for Targeting**  
*Chairs: Derek Radisky, Ph.D., Mayo Clinic Jacksonville*
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  
Arduino Mangoni, M.D., Ph.D., Flinders University, Australia

11:25 a.m.  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*

**Keynote Talk**

11:55 p.m.  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 C iota: Oncogene and Therapeutic Target  
Alan Fields, Ph.D., Mayo Clinic, Florida

2:10 p.m.  Discussion

2:15 p.m.  Nanoparticles in Radiation Oncology – the Road Traveled, the Road Ahead  
Eduardo Chini, M.D., Ph.D., Mayo Clinic Rochester

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

3:05 p.m.  Young Investigator Talk – abstract presentation

3:20 p.m.  Young Investigator Talk – 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  
*Michael Detmar, M.D., Swiss Federal Institute of Technology*

4:30 p.m. 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**

7:00 a.m. Continental Breakfast and Registration

8:00 a.m. **Section XI: Precision Therapy Targeting Microenvironment and Clinical Outcomes**  
*Chair: John A. Copland, Ph.D. Mayo Clinic Jacksonville*

8:10 a.m. Disruption of the Immunosuppressive Microenvironment in Mantle Cell Lymphoma with Bromodomain Inhibitors  
*Eduardo Sotomayor M.D., George Washington Cancer Center*

8:30 a.m. Discussion

8:35 a.m. Angiocrine Signaling in Liver  
*Vijay Shah, M.D., Mayo Clinic Rochester*

8:55 a.m. Discussion

9:00 a.m. 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*

9:20 a.m. Discussion

9:25 a.m. 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