

# BioInnovations in Brain Cancer Symposium

University of Michigan, Ann Arbor  
September 30-October 1, 2022

Friday, September 30

*Shuttle services will be provided to bring participants from the Double Tree by Hilton Ann Arbor North and the Hampton Inn Ann Arbor-North to campus. Instructions on pickup times will be provided to guests at the hotel check-in*

Location: Biomedical Science Research Building (BSRB) and Palmer Commons

<b>7:30 – 8:30 AM</b>	<b>Check-in and Breakfast</b> ( <i>BSRB ABC Seminar Room</i> )	
<b>8:30 – 12:15 PM</b>	<b>Session I</b> ( <i>BSRB Kahn Auditorium</i> )	<b>Moderator: Maria Castro</b>
8:30 – 8:45	Welcome Address	Steve Schwendeman & Maria Castro
8:50 – 9:20	An update on therapeutic challenges for glioblastoma	David Reardon
9:25 – 9:55	Glioblastoma remodeling of neural circuits decreases survival	Shawn Hervey-Jumper
10:00 – 10:30	“The Undoing:” The Demise of the T cell Amidst GBM	Peter Fecci
10:30 – 10:50	<i>Coffee Break</i>	
10:50 – 11:05	HOXD13 Gene Plays a Role as a Putative Master Epigenetic Regulator in Glioma Recurrence and Progression	Natalia Morosini
11:10 – 11:40	Innovative Neoadjuvant Strategies to Understand the Anti-tumor Immune Response in GBM	Robert Prins
11:45 – 12:15	Principles of Epigenetics and Chromatin in Development and Human Disease	Ali Shilatifard
<b>12:20 – 1:25PM</b>	<b>Boxed Lunch</b> ( <i>Palmer Commons – Windows Lounge 3<sup>rd</sup> Floor</i> )	
<b>1:30 – 5:30PM</b>	<b>Session II</b> ( <i>BSRB Kahn Auditorium</i> )	<b>Moderator: Pedro Lowenstein</b>
1:30 – 2:30	Innovations in Brain Tumor Therapy in the Precision Medicine Era	<b>Keynote Speaker</b> Steve Kalkanis
2:35 – 3:05	High-resolution intravital microscopy reveals the plastic behavior of dormant cancer cells and their niches.	Javier Bravo-Cordero
3:10 – 3:40	The Role of Myeloid Subsets in Glioblastoma	Dolores Hambardzumyan
3:45 – 4:15	<i>Coffee Break</i>	

4:20 – 4:35	Rapid molecular classification of diffuse gliomas using optical imaging and artificial intelligence	Cheng Jiang
4:40 – 4:55	EGFR and SRC-Mediated Activation of STAT3 Drives Resistance to Mitotic Inhibitors in Glioblastoma, and can be Reversed With FDA-Approved Drugs	Steven Rosenfeld
5:00 – 5:30	Taking Advantage of Brain Tumor Pathology: Development and Translation of Hydroxyl Dendrimer-based TAM-targeted Immunotherapeutic strategies	Kannan Rangaramanujam
<b>5:35 – 7:45PM</b>	<b>Poster Session and Vendor Exhibition</b> Palmer Commons – Great Lakes Room <i>Complimentary Reception during poster session</i>	

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Saturday, October 1

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Location: Biomedical Science Research Building (BSRB) and Palmer Commons

<b>7:30 – 8:30 AM</b>	<b>Breakfast</b> (BSRB ABC Seminar Room)	
<b>8:30 – 12:40PM</b>	<b>Session III</b> (BSRB Kahn Auditorium)	<b>Moderator:</b> <b>Steve Schwendeman</b>
8:30 – 9:00	Targeted DNA Modification: A new paradigm to exploit DDR defects in glioma and beyond...	Ranjit Bindra
9:05 – 9:35	Delivering therapeutic proteins across the blood-brain barrier for neurodegenerative diseases, lysosomal storage disorders and brain cancer	Robert Thorne
9:40 – 10:10	Plexins are regulators of membrane dynamics that drive invasion of brain tumors	Roland Friedel
10:15 – 10:45	Oncolytic HSV Therapy for Brain Tumors	Balveen Kaur
10:45 – 11:05	<i>Coffee break</i>	
11:05 – 11:35	Advancing Bi-Specific T Cells Engagers for Treatment of Brain Tumors	Irina Balyasnikova
11:40 – 12:40	Non-invasive drug and gene delivery to the brain	<b>Keynote Speaker</b> Justin Hanes
<b>12:45 – 1:45PM</b>	<b>Boxed Lunch and Poster Viewing</b> (Palmer Commons: Windows)	

Lounge 3<sup>rd</sup> Floor)

**1:50 – 5:30PM**

**Session IV** (BSRB Kahn Auditorium)

**Moderator:**  
**Anna Schwendeman**

1:50 – 2:20	Focused ultrasound-brain interface for brain cancer diagnosis and treatment	Hong Chen
2:25 – 2:55	Novel Nanoparticle-based Imaging Techniques in Diverse Pathologies	Ananth V. Annapragada
3:00 – 3:15	Isolation and Molecular Characterization of Extracellular Vesicles in Glioblastoma Patients using Microfluidic Devices (GlioExoChip)	Abha Kumari
3:20 – 3:35	Development of personalized RNA-based immunotherapeutics for glioblastoma and their treatment efficacy in preclinical models	Vrunda Trivedi
3:35 – 3:55	<i>Coffee Break</i>	
3:55 – 4:25	Targeting phagocytosis as a novel strategy for cancer immunotherapy	Betty Kim
4:30 – 5:00	Advancing Brain Cancer Care: Cell Therapies to Living Tissue Platforms	Shawn Hingtgen
5:05 – 5:35	Engineering therapeutic immunity to glioblastoma through the intracranial delivery of chemoimmunotherapy using adhesive hydrogels	Natalie Artzi
5:35 – 5:45	Closing Statement	Steve Schwendeman & Maria Castro
<b>6:00 – 9:30PM</b>	<b>Sponsored Social Event</b> ( <i>The Pretzel Bell, 226 S. Main St., Ann Arbor, MI 48105</i> )	

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