# Cancer Dynamics: Modeling and Experiment Workshop Schedule

#### Monday, May 9<sup>th</sup> THEME: Avascular Tumor Growth

9:00 – 9:15	Welcome Opening Remarks	Conference Organizers L. Sander & T. Jackson
9:15 – 10:00	Stability/Instability of dormant tumors	Avner Friedman Ohio State University
10:00 – 10:45	Mathematical modeling for dormant pre-angiogenic tumors	Khalid Boushaba Iowa State University
10:45 – 11:15	Coffee Break	
11:15 – 12:00	Ductal Carcinoma in Situ: Modelling in the Dark	Helen Byrne U. of Nottingham
12:00 – 1:30	Lunch	
1:30 – 2:15	Solid Tumor Growth: A Multiscale Cellular Model	Yi Jiang Los Alamos Nat'l Lab
2:15 – 3:00	A Glioma Cell's Strategy for Malignanat Invasion	Tim Demuth TGEN
3:00 – 3:30	Wrap Up/ Question and Answer Period	

### Tuesday, May 10<sup>th</sup> THEME: Treatment and Suppression

8:15 – 11:15	Trip to Detroit Institute of Arts	
11:15 – 1:00	Lunch	
1:00 – 1:45	Modeling Cancer Treatment: Mixed Immuno-Chemo-Vaccine Therapy Strategies.	Lisette de Pillis Harvey Mudd College
1:45 – 2:30	Differentiation as a Tumor Suppressor Mechanism	Carlo Maley The Wistar Institute
2:30 – 3:15	Multiscale Cancer Modeling: Introducing CViT	Thomas Diesboeck Harvard University
3:15 – 4:00	Wrap Up/ Question and Answer Period	

## Wednesday, May 11<sup>th</sup> THEME: Brain Tumors-Growth Patterns and Cellular Dynamics

9:00 - 9:15am	Announcements Opening Remarks	Conference Organizers L. Sander & T. Jackson
9:15 – 10:00am	TBA	David Vader Harvard University
10:00 – 10:45am	TBA	Cliff Brangwynne Harvard University
10:45 – 11:15am	Coffee Break	
11:15 – 12:00pm	The Glioma Spheroid Invasion Model: New Tools and New Therapeutic Insights	Sean Lawler Ohio State University
12:00 – 1:30pm	Lunch	
1:30 – 2:15pm	Dynamics and Pattern Formation of Invasive Tumor Growth	Evgeniy Khain University of Michigan
2:15: - 3:00pm	Clinical Applications of Quantitative Modeling for Invasive Gliomas	Kristin Swanson Univ. of Washington
3:00 – 3:30pm	Wrap Up/ Question and Answer Period	

#### Thursday, May 12<sup>th</sup> THEME: Vasculogenesis and Angiogenesis

9:00 – 9:15	Announcements Opening Remarks	Conference Organizers L. Sander & T.Jackson
9:15 – 10:00	Role of Bcl-2 in Tumor Angiogenesis: Biological Studies	Jacques Nor University of Michigan
10:00 – 10:30	Role of BCl2 in Tumor Angiogenesis: Mathematical Studies	Harsh Jain University of Michigan
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Mathematical Modelling of Cell Motion in Application to Angiogenesis	Brian Sleeman University of Leeds
12:00 – 1:30	Lunch	
1:30 – 2:15	Modelling Vasculogenesis	Luigi Preziosi Politecnico di Torino
2:15 – 3:00	Chemotaxis and Strain in Vasculogenesis: A Unified View	Davide Ambrosi Politecnico di Torino
3:00 – 3:30	Coffee Break	
3:30 – 4:15	Nonlinear Simulation of Angiogenesis and Solid Tumor Growth	John Lowengrub UC Irvine
4:15 – 5:00	Wrap Up/ Question and Answer Period	

### Friday, May 13<sup>th</sup> THEME: Vascular Tumor Growth and Metastasis

9:00 - 9:15	Announcements Opening Remarks	Conference Organizers L. Sander & T. Jackson
9:15 – 10:00	Multi-scale Modelling in Vascular Tumors	Philip Maini Oxford University
10:00 – 10:45	Wrap Up / Closing Remarks	