

| <b>THURSDAY, MARCH 18</b> |  |
|---------------------------|--|
| 8:30-8:55                 | Continental Breakfast  |
| 8:55-9:00                 | Welcome, J. Steprans, V. Quaranta, S. Sivaloganathan   |
| 9:00-9:45                 | <b>T. Mak</b> (UHN, UToronto)<br><i>Blocking Oncogenes to Cure Cancer: Is the Paradise Lost?</i>   |
| 9:50-10:20                | <b>D. Tyson</b> (Vanderbilt)<br><i>An EMG model of cell cycle time variability in cancer developed from large datasets of single-cell measurements</i> |
| 10:25-10:45               | Coffee Break   |
| 10:45-11:30               | <b>A. Chakraborty</b> (MIT)<br><i>Regulation of Ras signaling in lymphocytes</i>   |
| 11:35-12:05               | <b>S. Singh</b> (McMaster)<br><i>Brain Tumour Initiating Cells: Why the Cancer Stem Cell Hypothesis matters to patients with brain tumours</i>         |
| 12:10-2:10                | Lunch Break  |
| 2:10-2:40                 | <b>M. Milosevic</b> (PMH, Toronto)<br><i>Individualized, Adaptive Radiotherapy: The Next Frontier in Radiation Medicine</i>                            |
| 2:45-3:15                 | <b>L. Munn</b> (Harvard)<br><i>Modeling tumor blood vessel dynamics</i>  |
| 3:20-3:40                 | Coffee Break   |
| 3:40-4:10                 | <b>S. Haase</b> (Duke)<br><i>Cycling Without Cyclins: New Views on the Cell Cycle Oscillator</i>   |
| 4:15-4:45                 | <b>S. Mani</b> (M.D. Anderson Cancer Center, Houston)<br><i>Links between stem cells and EMT: A new turn in cancer initiation and progression</i>      |
| 5:00-6:00                 | Reception  |

| <b>FRIDAY, MARCH 19</b> |  |
|-------------------------|--|
| 8:30-9:00               | Continental Breakfast  |
| 9:00-9:45               | <b>J. Tyson</b> (Virginia Tech)<br><i>Mathematical Models of the Molecular Networks that Regulate Cell Growth, Division and Death</i>              |
| 9:50-10:20              | <b>C. Drapaca</b> (Penn State)<br><i>An Elastography – Mass Spectroscopy Coupling Model for Tumors' Classification</i>                             |
| 10:25-10:45             | Coffee Break   |
| 10:45-11:30             | <b>H. Bolouri</b> (Caltech)<br><i>The potential impact of inter-individual genomic variations on disease susceptibility and treatment response</i> |
| 11:35-12:05             | <b>M. Foldvari</b> (Waterloo)<br><i>Non-viral Gene Delivery Systems based on Gemini Nanoparticles</i>  |
| 12:10-2:10              | Lunch Break  |
| 2:10-2:40               | <b>S. Sengupta</b> (MIT)<br><i>Nanomedicine in Cancer Therapy</i>  |
| 2:45-3:15               | <b>G. Ostheimer</b> (MIT)<br><i>To Sleep or Die: Cell Fate after Chemotherapy</i>  |
| 3:20-3:40               | Coffee Break   |
| 3:40-4:10               | <b>L. Sander</b> (UMichigan)<br><i>Brain tumor invasion: cell motility, network structure, and the spread of glioma</i>                            |
| 4:15-4:45               | <b>S. Agarwal</b> (MIT)<br><i>Gene Prioritization Using Ranking Methods in Machine Learning: A New Computational Approach</i>                      |



SCHEDULE 1.1

| SATURDAY, MARCH 20       |   |
|--------------------------|---|
| 8:30-9:00                | Continental Breakfast   |
| 9:00-9:30                | <b>J. Tuszynski</b> (Cross Cancer Institute)<br><i>Targeting DNA repair pathways to improve cancer therapies</i>                                |
| 9:35-10:05               | <b>H. Molavian</b> (Waterloo)<br><i>New insight on cell metabolism and the relationship between hypoxia and acidity in solid tumors in vivo</i> |
| 10:10-10:40              | <b>T. Huzil</b> (Waterloo)<br><i>Atomistic Simulation of Receptor-Ligand Interactions</i>   |
| 10:45-10:50              | Closing Remarks, S. Sivaloganathan  |
| 10:50-11:10              | Coffee Break & End of Meeting   |
| <i>End of Conference</i> |   |