

PROGRAM

CANCER IMAGING WORKSHOP

Pre-Clinical Animal Imaging in London

Wednesday, May 17, 2006

Best Western Lamplighter Inn, Chelsea 1&2

591 Wellington Road S., London Ontario

- 08:00 Continental Breakfast
- 08:30 - 09:00 **Introduction to Cancer Imaging**
- Welcome and Aims for the Workshop (5 min)
Glenn Bauman, Director of Research, LRCP & Chair of Oncology, UWO
- Imaging Strengths in London (10 min)
Aaron Fenster, Director & Scientist, Imaging Research Laboratories, RRI
- Cancer Biology and Translational Research Through Animal Imaging (15 min)
Jim Koropatnick, Director, Cancer Research Laboratory Program, LRCP
- 09:00- 10:30 **Imaging Modalities in Cancer**
- Optical Imaging in Cancer: Intravital Videomicroscopy (15 min)
Ian MacDonald, Associate Professor, Depts Medical Biophysics & Oncology, UWO
- Optical Techniques for Molecular Imaging (15 min)
Ravi Menon, Scientist, Imaging Research Laboratories, RRI
- Magnetic Resonance Imaging (MRI) (20 min)
Brian Rutt, Physicist / Paula Foster, Scientist, Imaging Research Laboratories, RRI
- Ultrasound (20 min)
Jim Lacefield, Scientist, Imaging Research Laboratories, RRI
- Panel Discussion (20 min)
- 10:30 –10:45 **Break**
- 10:45 – 12:00 **Imaging Modalities in Cancer**
- Computed Tomography (CT) (20 min)
David Holdsworth, Scientist / Maria Drangova, Scientist, Imaging Research Laboratories, RRI
- Positron Emission Tomography (PET) / CT Perfusion (20 min)
Ting-Yim Lee, Scientist, Imaging Research Laboratories, RRI

Probe Development (20 min)

- Design, synthesis and evaluation of novel imaging probes
Len Luyt, Scientist, Cancer Research Laboratory Program, LRPC
- Pharmacology, imaging and regulatory requirements.
Pam Zabel, Scientist, Diagnostic Radiology & Nuclear Medicine, LHSC

Panel Discussion (15 min)

12:00 – 13:00 **Lunch**

13:00 – 14:45 **Operational Issues and Logistics**

Animal Sources and Facilities in London: inventory, animal housing, protocols (level 1 cancer imaging studies), transport of animals between facilities.

Gerry Kent, Director, Animal Care and Veterinary Services, UWO (30 min)

Biosafety and Radiation Safety Requirements: classification of research studies (BSL1, BSL2): zoonotic and human risks, routes of administration, training of staff working in imaging, containment standards.

Speaker TBD (30 min)

Imaging Facilities in London for Small Animal Research: access to sites, administration, costs involved, restrictions for use, protocols required.

Hemanth Varghese, Director, Pre-clinical Imaging, RRI (30 min)

Panel Discussion (15 min)

14:45 – 15:00 **Break**

15:00 – 15:45 **Clinical Imaging Facilities in London: Clinical Capabilities and Challenges of Clinical Imaging Research**

Nuclear Medicine (15 min)

Jean-Luc Urbain, Citywide Chief of Nuclear Medicine, St. Joseph's Health Care

Diagnostic Radiology (15 min)

Keith Sparrow, Radiologist, Diagnostic Radiology & Nuclear Medicine, LHSC

Clinical Applications of Advanced Imaging: Image Guided Radiotherapy (15 min)

Glenn Bauman, Director of Research, LRPC & Chair of Oncology, UWO

15:45 **Wrap Up**

Where do we want to go? Next steps to take to foster pre-clinical animal imaging for cancer research in London (seminar/workshop series, small grants seed funding program or studentships, problems to be solved, etc.).

Ann Chambers, Director, Pamela Greenaway-Kohlmeier Translational Breast Cancer Research Unit, LRPC

Wine (beer) & Cheese Reception