



2005 ACB Annual Research Meeting

November 8 - 10, 2005

Conquering Cancer Together

PROGRAM

Please note: all presentations are designed for a general science audience

All conference activities will be located in the Max Bell Building. Meals will take place in the Donald Cameron Hall main dining room, with the exception of the nutrition breaks.

Tuesday, November 8, 2005

- 4:30 p.m. Arrival & registration (Max Bell Building)
Charter bus service from Edmonton & Calgary has been arranged to arrive at approximately 4:30 p.m.
- Poster Set up Deadline** All posters must be up and on display by 7:00 p.m.
- 5:30 p.m. to 7:00 p.m. Buffet dinner (Donald Cameron main dining room)
- 7:00 p.m. to 7:05 p.m. Welcome and Introductory remarks (Max Bell Auditorium)
- Session #1: Proton Radiotherapy: Sponsored by Varian Medical Systems, Inc.** (Max Bell Auditorium)
Introduction: B.G. Fallone
- 7:05 p.m. to 7:50 p.m. **Baldev Patyal**, Chief Physicist, Loma Linda University Medical Center. "Clinical experience with proton therapy"
- 7:50 p.m. to 8:15 p.m. **Alfred Smith**, Director of Proton Therapy Development, MD Anderson Cancer Center. "Developing a proton therapy center"
- 8:15 p.m. to 11:00 p.m. Poster Presentations Session I and Reception
(Max Bell rooms 251, 252, 253)
Even Numbered Posters and TRTC Posters
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Wednesday, November 9, 2005

- 7:00 a.m. to 8:30 a.m. Buffet breakfast (main dining room)
- 8:30 a.m. to 12:00 noon Late registration (Max Bell Building)
- Session #2: Breast Cancer, Molecular Markers, and Herceptin** (Max Bell Auditorium)
Discussion Leader: John Mackey
- 8:30 a.m. to 9:30 a.m. **Michael Hendzel**, Cross Cancer Institute. "Cell imaging to study DNA damage and repair"
- 9:30 a.m. to 10:30 a.m. **Alexander Paterson**, Tom Baker Cancer Centre. "A review of bone metastases in breast cancer"
- 10:30 a.m. to 11:00 a.m. Nutrition Break (foyer)
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Session #3: Medical Application of the Light Source (Max Bell Auditorium)

Discussion Leader: B.G. Fallone

11:00 a.m. to 12:00 noon **Dean Chapman**, Canadian Light Source. "Research opportunities at the biomedical imaging and therapy beamline at the Canadian Light Source"

12:00 noon to 1:00 p.m. Buffet lunch (main dining room)

Session #4: Radiobiological Modelling (Max Bell Auditorium)

Discussion Leader: B. G. Fallone

1:00 p.m. to 2:00 p.m. **Brian Marples**, Karmanos Cancer Institute, Detroit. "Cell cycle responses to low-dose ionizing radiation"

2:00 p.m. to 3:00 p.m. **Peter Raaphorst**, University of Ottawa. "The impact of modern radiobiological findings in radiation therapy treatment planning"

3:00 p.m. to 3:30 p.m. Nutrition Break (foyer)

Session #5: DNA Damage and Repair (Max Bell Auditorium)

Discussion Leader: Susan Lees-Miller

3:30 p.m. to 4:00 p.m. **Susan Lees-Miller**, University of Calgary. "An overview of the cellular response to ionizing radiation"

4:00 p.m. to 5:00 p.m. **Daniel Durocher**, Samuel Lunenfeld Institute, University of Toronto. "Regulation of histone H2AX phosphorylation in response to DNA damage"

5:00 p.m. to 6:00 p.m. **Frank Jirik**, University of Calgary. "Methylguanine methyltransferase (MGMT): an evolutionarily ancient 'suicide' molecule capable of directly reversing DNA alkylation damage"

6:00 p.m. to 7:00 p.m. Buffet dinner (main dining room)

Session #6: Technologies in Biology (Max Bell Auditorium)

Discussion Leader: Michael Weinfeld

7:00 p.m. to 7:45 p.m. **Dennis Slamon**, UCLA. "Progress in molecularly targeted breast cancer therapy"

7:45 p.m. to 8:30 p.m. **Jack Tuszynski**, Allard Chair of Oncology, Cross Cancer Institute. "The role of computational biophysics in accelerating cancer drug discovery and development of novel therapies"

8:30 p.m. to 11:00 p.m. Poster Presentations Session II and Reception
(Max Bell rooms 251, 252, 253)
Odd Numbered Posters

Thursday, November 10, 2005

7:00 a.m. to 8:00 a.m. Buffet breakfast (main dining room)

Session #7: Nanotechnology (Max Bell Auditorium)

Discussion Leader: Carol Cass

8:00 a.m. to 9:00 a.m. **Robert Wolkow**, University of Alberta and NINT. "An intro to nanoscience: what we can do, likely will do, and won't ever do"

9:00 a.m. to 10:00 a.m. **Linda Pilarski**, Cross Cancer Institute. "Microfluidic devices for "real time" genetic monitoring of cancer"

10:00 a.m. to 10:30 a.m. Nutrition Break (foyer)

Session #8: Genetics and Cancer (Max Bell Auditorium)

Discussion Leader: Cyril Kay

10:30 a.m. to 11:15 a.m. **Stuart Kauffman**, University of Calgary. “Genetic regulatory network dynamics and cancer”

Session #9: Palliative Care Research (Max Bell Auditorium)

Discussion Leader: Tony Fields

11:15 a.m. to 12:00 noon **Vickie Baracos**, Cross Cancer Institute. “Cancer cachexia: revealing the causes of involuntary weight loss”

12:00 noon to 1:30 p.m. Buffet lunch (main dining room)

Session #10: Population Health (Max Bell Auditorium)

Discussion Leader: Karen Kopciuk

1:30 p.m. to 1:50 p.m. **Marcy Winget**, Population Health & Information, CCI. “NSCLC: The 2004 patient experience in Alberta”

1:50 p.m. to 2:10 p.m. **Karen Kopciuk and Sambasivarao Damaraju**, Population Health & Information, TBCC and CCI. “Discovering SNPs that are predictive of breast cancer risks and associated with specific steroid and growth factor receptors”

2:10 p.m. to 2:30 p.m. **Heather Bryant**, Population Health & Information, TBCC. “Predicted increases in colorectal cancer incidence related to HRT discontinuation”

2:30 p.m. to 3:00 p.m. Closing remarks

3:30 p.m. Charter bus service to Calgary/Edmonton departs from the Professional Development Building