



Golden Horseshoe 2007

Thursday August 30th

1:00-2:00 Lunch, provided outside MDCL 3023

Session 1: Neutron Radiobiology

2:00-2:15 Zhengfeng Liu

Neutron Study of Medium Transfer Bystander Effect for a Human Skin Cell Line

2:15-2:30 Jennifer Lemon

Variability of RBE in *in vivo* neutron irradiation.

2:30-2:45 David Chettle

Neutrons to analyse the chemical elemental composition of living human subjects.

2:45-3:00 Michael Joiner

Loss of effective dose by extended IMRT delivery times.

3:00-3:15 Amber Rinderknecht

Biodistribution in rat of Au nanoparticles as measured by neutron activation.

Discussion

3:30-4:00 Coffee Break

Session 2: Low Dose Effects

4:00-4:15 Jeff Bemis

Rapid Radiation Dose Assessment via a Hematotoxicity Matrix.



4:15-4:30 Rohan Kulkarni

Identification of Persistent Gene Expression Biosignatures for Acute Radiation Exposure.

4:30-4:45 Malathi Banda

Evaluation and validation of housekeeping genes in response to ionizing Radiation for normalizing RNA expression in real time PCR.

4:45-5:00 Lorna Ryan

Recent advances in bystander radiobiology.

5:00-5:15 Lurong Zhang

Plasma DNA as biomarker for radiation exposure.

Discussion

Friday August 31st

Session 3: DNA Repair- Clinical Biomarkers and Targets

9:00-9:20 Rob Bristow

Biomarkers in normal and malignant tissues

9:20-9:35 Ramya Kumareswaran

DNA repair foci under oxia and hypoxia: evidence for DNA repair deficiency in hypoxic cells.

9:35-9:55 Eva Christensen

Proteomics and prostate cancer in radiotherapy

Discussion

10:15 Coffee Break



Session 4: Imaging-Tumour and Normal Tissue

10:45-11:05 Fiona McNeill

In vivo Measurement of Trace Toxic Elements

11:05-11:25 Graeme Wardlaw

Dynamic Evaluation of Human Cancers Using Chaos and Fractal Models

11:25-11:45 Mike Noseworthy

In vivo Assessment of Metabolism With NMR Imaging

11:45-12:05 Bruce Fenton

Evaluation of vascular 'normalization' via image analysis of multi-stained immunohistochemical sections

12:05pm Discussion

How best to combine biomarkers and imaging to expand and refine both areas

