

High-Throughput Screens in Genome Integrity and Cancer

24-27 May 2010, Oxford, UK

Monday, 24th May 2010

12:00-12:30 Check-in at Mercury Gate Hotel, Oxford

13:00-14:00 Registration with Coffee/Tea (ORCRB* Atrium)

14:00-14:30 Welcome and Introduction: *Dr. Madalena Tarsounas*,
CR-UK/MRC Gray Institute for Radiation Oncology and Biology,
Oxford, UK (ORCRB)

14:30-15:30 Preparation meeting** (ORCRB Rm71) – Chair: Dr. Remko
Prevo

16:00-17:00 Opening lecture: *Dr. Daniel Durocher*, Samuel
Lunenfeld Research Institute, Toronto, Canada (RDB***)
Title: "Hunting for new regulators of genome stability in human cells
via RNA interference screens"

17:00-17:30 Coffee/Tea (RDB Atrium)

17:30-18:30 Discussion with Dr. Dan Durocher (RDB)

18:30 -19.30 Automated high-throughput screening, *Daniel Ebner* –
practical session at The CR-UK/MRC Gray Institute of
Radiation Oncology and Biology, Oxford (ORCRB Rm71)

19:30-22:00 Dinner (ORCRB Atrium) – sponsored by Perkin Elmer

Tuesday, 25th May 2010

9:00-9:30 Perkin Elmer – Introduction to JANUS Automated Workstation (ORCRB Atrium)

9:30-10:30 Preparation meeting (ORCRB Rm71) - Chair: Dr. Remko Prevo

10:30-11:00 Coffee/Tea with poster presentations (RDB Atrium)

11:00-12:00 Invited lecture: *Dr. Sergey Kuznetsov/Dr. Juha Rantala*, Institute for Molecular Medicine Finland (FIMM), University of Helsinki, Finland (RDB)
Title: "Integrative RNAi screening approaches using cell spot microarrays - functional review of DNA damage response in cancer cells"

12:00-13:00 Lunch with poster presentations (RDB Atrium) – sponsored by Chembridge

13:00-14:00 Discussion with Dr. Sergey Kuznetsov/Dr. Juha Rantala (RDB)

14:00-15:00 Short talks selected from submitted Abstracts (ORCRB Rm71):

F. Nikulenkov, Karolinska Institute, Sweden – "Genome-wide analysis of transcriptional activity of pharmacologically activated p53"

Shirley Li, University of Oxford, UK – "Chemical probes for epigenetic regulators"

Clemens Spinnler, Karolinska Institute, Sweden – "Uncovering p53's role in the regulation of Hdmx transcription"

15:00-16:00 Preparation meeting (ORCRB Rm71) - Chair: Dr. Bastiaan Evers.

16:00-17:00 Invited lecture: *Dr. Jos Jonkers*, The Netherlands Cancer Institute, Amsterdam, The Netherlands (ORCRB)
Title: "Target identification and validation in conditional mouse models of breast cancer"

17:00-17:30 Coffee/Tea (RDB Atrium)

17:30-18:30 Discussion with Dr. Jos Jonkers (RDB)

18:30-19:30 Short talks selected from submitted Abstracts (ORCRB Rm71):

Natalia Lukashchuk, Gurdon Institute, Cambridge, UK –
“Characterization of novel phosphorylation events in the response to DNA damage”

Viola Nähse, Oslo University, Norway – “Identification of unknown regulators of radiation-induced checkpoints by siRNA-based large scale screens”

Halfdan Beck, BRIC, Denmark – “High throughput siRNA screen uncovers regulators of cyclin-dependent kinases as crucial for maintaining genome integrity in S-phase”

20:00-23:00 Speakers and Cangenin members dinner at the Ashmolean Museum.

Wednesday, 26th May 2010

9:00-9:30 GE Healthcare: introduction to the INCell Analyser (ORCRB Atrium)

9:30-10:30 Preparation meeting (ORCRB Rm71) - Chair: Dr. Jose Escandell

10:30-11:00 Coffee/Tea with poster presentations (RDB Atrium)

11:00-12:00 Invited lecture: *Dr. Frank Buchholz*, Max-Planck-Institute-CBG, Dresden, Germany (RDB)

Title: "From RNAi screens to molecular function: a systematic pipeline for gene function in mammalian cells"

12:00-13:00 Lunch with poster presentations (RDB Atrium) – sponsored by GE Healthcare

13:00-14:00 Discussion with Dr. Frank Buchholz (RDB)

14:00-15:00 Short talks selected from submitted Abstracts (ORCRB Rm71):

Lorena Pereira, CNIO, Madrid, Spain – "Identification of p38MAPK synthetic lethal partners in cancer cell viability"

Ana Rita Carlos, Gray Institute, Oxford UK – "Identification of regulators of human RAP1 and TRF2 telomeric proteins using high-throughput screens"

Nick Pedley, Gray Institute, Oxford UK – "High-throughput screen for small molecule inhibitors of DNA mismatch repair"

15:00-16:00 Preparation meeting (ORCRB Rm71) -- Chair: Dr. Jose Escandell

16:00-17:00 Invited lecture: *Dr. Oscar Fernandez-Capetillo*, CNIO, Madrid, Spain (RDB Lecture Theatre)

Title: "High-throughput microscopy-mediated screening for inhibitors of DNA damage response kinases"

17:00-17:30 Coffee/Tea (RDB Atrium)

17:30-18:30 Discussion with Dr. Oskar Fernandez-Capetillo (RDB)

18:30 -19.30 INCell Analyzer: image acquisition and analysis in high-throughput screening, *Dr. Cecilia Lundin/Ana Rita Carlos* – practical session at The CR-UK/MRC Gray Institute of Radiation Oncology and Biology, Oxford (ORCRB Rm71)

Free evening

Thursday, 27th May 2010

9:30-10:30 Preparation meeting (ORCRB RM71) - Chair: Dr. Bastiaan Evers.

10:30-11:00 Coffee/Tea (RDB Atrium)

11:30-12:30 Invited lecture: *Prof. Thomas Helleday*, The CR-UK/MRC Gray Institute for Radiation Oncology and Biology, Oxford, UK (RDB)

Title: "RNAi library screens to identify novel DNA repair proteins"

12:00-13:00 Lunch (RDB Atrium)

13:00-14:00 PhD students discussion with Prof. Thomas Helleday (RDB)

*ORCRB, Old Road Campus Research Building

**Preparation meeting: during this session there will be presentations and discussions among participants on the speaker's research background.

***RDB, Richard Doll Building, Lecture Theatre