Radiation Break-through: from DNA damage responses to precision cancer therapy Programme

Oxford, UK

12 - 14 March 2018

Scientific Programme

Monday 12th March 2018

11:30 REGISTRATION
Wolfson College foyer
tea/coffee will be available in the Haldane Room

12:00 LIGHT LUNCH
Haldane Room

13:30 CONFERENCE WELCOME
Leonard Wolfson Auditorium
Scientific Programme Committee

13:35 SESSION 1 - DDR & DNA REPAIR
Session Chair: Jos Jonkers

13:35 OPENING LECTURE
Steve Jackson
University of Cambridge, UK
"Cellular responses to DNA damage: mechanistic insights and therapeutic applications"

14:20 **Alessandro A. Sartori**
University of Zurich, Switzerland
"Exploiting cell-penetrating peptide inhibitors of homologous recombination as research tools and as novel cancer therapeutics"

14:50 **Sylvie Noordermeer**
Leiden University Medical Centre, Netherlands
Proffered Paper 1: "Identification of the Shieldin complex as a novel effector of 53BP1-dependent DNA repair"

15:05 **Karlene Cimprich**
Stanford University School of Medicine, USA
"ATR couples DNA replication and mitosis through an S/G2 phosphorylation switch and transcription program"

15:35 COFFEE BREAK
Hall

16:05 **Anton Gartner**
University of Dundee, UK
Proffered Paper 2: "Massive C. elegans whole-genome sequencing for profiling mutational signatures associated with IR, carcinogens and DNA repair deficiency"

16:20 **Madalena Tarsounas**
CRUK/MRC Oxford Institute for Radiation Oncology, UK

"A pharmacological screen identifies drugs that selectively target BRCA1/2-deficiency and counteract drug resistance"

16:50 **Christian Reinhardt**
University Hospital Cologne, Germany
"Targeting defects in the DNA damage response to treat tumors driven by non-druggable oncogenes"

17:20 **Nina Gustafsson**
Karolinska Institute, Sweden
Proffered Paper 3: "Protecting the genome through metabolic enzymes"

17:35 EXHIBITOR INTRODUCTIONS
A fun session to introduce the companies who are exhibiting at the conference

17:45 WELCOME BUFFET AND DRINKS
Haldane Room & Hall
Opening of the trade exhibition

18:45 POSTER DEFENCE SESSION 1
The Haldane Room & Hall
until 20:45

Tuesday 13th March 2018

00:00 SESSION 3 - BIOMARKERS & TISSUE RESPONSES TO RADIATION (2)
Session Chair: Martin Pruschy

00:00 **Catharine West**
University of Manchester, UK
"Radiobiology Biomarkers for Precision Radiotherapy"

08:30 POSTER VIEWING
Haldane Room & Hall
Tea/coffee will be available

09:00 SESSION 2 - BIOMARKERS & TISSUE RESPONSES TO RADIATION (1)
Session Chair: Karlene Cimprich

09:00 **Jos Jonkers**
Netherlands Cancer Institute (NKI), Netherlands
"Identification of cancer drivers and mechanisms of therapy resistance in mouse models of BRCA-deficient breast cancer"

09:30 **Claus Sørensen**
BRIC, Denmark
"Cancer cell evasion of growth limits imposed by genotoxic stress"

10:00 **Flavie Coquel**
Institut de Génétique Humaine, France
Proffered Paper 4: "SAMHD1 acts at stalled replication forks to prevent ssDNA-mediated induction of type I interferons"

10:15 **Ludwig Dubois**
Maastricht University, Netherlands
"Radiotherapy and immunotherapy: partners in crime"

10:45 COFFEE BREAK
Hall

11:15 **Jason Parsons**
University of Liverpool, UK
Proffered Paper 5: "Complex DNA damage induced by high-LET protons triggers a specific cellular DNA damage response"

11:30 **Verena Jendrossek**
University of Duisburg-Essen, Germany
"Radiation-induced normal tissue toxicity: new insight from damage signaling and tissue-specific immune defense strategies"

12:00 SEATED LUNCH
Haldane Room & Buttery

14:00 **Anderson Ryan**
University of Oxford, UK
"The impact of DNA damage response (DDR) modulators on normal tissues following thoracic irradiation in preclinical models"

14:30 **Domenico Maiorano**
Institute of Human Genetics, France
Proffered Paper 6: "Targeting the RAD18 ubiquitin ligase enhances sensitivity to therapy by inhibiting cancer stem cells proliferation"

14:45 **Andrew Tutt**
The Institute of Cancer Research (ICR), UK
"Understanding genomic instability and targeting defective DNA damage responses in breast cancer"

15:15 MEET THE EXPERTS SESSION
with Madalena Tarsounas, Verena Jendrossek and Karlene Cimprich

16:00 POSTER DEFENCE SESSION 2
Haldane Room & Hall
until 18:00

19:00 CONFERENCE DINNER
Cherwell Boathouse
Pre-booked optional extra

Wednesday 14th March 2018

08:30 POSTER VIEWING
Haldane Room & Hall
Tea/coffee will be available

09:00 SESSION 4 - TRANSLATIONAL
Session Chair: Madalena Tarsounas

09:00 **Timothy Humphrey**
CRUK/MRC Oxford Institute for Radiation Oncology, UK
"Targeting histone H3K36me3-deficient cancers"

09:30 **Frank Pajonk**
UCLA, USA
"Cancer Therapies and Cancer Cell Plasticity"

10:00 **Olivier De Wever**
Ghent University, Belgium
Proffered Paper 7: "Radiotherapy-activated cancer-associated fibroblasts

promote tumor progression through paracrine IGF-1R activation"

10:15 COFFEE BREAK
Hall

11:00 **Brita Singers Sorensen**
Aarhus University, Denmark
"Implementation and Validation of a 15-Gene Hypoxia Classifier in Head and Neck Cancer"

11:30 **Martin Pruschy**
University Hospital Zürich, Switzerland
"Targeting the secretome as part of combined treatment modalities with radiotherapy"

12:00 CLOSING LECTURE
Amato Giaccia
Stanford University School of Medicine, USA
"Protecting normal tissue from DNA damage to enhance the efficacy of radiotherapy"

12:45 CLOSING SUMMARY
Poster Prizes and Meeting Bursaries will be presented by Verena Jendrossek

13:00 LUNCH & DEPART
Haldane Room