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

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

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