

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