

2017 LOUIS-JEANTET SYMPOSIUM

CMU - Centre Médical Universitaire, Rue Michel-Servet 1, 1206 Geneva - Auditorium A250

Tuesday, October 10 2017

THE GENETIC EVOLUTION OF CANCER

08:15 – 08:50 **Registration and welcome coffee**

08:50 – 09:00 **Dominique Soldati-Favre**

Vice-Dean of the Faculty of Medicine, University of Geneva
Opening

SESSION 1 The genetic evolution of cancer I

SESSION 1.1: 9:00 - 10:30

Chairperson: **Stephen West**

2007 Louis-Jeantet prize-winner
The Francis Crick Institute, London

Co-chairperson: **Patrick Meraldi**

Faculty of Medicine, University of Geneva

09:00 – 09:30 **Ketan Patel**

MRC Laboratory of Molecular Biology, Cambridge
Alcohol, Metabolism and Endogenous DNA damage

09:30 – 10:00 **Stephen West**

The Francis Crick Institute, London
Unresolved recombination intermediates as a source of
DNA breaks and chromosome aberrations

10:00 – 10:30 **Titia de Lange**

Rockefeller University, New York
Telomeres and genome instability in cancer

10:30 – 11:00 **Break**

SESSION 1.2: 11:00 – 12:30

11:00 – 11:30 **Thanos Halazonetis**

University of Geneva, Geneva
Mechanisms of oncogene-induced DNA
replication stress

11:30 – 12:00 **Jos Jonkers**

Netherlands Cancer Institute, Amsterdam
Genetic dissection of tumor development,
therapy response and resistance in mouse models of
BRCA-deficient breast cancer

12:00 – 12:30 **Jiri Lukas**

Novo Nordisk Foundation Center for Protein Research,
Copenhagen
Confinement, heritability and intrinsic limitations of
cellular responses to DNA replication stress

12:30 – 13:45 **Lunch**

SESSION 2 The genetic evolution of cancer II

SESSION 2.1: 13:45 – 15:15

Chairperson: **Mike Stratton**

2013 Louis-Jeantet prize-winner
Wellcome Trust Sanger Institute, Cambridge

Co-chairperson: **Ariel Ruiz i Altaba**

Faculty of Medicine, University of Geneva

13:45 – 14:15 **Núria López-Bigas**

Institute for Research in Biomedicine, Barcelona
Coding and non-coding cancer mutations

14:15 – 14:45 **Charles Swanton**

The Francis Crick Institute and UCL Hospitals,
London
Chromosomal order and chaos in lung cancer
evolution and immune surveillance

14:45 – 15:15 **Mike Stratton**

Wellcome Trust Sanger Institute, Cambridge
Signatures of Mutational Processes

15:15 – 15:45 **Break**

SESSION 2.2: 15:45 – 17:15

15:45 – 16:15 **Ian Tomlinson**

Institute of Cancer and Genomic Sciences,
Birmingham
Mutational and selective constraints on
cancer evolution

16:15 – 16:45 **Hans Clevers**

Hubrecht Institute, Utrecht
Lgr5 Stem Cell-based Organoids in human disease

16:45 – 17:15 **Stylianos Antonarakis**

University of Geneva, Geneva
Somatic mutation rate

17:15 – 17:25 **Stephen West and Mike Stratton**

Concluding remarks

17:25

End of the Symposium