
Monday 4 November 2019

11:00 - 13:00	Arrival / Registration with light refreshments	
	Pre-conference workshop hosted by Samplix at 11:30-12:30 in Helix Seminar Room A	
13:00 - 13:15	Opening remarks ATC Auditorium	
13:15 - 16:30	Session 1: Cancer genetics and mutation ATC Auditorium	
13:15 - 13:45	Somatic evolution in healthy and diseased bladder urothelium Inigo Martincorena <i>Wellcome Trust Sanger Institute, United Kingdom</i>	1
13:45 - 14:00	A pan-cancer analysis reveals nonstop mutations causing SMAD4 tumor suppressor degradation Sven Diederichs <i>University of Freiburg, Germany</i>	2
14:00 - 14:15	Large-scale analysis of liver cancer evolution in five species Duncan Odom <i>German Cancer Research Center (DKFZ), Germany</i>	3
14:15 - 14:45	Full-length transcript isoforms associated with SF3B1 mutation in chronic lymphocytic leukemia Angela Brooks <i>University of California, Santa Cruz, United States of America</i>	4
14:45 - 15:15	Coffee break ATC Auditorium Foyer	
15:15 - 15:45	Understanding epitopes that drive T cell activation in cancer Matthew L. Meyerson <i>Dana-Farber Cancer Institute, United States of America</i>	5

EMBL Conference: Cancer Genomics

- | | | |
|---------------|---|---|
| 15:45 - 16:00 | Comparison of somatic mutational processes across mammalian species
Alex Cagan
<i>Wellcome Trust Sanger Institute, United Kingdom</i> | 6 |
| 16:00 - 16:15 | Genotoxic pks+ E. coli induces a unique mutational signature in human colorectal cancer
Axel Rosendahl Huber
<i>Princess Máxima Center, The Netherlands</i> | 7 |
| 16:15 - 16:30 | Oxidative DNA damage repair switches mutagenic outcomes in coding sequence dependent on the epigenome
Anna Poetsch
<i>St. Anna Children's Cancer Research Institute, Austria</i> | 8 |
| 16:30 - 17:00 | Coffee break
ATC Auditorium Foyer | |
| 17:00 - 18:00 | Keynote: Hereditary predisposition to childhood cancer
Stefan M. Pfister
<i>Hopp Children's Cancer Center Heidelberg (KITZ), Germany</i> | 9 |
| 18:00 - 18:45 | Digital poster presentations & Meet the speakers of Day 1
ATC Auditorium Foyer | |
| 18:45 - 20:15 | Dinner
EMBL Canteen | |
| 20:15 - 22:00 | After-dinner drinks
ATC Rooftop Lounge | |

Tuesday 5 November 2019

09:00 - 12:15	Session 2: Cancer & microenvironment: immunogenomics & single cells ATC Auditorium	
09:00 - 09:30	Building personalized cancer vaccines Catherine J. Wu <i>Dana-Farber Cancer Institute and Harvard Medical School, United States of America</i>	10
09:30 - 09:45	Single-cell transcriptomics predicts relapse in infants with acute lymphoblastic leukemia Frank Holstege <i>Princess Máxima Center for Pediatric Oncology, The Netherlands</i>	11
09:45 - 10:00	Computational study of the mechanisms of response to immunotherapy by transcriptomic analysis of the tumor immune microenvironment in melanoma Yamil Damian Mahmoud <i>Instituto de Biología y Medicina Experimental – CONICET, Argentina</i>	12
10:00 - 10:30	Tumor genomic profiling to identify therapeutic biomarkers and guide clinical care Michael F. Berger <i>Memorial Sloan Kettering Cancer Center, United States of America</i>	13
10:30 - 11:00	Coffee break ATC Auditorium Foyer	
11:00 - 11:30	Somatic mutations in normal tissues Peter Campbell <i>Wellcome Trust Sanger Institute, United Kingdom</i>	14

EMBL Conference: Cancer Genomics

- 11:30 - 11:45 **Complex genomic rearrangements induced by ionizing radiation in normal cells** 15
Jeonghwan Youk
Korea Advanced Institute of Science and Technology, Republic of Korea
- 11:45 - 12:00 **Lack of HLA affinity-based neoantigen depletion signals in the cancer genome when considering mutational sequence contexts** 16
Jimmy Van den Eynden
Ghent University, Belgium
- 12:00 - 12:15 **Life history of normal human lymphocytes revealed by somatic mutations** 17
Heather Machado
Wellcome Trust Sanger Institute, United Kingdom
- 12:15 - 13:45 **Lunch**
ATC Auditorium Foyer
- 13:45 - 15:15 **Poster Session 1 (odd numbers)**
ATC Helix A
- 15:15 - 18:00 **Session 3: Cancer genome and epigenome**
ATC Auditorium
- 15:15 - 15:45 **Deciphering the evolutionary paths of tumor progression in Small Cell Lung Cancer** 18
Julie George
University of Cologne, Germany
- 15:45 - 16:00 **Epigenetic and transcriptional reprogramming underlies lung adenocarcinoma histological intra-tumor heterogeneity and microenvironment composition** 19
Giovanni Ciriello
University of Lausanne, Switzerland

16:00 - 16:15	Reconstructing shattered chromosomes in oesophageal adenocarcinomas Jannat Ijaz <i>Wellcome Trust Sanger Institute, United Kingdom</i>	20
16:15 - 16:45	Genomic alterations across molecular subtypes of mantle cell lymphoma Elías Campo <i>Hospital Clinic of the University of Barcelona, IDIBAPS, Spain</i>	21
16:45 - 17:15	Coffee break & Meet the speakers of Day 2 ATC Auditorium Foyer	
17:15 - 17:30	Aberrant integration of Hepatitis B virus DNA promotes restructuring of hepatocellular carcinoma genome Eva Alvarez <i>CIMUS, University of Santiago de Compostela, Spain</i>	22
17:30 - 18:00	To be presented on-site Sean Grimmond <i>University of Melbourne, Australia</i>	23
18:00 - 19:00	Partnering with patients to accelerate cancer genomics and precision medicine Nikhil Wagle <i>Dana-Farber Cancer Institute, United States of America</i>	24
19:00 - 19:15	Apéritif ATC Auditorium Foyer	
19:15 - 21:15	Conference Dinner EMBL Canteen	
21:15 - 00:00	Conference Party with DJ ATC Auditorium Foyer	

Wednesday 6 November 2019

09:00 - 12:00	Session 4: Drivers of cancer and genome-wide functional screens ATC Auditorium	
09:00 - 09:30	Accelerating prediction of tumor vulnerabilities using precision functional genomics Jesse S. Boehm <i>Broad Institute, United States of America</i>	25
09:30 - 09:45	The U1 spliceosomal RNA is recurrently mutated in multiple cancers Shimin Shuai <i>Ontario Institute for Cancer Research, Canada</i>	26
09:45 - 10:00	Functional genomic studies of cancer immune evasion using in vitro and in vivo CRISPR/Cas9 genetic screens Dimitrios Garyfallos <i>University of Cambridge, United Kingdom</i>	27
10:00 - 10:30	The mutational footprints of cancer therapies Nuria Lopez-Bigas <i>Institute for Research in Biomedicine (IRB Barcelona), Spain</i>	28
10:30 - 11:00	Coffee break ATC Auditorium Foyer	
11:00 - 11:30	To be presented on-site Jan Korbelt <i>EMBL Heidelberg, Germany</i>	29
11:30 - 11:45	Uncovering the role of the disruption of ubiquitin mediated proteolysis in tumorigenesis Francisco Martinez-Jimenez <i>Institute for Research in Biomedicine (IRB Barcelona), Spain</i>	30

11:45 - 12:00	Elevated pyrimidine dimer formation at distinct genomic bases underlies promoter mutation hotspots in UV-exposed cancers Kerryn Elliott <i>University of Gothenburg, Sweden</i>	31
12:00 - 13:30	Lunch & Meet the speakers of Day 3 (13:00-13:30) ATC Auditorium Foyer	
13:30 - 15:00	Poster session 2 (even numbers) ATC Helix A	
15:00 - 17:00	Session 5: Cancer genome medicine ATC Auditorium	
15:00 - 15:30	To be presented on-site Mathew Garnett <i>Wellcome Trust Sanger Institute, United Kingdom</i>	32
15:30 - 15:45	The evolutionary dynamics and fitness landscape of clonal haematopoiesis Jamie Blundell <i>University of Cambridge, United Kingdom</i>	33
15:45 - 16:00	CRUK Grand Challenge Mutographs: Mutation signature analysis of Oesophageal Squamous Cell Carcinoma (ESCC) from high incidence regions Sarah Moody <i>Wellcome Trust Sanger Institute, United Kingdom</i>	34
16:00 - 16:30	Oncologic therapy shapes the fitness landscape of clonal hematopoiesis Elli Papaemmanuil <i>Memorial Sloan Kettering Cancer Center, United States of America</i>	35
16:30 - 17:00	Ngs-based molecular minimal residual disease detection in acute myeloid leukemia Peter J.M. Valk <i>Erasmus University Medical Center, The Netherlands</i>	36

EMBL Conference: Cancer Genomics

17:00 - 17:15 Closing remarks and poster prize
ATC Auditorium

17:30 Bus departures downtown and to Frankfurt Airport
(Airport shuttle tickets for sale at registration desk)
ATC Bus stop