Bioinformatics in Cancer Programme

Virtual Event, Worldwide

18 - 19 May 2021



Scientific Programme

Tuesday 18th May 2021

14:00 WELCOME TO DAY 1

SESSION 1

Chair: Núria López-Bigas

14:05 Moritz Gerstung

EMBL-EBI, United Kingdom

"Understanding cancer evolution with spatial genomics"

Q&A: 14:25 - 14:45

14:45 5-minute break

14:50 **Itay Tirosh**

Weizmann Institute of Science, Israel

"Single cell RNA-seq analysis of head and neck cancer"

Q&A: 15:10 - 15:30

15:30 BREAK

coffee & stretching

SESSION 2

Chair: Sohrab Shah

15:45 **Martin Taylor**

University of Edinburgh, United Kingdom

"Strand asymmetric repair and mutagenesis revealed by lesion segregation"

Q&A: 16:05-16:25

16:25 5-minute break

16:30 Camelia Quek

Melanoma Institute, Australia

Proffered Paper 1: Spatially resolved single-cell sequencing reveals unfavourable immune diversity and intratumoural vessels in resistance melanoma patients treated with checkpoint inhibitor immunotherapy

Q&A: 16:40 - 16:50

16:50 **Jannat Ijaz**

Wellcome Sanger Institute, UK

Proffered Paper 2: Reconstructing shattered chromosomes in oesophageal adenocarcinomas

Q&A: 17:00 - 17:10

17:10 5-minute break

17:15 Christina Curtis

Stanford University, USA

"Quantifying tumor evolution: from genomic insights to predictive modeling"

Q&A: 17:35 - 17:55

17:55 POSTER SPOTLIGHTS

3 top abstracts presented as 3 minute flash talks

18:05 END OF DAY 1 SUMMARY

18:10 NETWORKING RECEPTION

In the Gather online platform

An informal opportunity to browse the posters, meet our sponsors and make new connections. Bring your own drink to recreate the feel of an in-person EACR conference!

Wednesday 19th May 2021

12:30 VIRTUAL POSTER DISCUSSION SESSION

14:00 WELCOME TO DAY 2

SESSION 3

Chair: Martin Taylor

14:05 Núria López-Bigas

IRB Barcelona, Spain

"Computational analysis of cancer genomes"

Q&A: 14:25 - 14:45

14:45 5-minute break

14:50 David Mas-Ponte

IRB Barcelona, Spain

Proffered Paper 3: Mutation showers and mutation fog patterns arise via different APOBEC3 mechanisms in tumors

Q&A: 15:00 - 15:10

15:10 Mariana Buongermino Pereira

Genomics England, UK

Proffered Paper 4: Utilising the output of the 100,000 Genomes Project in the Genomics England Research Environment as a resource for empowering scientific discovery in oncology and accelerating its translation to patient care

Q&A: 15:20 - 15:30

15:30 BREAK

coffee & stretching

SESSION 4

Chair: Christina Curtis

15:45 Sohrab Shah

MSKCC, USA

"Single cell whole genome sequencing to dissect mutational processes and clonal fitness in cancer"

Q&A: 16:05 - 16:25

16:25 5-minute break

16:30 Elli Papaemmanuil

MSKCC, USA

"Profiling of cancer genomes, to understand origins of malignant transformation, mechanisms of disease progression and response to treatment."

Q&A: 16:50 - 17:10

17:10 5-minute break

17:15 DISCUSSION FORUM

Francesca Chemi (Cancer Research UK Manchester Institute, UK), Elisa Mariella (Molecular Oncology Lab, Department of Oncology, University of Turin, Italy), Thomas Norman (MSKCC, USA), Alexia-Ileana Zaromytidou (Chief Editor, Nature Cancer, session Chair)

"Phase separation - experience of the wet/dry interface"

18:15 END OF DAY 2 SUMMARY