Cancer Genomics 2019 Programme
Cambridge, UK
23 - 26 June 2019

Scientific Programme

Sunday 23rd June 2019
15:00 REGISTRATION
Tea/coffee available
17:00 CONFERENCE WELCOME
Scientific Programme Committee
17:15 KEYNOTE LECTURE
Trey Ideker
UC San Diego, USA
"Interpreting the cancer genome through physical and functional models of the cancer cell"
18:00 NETWORKING RECEPTION
19:00 WELCOME DINNER

Monday 24th June 2019
08:30 POSTER VIEWING
until 09:15
09:00 INDUSTRY SPOTLIGHT 1 - ILLUMINA
Nana Akumanyi
Illumina, UK
"Immuno-Oncology Research Enabled Through Applied Advanced Genomic Techniques"
SESSION 1: CONVERGENCE AND CANCER GENOMICS- BIG DATA, ARTIFICIAL INTELLIGENCE AND INTEGRATION
Chair: Elaine Mardis
09:15 Dana Pe’er
MSKCC, USA
"Single cell mapping of plasticity in tumors, metastasis, and development"
09:45 James Heath
ISB, USA
"New Single Cell Methods for Oncology and Immuno-oncology"
10:15 Amalie Kai Bentzen
Technical University of Denmark, Denmark
Proffered Paper 1: "Simultaneous identification of antigen-specificity and T cell receptor sequence in single cells"
10:30 EXHIBITOR INTRODUCTIONS
10:45 COFFEE BREAK
Opening of the Trade Exhibition
11:15 Adi Nagler
11:30 Carlos Caldas  
CRUK CI, UK  
“A systems level view of breast cancer through the lens of artificial intelligence”

12:00 POSTER SPOTLIGHTS  
3 top-scoring abstracts will be presented in short ‘flash talks’ of 3 minutes each.

12:15 INDUSTRY SYMPOSIUM 1 - THERMO FISHER  
Tim Looney  
Thermo Fisher Scientific, USA  
“Multi-Dimensional Assays and Potential Biomarkers for Immunotherapy”

12:45 LUNCH

13:45 POSTER DISCUSSION SESSION 1  
Posters 1-67 will be presented. Tea/coffee served at 14:45

SESSION 2: CLINICAL CANCER GENOMICS I  
Chair: Daniela Thommen

15:15 KEYNOTE LECTURE  
Charles Swanton  
The Francis Crick Institute, UK  
“Chromosomal instability and genome plasticity in cancer evolution, immune evasion and metastasis”

16:00 Stephanie Hilz  
UCSF, USA  
Proffered Paper 3: “The 3D evolution of glioma cell populations”

16:15 James Brenton  
CRUK CI, UK  
“Detecting active mutational processes in high grade serous ovarian carcinoma”

16:45 DISCUSSION FORUM  
until 17:30  
“What is the perfect biomarker for response to immune checkpoint blockade therapy?”

Tuesday 25th June 2019

08:30 POSTER VIEWING  
until 09:15

09:00 INDUSTRY SPOTLIGHT 2 - FLUIDIGM  
Anna Piskorz  
CRUK CI, UK  
“Advancing cancer research with flexible and efficient nanoscale automation on the Juno™ System”

SESSION 3: CLINICAL CANCER GENOMICS II  
Chair: Yardena Samuels
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>09:15</td>
<td>Shankar Balasubramanian</td>
<td>CRUK CI, UK</td>
<td>“Mapping the origins and treatment of brain tumours”</td>
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<tr>
<td>09:45</td>
<td>Richard Gilbertson</td>
<td>CRUK CI, UK</td>
<td>“Mapping the origins and treatment of brain tumours”</td>
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<td>10:15</td>
<td>Yu Fu</td>
<td>EMBL-EBI, UK</td>
<td>Proffered Paper 4: “Molecular and clinical associations with histopathological images”</td>
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<td>10:30</td>
<td>COFFEE BREAK</td>
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<td>10:45</td>
<td>SESSION 4: IMMUNE GENOMICS OF CANCER I</td>
<td>Chair: James Brenton</td>
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<td>11:00</td>
<td>Jennifer Wargo</td>
<td>The University of Texas MD Anderson Cancer Center, USA</td>
<td>“Understanding the complexities of response to cancer therapy: the organism as a holobiont”</td>
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<td>11:30</td>
<td>Yardena Samuels</td>
<td>Weizmann Institute, Israel</td>
<td>“Towards Deciphering the Neo-Antigenic and Microbial Landscapes in Melanoma”</td>
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<td>12:00</td>
<td>Oscar Manuel Rueda</td>
<td>University of Cambridge, UK</td>
<td>Proffered Paper 5: “Dynamics of breast-cancer relapse reveal late-recurring ER-positive genomic subgroups”</td>
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<td>12:15</td>
<td>POSTER SPOTLIGHTS</td>
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<td>Abstracts 68-70 will be presented in short ‘flash talks’ of 3 minutes each.</td>
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<td>12:30</td>
<td>INDUSTRY SYMPOSIUM 2 - NANOSTRING TECHNOLOGIES</td>
<td>Jim White</td>
<td>GeoMx™ and nCounter® - revolutionary technology to unravel the spatial molecular and cellular interplay of the tumor microenvironment</td>
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<td>13:00</td>
<td>LUNCH</td>
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<td>14:00</td>
<td>POSTER DISCUSSION SESSION 2</td>
<td></td>
<td>Posters 68-135 will be presented. Tea/coffee served at 15:00</td>
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<tr>
<td>14:45</td>
<td>SESSION 5: IMMUNE GENOMICS OF CANCER II</td>
<td>Chair: Itay Tirosh</td>
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<tr>
<td>15:30</td>
<td>Pia Kvistborg</td>
<td>NKI, Netherlands</td>
<td>“The tumor specific T cell response”</td>
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<td>16:00</td>
<td>Michal Bassani-Sternberg</td>
<td>Ludwig Institute for Cancer Research Lausanne, Switzerland</td>
<td>“Proteogenomics and Immunepeptidomics for the development of personalized cancer immunotherapy”</td>
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<td>16:30</td>
<td>Keren Yizhak</td>
<td>Broad Institute of Harvard and MIT, USA</td>
<td>Proffered Paper 6: “RNA sequence analysis reveals macroscopic somatic interactions”</td>
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clonal expansion across normal tissues

16:45 KEYNOTE LECTURE
Daniela Thommen
NKI, Netherlands
"Determinants for immunological response to immune checkpoint blockade in human cancer"

19:30 CONFERENCE DINNER
Presentation of award certificates

Wednesday 26th June 2019

08:30 POSTER VIEWING

09:00 MEET THE EXPERTS
Carlos Caldas & Yardena Samuels
An interactive session where our two experts will share from their personal and professional perspectives on the path to scientific leadership.

SESSION 6: SINGLE-CELL ANALYSIS OF CANCERS
Chair: Carlos Caldas

09:40 John Marioni
EMBL-EBI, UK
"Using single-cell RNA-sequencing to provide insight into cell fate"

10:10 Itay Tirosh
Weizmann Institute, Israel
"Understanding glioma by single cell RNA-seq"

10:40 COFFEE BREAK

11:10 Gabriele Picco
Wellcome Trust Sanger Institute, UK
Proffered Paper 7: "The Werner Syndrome RecQ helicase is a synthetic lethal target in MMR-deficient tumors"

11:25 Sam Behjati
Wellcome Sanger Institute, UK
“The Single Cancer Cell Transcriptome"  

11:55 EMBO KEYNOTE LECTURE
Amos Tanay
Weizmann Institute, Israel
"Single cell genomics and epigenomics approaches to understand tumorigenic processes"

12:40 CLOSING SUMMARY
Scientific Programme Committee

12:50 LUNCH & DEPART