# Conference Program

## June 28th

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<tr>
<th>Time</th>
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<th>Presenter/Institute</th>
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<tr>
<td>17:30 - 17:40</td>
<td>Opening Remarks</td>
<td>Charles Swanton (Francis Crick Institute, UK)</td>
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| 17:40 - 19:00 | Keynote                                                                | Chairpersons: Charles Swanton (Francis Crick Institute, UK)  
Hiroyoshi Nishikawa (National Cancer Center Research Institute, Japan) |
|             | **Mechanism of Action and Inflammatory Axis for Air Pollution Induced Non-Small Cell Lung Cancer** | Charles Swanton (Francis Crick Institute, UK)      |
|             | **Immune-genome precision medicine targeting regulatory (Treg) T cells** | Hiroyoshi Nishikawa (National Cancer Center Research Institute, Japan) |
| 19:30 - 21:30 | Welcome Party                                                          |                                                    |

## June 29th

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| 8:30 - 10:30 | Session 1: Advances in T-cell Biology                                 | Chairpersons: Nina Bhardwaj (Icahn School of Medicine at Mount Sinai, US)  
Yuki Kagoya (Keio University, Japan) |
|             | **Cancer neoantigen discovery and properties conferring immunity**     | Nina Bhardwaj (Icahn School of Medicine at Mount Sinai, US)      |
|             | **Cancer Immunotherapy: Beyond Checkpoint Blockade**                  | Jedd Wolchok (Weill Cornell Medicine, Meyer Cancer Center, US)    |
|             | **Enhancing the efficacy and safety of CAR-T cell therapy with a synthetic biology approach** | Yuki Kagoya (Keio University, Japan)      |
|             | **Resident memory T cells and role in breast cancer protection and immunotherapies** | Sherene Loi (Peter MacCallum Cancer Centre, Australia) |
| 10:30 - 10:40 | Break                                                                 |                                                    |
| 10:40 - 12:10 | Session 2: Premalignancy and its detection                            | Chairpersons: Max Diehn (Stanford University, US)  
Mamiko Sakata-Yanagimoto (University of Tsukuba, Japan) |
|             | **Somatic mutation and selection in normal tissues**                  | Inigo Martincorena (Wellcome Sanger Institute, UK) |
|             | **Intercepting Lung Cancer via a Pre-Cancer Atlas**                   | Avrum Spira (Johnson & Johnson Innovation Center, US)     |
|             | **Immune cells derived from clonal hematopoiesis function as a niche for cancer cells.** | Mamiko Sakata-Yanagimoto (University of Tsukuba, Japan) |
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12:10 - 12:20  Break
12:20 - 13:20  Luncheon Seminars
13:20 - 13:30  Break
13:30 - 15:00  Poster Discussions

15:00 - 16:30  Session 3: Microbiome and cancer
   Chairpersons: Matthew Meyerson (Dana-Farber Cancer Institute, US)
                  Naoko Ohtani (Osaka Metropolitan University, Japan)

   Gut-liver axis-mediated mechanism of obesity-associated hepatocellular carcinoma progression
   Naoko Ohtani (Osaka Metropolitan University, Japan)

   Impact of the Cancer Microbiome on Cancer Cells and Immune Cells
   Matthew Meyerson (Dana-Farber Cancer Institute, US)

   Human Fecal Microbiome and Colorectal Cancer
   Shinichi Yachida (Osaka University, Japan)

16:30 - 16:50  Break

16:50 - 18:20  Session 4: RNA as a target
   Chairpersons: Daichi Inoue (Foundation for Biomedical Research and Innovation at Kobe, Japan)
                  Nicholas McGranahan (UCL Cancer Institute, UK)

   The interplay between the genome and transcriptome during cancer evolution and metastasis
   Nicholas McGranahan (UCL Cancer Institute, UK)

   Targeting Cis- and Trans-regulations of Pre-mRNA Splicing in Cancer
   Akihide Yoshimi (National Cancer Center Research Institute, Japan)

   Deciphering the Mechanisms of Cancer Development Driven by Aberrant Splicing Events
   Daichi Inoue (Foundation for Biomedical Research and Innovation at Kobe, Japan)

18:20 - 18:30  Break

18:30 - 19:30  Evening Seminars

20:00 - 21:30  Banquet
June 30th

8:30 - 10:00  Session 5: Novel targets brought by genomics/epigenomics
Chairpersons: Nada Jabado (McGill University, Canada)
              Hiroyuki Mano (National Cancer Center Research Institute, Japan)

Genomic alterations and targeted therapies in lung cancer
Matthew Meyerson (Dana-Farber Cancer Institute, US)

Targeting Oncohistones in Cancer
Nada Jabado (McGill University, Canada)

Discovery of actionable vulnerabilities in scirrhous-type gastric cancer
Hiroyuki Mano (National Cancer Center Research Institute, Japan)

10:00 - 10:20  Break

10:20 - 11:50  Session 6: Revolution in diagnosis and clinical trials
Chairpersons: Trever Bivona (University of California, San Francisco, US)
              Hitomi Okuma (National Cancer Center Hospital, Japan)

High resolution views of the evolution of clinical resistance to targeted therapy in lung cancer
Trever Bivona (University of California, San Francisco, US)

Circulating Tumor DNA Analysis for Detection and Characterization of Lung Cancer
Max Diehn (Stanford University, US)

Revolution in Clinical Trials
Hitomi Okuma (National Cancer Center Hospital, Japan)

11:50 - 12:00  Break

12:00 - 13:00  Luncheon Seminars

13:00 - 13:10  Break

13:10 - 14:40  Session 7: Inflammation and cancer
Chairpersons: Lisa Coussens (Oregon Health & Science University, US)
              Seishi Ogawa (Kyoto University, Japan)

Regulation of inflammation in anti-cancer immune responses
Osamu Takeuchi (Kyoto University, Japan)

Identifying Immune Vulnerabilities In Solid Tumors
Lisa Coussens (Oregon Health & Science University, US)

Evolutionary histories of breast cancer using phylogenetic analysis
Seishi Ogawa (Kyoto University, Japan)
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14:40 - 15:00  Break

15:00 - 16:30  Session 8: Computational biology
   Chairpersons:  Elana Fertig (Johns Hopkins University, US)
                   Dean Ho (National University of Singapore, Singapore)

   Medicine Made For You
   Dean Ho (National University of Singapore, Singapore)

   Forecasting Pancreatic Carcinogenesis Through Spatial Multi Omics
   Elana Fertig (Johns Hopkins University, US)

   Inferring cell state dynamics dependent on tumor microenvironments
   Yasuhiro Kojima (National Cancer Center Research Institute, Japan)

16:30 - 16:40  Closing Remarks
   Hiroyoshi Nishikawa (National Cancer Center Research Institute, Japan)