Key 16 - The Origin of Cancer
8-10 September 2019 | Stockholm

Scientific Program

Sunday, September 8, 2019
17.00 - Registration
18.00 - Welcome reception
with dinner buffet

Monday September 9, 2019
08.00-09.00 - Registration
09.00-09.15 - Welcome and Introduction
    Rune Toftgård and Ulf de Faire
09.15-11.00 - Tissue stem cells as cancer cell of origin
    Chair: Rune Toftgård
    09.15-10.00 Keynote: Hans Clevers (Hubrecht Institute, Utrecht, The Netherlands)
    “Organoids as models of human cancer”
    10.00-10.30 Peter Dirks (University of Toronto, Canada)
    Title TBA
    10.30-11.00 Cédric Blanpain (Université Libre de Bruxelles, Belgium)
    “Identifying the cells of origin in skin cancer”

11.30-13.00 - Importance of the niche in cancer initiation
    Chair: Lena Claesson-Welsh
    11.30-12.00 David Scadden (Harvard University, Boston, USA)
    Title TBA
    12.00-12.30 Tomi Mäkelä (Helsinki University, Finland)
    “The role of LKB1 as a tumor suppressor and maintenance of intestinal stem cells”
    12.30-13.00 Maria Kasper (Karolinska Institutet, Sweden)
    “Decoding skin cancer formation via niche modulation and single-cell transcriptomics”

13.00-14.30 LUNCH WITH MEET-THE-EXPERT DISCUSSION SESSIONS

14.30-16.00 - Dedifferentiation and cancer initiation
    Chair: Ruth Palmer
    14.30-15.00 Carla Kim (Harvard Medical School, Boston, USA)
    “Regulation of progenitor cells in the adult lung and in lung cancer”
    15.00-15.30 Jeff Settleman (Calico Life Science, San Francisco, USA)
    “Reversible states of resistance to anti-cancer drugs”
    15.30-16.00 Mohamed Bentires-Alj (University of Basel, Switzerland)
    “Breast tumor heterogeneity and metastasis: Act locally, think globally.”

16.00-16.30 - COFFEE BREAK
16.30-18.15 - Mechanisms of initiation and properties of initiated cells
Chair: Bengt Westermark

16.30-17.15  **Keynote: Sir Mike Stratton** (Wellcome Sanger Institute, Cambridge, UK)
“Signatures of mutational processes in human cancer”

17.15-17.45  Mario Suvà (Harvard Medical School, Boston, USA)
“An integrative model of cellular states and genetics for glioblastoma”

17.45-18.15  Sean Morrison (University of Texas Southwestern, Dallas, USA)
“The metabolic regulation of cancer progression”

19.00 - BOAT TRIP AND CONFERENCE DINNER AT ARTIPÉLAG

Tuesday, September 10th

08.30-10.00 - The role of inflammation and wounding in cancer
Chair: Martin Bergö

08.30-09.00  Andreas Trumpp (Deutsches Krebsforschungszentrum, Heidelberg, Germany)
“Stem cells features in cancer”

09.00-09.30  Florian Greten (University of Frankfurt, Germany)
“Cell plasticity in stemness and tumor progression”

09.30-10.00  Jessica Strid (Imperial College London, UK)
“A role for IgE-FcεR1 axis in tumor immune surveillance”

10.00-10.30 - COFFEE BREAK

10.30-12.00 - Clonal evolution: Cell of origin and cancer stem cells
Chair: Eva Hellström-Lindberg

10.30-11.00  Leonard Zon (Harvard University, Boston, USA)
“Cancer initiation in zebrafish”

11.00-11.30  Charles Swanton (The Francis Crick Institute, London, UK)
“Chromosomal order and chaos: Cancer evolution and immune evasion”

11.30-12.00  Sten Eirik Jacobsen (Karolinska Institutet, Sweden)
“Unravelling lineage potentials and fates of normal and leukemic stem and progenitor cells”

12.00-13.30 LUNCH WITH MEET-THE-EXPERT DISCUSSION SESSIONS

13.30-15.00 - Organoids and experimental models for cancer
Chair: Urban Lendahl

13.30-14.00  Jürgen Knoblich (Institute of Molecular Biotechnology, Vienna, Austria)
“Metabolic reprogramming turns neural stem cells into brain tumor initiating cells”

14.00-14.30  Toshiro Sato (Keio University School of Medicine, Tokyo, Japan)
“4D-imaging of human colorectal cancer stem cells using organoid technology”

14.30-15.00  Michael Shen (Columbia University, New York, USA)
“Investigating bladder cancer using patient-derived tumor organoids”

15.00-15.30 - COFFEE BREAK
15.30-17.00 - Early detection and cancer prevention
Chair: Sten Linnarsson

15.30-16.00 Liran Shlush (Weizmann Institute of Science, Rehovot, Israel)
"Titel TBA"

16.00-16.30 Thomas Würdinger (University Medical Center, Amsterdam, The Netherlands)
"Tumor-educated platelets for the detection of cancer"

16.30-17.00 Daniel deCarvalho (University of Toronto, Canada)
"Translation aspects of DNA methylation in cancer"

17.00-17.30 - REFRESHMENTS

17.30-19.15 - The impact of the cell of origin on tumor phenotype, prognosis and therapeutic outcome
Chair: Jonas Bergh

17.30-18.15 Keynote: John Dick (Princess Margaret Cancer Centre, University of Toronto, Canada)
"Tracking the arc of AML and B-ALL from the cell of origin to the origin of relapse in a single blood sample"

18.15-18.45 Charles Sawyers (Memorial Sloan Kettering Cancer Center, New York, USA)
"Lineage plasticity in prostate cancer"

18.45-19.15 Kristian Pietras (Lund University, Sweden)
"Microenvironmental control of the malignant phenotype in breast cancer"

19.15-19.30 - Concluding remarks
TBA

20.00 Speakers Dinner
at Skepparholmen Conference Hotel