Goodbye Flat Biology: In Vivo Inspired Cancer Biology and Therapy Programme

Berlin, Germany

9 - 12 September 2018

Scientific Programme

Sunday 9th September 2018

15:30 REGISTRATION
Planck Lobby
Including tea/coffee

17:00 CONFERENCE WELCOME
Andrew Ewald - Conference Chair

17:15 OPENING KEYNOTE LECTURE
Chair: Emmy Verschuren
Hans Clevers
Hubrecht Institute, Netherlands
"Lgr5 stem cell-based organoids in human cancer research"

18:15 ICEBREAKER INTRODUCTIONS
Planck Lobby
An opportunity to make some new connections and meet those with similar research interests.

19:00 WELCOME BUFFET & TRADE EXHIBITION
Meitner Hall & Goethe Hall
Drinks & hot buffet

Monday 10th September 2018

08:30 POSTER VIEWING & TRADE EXHIBITION
Meitner Hall & Goethe Hall
Including tea/coffee

09:00 SESSION 1: MOLECULAR AND CELLULAR REGULATION OF METASTASIS
Chair: Ellen Van Obberghen-Schilling

09:00 **Andrew Ewald**
Johns Hopkins, USA
"Regulation of metastasis by intercellular interactions"

09:30 **Margaret Frame**
IGMM Edinburgh, UK
"Targeting the multitasking adhesion kinases as combination therapies"

10:00 **Elizabeth Pavez Loriè**
Leibniz Institute of Environmental Medicine, Germany
Proffered Paper 1: "Cyclosporin A is promoting tumor like invasion in a long-term human skin equivalent"

10:15 EXHIBITOR INTRODUCTIONS
Hear about the equipment and services offered by the companies in the trade exhibition.

10:25 COFFEE BREAK & TRADE EXHIBITION
Meitner Hall & Goethe Hall

10:55 **Julie Pannequin**
IGF Montpellier, France
Proffered Paper 2: "Circulating tumor cells from patients with colorectal cancer display cancer stem cell hallmarks in ex-vivo culture"

11:10 **Matthias Lütolf**
EPFL, Switzerland
"Engineering organoid development"

11:40 POSTER SPOTLIGHTS
Four top-scoring abstracts will be presented in short 'flash talks' of 2 minutes each.

11:50 INDUSTRY SYMPOSIUM - LONZA
Jenny Schroeder
Lonza, Germany
"Advanced Cell Culture Solutions for Primary Human Cells"

12:20 BUFFET LUNCH & TRADE EXHIBITION
Meitner Hall & Goethe Hall

13:00 POSTER DISCUSSION SESSION 1
Including tea/coffee

14:15 SESSION 2: THE IMMUNE MICROENVIRONMENT AND IMMUNOTHERAPY IN CANCER
Chair: Peter Friedl

14:30 IMMUNO KEYNOTE LECTURE
Ron Germain
National Institutes of Health, USA
"Imaging immunity in many colors and dimensions: developing a detailed spatiotemporal understanding of host defense"

15:15 **Bettina Weigelin**
RIMLS / MD Anderson, Netherlands/USA
"Cytotoxic T cell function in solid tumors and bone metastasis: implications for immunotherapy"

15:45 **Sofia Rebelo**
iBet, Portugal
Proffered Paper 3: "3D-3-culture: unveiling macrophage plasticity in the tumor microenvironment"

16:00 **Reinhold Förster**
Institute for Immunology, Hannover, Germany
"Lymph node homing of lymph-derived immune cells"

16:30 CAREER FORUM
Liebig Vault
Spaces are limited, and sign up will open after the registration deadline. The session will finish at 17:30.

Tuesday 11th September 2018

08:30 POSTER VIEWING & TRADE EXHIBITION

Meitner Hall & Goethe Hall
Including tea/coffee

09:00 MEET THE EXPERT
Margaret Frame
IGMM Edinburgh, UK
Prof. Frame will share from her personal perspective and experiences. There will be a chance to ask questions.

09:30 SESSION 3: MICROENVIRONMENTAL AND METABOLIC REGULATION OF CANCER INVASION
Chair: Maria Vinci

09:30 **Peter Friedl**
Radboud UMC / MD Anderson CC, Netherlands/USA
"Collective cancer cell invasion: plasticity and interconversions"

10:00 **Danijela Vignjevic**
Institut Curie, France
"Fibroblasts role in gut homeostasis and cancer invasion"

10:30 COFFEE BREAK & TRADE EXHIBITION

11:00 **Christopher Hanley**
University Of Southampton, UK
Proffered Paper 4: "3D co-culture of tumor organoids with autologous stromal cells induces keratin-14 expression and invasion in multiple models of ductal breast cancer"

11:15 **Aneta Gandalovi□ová**
Charles University, Czech Republic
Proffered Paper 5: "Inflammation-associated signaling is associated with the amoeboid invasion mode in cancer cells"

11:30 **Ellen Van Obberghen-Schilling**
Institute of Biology Valrose, France
"ECM landscape and tumor progression"

12:00 POSTER SPOTLIGHTS
Four top-scoring abstracts will be presented in short 'flash talks' of 2 minutes each.

12:10 INDUSTRY SYMPOSIUM - NEXCELOM BIOSCIENCE
Somaieh Hedayat
The Institute of Cancer Research, UK
"Patients derived organoids (PDOs) to model therapy response ex vivo"

12:10 **Muge Sarper**
The Institute of Cancer Research, UK
"Large scale phenotypic drug screen on biomimetic 3D models"

12:40 BUFFET LUNCH & TRADE EXHIBITION
Meitner Hall & Goethe Hall

13:15 POSTER DISCUSSION SESSION 2
Including tea/coffee

14:45 SESSION 4: SMART MICROENVIRONMENTS I
Chair: Emmy Verschuren

14:45 **Fanny Jaulin**

Gustave Roussy, France
"Apico-basolateral polarity in colorectal carcinomas dissemination"

15:15 **Claudia Fischbach-Teschl**
Cornell University, USA
"Biomaterials approaches to analyze ECM dynamics in obesity-associated breast cancer"

15:45 **Nicola Valeri**
The Institute of Cancer Research, UK
Proffered Paper 6: "Patient-derived organoids model treatment response of metastatic gastrointestinal cancers"

16:00 **Maria Carla Parrini**
Institut Curie, France
Proffered Paper 7: "Tumor-on-chip platforms for ex vivo characterization of tumor microenvironments and of their responses to anti-cancer drugs"

16:15 **Janine Erler**
BRIC, Denmark
"Modelling metastasis using native ECM"

16:45 CONFERENCE DEBATE
Speakers will present opposing sides of the argument and there will be a chance to ask questions. A vote will be taken before and after.
Chair: Emmy Verschuren | Defending: Don Ingber | Opposing: Peter Friedl
"Smart 3D culture will replace animal experiments"

19:30 DRINKS RECEPTION & CONFERENCE DINNER
Restaurant Harnack Haus
Ticketed optional extra.

Wednesday 12th September 2018

08:30 POSTER VIEWING & TRADE EXHIBITION
Meitner Hall & Goethe Hall
Including tea/coffee

09:00 SESSION 5: SMART MICROENVIRONMENTS II
Chair: Andrew Ewald

09:00 **Anne Rios**
Princess Maxima Center, Netherlands
"Investigating the cellular dynamics of organ development and cancer using 3D imaging"

09:30 **Maria Vinci**
Bambino Gesu' Children's Hospital, Italy
"Interclonal and heterocellular interactions in paediatric High Grade Glioma"

10:00 INDUSTRY SYMPOSIUM - JSR LIFE SCIENCES
Henry Li
Crown Bioscience, USA
“Creating patient derived experimental platform for in vitro screening by using the largest annotated PDX library”

10:30 COFFEE BREAK & TRADE EXHIBITION

11:00 **Dik van Gent**

Erasmus MC, Netherlands
Proffered Paper 8: "The RECAP test: measuring Homologous recombination deficiency in living tumor tissue"

11:15 **Emmy Verschuren**
FIMM, Finland
"Histopathology-specific lung cancer phenotypes as disease vulnerabilities"

11:45 CLOSING KEYNOTE
Chair: Maria Vinci
Don Ingber
Wyss Institute, USA
"From Organs-on-Chips to a Human Body-on-Chips"

12:30 SUMMARY & AWARDS
Ellen Van Obberghen-Schilling - incoming Conference Chair

12:45 LUNCH, TRADE EXHIBITION CLOSES, DEPART
until 13:30