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

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

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.

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 Gandalovičová
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”

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

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

**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