

Goodbye Flat Biology: Next Generation Cancer Models Programme

Berlin, Germany

10 - 12 October 2023



Scientific Programme

Tuesday 10th October 2023

Listed times are in Central European Summer Time (CEST)

- 11:30 REGISTRATION & WELCOME LUNCH
- 13:00 CONFERENCE WELCOME
- SESSION 1
Chair: Valerie Weaver
- 13:10 **Andrew Ewald**
The Johns Hopkins University, USA
"Cell state and intercellular interactions coordinately regulate cancer invasion and metastasis"
Q&A: 13:30-13:40
- 13:40 **Laura Machesky (Virtual Presentation)**
University of Cambridge, UK
"How cancer cells use mechanical cues to decide when to eat and when to walk"
Q&A: 14:00 - 14:10
- 14:10 **Clemence Nguyen Vigouroux**
Gustave Roussy Institute, France
Proffered Paper 1: "Cancer cell collectives can alternate between migration strategies"
Q&A: 14:20 - 14:25
- 14:25 EXHIBITOR INTRODUCTIONS
- 14:35 COFFEE BREAK & EXHIBITION
- 15:05 **Henriëtte Lanz**
MIMETAS, Netherlands
"Modelling the tumor microenvironment in order to place compounds and targets in the patient context"
Q&A: 15:25 - 15:35
- 15:35 KEYNOTE LECTURE
Erik Sahai
Crick Institute, UK
"Unpicking How the Tumor Microenvironment Sculpts Cancer Invasion and Therapy Failure"
Q&A: 16:05 - 16:20
- 16:20 POSTER SPOTLIGHTS
3 top abstracts presented as 3-minute flash talks

- 16:30 **SPEED NETWORKING RECEPTION**
Invited speakers and the conference organizers will each host a table of participants, covering different topics for discussion.
- 17:15 **WELCOME RECEPTION**
Drinks reception with buffet served from 17:30
- 18:15 **POSTER DISCUSSION SESSION 1**

Wednesday 11th October 2023

Listed times are in Central European Summer Time (CEST)

- 08:15 **POSTER VIEWING**
Posters may be freely viewed. Tea/coffee/biscuits will be served.
- SESSION 2**
Chair: Emmanuel Donnadieu
- 08:45 **INDUSTRY SPOTLIGHT - GREINER BIO-ONE**
Torsten Binder
Product Manager: 3D Cell Culture, Greiner Bio-One
'Tools to Simplify 3D Cell Culture'
- 09:00 **Peter Friedl**
Radboud UMC, Netherlands
"Energy crisis and cell migration – how to get out of trouble"
Q&A: 09:20 - 09:30
- 09:30 **Floriana Cremasco**
Roche Glycart AG, Switzerland
Proffered Paper 2: "Human 3D in vitro models for the assessment of Cancer Immunotherapy Mode of Action"
Q&A: 09:40 - 09:45
- 09:45 **Daniela Thommen**
Netherlands Cancer Institute, Netherlands
'Dissecting and modulating anti-tumor immunity in human cancers using ex vivo avatars'
Q&A: 10:05 - 10:15
- 10:15 **Paul Timpson**
Garvan Institute of Medical Research, Australia
"Intravital imaging and insights into stromal co- targeting in pancreatic cancer"
Q&A: 10:35 - 10:45
- 10:45 **COFFEE BREAK & EXHIBITION**
- SESSION 3**
Chair: Peter Friedl
- 11:15 **Silvia Scaglione**
React4Life, Italy
"A organ on chip-based approach for 3D cancer tissue culture towards a better understanding of human cancer progression and more predictive drug testing"
Q&A: 11:35 - 11:45

- 11:45 Claudia Beaurivage
HUB Organoids, Netherlands
Proffered Paper 3: "Autologous organoids and T cell co-cultures as a powerful personalized platform for immunotherapy development"
Q&A: 11:55 - 12:00
- 12:00 **POSTER SPOTLIGHTS**
3 top abstracts presented as 3-minute flash talks
- 12:10 **Christine Moussion**
Genentech, USA
"In situ tumour arrays reveal early environmental control of cancer immunity"
Q&A: 12:30-12:40
- 12:40 **LUNCH & EXHIBITION**
- 13:20 **POSTER DISCUSSION SESSION 2**
SESSION 4
Chair: Andrew Ewald
- 14:50 **THE EMBO KEYNOTE LECTURE**
Matthias Lütolf
EPFL, Switzerland
"Engineering next-generation tumoroids"
Q&A: 15:20 - 15:35
- 15:35 **Britta Trappmann**
TU Dortmund University, Germany
"Biomimetic models of the tumor-vascular niche"
Q&A: 15:55 - 16:05
- 16:05 **Agathe Bessot**
Translational Research Institute, Australia
Proffered Paper 4: "Delineating the role of bone marrow adipocytes in advanced prostate cancer and therapy response using ECM-derived 3D hydrogels as in vitro and humanised in vivo platforms"
Q&A: 16:15 - 16:20
- 16:20 **COFFEE BREAK & EXHIBITION**
- 16:45 **Valerie Weaver**
UCSF, USA
"Exploiting patient-derived organoids for drug discovery to overcome therapy resistance and tumor metastasis"
Q&A: 17:05 - 17:15
- 17:15 **Nicolas Pasquier**
Turku Bioscience, Finland
Proffered Paper 5: "Focal adhesion signaling pathway controls apicobasal polarity of colorectal carcinoma metastases"
Q&A: 17:25 - 17:30
- 17:30 **MEET THE EXPERT**
Andrew Ewald
The Johns Hopkins University, USA

Prof Andrew Ewald will host an informal session where he will share his own personal and professional experiences of his path to scientific leadership.

19:15 **CONFERENCE DINNER**

The evening will begin with a Drinks Reception in the Planck Lobby of Harnack House at 19:15. The three-course served dinner will take place downstairs in the atmospheric restaurant from 19:30. Optional ticketed event.

Thursday 12th October 2023

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08:15 **POSTER VIEWING**

Posters may be freely viewed. Tea/coffee/biscuits will be served.

SESSION 5

Chair: Henriëtte Lanz

08:45 **INDUSTRY SPOTLIGHT - TECAN**

Dr Nicola Vettore

Tecan

'Scaling 3D cell experiments with full automation workflows and AI-based analysis'

09:00 **Emmanuel Donnadieu**

Institut Cochin, France

"Predicting safety and efficacy of engineered T cells using an ex vivo human model "

Q&A: 09:20 - 09:30

09:30 **Jacky Goetz**

INSERM, France

"Intravascular forces shape tumor metastasis"

Q&A: 09:50 - 10:00

10:00 **Brooke Pereira**

Garvan Institute of Medical Research, Australia

Proffered Paper 6: "Temporal quantitative proteomics and advanced microscopy to resolve mitosomal drivers of pancreatic cancer"

Q&A: 10:10 - 10:15

10:15 **COFFEE BREAK & EXHIBITION**

10:45 **Luca Tiberi**

CIBIO - University of Trento, Italy

"Modeling brain tumor with human organoids"

Q&A: 11:05 - 11:15

11:15 **CLOSING KEYNOTE LECTURE**

Anne Rios

Princess Máxima Center for Pediatric Oncology, Netherlands

"Organoid cellular cancer immunity models in motion"

Q&A: 11:45 - 12:00

12:00 **SUMMARY & AWARDS**

12:15 **DEPART**