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

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 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 matrisomal 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