

Dear colleagues,

The tight regulation of cell motility is crucial for proper embryonic development and adult tissue homeostasis. Aberrant activation of embryonic signaling pathways controlling cell motility enables cancer cells to invade foreign tissues. Furthermore, the establishment of a specific tumor microenvironment contributes to successful tissue invasion and metastasis of malignant cells.

In the SFB 850 developmental biologists, cancer researchers, and clinicians joined forces to study the mechanisms regulating cellular motility. During the forthcoming *4th International Symposium Control of Cell Motility in Development and Cancer*, participants and world-renowned experts will discuss the current state of the art in this exciting field of biomedical sciences.

On behalf of the organization committee, I cordially invite you to participate in our symposium.

There is no registration fee, however, please register at www.sfb850.uni-freiburg.de.

Sincerely yours,

Christoph Peters
(Coordinator SFB 850)

Registration and program
www.sfb850.uni-freiburg.de

Organizing and Scientific Program Committee

SFB 850

“Control of Cell Motility in Morphogenesis, Cancer Invasion and Metastasis“

Sebastian Arnold
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Conference Venue

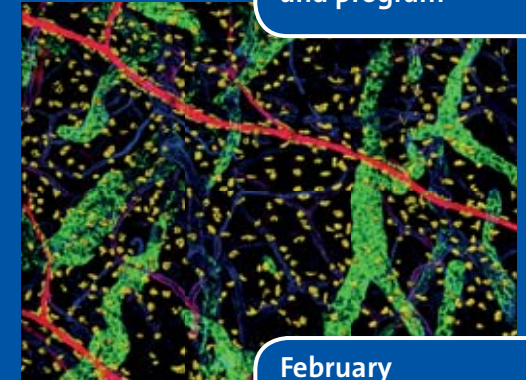
Otto-Krayer-Haus
Institut für Experimentelle und Klinische
Pharmakologie und Toxikologie
Albertstraße 25
79104 Freiburg im Breisgau

Registration and program
www.sfb850.uni-freiburg.de



4th INTERNATIONAL SYMPOSIUM Control of Cell Motility in Development and Cancer

Invitation
and program



February
20-22, 2019

Location:
Lecture Hall
Otto-Krayer-Haus
Albertstr. 25
79104 Freiburg

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Wednesday, February 20th

- 14.00 h **Registration**
- 16.00 h **Opening of the meeting**
(Christoph Peters)
- 16.05 h **Session I: Cell motility in physiology**
(Chair: Sebastian Arnold)
- 16.05 h **Roberto Mayor (London)**
Where the driving force in collective migration comes from?
- 16.35 h **Tim Lämmermann (Freiburg)**
Imaging immune cell migration in the interstitium
- 17.05 h **Anne-Kathrin Classen (Freiburg)**
Elimination of aberrant cells from epithelial tissues
- 17.35 h **Coffee Break**
- 18.00 h **Markus Affolter (Basel)**
Cell motility in angiogenesis; from imaging to protein manipulation
- 18.30 h **Robert Grosse (Marburg/Freiburg)**
Actin-based mechanisms in cell-in-cell invasion
- 19.00 h **Reception**

Thursday, February 21st

- 9.00 h **Introduction to Dr. Erik Sahai**
(Tilman Brummer)
- 9.05 h **Keynote lecture I: Erik Sahai (London)**
Cancer cells, stromal fibroblasts, and the choreography of invasion
- 10.00 h **Coffee Break**
- 10.30 h **Session II: Microenvironmental control of invasion**
(Chair: Wolfgang Driever)
- 11.00 h **Ian Frew (Freiburg)**
Understanding the development and progression of clear cell renal cell carcinoma using mouse genetics
- 11.30 h **Dieter Saur (München)**
Snail drives the cell cycle but not EMT to promote Kras-driven pancreatic cancer progression

- 12.00 h **Rebecca Kesselring (Freiburg)**
Direct and indirect effects of the microbiome on tumor barrier stability and metastasis of colorectal cancer
- 12.30 h **Danijela Matic Vignjevic (Paris)**
The dark side of fibroblast force
- 13.00 h **Alexander Nyström (Freiburg)**
Employing a genetic disease of the extracellular matrix to uncover mechanisms progressing squamous cell carcinoma
- 13.30 h **Lunch Break**
- 14.00 h **Poster Session with coffee**
- 16.00 h **Session III: Epigenetics and Systems Medicine**
(Chair: Silke Lassmann)
- 16.00 h **Nina Cabezas-Wallscheid (Freiburg)**
Regulation of hematopoietic stem cells
- 16.30 h **Denes Hnisz (Berlin)**
Transcriptional addiction in cancer
- 17.00 h **Marc Timmers (Freiburg)**
Building transcription complexes
- 17.30 h **Coffee Break**
- 18:00 h **Benedikt Brors (Heidelberg)**
Bioinformatics methods to inform targeted treatments and immunotherapies in cancer
- 18.30 h **Melanie Börries (Freiburg)**
Impact of BRAF in cancer using high-throughput data
- 19.00 h **Nils Blüthgen (Berlin)**
Quantitative modelling of RAS-mediated signal transduction in colon cancer, resolved at the single cell level
- 20.00 h **Speakers' Dinner**

Friday, February 22nd

- 9.00 h **Session IV: Modeling mammary cancer**
(Chair: Maja Köhn)
- 9.00 h **Martin Jechlinger (Heidelberg)**
A primary mammary organoid system to trace breast cancer evolution, treatment and emergence of residual disease

- 09.30 h **Thomas Reinheckel (Freiburg)**
The proteolytic landscape of tumor-initiating breast cancer cells
- 10.00 h **Cathrin Brisken (Lausanne)**
Models and mechanisms in hormone-dependent breast cancer development
- 10.30 h **Coffee Break**
- 11.00 h **Session V: Emerging aspects in tumor immunology**
(Chair: Stefan Fichtner-Feigl)
- 11.00 h **Jürgen Ruland (München)**
TCR and co-receptor signaling in T cell lymphoma
- 11.30 h **Susana Minguet (Freiburg)**
From molecular insights into TCR signaling to rational design of novel chimeric antigen receptors (CARs)
- 12.00 h **Hansjörg Schild (Mainz)**
Regulatory levels in control of DC function and induction of specific immunity
- 12.30 h **Lunch Break**
- 13.00 h **Poster Discussion with coffee**
- 15.00 h **Session VI: Targeted therapy**
(Chair: Christoph Peters)
- 15.00 h **Simone Fulda (Frankfurt)**
Novel opportunities to target cell death pathways in cancer
- 15.30 h **Robert Zeiser (Freiburg)**
Cooperation of oncogenes with immune escape
- 16.00 h **Andreas Strasser (Melbourne)**
How does the tumor suppressor p53 protect us from cancer?
- 16.30 h **Coffee Break**
- 17.00 h **Introduction to Dr. Klaus Pantel**
(Christoph Peters)
- 17.05 h **Keynote lecture II: Klaus Pantel (Hamburg)**
Circulating tumor cells: detection, biology and clinical applications
- 18.00 h **Final remarks**
(Christoph Peters)