

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 3<sup>rd</sup> 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](http://www.sfb850.uni-freiburg.de).

Sincerely yours,

Christoph Peters  
(Coordinator SFB 850)

**Registration and program**  
[www.sfb850.uni-freiburg.de](http://www.sfb850.uni-freiburg.de)

## Organizing and Scientific Program Committee

### SFB 850

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

Sebastian Arnold  
Melanie Bories  
Tilman Brummer  
Christoph Peters  
Thomas Reinheckel  
Gudula Schmidt  
Robert Zeiser

### Contact

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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**  
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## 3<sup>rd</sup> INTERNATIONAL SYMPOSIUM Control of Cell Motility in Development and Cancer

Invitation  
and program



March  
22-24, 2017

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

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## Wednesday, March 22<sup>nd</sup>

14.00 h	<b>Registration</b>
16.00 h	<b>Opening of the meeting</b> (Christoph Peters)
16.05 h	<b>Session I: Cell motility in development</b> (Chair: Anne Classen)
16.05 h	<b>Gilbert Weidinger (Ulm)</b> Cellular and molecular mechanisms of zebrafish regeneration
16.35 h	<b>Wolfgang Driever (Freiburg)</b> Fine-tuning large-scale epiboly gastrulation movement by control of microtubule dynamics
17.05 h	<b>Andreas Kispert (Hannover)</b> Dividing the early metanephric field - The role of Tbx18 in ureter specification
17.35 h	<b>Coffee Break</b>
18.00 h	<b>Toma Yakulov (Freiburg)</b> Collective cell migration in zebrafish pronephros regeneration
18.30 h	<b>Karina Yaniv (Rehovot)</b> t.b.a.
19.00	<b>Reception</b>

## Thursday, March 23<sup>rd</sup>

9.00 h	<b>Session II: Cells on the move</b> (Chair: Sebastian Arnold)
9.00 h	<b>Klemens Rottner (Braunschweig)</b> How formins optimise protrusion and migration
9.30 h	<b>Gudula Schmidt (Freiburg)</b> Fine tuning Rho GTPases for cancer cell motility
10.00 h	<b>Anne Ridley (London)</b> Rho GTPase signalling in cancer cell invasion and metastasis
10.30 h	<b>Coffee Break</b>
11.00 h	<b>Session III: Mechanisms of epithelial specification and transformation</b> (Chair: Jochen Maurer)
11.00	<b>Thomas Brabletz (Erlangen)</b> Cellular plasticity in cancer: driving force and therapeutic target
11.30 h	<b>Anne Classen (Freiburg)</b> Dynamics of epithelial architecture in health and disease

12.00 h	<b>Arndt Hartmann (Erlangen)</b> Malignant SWI/SNF deficiency tumors – specific morphological and molecular dedifferentiation pathway
12.30 h	<b>Ralf Baumeister (Freiburg)</b> Non-cellautonomous induction of germline stem cell tumors by epidermal signaling mechanisms
13.00 h	<b>Lunch Break</b>
13.30 h	<b>Poster session with coffee</b>
15.30 h	<b>Session IV: Systems medicine of cancer</b> (Chair: Oliver Schilling)
15.30 h	<b>Andreas Schuppert (Aachen)</b> System identification of chronic disease progression from cells to patients
16.00 h	<b>Melanie Börries (Freiburg)</b> Meta-analysis of cohort data for detection of early biomarkers for pancreatic cancer
16.30 h	<b>Roland Rad (München)</b> Transposon and CRISPR based approaches for high throughput functional cancer genomics in mice
17.00 h	<b>Coffee Break</b>
17.30 h	<b>Session V: Signaling in colorectal carcinoma</b> (Chair: Thomas Reinheckel)
17.30	<b>Andreas Hecht (Freiburg)</b> Gene regulatory networks downstream of the EMT inducer SNAIL1
18:00 h	<b>Ulrike Stein (Berlin)</b> MACC1 - a novel driver and biomarker for tumor progression and metastasis
18.30 h	<b>Tilman Brummer (Freiburg)</b> How does oncogenic BRAF signalling drive colorectal cancer?

## Friday, March 24<sup>th</sup>

9.00 h	<b>Session VI: Determinants of cancer progression</b> (Chair: Melanie Börries)
9.00 h	<b>Claudia Wellbrock (Manchester)</b> Phenotype heterogeneity in melanoma progression
09.30 h	<b>Sven Diederichs (Freiburg)</b> Non-coding RNAs in cancer cell migration and metastasis
10.00 h	<b>Silke Lassmann (Freiburg)</b> Modelling ErbB dimerization and signalling in esophageal carcinogenesis and progression

10.30 h	<b>Coffee Break</b>
11.00 h	<b>Session VII: Tumor microenvironment</b> (Chair: Tilman Brummer)
11.00 h	<b>Paul Timpson (Sydney)</b> Imaging tumour invasion and metastasis in live tissue using intravital biosensors
11.30 h	<b>Stefan Fichtner-Feigl (Freiburg)</b> Local barrier function and colon cancer progression
12.00 h	<b>Rama Khokha (Toronto)</b> Metalloproteinase inhibitors and tumor progression
12.30 h	<b>Robert Zeiser (Freiburg)</b> The role of biglycan in the tumor microenvironment
13.00 h	<b>Lunch Break</b>
15.00 h	<b>Session VIII: Cancer Theranostics</b> (Chair: Robert Zeiser)
15.00 h	<b>Simone Fulda (Frankfurt)</b> Novel opportunities to target programmed cell death in cancer
15.30 h	<b>Roland Schüle (Freiburg)</b> Make my metabolism: Prostate Cancer unplugged
16.00 h	<b>Matthew Albert (Genentech)</b> t.b.a.
16.30 h	<b>Coffee Break</b>
17.00 h	<b>Keynote lecture</b> <b>Introduction to Dr. Dean W. Felsher</b> (Robert Zeiser)
17.05 h	<b>Dean W. Felsher (Stanford)</b> The MYC Oncogene Regulates the Immune Response
18.05 h	<b>Final remarks</b> (Christoph Peters)
19.30 h	<b>Speakers' Dinner</b>