



// BrainLinks
BrainTools
acting thoughts



IMBIT //
Intelligent Machine-Brain Interfacing
Technology



UNIVERSITÄTS
KLINIKUM FREIBURG



Location

Otto-Krayer-Haus
Albertstraße 25
79104 Freiburg

Registration

www.neuro.uni-freiburg.de/events
Please register by Friday, October 4, 2019

Contact

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Profile field spokespersons

PD Dr. Tonio Ball
Prof. Dr. Ilka Diester
Prof. Dr. Thomas Stieglitz



Profile Field
**Freiburg
Neuroscience &
Neurotechnology**

1st Annual Retreat

Friday, October 11, 2019
11 AM to 5:30 PM

Image: Brice de la Crompte & Ilka Diester

Program

Friday, October 11, 2019

- 10:30-11:00** Registration
11:00-11:05 Opening
Prof. Dr. Ilka Diester (Faculty of Biology)
11:05-11:10 Welcome note
Prof. Dr. Gunther Neuhaus, Vice rector

Session I: New in the Region

Chair: Prof. Dr. Ilka Diester
(Faculty of Biology)

- 11:10-11:30** **Spatial hearing with two cochlear implants – When timing matters!**
Dr. Nicole Rosskothén-Kuhl
(Medical Faculty)
- 11:30-11:50** **Circuit mechanisms of cortico-cortical interactions in visual processing**
Dr. Julia Veit, Emmy Noether research group leader (Medical Faculty)
- 11:50-12:10** **Cracking circuits in the vertebrate brain: lessons from zebrafish**
Prof. Dr. Johann Bollmann
(Faculty of Biology)
- 12:10-12:30** **Reinforcement Learning for Neuroscience**
Prof. Dr. Joschka Bödecker
(Faculty of Engineering)

12:30-13:30 Lunch Break

Session II: Collaborative Research & Infrastructure Part I

Chair: Prof. Dr. Joschka Bödecker
(Faculty of Engineering)

- 13:30-13:50** **NeuroMod**
Prof. Dr. Andreas Vlachos
(Medical Faculty)



- 13:50-14:10** **Intelligent Machine-Brain Interfacing technology (IMBIT)**
Prof. Dr. Ilka Diester
(Faculty of Biology)



- 14:10-14:30** **Microscopy and Image Analysis Platform (MIAP)**
Tobias Wernet



- 14:30-14:50** **Institute for Disease Modeling and targeted Medicine (IMITATE)**
Dr. Martin Helmstädter
(Medical Faculty)

14:50-15:30 Coffee Break

Session III: Collaborative Research & Infrastructure Part II

Chair: Prof. Dr. Andreas Vlachos
(Medical Faculty)

- 15:30-15:50** **Neurex**
Prof. Dr. Ulrich Egert
(Faculty of Engineering)



- 15:50-16:10** **CRC-TRR 167 NeuroMac**
Prof. Dr. Marco Prinz
(Medical Faculty)



- 16:10-16:30** **CRC Initiative How the brain works work**
Prof. Dr. Bernd Fakler (Medical Faculty)

- 16:30-16:50** **CRC-TRR Initiative InterRep**
Prof. Dr. Marlene Bartos (Medical Faculty)

- 16:50-17:10** **CRC-TRR Initiative micro-implant-translation**
Prof. Dr. Gerald Urban
(Faculty of Engineering)

17:10-17:20 Closing remarks