

# Workshop on Functional imaging

Venue: Lecture Hall, Leibniz Research Centre for Working Environment and Human Factors; Ardeystraße 67; 44139 Dortmund

Organization and sponsoring: Leibniz Research Alliance of Bioactive Compounds and Biotechnology

6th December 2018 15:00 – 7th December 2018, 12:30

## Preliminary Program

### December 6th, 2018

15:00-15:15: **Jan Hengstler** (*IfADo Dortmund*): welcome and introduction

15:15 – 15:45: **Nachiket Vartak** (*IfADo Dortmund*), “Beyond Visual Range: Multi-dimensional imaging for biology”

15:45 – 16:15: **Thomas Huser** (*Bielefeld University*), “High-speed super-resolution microscopy of cellular dynamics”

16:15 – 16:45: **Erik Freier**, (*ISAS Dortmund*), CARS Imaging: possibilities and limitations

16:45 – 17:15: **Stefan Höhme** (*IZBI, Leipzig*), Image analysis, machine learning

*17:15 until open end: further discussion at the meeting place with snacks and diner available*

### December 7th, 2018

9:30 – 10:00: **Ahmed Ghallab** (*IfADo Dortmund*), Intravital two-photon imaging

10:00 – 10:30: **Matthias Prigge** (*Leibniz Institute for Neurobiology, Magdeburg*), Optogenetic stimulation of axonal projections and synapses and reporter systems

10:30 – 11:30: **Tobias Jung** (*DIfE, Berlin*), Imaging of oxidative stress and lipofuscin

11:30 – 12:00: **Oliver Bruns** (*Helmholtz-Munich*), real-time magnetic resonance imaging and quantification of lipoprotein; imaging with short-wave infrared quantum dots

*12:00 – open end: further discussion with lunch and snacks available in the meeting room.*

Presentations will be 15-20 min followed by approximately 10 min discussion.