

Platform Imaging Workshop 2019

23. / 24. October in Munich



HelmholtzZentrum münchen
Deutsches Forschungszentrum für Gesundheit und Umwelt



Program

DAY 1 (Lectures, CPC-M, seminar room)

- 12:00 – 12:30 **Registration/Snacks**
- 12:30 – 12:45 **Welcome**
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- 12:45 – 13:05 **Introduction to small animal imaging**
Prof. Dr. Ralph Schermuly, Universities of Gießen and Marburg Lung Center, Gießen
- 13:05 – 13:25 **Intravital microscopy**
PD Dr. Markus Rehberg, Comprehensive Pneumology Center. Institute of Lung Biology and Disease (iLBD), Helmholtz Zentrum München
- 13:25 – 13:45 **tba, PD Dr. Katharina Hellbach, Diagnostic and Interventional Radiology, Translational Lung Research Center Heidelberg (TLRC)**
- 13:45 – 14:05 **Small animal imaging in pulmonary hypertension: focus on microCT**
Dr. Baktybek Kojonazarov, Universities of Gießen and Marburg Lung Center, Gießen
- 14:05 – 14:25 **Three-dimensional co-mapping of lung morphology and nanoparticle distribution in non-dissected, tissue-cleared murine lungs: New insights into deposition, cellular uptake and biokinetics of nanoparticles**
Dr. Otmar Schmid, Helmholtz Zentrum München
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- 14:25 – 14:50 **Coffee break**
- 14:50 – 15:10 **tba, Prof. Dr. Julien Dinkel, Department of Radiology, Klinikum der Universität München**
- 15:10 – 15:30 **tba, from Radiology**
- 15:30 – 16:20 **Keynote lecture, tba, AI/Machine Learning**
Dr. Carsten Marr, Institute of Computational Biology, Helmholtz Zentrum München
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- 16:20 – 16:50 **Coffee break**
- 16:50 – 18:20 **General discussion, site updates; organizational matters**
Prof. Dr. Hans-Ulrich Kauczor Diagnostic and Interventional Radiology, Translational Lung Research Center Heidelberg (TLRC), Prof. Dr. Peter König, Institut für Anatomie Lübeck, Airway Research Center North (ARCN)
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- 19:30 **Dinner**

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DAY 2 (Workshops, Study Groups; Participants divided into groups, workshop no.3 at different location)

Study group meetings at CPC-M, Munich-Großhadern

08:45 – 09:45 **MRI-Change Study Group Meeting**

Prof. Dr. Jens Vogel-Claussen, Institute for Radiology, Medizinische Hochschule Hannover

08:45 – 09:45 **Human Lung Atlas Working Group**

Prof. Dr. Wolfgang Kummer, Institut für Anatomie und Zellbiologie, Universities of Gießen and Marburg Lung Center (UGMLC)

Workshops at CPC-M, Munich-Großhadern

10:00 – 13:00 **Workshop 1: AI in Radiology (CPC-M, seminar room)**

Prof. Dr. Michael Ingrisch, Prof. Dr. Julien Dinkel, Department of Radiology, Klinikum der Universität München

10:00 – 13:00 **Workshop 2: Lightsheet 4D microscopy, 4D Image Processing, Virtual Reality (CPC-M, small seminar room, labs and microscopy room)**

Dr. Gerald Burgstaller / Séverine Somlo, Comprehensive Pneumology Center (CPC)/ILBD, Helmholtz Zentrum München
max. 8 participants

Workshop at Helmholtz Zentrum, Munich Neuherberg

10:00 – 13:00 **Workshop 3: Intravital Microscopy**

Dr. Markus Rehberg, Comprehensive Pneumology Center, Institute of Lung Biology and Disease (iLBD), Helmholtz Zentrum München

Will include demonstration of ventilator-assisted aerosol delivery system

max. 8 participants