



# International Symposium on BioMedical Applications of X-Ray Phase Contrast Imaging

## PROGRAM

Thursday 29 January 2015

14:00-14:45 **Keynote Lecture**  
*Franz Pfeiffer, Technical University Munich, Garching, Germany*

14:45-15:30 **Keynote Lecture**  
*Ewald Rößl, Philips Research Laboratories, Hamburg, Germany*

15:30-16:00 *Coffee*

16:00-16:20 **Electronic versus mechanical phase stepping in grating Talbot phase-contrast imaging**  
*Katherine Harmon, National Institutes of Health, USA*

16:20-16:40 **Fabrication of high x-ray absorption gratings via deep x-ray lithography for grating-based phase contrast imaging**  
*Pascal Meyer, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany*

16:40-17:00 **Scaling of grating-based phase-contrast imaging towards clinical x-ray systems**  
*Martino Leghissa, Siemens AG, Healthcare Sector, Forchheim, Germany*

17:00-17:20 **Grading of steatosis and liver-fibrosis using phase-contrast imaging**  
*Marco Armbruster, University Hospital Grosshadern, Munich, Germany*

17:20-17:40 **Renal stone assessment with x-ray dark-field radiography**  
*Marian Willner, Technical University Munich, Germany*

17:40-18:00 **Grating-based phase-contrast CT: A new method for differentiation of renal tumor subtypes ex-vivo**  
*Margarita Braunagel, University Hospital Grosshadern, Munich, Germany*

18:30-20:00 *Dinner*

20:00-22:00 **Posters**

**Friday 30 January 2015**

09:00-09:45 **Keynote Lecture**  
*Tobias Saam, University Hospital Grosshadern, Munich, Germany*

09:45-10:30 **Keynote Lecture**  
*Thomas Helbich, Medical University of Vienna, Vienna, Austria*

10:30-11:00 *Coffee*

11:00-11:20 **Regularized fringe analysis in differential x-ray phase contrast imaging**  
*Jonathan Sperl, GE Global Research, Garching, Germany*

11:20-11:40 **Assessment of breast microcalcifications via x-ray dark-field radiography**  
*Kai Scherer, Technical University Munich, Germany*

11:40-12:00 **Dark field imaging in a series of surgery specimens of breast cancer patients**  
*Peter Fasching, University Hospital Erlangen, Erlangen Nuremberg, Germany*

12:00-12:20 **In vivo x-ray phase-contrast and dark-field small-animal CT imaging**  
*Andre Yaroshenko, Technical University Munich, Germany*

12:20-12:40 **AHA lesion type classification of coronary and carotid atherosclerotic plaque by grating-based phase-contrast computed tomography**  
*Nicole Webber, University Hospital Grosshadern, Munich, Germany*

12:40-13:00 **Murine brain tumor growth studied by grating-based phase contrast microtomography**  
*Georg Schulz, Biomaterials Science Center, University of Basel, Switzerland*