



PROGRAM 2016

5th International Symposium on **BioMedical Applications of X-Ray Phase Contrast Imaging**

Thursday 21 January 2016

KEYNOTE SESSION I - Chair: Julia Herzen

14:00-14:45 **Keynote Lecture**
Gisela Anton, Friedrich-Alexander-University Erlangen-Nuernberg, Erlangen,
Germany

14:45-15:30 **Keynote Lecture**
Julien Dinkel, University Hospital Grosshadern, Munich, Germany

15:30-16:00 COFFEE

TALK SESSION I - Chair: Kaye Morgan

16:00-16:20 **Dentinal tubules revealed with x-ray tensor tomography**
Christoph Jud, Technical University Munich, Garching, Germany

16:20-16:40 **X-ray phase contrast and dark-field contrast imaging with speckles**
Yogesh Kashyap, Diamond Light Source, Didcot, United Kingdom

16:40-17:00 **Talbot-Lau Phase Contrast for tiling-based acquisitions without
reference scanning**
Sebastian Kaeppler, Friedrich-Alexander-University Erlangen-Nuernberg,
Erlangen, Germany

17:00-17:20 **Tilted grating laboratory phase-contrast computed tomography using
statistical iterative reconstruction**
Lorenz Birnbacher, Technical University Munich, Garching, Germany

17:20-17:40 **Recent advances in x-ray phase-contrast imaging for biomedical
applications at Diamond I13 Beamline**
Marie-Christine Zdora, Diamond Light Source, Didcot, United Kingdom

17:40-18:00 **A Phantom Study of Calcification Detection by an X-Ray Polychromatic
Far-Field Interferometer**
Sami Znati, National Institutes of Health, Bethesda, USA

18:00-18:20 **Propagation-based phase-contrast imaging of subcellular muscle
structures in whole-animal zebrafish**
William Vågberg, KTH Royal Institute of Technology/Albanova, Stockholm,
Sweden



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18:30-20:00 DINNER

20:00-22:00 **POSTERS**

Friday 22 January 2016

KEYNOTE SESSION II - Chair: Paola Coan

09:00-09:45 **Keynote Lecture**
Hans M. Hertz, KTH Royal Institute of Technology/Albanova, Stockholm, Sweden

09:45-10:30 **Keynote Lecture**
Les Butler, Louisiana State University, Baton Rouge, USA

10:30-11:00 COFFEE

TALK SESSION II - Chair: Felix Meinel

11:00-11:20 **Lung aeration at birth in a rabbit model of congenital diaphragmatic hernia**
Andreas W. Flemmer, University Hospital Grosshadern, Munich, Germany

11:20-11:40 **Imaging the airway surface with single-grid x-ray phase contrast**
Kaye S. Morgan, Monash University, Clayton, Australia

11:40-12:00 **Nice images, now what? A clinical approach to dark-field imaging of the lung**
Katharina Hellbach, University Hospital Grosshadern, Munich, Germany

12:00-12:20 **Measuring Specimens of Human Anatomy in High-Energy X-Ray Grating-Based Phase-Contrast Radiography**
Florian Horn, Friedrich-Alexander-University Erlangen-Nuernberg, Erlangen, Germany

12:20-12:40 **Phase Contrast micro-imaging in neuroscience**
Giacomo Barbone, Ludwig-Maximilians-University, Garching, Germany

12:40-13:00 **Dose and diagnostic evaluation of the first clinical study on mammography with synchrotron radiation**
Luigi Rigon, University of Trieste, Trieste, Italy