# Southampton Bio Imaging Symposium 2017

## University of Southampton and University Hospital Southampton

## Sponsored by ZEISS

### Venue: Centre for Human Development: Stem Cells and Regeneration, University Hospital Southampton, Tremona Road, Southampton, SO16 6YD

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| 10:00 – 10:20 | Registration, coffee/tea |
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| 10:20 – 10:25 | Welcome speech by Prof Sumeet Mahajan, Institute for Life Sciences, University of Southampton and Dr Dave Johnston, Biomedical Imaging Unit, University of Southampton and University Hospital Southampton |
| **Session 1**  Chair: Sumeet Mahajan | |
| 10:25–10:55 | Dr Gopi Shah, CRUK, University of Cambridge;  ‘Light sheet microscopy: Prospects and challenges of high-speed volume imaging’ |
| 10:55-11:25 | Dr Simon Lane, Institute for Life Sciences, University of Southampton;  ‘The Spindle Assembly Checkpoint in mouse oocytes, a live cell imaging approach’ |
| 11:25–11:55 | Dr Stephen Thorpe, Queen Mary University London;  ‘Super-resolution structured illumination microscopy: a versatile tool resolving primary cilium structure and protein interactions in the nucleus’ |
| 11:55–12:25 | Dr Verena Kriechbaumer, Oxford Brookes University;  ‘The “new nature” of the plant endomembrane system with high resolution Airyscan imaging’ |
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| 12:25-13:30 | Lunch, discussion |
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| **Session 2**  Chair: Dave Johnston | |
| 13:30–14:00 | Dr Claire Jackson, University of Southampton and University Hospital Southampton PCD group;  ‘Diagnosis of Primary Ciliary Dyskinesia by Microscopical Methods’ |
| 14:00–14:30 | Dr Sue Vaughan, Oxford Brookes University;  ‘Using SBF-SEM to investigate cell cycle changes in organelle distribution in *Trypanosome brucei*’ |
| 14:30–15:00 | Prof Rohan Lewis, University of Southampton;  ‘Multiscale three dimensional imaging of the human placenta’ |
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| 15:00 – 15:30 | Coffee break |
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| **Session 3**  Chair: Katherine Lau | |
| 15:30–16:00 | Monika Stich, Carl Zeiss Microscopy;  ‘Laser Microdissection – bridging the gap between Microscopy and Molecular Analysis’ |
| 16:00 – 16:30 | Dr Peter Gordon, Kings College London;  ‘A multi-modal, multi-scale imaging approach to visualising immune interactions in the tumour draining lymph node’ |
| 16:30 – 17:00 | Dr Sumeet Mahajan, Institute for Life Sciences, University of Southampton;  ‘Multimodal Non-Linear Label-Free imaging for Biomedical Applications’ |
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| 17:00–17:05 | Closing speech, Dr Katherine Lau, Carl Zeiss Ltd - Microscopy |