

List of Posters



Posters will be displayed in room High Tor 5 adjacent to the Lecture Theatre, High Tor 2. The posters can be viewed throughout the conference and time has been allocated in the programme on **Thursday 1 September** from 14:30 specifically for poster viewing. Posters can also be viewed during the morning and afternoon coffee breaks and lunch breaks on **Thursday 1 and Friday 2 September**.

Posters are listed alphabetically by lead author, and the 'No.' listed below corresponds with the display board in the poster area.

Poster prizes will be awarded during the Conference Banquet at Sheffield City Hall on **Friday 2 September**.

No. Poster details

- 1 Exploring human skin using LSM: a dermatological application
Sophie Abadie (ITAV)
- 2 Visualizing nanoparticles uptake and localization in Drosophila embryos using SPIM and Confocal microscopy
Majed Alqasoumi (University of Exeter)
- 3 Light-sheet microscopy imaging of a whole cleared rat brain with Thy1-GFP transgene
Jordi Andilla (ICFO)
- 4 GPU-based image processing for multiview microscopy data
Balint Balazs (EMBL)
- 5 Morphogenesis of the lateral semicircular canal in the zebrafish embryo
Davide Baldera (University of Sheffield)
- 6 Endocardial chamber development in zebrafish
Dorothee Bornhorst (Hannover Medical School)
- 7 Ring-Sheet microscopy for single particle tracking of virus particles in the host nucleus
Jens Bosse (Heinrich Pette Institute Hamburg)
- 8 Two-color multiphoton scanned light-sheet microscope for observation of processes in zebrafish larvae
Jana Bürgers (University of Bonn)
- 9 An experimental study of the interaction between green microalgae and Titanium Dioxide nanoparticles
Anderson Caires (Federal University of Mato Grosso do Sul)
- 10 Glucose activates Calcineurin/NFAT to ignite and drive heterogeneous maturation of B cells revealed by *in vivo* Light-Sheet imaging
Liangyi Chen (Peking University)

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- 11 A study of cell size dependent and independent coordination of Cytokinesis in *Danio rerio*
Scott Clarke (University of Warwick)
- 12 Systematic analysis of vasculature patterning in zebrafish
Stephan Daetwyler (Max Planck Institute of Molecular Cell Biology and Genetics)
- 13 Implementation of Bessel beam illumination into the scanning thin sheet laser imaging microscope (sTSLIM)
Oliver Dannberg (TU Ilmenau)
- 14 Virtual Histology: Three-dimensional insight into tumor biology and whole mouse organ morphology using bidirectional triple light-sheet fluorescence microscopy (BTLFSM)
Michael Dobozy (Roche Diagnostics GmbH)
- 15 Light-Sheet microscopy identifies *Cryptococcus neoformans* manipulation of blood brain barrier endothelial cells in a zebrafish infection model
Robert Evans (University of Sheffield)
- 16 Spatiotemporal organization during early embryogenesis of *Caenorhabditis Elegans*
Rolf Fickentscher (University of Bayreuth)
- 17 Confocal two-photon light-sheet microscopy for *in vivo* imaging of zebrafish larvae
Alexander Harder (University of Bonn)
- 18 A light-sheet fluorescence microscope optimized for photolysis and imaging mammalian brain tissue
Peter Haselhurst (University of Oxford)
- 19 Comparison of fructose/urea immersion-based protocols for optical clearing of brain tissue
Sven Hildebrand (Maastricht University)
- 20 Investigating real time infection dynamics of the pathogen *Staphylococcus aureus* within a zebrafish host
Rebecca Hodges (University of Sheffield)
- 21 Multi-directional light-sheet sweeping
Gaël Launay (PhaseView)
- 22 3D high resolution imaging with wavefront coding and light-sheet microscopy
Jacob Licea (ICFO)

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- 23 Stage-scanning oblique plane microscopy applied to three-dimensional time-lapse imaging of glucose dynamics in multicellular tumour spheroids expressing a Förster resonance energy transfer biosensor
Vincent Maioli (Imperial College London)
- 24 Implementation of a commercial Light-Sheet setup (Z.1) in a multi-user facility: promises and pitfalls
Marco Marcello (University of Liverpool)
- 25 Emergence of bilaterally symmetric somites
Sundar Naganathan (The Francis Crick Institute)
- 26 Airy beams for Light-Sheet microscopy
Jonathan Nylk (University of St Andrews)
- 27 Light-Sheet elastic-scattering microscopy
Omar Olarte (ICFO)
- 28 Extraembryonic membranes in insects: how an evolutionary novelty provides a model for epithelial remodeling
Kristen Panfilio (University of Cologne)
- 29 Visualizing microbial competition in the larval zebrafish gut
Raghuveer Parthasarathy (University of Oregon)
- 30 A capacitive division imaging readout detector for light-sheet FLIM
Roger Phillips (University of Sussex)
- 31 Light-sheet microscopy combined with Magnetic Tweezers can probe the deep tissue mechano-biology of developing zebrafish embryos
Craig Russell (Cambridge University)
- 32 Fast volumetric imaging by means of acousto-optic devices
Giuseppe Sancaltado (Istituto Italiano di Tecnologia)
- 33 Light-Sheet fluorescence microscopy to study nervous system wide neural dynamics in *C. elegans*
Edmundo Sánchez Guajardo (Vienna Biocenter Core Facilities GmbH)
- 34 Can we image the early events of nodule organogenesis in the *Medicago* root *in vivo*?
Katharina Schiessl (John Innes Centre)

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- 35 Examination of optically cleared brain samples with two-photon laser scanning microscopy and confocal laser scanning microscopy
Anna Schueth (Maastricht University)
- 36 Understanding the dynamics of Her6 expression during neurogenesis in Zebrafish
Ximena Soto (University of Manchester)
- 37 Stage-scanning oblique plane microscopy for automatic 3-D fluorescence imaging of cell invasion into 3-D collagen gels arrayed in 96-well plates
Hugh Sparks (Imperial College London)
- 38 Mechanosensing in different adhesive environments: using Light-Sheet microscopy to assess cell behaviour across tissue layers
Georgina Stooke-Vaughan (University of Manchester)
- 39 The role of *stxbp1a* in the regulation of motor neuron morphogenesis and neuromuscular synapse formation in zebrafish
Dheemanth Subramanya (University of Sheffield)
- 40 Intracellular diffusion studied by Light-Sheet fluorescence microscopy (LSFM)
Fereydoon Taheri (German Cancer Research Centre)
- 41 Light-Sheet Imaging and analysis of the developing zebrafish inner ear
Nick Van Hateren (University of Sheffield)
- 42 Photoswitching enhances contrast in Light-Sheet microscopy
Tom Vettenburg (University Carlos III Madrid)
- 43 500mW 930nm femtosecond fiber laser for two-photon scanned Light-Sheet microscope
Aimin Wang (Peking University)
- 44 Quantitative evaluation of accuracy and variance of individual pixels in a scientific CMOS (sCMOS) camera for light sheet microscopy
Shigeo Watanabe (Hamamatsu Photonics K.K.)
- 45 OpenSPIM: Developing Light-Sheet microscopy for rapid imaging of toxicant exposure responses in transgenic zebrafish
Dylan Windell (University of Exeter)
- 46 SPIM- μ PIV in the developing zebrafish
Vytautas Zickus (University of Glasgow)
- A One Year of Light Sheet Microscopy in the Museum
Wiebke Jahr (Huisken lab, MPI-CBG)