



From Images to Knowledge with ImageJ & Friends

EMBL CONFERENCE

We have moved our website to embl.org/events. The content below is no longer being updated.

EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found [here](#).

Programme

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Day 1 - Thursday 6 December 2018

| Time | Speaker |
|---------------|---|
| 11:00 - 12:45 | Arrival and registration |
| 12:45 - 13:00 | Welcome and opening remarks |
| | ImageJ |
| | Curtis Rueden - <i>Laboratory for Optical and Computational Instrumentation, USA</i> |
| 13:00 - 13:45 | Tobias Pietzsch - <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| | Christian Dietz - <i>KNIME, Germany</i> |

| Time | Speaker |
|---------------|--|
| | Session 1 - Light microscopy 1 |
| 13:45-15:00 | Chair: Pavel Tomancak , <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| 13:45-14:15 | Using morphological profiling to extract the most from your images Beth Cimini - <i>Broad Institute, USA</i> |
| 14:15-14:45 | Title TBC Jeremy Freeman - <i>Chan Zuckerberg Initiative, USA</i> |
| 14:45-15:00 | Quantitative imaging of motile cilia to investigate fluid flows and chirality in the left-right organizer Willy Supatto - <i>Ecole polytechnique, CNRS , INSERM, France</i> |
| 15:00-15:30 | Coffee break and Meet the Invited Speaker: Beth Cimini, Jeremy Freeman |
| 15:30-18:00 | Session 2 - Machine learning Chair: Anna Kreshuk - <i>EMBL Heidelberg, Germany</i> |
| 15:30-16:00 | The road to deeper ilastik Anna Kreshuk - <i>EMBL Heidelberg, Germany</i> |
| 16:00 - 16:15 | KNIME Image Processing: Status Quo and Future Directions Christian Dietz - <i>KNIME, Germany</i> |
| 16:15 - 16:30 | Introducing Yaptic: A New Tool for Biologists to Perform Complex Image Segmentation with Deep Learning Christoph Möhl - <i>German Center for Neurodegenerative Disease (DZNE), Germany</i> |
| 16:30 - 17:00 | Coffee break |
| 17:00 - 17:30 | Content-Aware Image Restoration for Light and Electron Microscopy Facilitates Quantitative Data Analysis Florian Jug - <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| 17:30 - 17:45 | Automated Annotation of C. Elegans: How much Training Data is Needed? Dagmar Kainmueller - <i>Berlin Institute of Health, Max Delbrück Center for Molecular Medicine, Germany</i> |
| 17:45-18:00 | Flash talks (1 slide/2mins each) Albert #23 / Botelho #31/ Bujak #35 / Meyenhofer #79 / Schmidt #95 |
| 18:00-19:30 | Poster Session 1 (odd numbers) |
| 19:30 | Free evening |

Day 2 - Friday 7 December 2018

| Time | Speaker |
|-------------|---|
| | Session 3 - Light microscopy 2 |
| 09:00-10:15 | Chair: Florian Jug - <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| 09:00-09:30 | Correlative Light-Electron Microscopy Based High Resolution Nuclear Model of C. elegans Dauer Ella Bahry - <i>Max Delbrück Center for Molecular Medicine, Germany</i> |
| 09:30-10:00 | NanoJ-SQUIRREL: quantitative mapping and minimisation of super-resolution optical imaging artefacts Siân Culley - <i>University College London, UK</i> |
| 10:00-10:15 | BigStitcher: Reconstructing high-resolution image datasets of cleared and expanded samples Stephan Preibisch - <i>Max Delbrück Center for Molecular Medicine, Germany</i> |
| 10:15-10:45 | Coffee break and Meet the Invited Speaker: Stephan Preibisch |
| 10:45-12:00 | Session 4 - Electron Microscopy analysis Chair: Christian Tischer - <i>EMBL Heidelberg, Germany</i> |
| 10:45-11:15 | Mapping and analyzing neuronal circuits with CATMAID software Albert Cardona - <i>Janelia Research Campus, USA</i> |
| 11:15-11:45 | N5, ImgLib2-Cache, BigDataViewer, and Spark: my favorite open-source eco-system for super-large image data Stephan Saalfeld - <i>Howard Hughes Medical Institute, USA</i> |
| 11:45-12:00 | webKnossos: efficient online 3D data annotation Norman Rzepka - <i>scalable minds GmbH, Germany</i> |
| 12:00-13:30 | Lunch |
| 13:30-15:00 | 5 Parallel Workshops - Session 1 |
| 15:00-15:30 | Coffee break and Meet the Invited Speakers: Albert Cardona, Stephan Saalfeld |
| 15:30-16:55 | 5 Parallel Workshops - Session 2 |
| 17:00-17:15 | NEUBIAS talk Julien Colombelli, <i>IRB Barcelona, Spain</i> |

| Time | Speaker |
|---------------|--|
| 17:15 - 17:30 | A natural-language based syntax for animating 3D/4D imaging data Benjamin Schmid - <i>Friedrich-Alexander University of Erlangen-Nuremberg, Germany</i> |
| 17:30 - 17:45 | Mastodon -- a large-scale track-editing framework for Fiji Tobias Pietzsch - <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| 17:45-18:00 | Flash Talks (1 slide / 2mins each) Arzt #25 / Cheeseman #41 / Günther #54 / Jain #63 / Mais #75 |
| 18:00-19:30 | Poster Session 2 (even numbers) |
| 19:30-21:30 | Conference Dinner |
| 21:30-00:00 | Conference Party |

Day 3 - Saturday 8 December 2018

| Time | Speaker |
|-------------|--|
| 09:00-10:15 | Sesion 5 - Atlas projects Chair: Christophe Zimmer - <i>Institut Pasteur, France</i> |
| 09:00-09:30 | Deep learning as a tool in microscopy data analysis and digital pathology Carolina Wählby - <i>Uppsala University, Sweden</i> |
| 09:30-10:00 | Archives, Resources and Atlases: An OME Perspective on Structuring Data for the Long Haul Josh Moore - <i>University of Dundee, UK</i> |
| 10:00-10:15 | The mitotic cell atlas Jean-Karim Heriche - <i>EMBL Heidelberg, Germany</i> |
| 10:15-10:45 | Coffee break and Meet the Invited Speaker: Josh Moore, Virginie Uhlmann, Christoph Zimmer |
| 10:45-12:00 | Session 6 - Tools and Methods Josh Moore - <i>University of Dundee, UK</i> |
| 10:45-11:15 | New computational lenses for single molecule super-resolution microscopy Christophe Zimmer - <i>Institut Pasteur, France</i> |
| 11:15-11:45 | Title TBC Virginie Uhlmann - <i>EMBL-EBI, United Kingdom</i> |

| Time | Speaker |
|-------------|---|
| 11:45-12:00 | Example of an end-to-end application of imaging and image analysis to solve a biological problem Pavel Tomancak , <i>Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i> |
| 12:00-12:15 | Closing remarks and Poster Prizes |
| 12:15-12:45 | Packed lunch and departure |
| 12:45 | Bus departures downtown and to Frankfurt Airport |