

PANOS Spring Meeting 24.03.2023 – Max Planck Institute for Biology Tübingen

Deep Learning for EM

- 09:00 Welcome Note
- 09:15 **Constantin Pape**, Georg-August-Universität Göttingen, Campus-Institute Data Science (CIDAS)
“Democratizing Deep Learning for Microscopy Image Analysis”
- 10:00 **Ilya Belevich**, University of Helsinki, Institute of Biotechnology, Finland
“Image segmentation with deep learning: from rocket science to a DIY project”
- 10:45 Coffee Break
- 11:15 **Kavitha Shaga Devan**, Universität Ulm
“Deep learning methods for the automated detection of human Cytomegalovirus”
- 11:30 **Dmytro Pychkov**, Cellular Imaging Core Facility, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin
“Mitochondrial and ER morphology in adaptive metabolic response to nutrient deprivation”
- 11:45 **Chukwuebuka William Okafornta**, Core Facility Cellular Imaging, TU Dresden
“Three-dimensional reconstruction of spindles in the late *C. elegans* embryo”
- 12:00 **Sofie Englisch**, Institut für Biochemie I, Uniklinikum Jena
“At the periphery: Analyzing the character of membrane binding of the N-Ank family”
- 12:15 PANOS Affairs
- 12:20 Lunch Break
- 13:45 **Ben Giepmans**, online, Biomedical Sciences of Cells & Systems, UMC Groningen, The Netherlands
“ColorEM to IDENTIFY”
- 14:00 **Fabian Link**, online, Zell- und Entwicklungsbiologie, Biozentrum, Universität Würzburg
“The 3D architecture of the *Trypanosoma brucei* endosomes reveals the structural basis for rapid plasma membrane recycling”
- 14:15 **Felix Gaedke**, CECAD Imaging Facility, Electron Microscopy, CECAD Cluster of Excellence, University of Cologne
“Pre-embedding CLEM, a practical approach for cells and tissue”
- 14:30 **Luis Kuhn Cuellar**, QBIC, Universität Tübingen
„nf-root: a best-practice pipeline for deep learning-based analysis of microscopy images of plant root tissue”
- 14:45 **Michael Hess**, Department für Anatomie, Histologie und Embryologie, Medizinische Universität Innsbruck
„Carombole Immuno-Gold: gadget or gimmick?”
- 15:00 General discussion
- 15:30 End