

TURKU BIOIMAGING

NEWSLETTER



TURKU
BIOIMAGING

WELCOME TO THE TBI NEWSLETTER!

Turku Bioimaging (TBI) is an independent umbrella organization that coordinates imaging activities, funding, and education in Turku, Finland. TBI also provides open access services in image data analysis. In this issue, we cover the latest TBI news and events. Sign up for the **TBI Newsletter mailing list** and follow us in **LinkedIn** and **X (Twitter)** to stay up to date! Happy summer from TBI team!

FIRI 2024 ROADMAP CALL

This spring the Research Council of Finland (RCF) opened the call for research infrastructures – “**FIRI 2024 roadmap call: roadmap for national research infrastructures 2025-2028**”. This two-staged call selects research infrastructures that will be included in the roadmap and granted funding. TBI coordinated and wrote the proposal for **Euro-BioImaging Finland**.

This is Finland's largest imaging proposal to date, combining for the first time top imaging facilities from 7 universities and 3 university hospitals, highlighting our advanced imaging coordination. The proposal covers our two Euro-BioImaging Nodes, Finnish Biomedical Imaging (FiBI) and Finnish Advanced Microscopy (FIAM). The applications will be reviewed by international experts, with final decisions in late 2024/early 2025.



HOW CAN RESEARCH INFRASTRUCTURES HELP SCIENTISTS?

In April, the **Field of View** research program and **Euro-BioImaging Finland** organized the workshop featuring the opportunities for researchers offered by Euro-BioImaging Finland, user success stories, services, and funding opportunities. Find the article about the event [here](#).



FUNDING OPPORTUNITIES

Different funding opportunities are available to support your research covering the instruments access fees, travel and training costs. Here are some of those:



- **JCS-FocalPlane Training Grants**, to cover the registration fees, accommodation and/or travel costs (deadlines in 2024: 7.9. and 22.11.)
- **The Company of Biologists' Travelling Fellowships** to support collaborative research visits (deadlines in 2024: 9.8. and 25.10.)
- **EMBO Short Term Fellowships** to cover travel costs

More funding opportunities are on **Euro-BioImaging** webpage.

NORDIC PROOF VISIT

In April, the **Nordic Proof** delegation visited **Health Campus Turku** to learn more about the Turku ecosystem available for industry testing and development collaboration in healthcare. TBI's Pasi Kankaanpää and Tiina Saanijoki gave interactive presentations, providing insights into the innovative landscape of life science research in Turku with the support of biological and biomedical imaging facilities. The event facilitated knowledge exchange and networking for potential collaborations.



COLLABORATIVE RESEARCH FUNDING 2024 DECISIONS

BioCity Turku announced the decision of the call for Collaborative Research Funding 2024. Four of the grantees are affiliated with the **Field of View** Research program, here they are:

- **Dado Tokic** (Turku Bioimaging), 8000 € (Turku Imaging Day)
 - **Riku Klen**, 10000€ (Comprehensive Turku preclinical PET/CT image database (RAT-PET))
 - **Julian Hofmann** (Rantakari's research group), 10000€ (Establishment of a Single-Cell Proteomics Pipeline for Immune Cells)
 - **Joanna Pylvänäinen** (Jacquemet's research group), 4550€ (From image to graph – analysis of imaging data workshop)
- Congratulations to all grantees!



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BNMI SUMPOSIUM IN NORWAY

In April, the 3rd Bridging Nordic Microscopy Infrastructure (BNMI) network symposium took place in Geilo, Norway, and brought together the Nordic imaging facilities, industry, and life scientists. Turku was well-represented at this symposium. Irina Belaia (at the image) as FiAM Node Manager presented a poster about the Node development plan funded by RCF, Camilo Guzmán from Euro-BioImaging chaired the Image Analysis session, which was opened by invited speaker Guillaume Jacquemet with the fantastic talk “Studying cancer cell metastases in the era of deep learning for microscopy”. It was a very nice meeting with a lot of networking, lectures, and tech workshops. More info is [here](#).

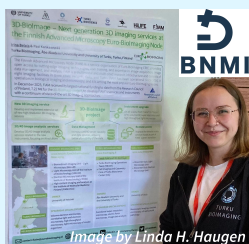


Image by Linda H. Haugen

FRONTIERS OF SCIENCE SEMINAR



In April, Frontiers of Science (FoS) BioCity Turku seminar was given by Professor Ricardo Henriques from the Instituto Gulbenkian de Ciência, Portugal. Hosted by Associate Professor Guillaume Jacquemet, Professor Henriques gave an outstanding talk about Super-Resolution and AI technologies in the quest for nanoscale live-cell imaging. This was the 2024 FoS seminar of the **Field of View** Research Program in imaging.

DOCTORAL THESIS ON BIOIMAGE ANALYSIS

In April, Joanna Pylvänäinen, former TBI coordinator and BIMA graduate, successfully defended her PhD thesis “Bioimage Analysis for Life Scientists: Tools for Live Cell Imaging”. Joanna’s opponent was Professor Carolina Wählby, Uppsala University and custos was Associate Professor Guillaume Jacquemet, Åbo Akademi University. Joanna’s doctoral thesis was the first bioimage analysis thesis from a former BIMA student and very useful for those who are interested in bioimage analysis. Warm congratulations! The doctoral thesis is available [here](#).



Image by Susanne Vainio

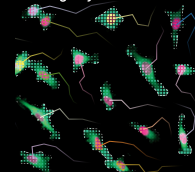


Image by Joanna Pylvänäinen

STAGETOOL AT USER FORUM: IMAGE DATA

Euro-BioImaging organized an event “Euro-BioImaging User Forum: Image Data” showcasing image analysis and data management solutions developed at Euro-BioImaging Nodes. TBI image analyst Junel Solis and Oliver Meikar, University of Tartu, gave a joint talk: Oliver introduced STAGETOOL, a neural network-based approach, that automates cell classification, and Junel showed its development into an accessible web service for researchers by TBI. The recording is available [here](#). More info about STAGETOOL is [here](#).



Image by Guillaume Jacquemet

UPCOMING EVENTS

- Aug 19-22** Light Sheet Microscopy Workshop, Aarhus, Denmark
- Aug 25-30** European Microscopy Congress, Copenhagen, Denmark
- Sep 2-6** Turku PET Centre Brain Imaging Course, Turku, Finland

SAVE THE DATES - EVENTS IN TURKU

- Sep 4** Stefan Hell 10-year-anniversary seminar
- Sep 23-27** Super-resolution microscopy course by CIC & TBI
- Sep 30-Oct 4** Bioimage Analysis for Quantitative Microscopy course and open series of lectures by Jacquemet lab & Field of View
- Oct 23** Turku Imaging Day

INTERNATIONAL INTERNSHIP COLLABORATION TURKU - ROUEN

What better way to gain valuable expertise, while learning about a different culture and creating vast networks, than an international internship? Thanks to the collaboration between the **Master in Cell Imaging programme** at the University of Rouen, France and the **MSc Programme in Biomedical Imaging (BIMA)** at Åbo Akademi University and the University of Turku in Finland, students have the opportunity to apply for an international internship in a research laboratory in the partner universities. Jihane El Manouzi, a 1st year Cell Imaging student from the University of Rouen, was the first one to complete an internship. She joined the **Toivola Epithelial biology lab** in Åbo Akademi University from April to June 2024. Read about Jihane’s experience in the interview article [here](#).

