

TURKU BIOIMAGING NEWSLETTER



TURKU
BIOIMAGING

WELCOME TO THE FIRST TBI NEWSLETTER!

Turku Bioimaging (TBI) is an independent umbrella organization that coordinates imaging activities, funding, and education in Turku, Finland. TBI also leads Finnish national imaging, and provides open access services itself, in image data analysis. TBI is a joint operation of the University of Turku and Åbo Akademi University. The TBI team carries out its activities together with the entire TBI community, consisting of core facilities, staff, researchers, and students working with imaging. Sign up for the **TBI Newsletter mailing list** to stay up to date!

INTERNATIONAL MSC PROGRAMME IN BIOMEDICAL IMAGING



Image by Solveig Eriksson

In January we closed the 2023 call for applications to our two-year International MSc Programme in Biomedical Imaging (BIMA), jointly administrated by Åbo Akademi University and the University of Turku. This program trains professionals to have a thorough theoretical understanding and practical skills in a wide range of imaging technologies, methods, and applications. More information about the program and former students' experiences on the **TBI website**. The new students were selected in March and we look forward to welcoming them all to Turku in August!

UNIQUE INTERNSHIP OPPORTUNITIES FOR BIMA STUDENTS

Euro-BioImaging Industry Board (EBIB) has a new internship program for BIMA students. The selected students get to know different job profiles in the industry. Two EBIB member companies, **TissueGnostics** and **ZEISS**, are already involved in the program. Read more about internship opportunities [here](#).



To learn more about this program's impact from academic and industry perspectives, check out **the interview article** of central BIMA teachers Diana Toivola and Pekka Ruusuvoori. Read also Ada Pajari's **EBIB internship story** at ZEISS. Contact bima-office@bioimaging.fi for information on how to apply for an internship in 2023.

IMAGE ANALYSIS COURSE 2023

TBI organized a course on image analysis basics in February, open for everyone. The course consisted of lectures and hands-on exercises. Students learned basic concepts of image analysis and saw in action what kind of image analysis can be done and how. The course garnered attention also internationally.

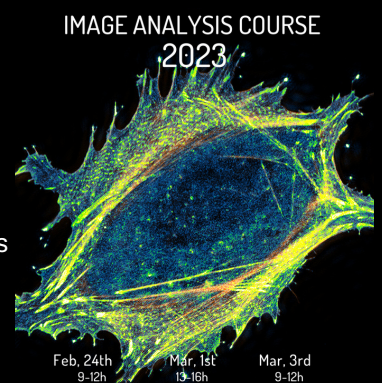
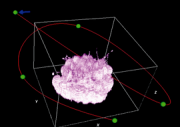


Image by Sujan Ghimire

STRUGGLE WITH IMAGE ANALYSIS?



TBI's Image Data Team (IDAT) provides open access services for image data analysis and management, helps in turning images into numbers, and guides researchers in image analysis. Visit the **IDAT webpage** or contact image-data@bioimaging.fi

TBI TEAM AT MEET THE BIOCIITY TURKU RESEARCH PROGRAMS

TBI participated in the "Meet the BioCity Turku Research Programs" networking event in February, organized by BioCity Turku.



TBI presented the new **Field of View** research program, which focuses on the use of imaging in making biological and medical discoveries. TBI leads the program, which welcomes both individual persons and research groups to join ([sign up here](#)). The event was a wonderful opportunity to interact within our research community.



IMAGING DISCUSSED WITH MEMBERS OF PARLIAMENT

Finnish Parliament members Eeva-Johanna Eloranta and Sandra Bergqvist visited BioCity Turku in March, with Biocenter Finland, to discuss the importance of research infrastructure funding. Pasi Kankaanpää, TBI's head of biological imaging, presented and discussed why it is critical for Finland to support imaging infrastructure.

NEWS FROM CELL IMAGING AND CYTOMETRY (CIC) CORE

New technologies at CIC:

The Hyperion™ Imaging System - Imaging Mass Cytometer, which can detect up to 37 protein markers in biological samples including fixed tissue sections

ONI Nanoimager - the complete package for super-resolution microscopy (dSTORM/PALM, SPT, smFRET)

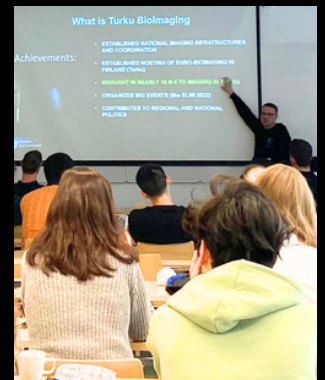
Welcome new CIC member!



Christoffer Lagerholm
Lab engineer at CIC

NEW WORKSHOP ON IMAGING WORKFLOW

In March, TBI organized a new type of **workshop**, together with the Field of View research program, Cell Imaging and Cytometry Core, Medisiina Imaging Centre, Turku Screening Unit, and Laboratory of Industrial Physics. The workshop covered the entire imaging workflow



from acquisition to analysis, focusing on available services and good practices. We plan to do the popular workshop again.

UPCOMING EVENTS

- May 8-12 **NEUBIAS Conference 2023**, Porto, Portugal
- May 30-Jun 2 **NEUBIAS Pausteur course on Bioimage analysis**, Paris, France
- Jun 6-9 **ELMI 2023 Meeting**, Noordwijkerhout, Netherlands
- Aug 22-25 **BNMI 2023 Symposium**, Odense, Denmark
- Sep 10-15 **Advanced methods in bioimage analysis**, EMBL Heidelberg, Germany
- Oct 23-26 **CytoData Symposium**, Helsinki, Finland
- October **Turku Imaging Day**, Turku, Finland

WELCOME OUR NEW TBI TEAM MEMBERS



Jiri Funda
Research Manager



Irina Belaia
Project Coordinator



Anna Jalo
Project Coordinator