

Euro-Biolmaging ERIC

Opportunities for Researchers, Imaging Scientists, and Core Facility Staff

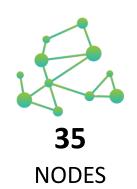
Johanna Bischof, Scientific Project Manager

EUROBIOIMAGING.EU

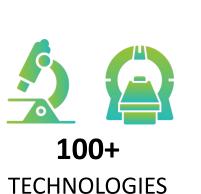


- Euro-BioImaging is a distributed research infrastructure with Nodes across Europe
- ✓ Publicly funded, not-for-profit
- Our Nodes are internationally recognised imaging
 facilities that provide open access to Euro-BioImaging
 users









Cities where Euro-BioImaging facilities are located

The Euro-Biolmaging Technology Portfolio



SAMPLE CHARACTERIZATION

ELECTRON MICROSCOPY

LIGHT MICROSCOPY

ANIMAL & PLANT IMAGING

> H U M A N I M A G I N G

CORRELATIVE & MULTIMODAL IMAGING

IMAGE DATA ANALYSIS



Euro-Biolmaging Technology offer

> LIGHT MICROSCOPY 1	> ELECTRON MICROSCOPY 1	> MULTIMODAL CORRELATIVE MICROSCOPY	> human imaging 🚯
> ANIMAL AND PLANT IMAGING 🛛 🚯	> EX-VIVO AND MATERIALS IMAGING USING BIOMEDICAL TECHNOLOGIES (> IMAGE DATA AND IMAGE ANALYSIS SERVICES 1	> OTHER TECHNOLOGIES 1



Available Nodes: Click on category or map to reset browsing

- Submit a user access request on the Euro-BioImaging website
- Consultation on technology and Node choice is available for all users



- Open to all scientists from academia and industry
- Open to any career stage and area of expertise





Funding for User access

For specific research topics, researchers can apply for free access to participating Euro-BioImaging facilities through EC funding





Funding support for infectious disease research from 2022-2025

www.isidore-project.eu



canSERV Funding support for cancer research from 2023-2025

www.canserv.eu



Funding support for agro-ecology projects from 2023-2027

www.agroserv.eu

Calls open on a running basis on multiple infectious diseases First General Open Call for all cancer research launching in Mid-June

First Open Call to open latest September 2023



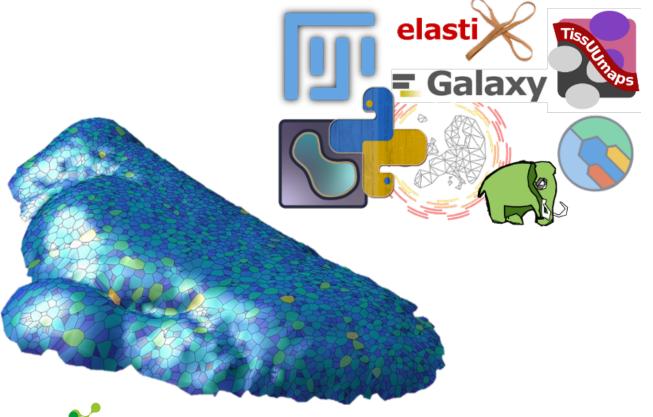
Image Data Services

Image data services at Nodes for the Users

Proof-of-Concept Image Data Analysis as a Service

Now available as

Stand-alone service on data acquired externally by the user



10 Nodes from 9 countries offer these services

- > Share Image analysis expertise
- Visibility to expert image analysts at nodes
- Promote FAIR image analysis practices
- Exchange of Experience through Image data expert group

Adapted from: Herbert, S. et.al. BMC Biol 19, 136 (2021). https://doi.org/10.1186/s12915-021-01037-w. Euro-Biolmaging Node: France Biolmaging

Image Data Services at Euro-Biolmaging

Practical and Technical Services:

- Image Analysis Services and tool development from Nodes
- Technical Support for this service delivery
- Tool development for cloud computing and data sharing
 - Imaging@Galaxy
 - BAND Remote Desktop
- FAIR Image Data
 - Support of Open Image Data Repositories
 - FAIR Image Data Steward User support for data FAIRification

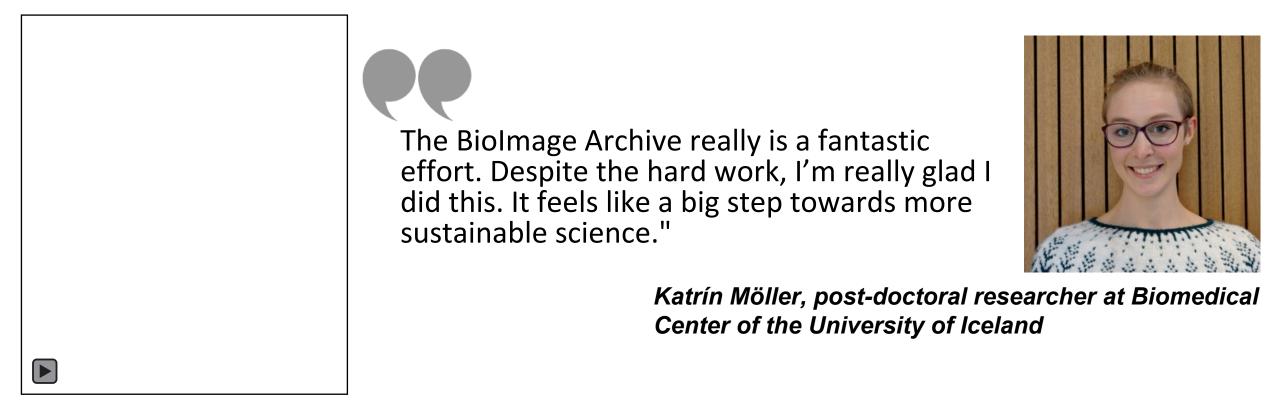






Data mobilisation on the 🔳 BioImage Archive

Supported by the Euro-BioImaging Image Data Steward, Isabel Kemmer, and the BioImage Archive team, Katrín submitted the entire microglia imaging datasets behind her paper to the BIA - a total of 700 Gigabytes of data in ~600 files from lightsheet and confocal live cell imaging.





AI4Life: AI-based image analysis methods for life scientists

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METH

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Project coordinated by Euro-BioImaging

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FTWAR

LIFE

SCIENCE

COMMUNITY

Al4Life

eutiopenscreen

- Leveraging pre-existing resources <u>BioImage Model Zoo</u> (bioimage.io)
- Address technical challenges in:
 - AI model storage, curation and usage 0
 - Easy access to cloud computing services 0
 - Annotated image data storage and access 0



Opportunities to participate:

- **Open Calls**
- Challenges
- Hackathons
- Trainings

KTH

instruct



NDAR

S

MODEL



EMBRC EUROPEAN MARINE BIOLOGICAL RESOURCE

COMPUTER

SCIENCE

COMMUNITY

V EMPHASIS



uc3m Universidad

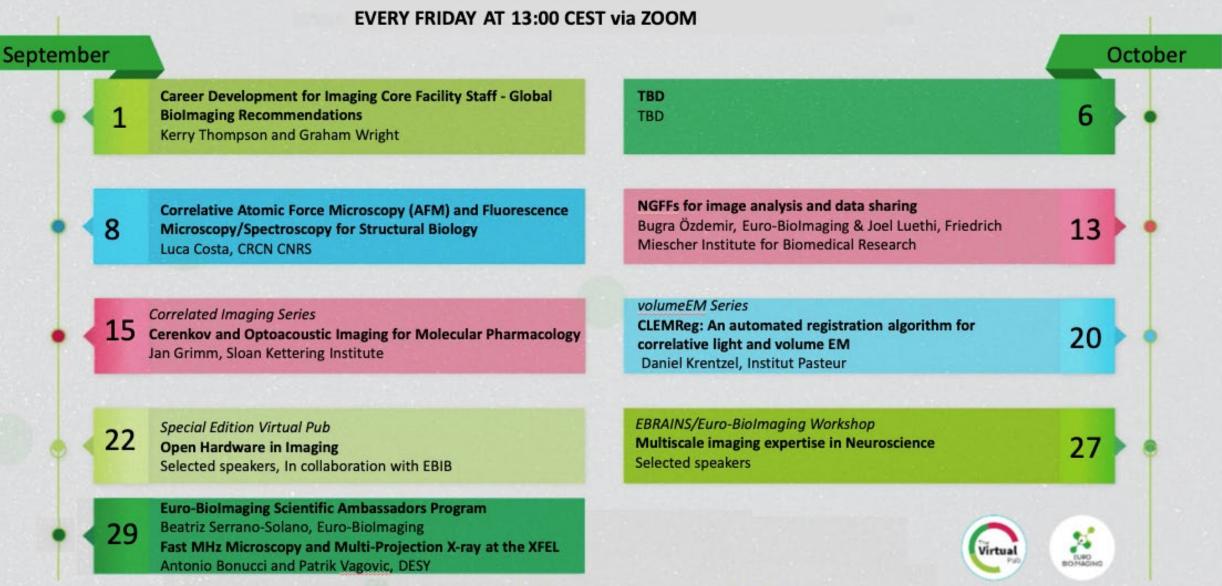
Funded by

the European Union



Community building

EURO-BIOIMAGING VIRTUAL PUB













OPEN HARDWARE

FRIDAY, 22 SEPTEMBER 2023, 13:00 - 15:00 CEST

SUBMIT AN ABSTRACT:



Euro-Biolmaging Expert Groups -A forum for exchange for the Nodes community

TECHNOLOGY EXPERT GROUPS

Biomedical Imaging Technologies Light Microscopy Electron Microscopy Plant Imaging

ADDITIONAL EXPERT GROUPS

Image Data

Preclinical & medical imaging data management Quality management at biomedical imaging facilities

Communications

Remote Access & Training

User Access Management Systems

Ethics in Imaging

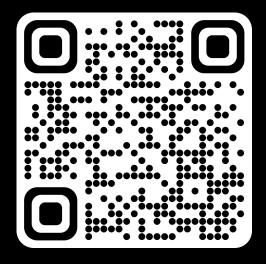




More information: https://www.eurobioimaging.eu/about-us/expert-groups



Thank you for your attention



To find out more, read our Annual Report 2022!

For more information, please contact us:



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