

Euro-BioImaging Image Data Community Days 2025

April 7-11, 2025, online

all times in CEST

Day 1: Monday, April 7		
9:00 - 10:00	Euro-BioImaging Image Data Services	Euro-BioImaging Hub staff
10:00 - 11:30	Image Analysis as a service	Aastha Mathur <i>Euro-BioImaging ERIC</i>
10:00 - 10:20	Expertise at the Czech BioImaging Node	Michaela Blažíková <i>IMG Prague</i>
10:20 - 10:40	Expertise at the French BioImaging Node	Jean-Yves Tinevez <i>Image Analysis Hub, Institut Pasteur, Paris</i>
10:40 - 11:00	Expertise at the Finnish Advanced Microscope Node	Pasi Kankaanpää <i>Turku BioImaging</i>
11:00 - 11:20	Expertise at the BioImage Informatics Unit (Swedish NMI Node)	Anna Klemm <i>BioImage Informatics Unit (BIIF), SciLifeLab/NBIS</i>
11:30 - 13:00	Break	
13:00 - 14:00	Image Analysis on high-performance computing	Sebastian Munck <i>VIB</i>
14:00 - 16:00	Social gathering for Image Analysts on Gathertown	Image analysts

all times in CEST

Day 2: Tuesday, April 8		
9:00 - 11:00	foundingGIDE	Maria Mirza <i>Euro-Biolmaging ERIC</i>
09:00 - 09:10	Founding a global image data ecosystem	Maria Mirza <i>Euro-Biolmaging ERIC</i>
09:10 - 09:35	Landscape analysis of metadata usage in major bioimage repositories (TBC)	Shuichi Onami <i>RIKEN</i>
09:35 - 9:55	Promoting FAIRification of preclinical image dataset	Dario Longo <i>IBB-CNR</i>
9:55 - 10:20	A guide to shopping for ontologies	François Sherwood <i>EMBL-EBI</i>
10:20 - 10:45	PIDifying foundingGIDE	David Poger <i>The University of Sydney</i>
11:00 - 15:00	FAIR-Facilities	Isabel Kemmer <i>Euro-Biolmaging ERIC</i>
11:00 - 11:40	The four corners of FAIR Facilities	Isabel Kemmer <i>Euro-Biolmaging ERIC</i>
11:40 - 12:00	Working as a data steward	Arzuv Čaryjeva <i>Institute of Experimental Medicine, CAS</i>
12:00 - 13:00	Break	
13:00 - 13:20	Data management at NL-Biolmaging [TBC]	Katy Wolstencroft <i>Amsterdam UMC</i>
13:20 - 13:40	Data management at ICFO [TBC]	Gustavo Castro <i>ICFO</i>
13:40 - 14:00	Enabling FAIR (Bioimaging) Data with DataHub	Niels Geudens <i>VIB Data Core</i>
14:00 - 14:15	Facilitating data submission to BioImage Archive	Teresa Zulueta-Coarasa <i>EMBL-EBI</i>
14:15 - 14:30	FAIR data at Image Data Resource	Jean-Marie Burel

Day 2: Tuesday, April 8		
		<i>University of Dundee</i>
14:30 - 14:50	Acknowledgement of Core Facilities	Sophie Winter <i>GlobalBioImaging</i> Georgina Fletcher <i>Biolmaging UK</i>
14:50 - 15:00	Wrap-up discussion	Isabel Kemmer <i>Euro-Biolmaging ERIC</i>

all times in CEST

Day 3: Wednesday, April 9		
9:00 - 12:00	NGFF-Workshop	Bugra Özdemir <i>Euro-Biolmaging ERIC</i>
9:00 - 9:15	Introduction to next-generation file formats	Bugra Özdemir <i>Euro-Biolmaging ERIC</i>
09:15 - 09:45	Fractal: An open-source framework for reproducible bioimage analysis at scale using OME-Zarrs	Joel Lüthi, <i>BioVisionCenter</i>
9:45 - 12:00	How to work with OME-Zarr - a hands-on workshop	Bugra Özdemir <i>Euro-Biolmaging ERIC</i>
12:00 - 13:00	Break	
13:00 - 15:00	FAIR Image Data Workflows	Beatriz Serrano-Solano <i>Euro-Biolmaging ERIC</i>
13:00 - 13:20	Intro to Image Analysis in Galaxy	Beatriz Serrano-Solano <i>Euro-Biolmaging ERIC</i>
13:20 - 13:35	Image Segmentation using Galaxy Workflows	Leonid Kostykin <i>BioQuant, Heidelberg University</i>
13:35 - 13:50	Image Data Management with OMERO using Galaxy	Riccardo Massei

Day 3: Wednesday, April 9		
		Helmholtz Centre for Environmental Research - UFZ
13:50 - 14:00	Break	
14:00 - 14:15	Annotation using Labkit	Vladimir Ulman Masaryk university
14:15 - 14:30	Sustainable Prototyping	Leonid Kostrykin BioQuant, Heidelberg University
14:30 - 14:45	Scripting in ImageJ	Vladimir Ulman Masaryk university
14:45 - 15:00	Wrap-up and closing	Beatriz Serrano-Solano Euro-Biolmaging ERIC
15:00 - 16:00	Multi-omics atlases - Integrating multi modal data across scales	Tobias Peherstorfer VRVis / Austrian Bioimaging

all times in CEST

Day 4: Thursday, April 10		
9:00 - 12:00	Preclinical Image Data Tools	Dario Longo Euro-Biolmaging ERIC
9:00 - 9:05	Introduction	Dario Longo Euro-Biolmaging ERIC
9:05 - 9:25	Optimizing preclinical MRI: Effective removal of low-quality outliers from large datasets	Markus Aswendt University Hospital Cologne, Germany
9:25 - 9:45	Development of a new toolbox for mouse PET-CT brain image analysis fully based on CT images and validation in neurodegeneration mouse models	Sara Belloli Institute of Bioimaging and Biological Complex Systems (IBSBC) - CNR, Italy

Day 4: Thursday, April 10		
9:45 - 10:05	Working together to improve rodent fMRI. Your contributions matter!	Joanes Grandjean <i>Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands</i>
10:05 - 10:25	Handling whole-slide image data at scale	Junel R.S. Solis <i>Åbo Akademi University and University of Turku, Finland</i>
10:25 - 10:40	Break	
10:40 - 11:00	Quantitative Analysis of Dynamic Contrast Enhanced -Photoacoustic Imaging (DCE-PAI)	Mohesh Moothanchery <i>University of Liverpool, United Kingdom</i>
11:00 - 11:20	XNAT-PIC: A Dedicated Tool for Annotating and Uploading Preclinical Images to XNAT	Francesco Gammaraccio <i>The Institute of Biostructures and Bioimaging (IBB) - CNR, Torino, Italy</i>
11:20 - 11:40	Image Quality Assessment and Denoising tools for preclinical datasets throughout the XNAT platform	Feriel Ramdhane <i>The Institute of Biostructures and Bioimaging (IBB) - CNR & Med-Hub Euro-Bioimaging, Torino, Italy</i>
11:40 - 11:50	Translating Research into User-centric Image Data Tools	Julia Mertesdorf <i>University of Copenhagen, Denmark</i>
11:50 - 12:00	Wrap-up and closing	Dario Longo <i>Euro-BioImaging ERIC</i>
12:00 - 13:00	Break	
13:00 - 16:00	Medical Data Space	Linda Chaabane <i>Euro-BioImaging ERIC</i>

Day 4: Thursday, April 10		
13:00 - 13:05	Introduction	Linda Chaabane <i>Euro-Biolmaging ERIC</i>
13:05 - 13:25	Automated Total body PET image processing and kinetic modelling with the TURBO toolbox	Jouni Tuisku <i>Turku PET centre, University of Turku and Turku university hospital, Finland</i>
13:25 - 13:45	Targeted Imaging Solutions: Multi-Modal AI Segmentation for Tumors and Lesions	Aikaterini Vraha <i>Biomedical Imaging Research Group, La Fe University and Polytechnic, Valencia, Spain</i>
13:45 - 14:05	Data linkage in the EuCanImage project	Marcel Koek & Hakim Achterberg <i>The Population Imaging Flagship Node Rotterdam, Netherlands</i>
14:05 - 14:25	Quality control of functional MRI data	Martin Gajdoš <i>Multimodal and Functional Imaging Laboratory, CEITEC Masaryk university, Brno, Czech Republic</i>
14:25 - 14:40	Break	
14:40 - 15:00	Kaapana an open-source federated AI Platform for Radiology	Mikulas Bankovic <i>MIC - German Cancer Research Center (DKFZ), Heidelberg, Germany</i>
15:00 - 15:20	AI Approaches for Imperfect Supervision Problems: Mammographic Dense Tissue Segmentation as a Use Case	Raquel Tendaro Alarcon <i>Instituto Tecnológico de la Informática, Valencia, Spain</i>

Day 4: Thursday, April 10

15:20 - 15:40	DIADEMA: A project to improve the neuroradiological workflow with AI	Marco Aiello <i>IRCCS SYNLAB SDN, Naples, Italy</i>
15:40 - 15:50	Segmentation of knee with stem joint using MPUNet for Osteoarthritis Treatments	Peidi Xu <i>University of Copenhagen, Denmark</i>
15:50 - 16:00	Wrap-up and closing	Linda Chaabane <i>Euro-Biolmaging ERIC</i>

all times in CEST

Day 5: Friday, April 11

9:00 - 10:00	Euro-Biolmaging and the EOSC	Aastha Mathur <i>Euro-Biolmaging ERIC</i>
09:00 - 09:15	EOSC for us	Aastha Mathur <i>Euro-Biolmaging ERIC</i>
09:15 - 09:45	EOSC Activities in the Czech Republic	Vladimir Ulman <i>Masaryk university</i>
09:45 - 09:55	BAND Virtual Desktop	Bugra Özdemir <i>Euro-Biolmaging ERIC</i>
10:00 - 12:00	AI4Life: Artificial Intelligence for Image Data Analysis in the Life Sciences	Beatriz Serrano-Solano <i>Euro-Biolmaging ERIC</i>
10:00 - 10:30	AI4Life: What can it do for you and your images?	Anna Kreshuk <i>EMBL</i> Florian Jug <i>Human Technopole</i>
10:30 - 11:15	Building scalable and reproducible AI infrastructure for Bioimaging	Estibaliz Gomez de Mariscal <i>Gulbenkian Institute for Molecular Medicine</i>

Day 5: Friday, April 11		
		Fynn Beuttenmueller <i>EMBL</i>
11:15 - 11:30	Break	
11:30 - 11:45	AI4Life Open Calls and Challenges	Mehdi Seifi <i>Human Technopole</i>
11:45 - 12:00	Towards FAIR and high-quality AI-ready data for bioimage analysis	Teresa Zulueta-Coarasa <i>EMBL-EBI</i>
12:00 - 13:00	Break	
13:00 - 14:00	Virtual Pub: Image analysis with QuPath	Pete Bankhead <i>University of Edinburgh</i>
14:00 - 15:30	Tool-Exchange	Stefania Marcotti <i>King's College London</i>
14:00 - 14:10	CAREamics	Igor Zubarev <i>Human Technopole</i>
14:10 - 14:20	XNATpy: A Python client for the XNAT image archive	Hakim Achterberg <i>The Population Imaging Flagship Node Rotterdam, Netherlands</i>
14:20 - 14:30	TissUUmaps	Christophe Avenel <i>BiolImage Informatics Unit (BIIF), SciLifeLab/NBIS</i>
14:30 - 14:40	Break	
14:40 - 14:50	Microscopy Image Browser (MIB)	Ilya Belevich <i>Electron Microscopy Unit, University of Helsinki</i>
14:50 - 15:00	BIA-bob	Robert Haase

Day 5: Friday, April 11		
		<i>Data Science Center ScaDS.AI, Uni Leipzig</i>
15:00 - 15:10	PyFix3D	<i>Rumen Stamatov Sofia BioImaging Node, Bulgaria</i>
15:10 - 15:20	TrackMate	<i>Marie Anselmet Image Analysis Hub, Institut Pasteur, Paris</i>
15:20 - 15:30	Closing	<i>Aastha Mathur Euro-BioImaging ERIC</i>