BioImaging and the European Open Science Cloud

EOSC-Life   EURO BIOIMAGING   INDUSTRY BOARD EURO-BIOIMAGING

Agenda

Day 1, Wed 19th April 2023 – morning session

	Topic	Presenter
08:30	*Coffee & registration*	
09:00 – 10:30	**Providing Image Data Analysis as a Service**	Chair: Aastha Mathur, Euro-BioImaging
09:00	BioImage Informatics Facility (BIIF) – image analysis support in Sweden	Anna Klemm, SciLifeLab
09:15	BIAFLOWS, a web platform to deploy and benchmark reproducible BioImage Analysis Workflows	Sébastien Tosí, Danish BioImaging
09:30	Innovative Approaches to Image Analysis Services: A Case Study from the Prague Node	Michaela Blažíková, Czech BioImaging
09:45	Image Analysis at the Bulgarian Euro-Bioimaging Node: The many layers of live cell tracking	Rumen Stamatov, Bulgarian Node
10:00	Discussion: Providing and scaling image analysis services Moderator: Aastha Mathur Panel: Anna Klemm, Sébastien Tosí, Michaela Blažíková, Rumen Stamatov	
10:30	*Coffee break*	
11:00	Welcome and opening of EOSC Session	Claudia Pfander, Euro-BioImaging Industry Board Coordinator
11:05	Image data and why it matters to industry	Herbert Schaden, ZEISS & Industry Board Chair
11:15 – 12:30	**FAIR data and image data services**	Chair: Isabel Kemmer, Euro-BioImaging
11:15	Euro-BioImaging Image Data Services	Aastha Mathur, Euro-BioImaging
11:30	Open imaging data: Improving reproducibility and accelerating science	Matthew Hartley, BioImageArchive
11:45	Setting up image data infrastructures in Germany and beyond: The I3D:bio project and the NFDI4BIOIMAGE consortium	Stefanie Weidtkamp-Peters, Heinrich-Heine University

	Topic	Presenter
12:00	Discussion: How can we facilitate FAIR data generation? Moderator: Isabel Kemmer Panel: Herbert Schaden, Aastha Mathur, Matthew Hartley, Stefanie Weidkamp-Peters, Tatiana Woller, Ahmad Alsahaf	
12:30	*Lunch and IC tour*	
13:30 – 15:15	**Image Data Management for facilities**	Chair: Johanna Bischof, Euro-BioImaging
13:30	France Bio Imaging: Setting up image data management solutions at the national level	Perrine Paul-Gilloteaux, Nantes University / CNRS
13:45	Data management for medical image analysis at the Euro-BioImaging Population Imaging Node	Stefan Klein, Erasmus MC
14:00	Research data management at CEITEC MU-Brno	Milan Ešner, CEITEC MU-Brno
14:15	Data Management with Athena	Davy Penhard, Thermo Fisher Scientific
14:30	Challenges in (big) data management	Martin Tewinkel, EVIDENT Olympus & Industry Board Co-Chair
14:45	Discussion: Needs, challenges and expectations for RDM at facilities Moderator: Johanna Bischof Panelists: Martin Tewinkel, Perrine Paul-Giloteaux, Stefan Klein, Milan Ešner, Davy Penhard	
15:15	*Coffee break*	
15:45 – 18:30	**Transitioning tools and services to the EOSC**	**Chair: Jean-Karim Heriche, EMBL**
15:45	Warm-up exercise: What is the European Open Science Cloud?	Claudia Pfander, Euro-BioImaging Industry Board Coordinator
15:50	The EOSC Partnership: Towards the Implementation of the European Open Science Cloud	Ilaria Nardello, EOSC Association
16:15	Working with images in EOSC	Jean-Karim Heriche, EMBL
16:30	Virtual desktop (BAND)	Jean-Karim Heriche, EMBL
16:40	OME-Zarr: A cloud-optimized bioimaging file format with international community support	Josh Moore, German BioImaging

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16:50	*Coffee break*	
17:20	Deep learning for everyone – a cloud-based approach	Bernhard Fichtl, ZEISS
17:35	Tackling challenges in bioimage analysis using AIVIA	Constantin Kappel, Leica Microsystems
17:50	Imaging in Galaxy	Beatriz Serrano-Solano & Bugra Özdemir, Euro-BioImaging
18:00	Discussion: Transitioning established tools and services to the cloud and integrating open-source and industry solutions Moderator: Jean-Karim Heriche Panel: Josh Moore, Berhard Fichtl, Constantin Kappel, Beatriz Serrano-Solano, Bugra Özdemir, Arina Rybina	
18:30	Wrap-up of Day 1 and outlook	Claudia Pfander, Euro-BioImaging Industry Board Coordinator
19:00	*Dinner*	

Day 2, Thu 20th April 2023

Time	Topic	Presenter
08:30	*Welcome Coffee*	
09:00	**Imaging in the EOSC landscape - projects and initiatives**	Chair: Arina Rybina, Euro-BioImaging
09:00	Imaging use cases from EOSC-Life (3x10min) • The LifeMonitor service: supporting workflow reusability • QSM4SENIOR -Ultra-high Field MRI Quantitative Susceptibility Mapping reconstruction of the healthy Brain-aging cohort • A Repository and Compute Environment for FAIR, Reproducible and Secure Data Analytics	Luca Pireddu, CRS4 Miguel Guevara, CNRS Martin Weise, TU Wien
09:30	High-content serology test for SARS-CoV-2	Lassi Paavolainen, FiMM
09:45	Infrastructure for cancer imaging research: EuCanImage, EOSC4Cancer, EUCAIM	Stefan Klein, Erasmus MC
10:00	AI4Life and the BioImage Model Zoo	Anna Kreshuk, EMBL
10:15	*Coffee break and poster session*	
11:00	Discussion on sustainability and long-term perspective Moderator: Claudia Pfander and Arina Rybina Panel: Michael Raess, Jean-Marie Burel, Matthew Hartley, Stefanie Weidtkamp-Peters, Stefan Klein, Ilaria Nardello, Thomas Lemberger, Bernhard Fichtl, Antje Keppler	
12:30	*Lunch and departure*	