

# Biolmaging and the European Open Science Cloud



## Agenda

Day 1, Wed 19<sup>th</sup> April 2023 – morning session

	Topic	Presenter
08:30	<i>Coffee &amp; registration</i>	
09:00 – 10:30	<b>Providing Image Data Analysis as a Service</b>	<b>Chair:</b> <b>Aastha Mathur, Euro-Biolmaging</b>
09:00	Biolmage Informatics Facility (BIF) – image analysis support in Sweden	Anna Klemm, SciLifeLab
09:15	BIAFLOWS, a web platform to deploy and benchmark reproducible Biolmage Analysis Workflows	Sébastien Tosí, Danish Biolmaging
09:30	Innovative Approaches to Image Analysis Services: A Case Study from the Prague Node	Michaela Blažíková, Czech Biolmaging
09:45	Image Analysis at the Bulgarian Euro-Bioimaging Node: The many layers of live cell tracking	Rumen Stamatov, Bulgarian Node
10:00	<u>Discussion: Providing and scaling image analysis services</u> Moderator: Aastha Mathur Panel: Anna Klemm, Sébastien Tosí, Michaela Blažíková, Rumen Stamatov	
10:30	<i>Coffee break</i>	
11:00	Welcome and opening of EOSC Session	Claudia Pfander, Euro-Biolmaging Industry Board Coordinator
11:05	Image data and why it matters to industry	Herbert Schaden, ZEISS & Industry Board Chair
11:15 – 12:30	<b>FAIR data and image data services</b>	<b>Chair:</b> <b>Isabel Kemmer, Euro-Biolmaging</b>
11:15	Euro-Biolmaging Image Data Services	Aastha Mathur, Euro-Biolmaging
11:30	Open imaging data: Improving reproducibility and accelerating science	Matthew Hartley, BiolmageArchive
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



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# Bioluminescence and the European Open Science Cloud



	Topic	Presenter
12:00	<u>Discussion: How can we facilitate FAIR data generation?</u> Moderator: Isabel Kemmer Panel: Herbert Schaden, Aastha Mathur, Matthew Hartley, Stefanie Weidkamp-Peters, Tatiana Woller, Ahmad Alsahaf	
12:30	<i>Lunch and IC tour</i>	
13:30 – 15:15	<b>Image Data Management for facilities</b>	<b>Chair: Johanna Bischof, Euro-Bioluminescence</b>
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-Bioluminescence 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	<u>Discussion: Needs, challenges and expectations for RDM at facilities</u> Moderator: Johanna Bischof Panelists: Martin Tewinkel, Perrine Paul-Giloteaux, Stefan Klein, Milan Ešner, Davy Penhard	
15:15	<i>Coffee break</i>	
15:45 – 18:30	<b>Transitioning tools and services to the EOSC</b>	<b>Chair: Jean-Karim Heriche, EMBL</b>
15:45	Warm-up exercise: What is the European Open Science Cloud?	Claudia Pfander, Euro-Bioluminescence 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 Bioluminescence



Workshop

19-20 April 2023, Heidelberg

# Bioluminescence and the European Open Science Cloud



	Topic	Presenter
16:50	<i>Coffee break</i>	
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	<u>Discussion: Transitioning established tools and services to the cloud and integrating open-source and industry solutions</u> Moderator: Jean-Karim Heriche Panel: Josh Moore, Bernhard 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	<i>Dinner</i>	



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# BioImaging and the European Open Science Cloud



Day 2, Thu 20<sup>th</sup> April 2023

Time	Topic	Presenter
08:30	<i>Welcome Coffee</i>	
09:00	<b>Imaging in the EOSC landscape - projects and initiatives</b>	<b>Chair: Arina Rybina, Euro-BioImaging</b>
09:00	Imaging use cases from EOSC-Life (3x10min) <ul style="list-style-type: none"> <li>• The LifeMonitor service: supporting workflow reusability</li> <li>• QSM4SENIOR -Ultra-high Field MRI Quantitative Susceptibility Mapping reconstruction of the healthy Brain-aging cohort</li> <li>• A Repository and Compute Environment for FAIR, Reproducible and Secure Data Analytics</li> </ul>	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	Dominik Kutra, EMBL
10:15	<i>Coffee break and poster session</i>	
11:00	<u>Discussion on sustainability and long-term perspective</u> 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	<i>Lunch and departure</i>	

