

Betreff:NFDI4BIOIMAGE Newsletter – June 16th, 2025

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Von:NFDI4BIOIMAGE Coordination Office <nfdi4bioimage@uni-duesseldorf.de>

An:

Dear NAME NAME

here comes 2025's second NFDI4BIOIMAGE Newsletter with updates and announcement about the advancements in the field of bioimaging RDM.

What's new?

- From June 3rd to June 6th, the EMBL Heidelberg kindly hosted the **25th International Meeting of the European Light Microscopy Initiative (ELMI)**. NFDI4BIOIMAGE members contributed with talks and posters. Here are some highlights:
 - **Josh Moore presented *The road to OME-Zarr 1.0***. A major milestone in the effort to create a standard format for large N-dimensional array data will be the release of a stable, long-term supported version of the OME-Zarr implementation. Promotion for OME-Zarr has been ongoing for some time. It's important to acknowledge that the community-driven development through multiple Request for Comments (RFC) stages takes time—but this investment helps achieve broad consensus and buy-in. Now, OME-Zarr 1.0 is within reach. Find Josh's slides from his talk at ELMI on Zenodo: <https://doi.org/10.5281/zenodo.15597855>
 - Posters about **OMERO.vitesse** (by Michele Bortolomeazzi), and the **NFDI4BIOIMAGE Data Stewardship** (by Ksenia Krooß) were well received and sparked engaging discussions. In addition, together with Euro-BioImaging ERIC, we presented a [poster on the OME-Zarr format](#), too (Christian Schmidt and Josh Moore).
 - NFDI4BIOIMAGE congratulates our Co-Applicant German BioImaging - Society for Microscopy and Image Analysis (**GerBI-GMB**) on **officially joining Global BioImaging (GBI)** by signing the Memorandum of Understanding during ELMI's Core Facility day: <https://bsky.app/profile/gerbi-gmb.de/post/3lqp7v67ecc2p>
 - Please find several posts from ELMI on NFDI4BIOIMAGE's social media channels (links below).
- In case you missed it: The [coalition agreement of the new Federal Government](#) (Bundesregierung) mentions explicitly the NFDI, highlighting its growing relevance for data sovereignty. Quoting: "Wir werden die Aktivitäten für die Nationale Forschungsdateninfrastruktur (NFDI) verstetigen." (We will sustain the activities for the National Research Data Infrastructure (NFDI).) We welcome this positive signal towards long-term support for NFDI's activities and services as a whole.
- A new **sandbox platform for RDM in bioimaging (an OMERO instance)** is now available to the community from NFDI4BIOIMAGE. While we plan to present our **now growing service portfolio** on our website in the next weeks, we are already offering access to an OMERO test environment. This server includes many pre-installed plugins and a variety of sample datasets. It can serve to become acquainted with OMERO or to try out new features in the NFDI4BIOIMAGE-hosted sandbox

environment before integration into local environments. It supports tool development and integration under realistic conditions. This enriched OMERO infrastructure with extended features will be continually updated and enhanced. Contact us via the HelpDesk under helpdesk@nfdi4bioimage.de.

- Did you miss Trends in Microscopy 2025 in Münsingen or would you like to review the data generated throughout the week of workshops? Find now online the **annotated data from TiM 2025** in the TiM OMERO instance: <https://omero-tim.gerbi-gmb.de>
- Our Data Stewards are central to NFDI4BIOIMAGE's Community Support. Get to know them! Our public relations team (Thanks to Jana Bendigs and Lucy Sonnet) is launching the **#MeetOurDataSteward series on social media** to introduce our Data Stewards one by one. Find the first posts: Ksenia Krooß from HHU Düsseldorf here:
 - <https://bsky.app/profile/nfdi4bioimage.bsky.social/post/3lqu4fnlro22d>
 - <https://bsky.app/profile/nfdi4bioimage.bsky.social/post/3lrfuudsyes2m>

What's upcoming?

- Meet colleagues from Helmholtz Imaging and NFDI4BIOIMAGE at the **Helmholtz Imaging Conference**, taking place from June 25th to 27th in Potsdam. Riccardo Massei will contribute to a workshop on Zebrafish imaging. Task Area co-leader Robert Haase will present as a keynote speaker. Registration is still open. More information: <https://helmholtz-imaging.de/news/helmholtz-imaging-conference-2025/>
- Join us for the online **EMBL-EBI webinar entitled „A journey to FAIR bioimage data“** on July 2nd: <https://www.ebi.ac.uk/training/events/journey-fair-bioimage-data/>
- The **2nd Conference on Research Data Infrastructures CoRDI** takes place from August 26th-28th 2025, in Aachen. NFDI4BIOIMAGE members will participate with posters and talk. Join us at CoRDI and meet colleagues from our and other consortia. Registration is open at <https://www.nfdi.de/cordi-2025/>
- CoRDI 2025 will be followed immediately by the **Base4NFDI User Conference**, taking place in Aachen from August 28th – 29th. Registration is open: <https://base4nfdi.de/news-events/events/user-conference-2025>
- Jointly with the consortia MatWerk and FAIRmat, NFDI4BIOIMAGE will attend the **Microscopy Conference in Karlsruhe** (August 31st – September 4th) with a booth as part of the industry exhibition. Come to the NFDI booth and learn about NFDI4BIOIMAGE's work. Our Data Steward Cornelia Wetzker will be on site. Find more information here: <https://microscopy-conference.de/>
- The next **RDM4mic meeting** is organized by NFDI4BIOIMAGE and will take place on October 21st -23rd in Münster. We're looking forward to engaging discussions around research data management in microscopy. Details and registration will follow: <https://german-bioimaging.github.io/RDM4mic.github.io/>
- Mark you calendars for the **2025 EOSC Symposium in Brussels**, taking place from November 3rd - 5th. Programme details are pending, but we do expect a meeting

showing steps forward to creating the EOSC Federation with updates on the NFDI EOSC Node contributions. Stay tuned: <https://eosc.eu/events/eosc-symposium-2025/>

- The **NextGen Omics & Data Conference 2025** takes place from November 13th-15th in London, UK. Jan-Philipp Mallm, Task Area leader in NFDI4BIOIMAGE will contribute as a speaker. Find more information here: <https://oxfordglobal.com/precision-medicine/events/nextgen-omics-2025>
- NFDI4BIOIMAGE Task Area 5 Co-Lead Thomas Zobel will participate as a panelist at **FDM.nrw's Tag der Forschungsdaten 2025** panel discussion about NFDI user services. The event takes place on November 18th, at Campus Essen, NRW. More information to follow here: https://www.uni-due.de/rds/tag_forschungsdaten.php
- SAVE the Date! **The 2026 OME Community Meeting** will be hosted by NFDI4BIOIMAGE through German BiImaging in Düsseldorf. Mark your calendars for April 28th-30th, 2026! Details to follow.

What's to read or review?

- As generative AI tools like LLMs reshape data science—from coding to manuscript writing—they introduce a critical challenge: lack of transparency around AI-generated content and prompts. Read **Robert Haase's correspondence in Nature Computational Science introducing git-bob**: an open-source AI assistant for GitHub/GitLab that not only answers data analysis questions and writes code, but also logs every interaction transparently, fosters collaborative discussions, and requires human review for accountability. Think of it as a scientific co-pilot that documents its every move, helping teams maintain reproducibility and scientific integrity in AI-enhanced workflows.
Haase, R. Towards transparency and knowledge exchange in AI-assisted data analysis code generation. Nat Comput Sci 5, 271–272 (2025). <https://doi.org/10.1038/s43588-025-00781-1>
- High-content screening (HCS) in bioimaging generates vast amounts of image data and associated metadata, posing significant management challenges. To address this, NFDI4BIOIMAGE members Riccardo Massei, Jan Bumberger, and colleagues have developed **semi-automated workflows using Workflow Management Systems (WMS) integrated with the OMERO platform**. These workflows enhance data organization, reduce human error, and promote FAIR (Findable, Accessible, Interoperable, and Reusable) principles in scientific research.
Massei, R., Busch, W., Serrano-Solano, B. et al. High-content screening (HCS) workflows for FAIR image data management with OMERO. Sci Rep 15, 16236 (2025). <https://doi.org/10.1038/s41598-025-00720-0>
- Moreover, Riccardo Massei has recently published several training walkthroughs for RDM and image analysis in Galaxy. Check out the recent additions on Riccardo's Galaxy page here: <https://training.galaxyproject.org/training-material/hall-of->

[fame/rmassei/](#)

- In a continuous collaboration with our partner's from DataPLANT, NFDI4BIOIMAGE members are working towards interoperability of DataPLANTs Annotated Research Context (ARC, an ISA-compliant annotation framework for plant sciences) and the image data management system OMERO. Niraj Kandpal and colleagues have released a **User Guide for OMERO-ARC integration** on Zenodo:
Kandpal, N., Zentis, P., Valencia-Schneider, M., & Schauss, A. (2025). OMERO and ARC Workflow. Zenodo. <https://doi.org/10.5281/zenodo.15225616>
- You are interested in Bioimage Data Formats, what's new, and what's developing? Use your chance to review two recent talks:
 - At the EMBL-EBI Webinar on May 28th, Josh Moore presented on: **Towards open and standardised imaging data: an introduction to Bio-Formats, OME-TIFF, and OME-Zarr**. Find the recording here:
<https://www.ebi.ac.uk/training/events/towards-open-and-standardised-imaging-data-introduction-bio-formats-ome-tiff-and-ome-zarr/>
 - At the NFDI Talk Series on June 2nd, Josh Moore and Yi Sun presented about **Cloud-Based Image Science**. This talk introduces BioImage File Formats to a general audience. On top, Yi Sun introduced BAND, and BARD, two cloud-based services soon to be deployed through NFDI4BIOIMAGE's service portfolio in the making. Re-watch the video here:
<https://www.youtube.com/watch?v=bzfmE29S270>

Job Opportunities:

- Our Co-Applicant GerBI-GMB is offering three exiting job opportunities in the field of bioimaging and RDM. **Two remote software developer positions, and one project manager position**. Check out the opportunities here and apply to work for GerBI-GMB: <https://gerbi-gmb.de/resources/career/>

Don't forget: We are here for your research data! Don't hesitate to reach out to our Help Desk with any issues around bioimaging RDM: <https://nfdi4bioimage.de/help-desk/>

Follow us on Bluesky: <https://bsky.app/profile/nfdi4bioimage.bsky.social>

Follow us on Mastodon: <https://nfdi.social/@nfdi4bioimage>

Follow us on LinkedIn: <https://www.linkedin.com/company/nfdi4bioimage/>

Best wishes,

Inga Mohr and Christian Schmidt
(NFDI4BIOIMAGE Project Office)

To review previous editions of our quarterly Newsletter, please visit:
<https://nfdi4bioimage.de/community-integration/newsletter/>

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The NFDI4BIOIMAGE consortium comprises legally independent partners and does not act autonomously towards third parties. Both Project Coordinators represent the contributions from their respective affiliated institutions and work together on the consortium.