NFDI4BIOIMAGE Newsletter – December 20ᵗʰ, 2023

Betreff: NFDI4BIOIMAGE Merry Christmas Newsletter - December 20th, 2023
Von: NFDI4BIOIMAGE Project Office <nfdi4bioimage@uni-duesseldorf.de>
Datum: 20.12.2023, 13:33
An:

Dear {NAME},

the first nine months of NFDI4BIOIMAGE being a consortium within the NFDI come to an end. We are thankful to all contributors and partners for a good start in 2023. We are looking forward to increasing our activities towards the bioimaging community in 2024.

To all of you: a wonderful Christmas time and a Happy New Year.

What's new?

- In October 2023, we met for our **first All-Hands Meeting as an NFDI4BIOIMAGE consortium**.
    - Find here the slides from the Keynote by Josh Moore: Moore, J. (2023, Oktober 16). [N4BI AHM] Welcome to BioImage Town. Zenodo. https://doi.org/10.5281/zenodo.10008465
    - In the Keynote by Matthew Hartley (EMBL-EBI), we learned about the newest developments of the BioImage Archive. Did you know? BIA now enables a browser-based preview for much of the deposited data, a big leap towards better accessibility and reusability of bioimaging data. This is enabled by using OME-Zarr, the new cloud-ready file format for bioimage data. Fostering the development of OME-Zarr is one of the goals within NFDI4BIOIMAGE. https://www.ebi.ac.uk/bioimage-archive/galleries/galleries.html
    - The third Keynote by Barbara Ebert (GFBio) gave us insights into the progress and success of NFDI4Biodiversity, a consortium established in the first call for NFDI consortia. Find the recent reports on the status of NFDI4Biodiversity on Zenodo: https://zenodo.org/communities/nfdi4biodiv?q=&l=list&p=1&s=10&sort=newest
- Our consortium has renewed its logo and design. If you meet us at conferences and meetings in the future, this is how you'll recognize NFDI4BIOIMAGE (a legally non-independent collaboration project). Expect a renewed website coming in 2024.

- Together with our colleagues from DataPLANT, **NFDI4BIOIMAGE offered a project at the 2nd de.NBI Biohackathon Germany** from Dec. 11th to 15th. Find the results here: https://github.com/NFDI4BIOIMAGE/BHG2023-OMERO-ARC
- **NFDI4BIOIMAGE is now on Mastodon!** Find us here: https://nfdi.social/@nfdi4bioimage (Heads-Up: We will stop using Twitter in Q1/2024, so follow us on Mastodon!)

What's upcoming?

- **GerBI Community Meeting 2024 in Fulda**
  Members of GerBI-GMB, interested imaging scientists, and industry partners will meet for a two-day meeting from March 4th-6th in Fulda. Members of

NFDI4BIOIMAGE will present on the work about bioimage data management. Find more information here: https://gerbi-gmb.de/event/gerbi-annual-community-meeting-2024/

- **Microscopy Data Analysis Course at the EMBL**: machine learning and the BioImage Archive.
  Among the Trainers: Anna Kreshuk (co-leading TA4 in NFDI4BIOIMAGE).
  https://www.ebi.ac.uk/training/events/microscopy-data-analysis-machine-learning-and-bioimage-archive/

- **ELMI Meeting 2024 in Liverpool, UK**
  The 2024 European Light Microscopy Initiative Meeting will take place from June 4th-7th in Liverpool, UK. Find all information here: https://www.elmi2024.org/

- **Focus on Microscopy in Genoa, Italy**
  The 2024 FoM will take place from March 24th to 27th. The submission deadline for abstracts is January 9th. More information: https://www.focusonmicroscopy.org/

What's to read?

- Did you miss the **Conference on Research Data Infrastructures (CoRDI)** in September? Find here poster abstract papers of NFDI4BIOIMAGE member contributions:

  - Josh Moore and Susanne Kunis: **Zarr, a Cloud-Optimized Storage for Interactive Access of Large Arrays**, https://doi.org/10.52825/cordi.v1i.285

  - P. Zierep, S. K. Srikakulam , S. Schaaf, Bjoern Gruening: **Conda, Container and Bots:** How to Build and Maintain Tool Dependencies in Workflows and Training Materials, https://doi.org/10.52825/cordi.v1i.417

  - Stöter, T., Gottschall, T., Schrader, A., Zentis, P., Valencia-Schneider, M., Kandpal, N., Zuschratter, W., Schauss, A., Dickscheid, T., Mühlhaus, T., & von Suchodoletz, D. (2023). **Combining the BIDS and ARC Directory Structures for Multimodal Research Data Organization**. 1st Conference on Research Data Infrastructure (CoRDI 2023), Karlsruhe, Germany. Zenodo. https://doi.org/10.5281/zenodo.8349563

- Read this **Nature Feature about OME-Zarr**: How open-source software could finally get the world's microscopes speaking the same language: https://doi.org/10.1038/d41586-023-03064-9

- Regarding the practical power of OME-Zarr, find here a BioRXiv preprint on building a **Webatlas for Spatial Transcriptomics Data** usable for Sequencing-based and Imaging-based Spatial Transcriptomics integrated with Single-Cell Omics data by Li et al.: https://doi.org/10.1101/2023.05.19.541329
  A demonstration of this work can be found here: https://developmental.cellatlas.io/webatlas

- Our DFG-funded partner project **Information Infrastructure for BioImage Data (I3D:bio)** has published an Open Educational Resource on using OMERO directed at beginners: Schmidt, C., Bortolomeazzi, M., Boissonnet, T., Fortmann-Grote, C., Dohle, J., Zentis, P., Kandpal, N., Kunis, S., Zobel, T., Weidtkamp-Peters, S., & Ferrando-May, E. (2023). **I3D:bio's OMERO training material:** Re-usable, adjustable, multi-purpose slides for local user training. Zenodo. https://doi.org/10.5281/zenodo.8323588
  This material was adopted in short video tutorials on YouTube: https://www.youtube.com/playlist?list=PL2k-L-zWPoR7SHjG1HhDIwLZj0MB_stlU

Opportunities:

- Job Opening at Global BioImaging: Scientific Manager "Imaging for All - i4A" apply before 12 January 2024: https://www.embl.org/jobs/position/BIOHUB00006

Christmas Break: The Project Office is not available from Dec. 20th 2023 until January 7th, 2024.

Merry Christmas and best wishes!

Kathy Schmitz & Christian Schmidt
(NFDI4BIOIMAGE Project Office)

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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 for the project.
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