

Description

RMS course
BioImage Archive - Quick tour
Microscopy data analysis: machine learning and the BioImage Archive
BIA-api-visualisation-notebook.ipynb
BMZ_benchmarking_with_BIA_data.ipynb
BioFormats.ipynb
ImageFormat.ipynb
PublicResources.ipynb
ReadingData_fromIDR.ipynb
Reading_zarr_images.ipynb
Dask.ipynb
Shopping guide for ontologies
2025_FAIR_facilities
EBI_Imaging_resources_BIA
The BioImage Archive: Home for life sciences microscopy data
Principles of research data management
Towards open and standardised imaging data: an introduction to Bio-Formats, OME-TIFF, and OME-Zarr
Data management in a bioimage informatics data flow
Open FAIR data: the role of public data archives
A journey to FAIR bioimage data

Creator/Institute

Type of Material

course
website
EMBL course
training notebook
training notebook
training notebook
training notebook
training notebook
training notebook
training notebook
slide deck
slide deck
slide deck
recorded webinar
recorded webinar
recorded webinar
recorded webinar
recorded webinar

Link

<https://github.com/RMS-DAIM>
https://www.ebi.ac.uk/training/online/courses/bioimage-archive-quick-tour/#vf-tabs_section-overview
<https://www.ebi.ac.uk/training/materials/microscopy-data-analysis-machine-learning-and-the-bioimage-archive-materials/>
<https://github.com/BioImage-Archive/bia-training/blob/main/notebooks/BIA-api-visualisation-notebook.ipynb>
https://github.com/BioImage-Archive/bia-training/blob/main/notebooks/BMZ_benchmarking_with_BIA_data.ipynb
<https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/BioFormats.ipynb>
<https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/ImageFormat.ipynb>
<https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/PublicResources.ipynb>
https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/ReadingData_fromIDR.ipynb
https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/Reading_zarr_images.ipynb
<https://github.com/ome/EMBL-EBI-imaging-course-04-2025/blob/main/Dask.ipynb>
https://docs.google.com/presentation/d/1MXmWonagYfe_GnpclR6l6cb7OU5iijtKav227upl0l0/edit?usp=share_link
https://docs.google.com/presentation/d/1EtvdEPkSUnWbGuDZ28MmbsxV_KXlfrbF/edit?usp=share_link&ouid=104904359639857388488&rtoref=true&sd=true
https://docs.google.com/presentation/d/1QNYxy7FVno-0Co5FsqXsiNNiZFNALYo/edit?usp=share_link&ouid=104904359639857388488&rtoref=true&sd=true
<https://www.ebi.ac.uk/training/events/bioimage-archive-home-life-sciences-microscopy-data/>
<https://www.ebi.ac.uk/training/events/principles-research-data-management/>
<https://www.ebi.ac.uk/training/events/towards-open-and-standardised-imaging-data-introduction-bio-formats-ome-tiff-and-ome-zarr>
<https://www.ebi.ac.uk/training/events/data-management-bioimage-informatics-data-flow>
<https://www.ebi.ac.uk/training/events/open-fair-data-role-public-data-archives>
<https://www.ebi.ac.uk/training/events/journey-fair-bioimage-data>

Comment

course for image analysts. First created in 2019, Nothing for several years. Materials added for upcoming course in Galway
Quick tour on the scope of BIA, how to search, visualise, retrieve and submit data
Programmatic approaches to analysing biological imaging data
Very short notebook that retrieves studies using their accession id and OME-NGFF images from BioImage Archive using its API
Benchmarking models from the BioImage Model Zoo using BioImage Archive data
How to use BioFormats. From the Microscopy course.
How to read various image formats. From the Microscopy course.
How to access public resources via their Python API. From the Microscopy course.
How to load binary data from IDR. From the Microscopy course.
How to access OME Zarr files. From the Microscopy course.
Introduction to dask collections. From the Microscopy course.
Slide deck about ontologies

General intro on BIA and EMPIAR
Provides an introduction to the archive, including an overview of the data preparation and submission process, data retrieval, and future development plans
General introduction to data management
General overview to OME formats. It directs you to where more detailed info can be found on format conversion.
General overview of bioimaging data flow
Introduction to BIA and BioSamples
Solutions for storing, processing, analysing, and, first and foremost, sharing bioimaging data.