EBRAINS – Euro-BioImaging workshop series

Introduction

Euro-BioImaging ERIC and EBRAINS are Research Infrastructures that offer complementary services to neuroscientists, namely advanced imaging technologies for neuroscience, and data and knowledge services for neuroimaging and neuroscience research.

The objective of this workshop series is to provide an overview of the services provided by both Infrastructures, highlighting complementarities. This workshop series will demonstrate the potential areas of collaboration, leverage each other's expertise and resources to create more comprehensive solutions for research challenges and advanced services, ultimately driving scientific progress and innovation on brain science in Europe and beyond.

For instance, EBRAINS' vast data and knowledge resources could be made available to allow Euro-BioImaging to expand its data processing capabilities, while Euro-BioImaging's expertise in imaging can provide valuable contributions to EBRAINS.

The workshop series include two events:

- On 31 May 2023 at 13:00-15:00 CEST EBRAINS will present their activities in Data and Knowledge services
- On 27 October 2023 at 13:00-15:00 CEST Euro-BioImaging ERIC will present the multiscale imaging capacity in Neuroscience area

31 May 2023 Event program

This first event, EBRAINS will present their activities in Data and Knowledge services. EBRAINS will address the topic of Open Data versus Closed Data and how sensitive data can be made FAIR (Findable, Accessible, Interoperable, and Reusable). The sessions will also feature practical use cases to demonstrate how anonymous metadata can be shared in the Knowledge Graph to make collections of sensitive data discoverable, followed by procedures for applying for access.

An overview of the imaging technologies of interest for the Neuroscience field available through Euro-BioImaging will be also presented.
The event is virtual and open to both Euro-BioImaging and EBRAINS community. It will also be recorded for making it available through the Euro-Bioimaging channels (www.eurobioimaging.eu) and the EBRAINS platform () for further consultation.

Date: 31 May 2023 13:00-15:00 CEST

- Introduction:

  1. Introduction of the event and its objectives by the moderator (5 min)

- Session 1: Euro-BioImaging – introduction

  1. Imaging technologies of interest for neuroscientists - by Linda Chaabane, Section Director Med-Hub, Euro-BioImaging - (15 min)

  2. Q&A (10 min)

- Session 2: EBRAINS – introduction - by Jan G. Bjaalie, Member of the Management Board and Special Advisor for Neuroinformatics of EBRAINS AISBL (10 min)

   a. General introduction, vision, and strategic goals for the EBRAINS Data and Knowledge services

   b. Q&A (5 min)

- Session 3: How the EBRAINS services work & what they offer – by Ingrid Reiten and Archana Golla

   c. Overview of the EBRAINS Data and Knowledge services (10 min)

   d. Share - Find – Use. (10 min)

   e. How the services work. (10 min)

   f. Q&A (5 min)

- Session 4: Open Data versus Closed Data – by Sophia Pieschnik

   g. Open Data versus Closed Data: Making sensitive data FAIR (10 min)

   h. Practical use cases showing how we facilitate sharing of anonymous metadata in KG allowing collections of sensitive data to be discoverable accompanied by procedures to apply for access (10 min)

   i. Q&A (5 min)

- Conclusion: Closing remarks by the organizers (5 min)

Note: Please note that the program is a sketch and may be subject to change based on feedback and suggestions.

Registration form
https://forms.office.com/e/fJntx5qdzn

About EBRAINS Data & Knowledge Services
EBRAINS Data and Knowledge services facilitate neuroscience research and discovery by providing online solutions to facilitate sharing of and access to research data, computational models, and software. These services revolve around an expert-driven Knowledge Graph which combines metadata ingestion pipelines, human-user input, and multiple quality assurance processes to help contributors and users by ensuring data consistency and quality.

The data and knowledge services offered by the provide a secure, transparent, and sustainable data management ecosystem that enables scientists to access, analyze, and integrate data from different sources, enabling them to conduct innovative research. These services support the integration of data from different modalities and sources, enabling researchers to identify new insights into brain structure and function.

The Knowledge provides a flexible, scalable, and interoperable semantic infrastructure for data and knowledge management. It's a powerful tool for data integration and discovery.

Overall, the platform also provides researchers with secure and sustainable data management solutions, ensuring that data is shared ethically and responsibly.

More information: https://ebrains.eu/services/#category0

Contact EBRAINS: info@ebrains.eu

About Euro-BioImaging ERIC

Euro-BioImaging is a research infrastructure that offers open access to imaging technologies, training and data services in biological and biomedical imaging. Euro-BioImaging consists of imaging facilities, called Nodes, that have opened their doors to all life science researchers.

Euro-BioImaging's mission is to provide you with imaging services that bridge biological and biomedical imaging and facilitate innovative and world-class research. Whatever the scale of your imaging, Euro-BioImaging will give you the tools and support to explore and answer your research questions.

Access to imaging technologies: We offer access to a range of imaging technologies to allow you image across the scales at one of our 35 Nodes (175 imaging facilities), located in 16 countries and the European Molecular Biology Laboratory, EMBL.

Expert training and support: Each Node is staffed with personnel who can provide the support required to maximise the output of your research project. Guidance is available for all aspects of the imaging pipeline, from study design to image capture. In addition, we provide access to training courses for all different levels of expertise.

Image data management: We help you store and disseminate your data and extract meaningful conclusions from your imaging data.

More information: Euro-Bioimaging (eurobioimaging.eu)

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