

**Satellite WORKSHOP  
ON HEALTH DATA PLATFORMS  
FOR AI-DRIVEN DISCOVERY**

**16th April 2024**

**AND**

**ALL HANDS NODES MEETING**

**17th-19th April 2024**



The All Hands Nodes meeting 2024 will take place from April 16th to 19th in Turin. During the satellite workshop on April 16th, the Nodes will have opportunities to present and learn about the latest developments in Health Data Platforms. The All Hands meeting will start on the 17th with a joint event with the Euro-BioImaging Industry Board, including dedicated sessions on correlative imaging, disease models and multidimensional imaging. The 18th and 19th of April will be dedicated to Nodes staff, with additional scientific sessions on open topics and plenty of opportunities for discussion and networking.



**Tuesday, 16th April 2024**

**Satellite event**

**“Workshop on Health Data platforms for AI-driven discovery”**

12.30 – 13.30	<i>Light lunch and registration</i>
13.30 – 14.00	<b>Welcome and Introduction from Euro-BioImaging ERIC</b> John Eriksson, Director General; Antje Keppler, Section Director Bio-Hub; Linda Chaabane, Section Director Med-Hub
14.00 - 14.30	<b>EU Digital Transformation</b> Aleksandra Wesolowska, European Commission, Programme Officer – EU Policies, CNECT.H3 – eHealth, Well-Being and Ageing (Remote speaker)
14.30 – 15.00	<b>EUCAIM, The European Federation for Cancer Images</b> Dr. Irene Marín - La Fe Polytechnic and University Hospital of Valencia
15.00 – 15.30	<b>Innovative Health Initiative (IHI) project: BIG-PICTURE, a large-scale repository for Pathology images and AI algorithms</b> Prof. Jeroen van der Laak - Radboud University Nijmegen Medical Center
15.30 – 16.30	<i>Coffee break &amp; networking</i>
16.30 – 17.00	<b>A Digital Human Twin framework to enable personalised healthcare services</b> Dr. Alessandro Maiocchi, Innovation Hub - Bracco SpA
17.00 – 17.30	<b>AI4Life: Reproducibility and Accessibility in BioImage Analysis</b> Dr. Joran Deschamps, Human Technopole
17.30 – 18.00	<b>foundingGIDE: Community coordination efforts towards global image data sharing</b> Dr. Aastha Mathur, Euro-BioImaging Hub
18.00 - 18.15	Closing

**Wednesday, 17th April 2024:**  
**ALL HANDS NODES MEETING - EBIB & NODES Workshop**  
**“Imaging services for Discovery and Translational Research”**

8.30-9.30	<i>EBIB meeting (only for EBIB members)</i>
9.00-9.30	<i>Registration</i>
9.30 – 9.45	Welcome from Euro-BioImaging Industry Board (EBIB)
9.45 - 10.30	<b>Scientific session I: Imaging across scales and modalities</b> <ul style="list-style-type: none"> <li>- Rupert Ecker, TissueGnostics - “Tissue Image Cytometry: Cellular Phenotypes in Spatial Context” (Remote speaker)</li> <li>- Peter Zehetmayer, Telight - “Revolutionizing Translational Research Through Quantitative Phase Imaging in Label-Free Microscopy”</li> <li>- Aisha Sivakumar, Andor Technology - “Imaging Across Scales and Modalities with the Dragonfly600”</li> </ul>
10.30 - 11:30	<i>Coffee Break</i>
11:30 - 12.30	<b>Scientific session I: Imaging across scales and modalities</b> <ul style="list-style-type: none"> <li>- Laura Carolina Zanetti-Domingues, UK BioImaging: “Towards Quantitative Super-Resolution Methods for Cryo-CLEM”</li> <li>- Alessandro Ciccarelli, UK BioImaging: “Challenges and solutions for mesoscopic imaging of biological samples”</li> <li>- Timo Zimmerman, EMBL: “Open access to cutting-edge electron and light microscopy”</li> <li>- Philippe Le Coustumer, France BioImaging “Multidimensional imaging of Bio/Inorganic samples combining HRSTEM/X- EDS, SBF-SEM, NanoSIMS, <math>\mu</math>-CT, APT and GD-OES”</li> </ul>
12.30 - 14.00	<i>Buffet Lunch &amp; Networking</i>

14.00 – 14.15	<p><b>Scientific session I: Imaging across scales and modalities</b></p> <ul style="list-style-type: none"> <li>- Sven Terclavers, ZEISS Microscopy - “Dynamics in Life: the ZEISS Lattice SIM family for Super-resolution across scales”</li> </ul>
14.15 - 15.15	<p><b>Scientific session II: Screening and working with disease models</b></p> <ul style="list-style-type: none"> <li>- Jochen Sieber, Leica - “New TauSTED tools for gentle live imaging at remarkable nanoscale”</li> <li>- Dieter Fuchs, Fujifilm VisualSonics - “Assessing therapeutic response in the living animal”</li> <li>- Adam Horvath, Medical and Preclinical Imaging Node Hungary: “Impact of in vivo imaging techniques to evaluate the effects of a novel multi-target drug candidate in a mouse osteoarthritis model”</li> <li>- Stefania Marcotti, UK BioImaging: “Fluorescence-lifetime imaging microscopy (FLIM) at the UK node: from acquisition to quantitative analysis”</li> </ul>
15.15 - 16.00	<p><b>Keynote talk:</b> Prof. Enzo Medico, Candiolo Cancer Institute IRCCS and EurOPDX, “Patient-derived xenografts as model systems for human cancer: from bedside to bench, and back”</p>
16.00-16.15	Discussion and wrap-up
16:15- 17.00	<p><b>Preamble to Nodes’ updates and scientific sessions III and IV</b></p> <ul style="list-style-type: none"> <li>- Gert-Jan Kremers, Erasmus MC OIC – ALM Rotterdam Node: “Simulator of a Confocal in FIJI (SciF)”</li> <li>- Alessandra Toncelli, MultiModal Molecular Imaging Italian Node: “TeraHertz Plant Imaging”</li> <li>- Dominik Pinkas, ALM &amp; EM Node Prague: “EDS in biological transmission electron microscopy”</li> </ul>
17.00	<i>Final Coffee and networking</i>
19.30	<p><i>Dinner (kindly offered by EBIB)</i></p> 

**Thursday 18th April:**  
**ALL HANDS NODES MEETING - Day 1**

9.00 – 9.15	Welcome from the Chairs of the Panel of Nodes
9.15 – 10.30	<p><b>Updates from the Nodes</b></p> <ul style="list-style-type: none"> <li>- Pablo Loza, Super Resolution Node Barcelona: “Updates in the Super resolution light microscopy and nanoscopy facility at ICFO”</li> <li>- Pedro Mallol, Population Imaging Node Valencia: “GIBI230 New node”</li> <li>- Ilva Van Houwelingen, Population Imaging Node Rotterdam: “The Erasmus MC Imaging Office”</li> <li>- Giuliana Tromba, Phase Contrast Imaging Node Trieste: “The SYRMEP beamline at Elettra: present status and prospects”</li> <li>- Nicola D’Ascenzo, DIMP-Neuromed: “Portable digital Positron Emission Tomography: from bed to head, from lab to field”</li> </ul>
10.30 – 11.00	<i>Coffee break</i>
11.00 - 12.00	<p><b>Scientific session III</b></p> <ul style="list-style-type: none"> <li>- Veikko Jousmaki, Finnish Biomedical Imaging Node: “Magnetoencephalography – noninvasive method to track down cortical electrophysiological signals”</li> <li>- Lubomír Vojtíšek, ALM and Medical Imaging Node Brno: “Long Term Neural Implication of COVID-19: Preliminary results”</li> <li>- Aleš Benda, ALM and EM Node Prague CZ: “Enhancing FLIM Data Analysis Through Deep Learning”</li> <li>- Rumen Stamatov, Sofia BioImaging Node: “Segmentation and tracking of mitotic chromosomes”</li> </ul>

12.00 – 13.00	<b>Scientific session IV</b> <ul style="list-style-type: none"> <li>- Eija Jokitalo, Finnish Advanced Microscopy Node: “Sharing volumeEM datasets for reuse”</li> <li>- Sebastian Munck, Flanders Biolmaging: “What we can learn from deep space communication for reproducible bioimaging and data analysis”</li> <li>- Bálint Botz, Medical &amp; Preclinical Imaging Hungarian Node: “The clinical utility of contrast enhanced ultrasound and microvascular flow imaging in the characterization of complex cystic renal lesions”</li> <li>- Samo Hudoklin, SiMBION: “Urinary bladder epithelium - imaging approaches at Institute of Cell Biology, SiMBION”</li> </ul>
13.00 – 14.30	<i>Buffet Lunch &amp; Networking</i>
14.30 - 15.00	<b>Updates from Euro-Biolmaging</b> - presentation by the Hub
15.00 - 15.45	<b>EVOLVE and plans for the Nodes in EVOLVE</b> - presentation by the Hub
15.45 - 16.30	Discussion on EVOLVE plans and priorities
<i>16.30 - 17.00</i>	<i>Coffee break</i>
17.00 - 17.30	<b>Increasing and supporting commercial user access</b> Claudia Pfander – Euro-Biolmaging Industry Board coordinator
17.30 - 17.45	Conclusion

## Friday 19th April: ALL HANDS NODES MEETING - Day 2

9.00 – 9.15	Introduction by the Chairs of the panel of Nodes
9.15 – 10.30	<b>Breakout sessions:</b> <ol style="list-style-type: none"> <li>1) Training and cross-Nodes Job Shadowing</li> <li>2) Communication and outreach</li> <li>3) FAIR image data stewardship and new data services</li> </ol>
10.30 - 11.30	<i>Coffee break and networking</i>
11.30 - 12.30	Wrap up from breakout sessions
12.30 - 14.00	<i>Lunch</i>

## POSTERS

- Martin Capek, ALM and EM Node Prague: “Using Deep Learning Techniques in Daily Image Processing at Light Microscopy Facility”
- Christopher Cawthorne, Flanders BioImaging: “Translational PET Imaging Biomarkers of CNS disease and therapy development at Flanders Bioimaging”
- Christopher Cawthorne, Flanders BioImaging: “Multimodal imaging for radiotherapy studies”
- Sonya Uzunova, Sofia BioImaging Node: “Studying DNA-protein crosslink (DPC) repair protein kinetics via live-cell microscopy and machine learning approaches”
- Giacomo Mazzamuto, Advanced Light Microscopy Italian Node: “High-resolution brain mapping with Light-Sheet Microscopy”
- Marianna Childress Poli & Laurent Chmiel, Euro-BioImaging Hub: “Communication best practises”
- Claudia Pfander, EBIB Coordinator: “Industry engagement”
- Aastha Mathur, Euro-BioImaging Hub: “General data services”
- Bugra Oezdemir and Isabel Kemmer, Euro-BioImaging Hub: “FAIRdata and technical tools”
- Ayoub El Ghadraoui and Arina Rybina, Euro-BioImaging Hub: “Ongoing INFRATECH projects”
- Rakesh Mahato, Euro-BioImaging Hub: “The Euro-BioImaging Web Portal”