



Panel of Core Facilities meeting

Online meeting (Teams)

February 22nd from 13:00 to 14:30.

Participants

Thomas Hartig Braunstein (THB), Clara Prats (CP), Pablo Hernandez Varas (PHV), Sebastian J Kjeldgaard-Nintemann (SKN), Nynne Christensen (NC), Anna Lorentzen (AL), Sonia Diaz Garcia (SDG), Sébastien Tosi (ST), Richard de Mets (RM), Tricia Loo (TL), Felipe Delestro Matos (FM), Cristiano Di Benedetto (CB), Mette Richner (MR), Angie Chen (AC), Marie Karen Tracy (MKT), Julia Katharina Mertesdorf (JKM), Morten Frendø Ebbesen (MF), Rebecca Engberg (RE), Jon Sparring (JS), Chris Dinant (CD), Karam Sidaros (KS).

Agenda

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Welcome and Update on DBI

Thomas Hartig Braunstein (THB) chaired the meeting based on the points presented in the mail sent to all the participants prior to the meeting. The first topic on the agenda was the update on Danish Bioimaging. Thus, Clara Prats (CP) updated on the two upcoming international events where Danish Bioimaging will be attending. The first one is the third Bridging Nordic Microscopy Infrastructure (BNMI) network symposium scheduled to take place in Geilo from April 9th-12th and the second one the All-Hands Nodes meeting in Torino, Italy from 16th-19th of April. She also shares that the M2H boot camp, fully funded by the Chan Zuckerberg Initiative, will take place in Denmark on 16th-27th September 2024 hosted by the Danish Bioimaging Network. Applicants from around the globe will be invited to participate in the boot camp that will run for 2 consecutive weeks. More detailed information about the program and selection of the participant can be found at the M2H boot camp webpage:

<https://globalbioimaging.org/international-training-courses/molecules-to-human-m2h-2024>

DBI scientific meeting

Clara Prats (CP) started this point giving an update on the next DBI scientific meeting, which will be held in Copenhagen on 24th to 26th June. The meeting room and Auditoriums are already reserved at SUND, Faculty of Health at Medical Sciences, University of Copenhagen, and the website for registration for the event is open. On the website you can also find the program of the event and how to submit your abstract and possibly bring a poster to the DBI Symposium. During the sign-up process you can also select in what section your post/talk fits best, e.g. Bioimaging application, Technology Development or Bioimaging Infrastructure.

CP encourages everybody to promote and give visibility to the event in their groups and to put the flyer of the symposium in the core facility or office.

The early bird registration is 150 DKK until April 1st, 2024, and the registration fee includes catering during coffee breaks, poster sessions and attendance at the Symposium dinner.

[DBI Scientific Meeting | The Event \(ku.dk\)](#)



DBI-INFRA IACF

DBI-INFRA Image Analysis Core Facility (IACF) has publicly opened its service last September 2023, and currently is already supporting several projects. Sébastien Tosi (ST) shares that that he has resigned from the position as Head of the IACF, as announced in a previous mail and that the new python programmer Julia Katharina Mertesdorf is onboard. Moreover, Pablo Hernandez Varas (PHV) is leaving CFIM to lead a core facility in Belgium.

Furthermore, ST highlights the success of the two-days Python workshop organized by the DBI-INFRA on October 30th-31st. The workshop was full, and many participants were put on the waiting list. He also shares that DBI-INFRA will organize together with the Aarhus Bioimaging Core Facility QuPath workshop in Aarhus. This QuPath workshop will be on Wednesday April 17th, and is free to attend. Furthermore, DBI-INFRA collaborates with the upcoming CFIM PhD school in June 14th -21st at University of Copenhagen and among other upcoming activities, Tricia Loo (TL) from the DBI-INFRA IACF will give a talk and present a poster at the upcoming conference organized by the Department of Biology at University of Copenhagen.

Finally, ST shares that DBI INFRA Image Analysis Core Facility (IACF) has 10 projects from the University of Copenhagen and a few projects from Aarhus University and University of Southern Denmark.

Overview of the CF techniques sheet

Richard de Mets (RM) continued the meeting giving an update of the expertise searchable tool developed by Chris Dinant and under implementation by RM.

He showed the searchable tool and how to use the search function by location and by techniques, showing the updated table with a list of the core facilities with their level of expertise as low, intermediate, expert or no equipment. The tool is now implemented in the DBI-INFRA website [DanishBioimaging Infrastructure \(dbi-infra.eu\)](https://danishbioimaginginfrastructure.eu). The core facilities are themselves responsible for

updating their equipment in a spreadsheet in a Google account. The list below summarizes who is responsible for maintaining each individual spreadsheet. The main advantage of the new setup is the simplification of the maintenance of updates of the techniques for each facility, and the quick expansion if new facilities join the infrastructure. The spreadsheet should be updated anytime there is a new technique at your facility that you want to promote. Furthermore, the date of the last update appears on the table.

- AU Health Bioimaging Core Facility / Nina Glockner Burmeister
- Preclinical Core Facility, AU / Michael Pedersen
- Center for Advanced Bioimaging, CAB, KU / Sebastian J Kjeldgaard-Nintemann
- Core Facility for Integrated Microscopy, CFIM, KU / Thomas H. Braunstein
- Danish Cancer Research Center, BIM – DCI / Chris Dinant
- DTU 3D Imaging Center and QIM, DIKU / Rebecca Engberg - Felipe Delestro
- Image Analysis Core Facility, DBI-IACF, KU / Tricia Loo
- Translational Imaging Center, DTU / Mathilde Hauge
- Danish Molecular Biomedical Imaging Center, DaMBIC, SDU / Morten Freundø
- Microscope CF at Department of Science and Environment, RU / Pia Nyeng

Virksomhedsguiden for Test facilities

The next item on the agenda is the Virksomhedsguiden for Test facilities where core facilities can be registered. THB emphasizes that this is a very useful tool, and that this topic was suggested by the Bioimaging core facility in Aarhus to be discussed at this meeting. Afterwards, THB visited the search page for core facilities in Denmark. CFIM is already registered, and he encouraged the facilities and the newly created DBI-INFRA Image Analysis Core Facility to register at the page.

<https://virksomhedsguiden.dk/content/ydelser/danske-testfaciliteter/edeb1156-77e2-4246-bb96-7604804a0b26/>

Possible webinar for PoF/Danish BioImaging by ArgoLight called “Let's perform more QC in less time.”

Afterwards, THB shared that the company Argolight contacted us with a proposal for a webinar about Quality Control of fluorescence-based microscopes. The aim is to show facility managers in core facilities that quality control can be relatively easy and that it is crucial for running scientific experiments in the most reproducible way.

Regarding the date of the webinar, please vote on this Doodle poll. The webinar will be scheduled on the day/time with the most votes. We are aiming for May 7th, 14th, 15th or 16th. Submit your votes by Monday, April 15th at the latest. Additionally, attached to this email you can find the promotional flyer for this webinar.

- <https://doodle.com/meeting/participate/id/b2GV35Pd>

DBI PhD Cross institutional course

Morten Freundø Ebbesen (MFE) continued the meeting informing about the feedback received from the students who participated in the DBI PhD Cross Institutional course last year. The course included a series of lectures by experts within different fields of bioimaging and took place at different Danish research institutions in Copenhagen, Lyngby, Odense and Aarhus September 4th to

November 20th, 2023. See table below. Afterwards, he opened the discussion to any new ideas and initiatives for the DBI Cross Institutional Bioimaging Ph.D course in 2024. Lastly, it was agreed to schedule a call between UCPH and SDU to discuss the module descriptions at these institutions.

Title	Location
Fluorescence and two photon microscopy	SDU
Confocal Microscopy	KU
Image Analysis, general introduction	SDU
Image Analysis, introduction to Python	KU
Live imaging in yeast, plants and mammalian cells	KU
Super-resolution, STED, SMLM, Minflux and Raman	SDU
Non-invasive imaging modalities (PET-SPECT-CT-R)	SDU/OUH
Electron Microscopy	AU
Single particle & Fluorescent Proteins	AU
Image analysis, pixel and object classification	DTU
Evaluation and Student Talks	KU/SDU

Furthermore, MFE talks about the upcoming European Microscopy Conference. EMC2024 will be held from Sunday 25th August to Friday 30th August 2024 in Copenhagen, and everybody is welcome to attend this international conference. More information about EMC 2024 on the website <https://emc2024.eu/>

Outreach activities

Afterwards Sonia DG (SDG) briefly updated us about the communication deliverables. She pointed out that a new communication feature series “Meet the DBI Users” with inspiration research projects was launched in 2023 and during this period three interviews with DBI INFRA users were featured. In 2024, Istvan Balint, a researcher using the CAB facility, has been featured and the next interviews are with Rikke Agerskov, Research Assistant at the section for Molecular and Medical biology Roskilde University and with a researcher at DaMBIC. The Aarhus Core Facility and CFIM were featured in 2023. Moreover, SDG shares that the number of followers is increasing, LinkedIn with more than 1000 followers and Twitter with more than 420. SDG emphasizes that everyone is encouraged to reach out to her to showcase a researcher utilizing a DBI facility, or to spotlight an event or workshop.

Workshop Human Perception and Advanced Visualization of 3D Medical Imaging Data Afterwards, Rebeca Engbert informed about the [workshop](#): Human Perception and Advanced Visualization of 3D Medical Imaging Data on February 29th. This interactive workshop aimed to guide researchers in crafting impactful visualizations that enhance comprehension and communication of complex findings.

Next DBI meeting

To conclude, it was discussed that the next PoF meeting will be held as a physical meeting during the DBI Symposium on June 24th. Therefore, the PoF meeting is scheduled for June 24th from 12:30 to 13:30, with lunch included. Further information about the meeting room and agenda will be provided.

7. AOB

None

