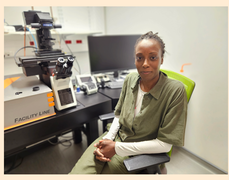
Welcome to the June 2024 edition of the ICM.Quant Connect newsletter!

We are here to keep you informed with the latest updates on the ICM.Quant platform, your trusted ally for all things related to electron microscopy and photonics projects.



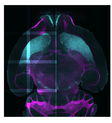
Welcome to Astou Tangara

We are thrilled to announce that Astou Tangara, an INSERM engineer, joined the ICM.Quant platform on June 3rd. Astou is a specialist in light microscopy applied to neuroscience, with extensive expertise in optics. Her previous experience includes working at the ENS imaging platform and at the University of California, Berkeley.
We are excited to welcome her to our team!

Upgrade of Apotome 1 & 2 Microscopes

We are pleased to announce that the Apotome 1 and Apotome 2 microscopes have been **upgraded to the latest Apotome 3** module, including a **new stand** and the **latest version of the Zen** software.

Learn more



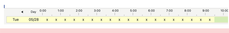
Learn more

Demonstration & Testing of Miltenyi's MACS® iQ View Software

We are currently evaluating Miltenyi's MACS® iQ View software on our platform for a few weeks. This software facilitates the **management of 3D data acquired from the Lightsheet Blaze** microscope, making data stitching easier. At the end of the evaluation period, we will assess the usefulness of acquiring this software.

Maintenance of Multi-Photon Lasers

On May 28, 2024, MKS conducted maintenance on **all multi-photon lasers** at the ICM.Quant platform. This intervention included realignment and optimization of the power of these devices.



New Update to Resource Scheduler Interface in openiris!

We are excited to announce a recent update to the resource scheduler interface in openiris. The timebar has been redesigned for improved clarity and ease of use. Now, the time is displayed above the tick mark indicating the start of each hour, rather than above the smaller ticks that indicate half-hours.
This adjustment aims to enhance the user experience by making the interface more intuitive and user-friendly.

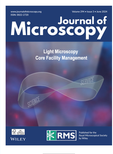
Learn more

ICM.Quant Platform Team's Participation in the RT-MFM Assises

The photonic team from the ICM.Quant platforms recently attended the 20th anniversary of the RT-MFM Assises. The RT-MFM is a national network that brings together photonic microscopy platforms. The Assises provide a valuable opportunity for engineers to exchange knowledge and expertise in microscopy.

Staying on Track – Keeping Things Running in a High-End Scientific Imaging Core Facility

We are pleased to announce a new publication in the Journal of Microscopy discussing technological platforms. This article, titled "Staying on Track – Keeping Things Running in a High-End Scientific Imaging Core Facility," highlights the challenges and strategies involved in maintaining efficient operations in advanced imaging facilities.



Link

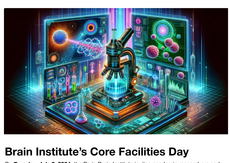
STED Workshop in Collaboration with Abberior

The ICM.Quant platform, in collaboration with Abberior, organized a **workshop** on March 5th and 6th, 2024. This event provided our users with the opportunity to conduct experiments on the STED microscope, guided by **expert engineers from Abberior.** Participants received valuable advice on **sample preparation and data acquisition**, enhancing their skills and knowledge in advanced microscopy techniques.

Tips and Tricks 😉 : Dry and Immersion Objectives

Objectives are crucial components for the quality of microscopes. They determine magnification and play a significant role in the resolution of acquired images. While objectives are complex elements, they can be categorized into different types:
Dry Objectives: These do not come into contact with any medium between the lens and the cover slip. Air objectives should never be immersed in any liquid.
Immersion Objectives:These come into contact with a medium situated between the front lens and the cover slip, offering a higher numerical aperture and thus better resolution at the cost of working distance. Different immersion liquids can be used for different applications (oil, glycerol, silicon, water…). Oil immersion objectives are found on most of our microscopes. Remember to clean them thoroughly at the end of your session.
Dipping Objectives: Used exclusively for upright microscopes, the front lens directly dips into the culture medium without a cover slip. These objectives are easily recognizable by their white dipping cone. While they are primarily found on our multiphoton microscopes, they are not limited to these instruments.
Understanding the appropriate use and handling of these objectives is essential for achieving optimal imaging results.

Learn more



Brain Institute's Core Facilities Day

On **Tuesday, July 2, 2024**, the Paris Brain Institute invites academic researchers and industrial partners from biotechnology and pharmaceutical companies to come and discuss with the core facilities representatives.
This event will also be an opportunity to **visit** these platforms and **discover the state-of-the-art equipment and services offered** by the institute. The **ICM.Quant platform** will be present at the event. Registration is free but mandatory.

Program & Registration

Recognizing Contributions:

When publishing results derived from the ICM.Quant platform, we kindly remind you to acknowledge the platform. In cases where it is justified, consider adding the relevant team member(s) as co-author(s). This not only highlights the collaborative effort but also plays a crucial role in justifying the platform's activity and visibility.

Learn more

Thank you all for using the ICM.Quant platform. We strongly believe in the spirit of sharing! 🤝
