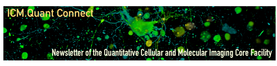
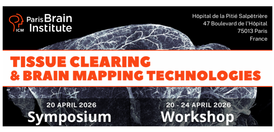


Introducing the February 2026 edition of the ICM.Quant Connect newsletter! 🚤

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, photonics & Image Analysis projects.



Tissue Clearing & Brain Mapping Technologies Workshop (April 20–24, 2026)

The Paris Brain Institute will host a five-day workshop combining an open symposium (April 20) with leading international speakers and a hands-on training (April 21–24). Participants will gain practical experience in tissue clearing, lightsheet microscopy, data analysis, and brain mapping.
Application deadline: March 1, 2026.
Contact: contact@idisco.info

Registration

Seminar – Insights from Human-Specific Genes on Synaptic Development

As part of our partnership with Nikon, we are pleased to welcome **Cécile Charrier (ENS)** for a special seminar on **February 17 at 11:00 am**, in **Room 1-2 (Paris Brain Institute)**.
The talk will explore how **human-specific genes** regulate synaptic development, cortical connectivity, and their links to neurodevelopmental disorders.
The event will open with short introductions by **Brian Lau (ICM)** and **Numako Massyuki (Nikon)**, and will conclude with a **networking cocktail**. We look forward to seeing many of you there.

🍾 Congratulations on Recent Publications with ICM.Quant Co-Authors

We are pleased to congratulate the authors and ICM.Quant platform members involved in two recent publications:
- ***Long-term cultures of Xenopus and Drosophila neurons and glial cells*; Frère N. etal., J. Neurosci. Methods, 2026 - *co-author Louise Mathé.***
- ***Biallelic null RAB3GAP1 variants impair cortical development and autophagy in Warburg Micro syndrome*; Noël E. etal., Acta Neuropathol Commun, 2025 - *co-author Asha Baskaran.***

These works highlight the strong scientific contributions supported by the ICM.Quant platform. 👏

Cryosubstitution System Upgraded with FSP Robot

We are pleased to announce that the ICM.Quant cryosubstitution system is now equipped with the **Leica EM AFS2 FSP robot**, providing enhanced automation and reproducibility for **electron microscopy sample preparation** during freeze-substitution workflows.

More info

QuPath Now Available on the Paris Brain Institute Cluster

QuPath is now accessible on the Paris Brain Institute computing **cluster**, offering powerful resources for demanding image analyses.
For support or questions, please contact the Image Analysis team: 📧 **quant-analysis@icm-institute.org**

Electronic Microscopy – Survey of Future Needs

The **Electron Microscopy service** is currently conducting a survey to identify the **future needs of the ICM community**.
Your input is essential to help us anticipate upcoming projects, adapt resources, and guide future developments.
If you have not yet responded, you can **still participate by scanning the QR code**.

Call for Microscopy Images from the ICM.Quant Community

We are excited to invite the **ICM.Quant community** to share their most beautiful and striking microscopy images.
Selected images will be showcased in several initiatives, including the **15th Anniversary Book of the Paris Brain Institute**, the **ICM.Quant website and presentations**, and the **visual decoration of the ICM.Quant platform**.
We welcome **unpublished optical or electron microscopy images** acquired using ICM.Quant instruments.
If you wish to contribute, please send your images to **quant@icm-institute.org**, along with basic information about the image and a short authorization statement.

New 3D Visualization Tools Available on the Platform

We are pleased to announce that the platform is now equipped with **SyGlass**, funded by **Sandrine Humbert's team**, as well as a **Meta Quest 3 virtual reality headset**.
This new setup enables **immersive 3D visualization and interactive exploration of complex imaging datasets**, opening new possibilities for data analysis and interpretation.

Lab Coat and PPE Reminder in Microscopy Areas

Thank you to all users for wearing **lab coats and appropriate PPE** in microscopy areas.
To support short back-and-forth movements during the day, **coat racks are now available in the rooms**.
Please note that lab coats should not be left there for long periods; any coats left too long will be **sent to the laundry**.
Thank you for your cooperation.

Research Resource Identification

Please cite our RRID (SCR_026393)

in your publications to increase visibility and traceability of your work. Thank you!

Reminder: User Data Responsibility on ICM.Quant Systems

ICM.Quant does not store or back up user data.
Please transfer your files after each session—data on workstations and servers may be deleted at any time (analysis stations auto-delete monthly).
Back up your data immediately to avoid loss.

💡 Tips & Tricks – GaAsP Detectors in Confocal & Multiphoton Microscopy

Why GaAsP?
GaAsP detectors provide **higher sensitivity** than standard PMTs, making them ideal for **low-signal**, **fast**, or **live imaging** experiments.
Reduce phototoxicity
Their efficiency allows imaging with **lower laser power**, helping preserve sample viability, especially in live or deep tissue imaging.
Optimize your settings
Use **low detector gain** to avoid saturation and maintain good signal-to-noise and quantitative accuracy.
Best spectral range
GaAsP detectors perform best from **green to red wavelengths**; standard PMTs may be more suitable for far-red signals.
Need advice?
The platform team is happy to help you choose the right detector for your experiment.

🙏Thank You for Participating in the ICM.Quant Users' Committee

Thank you to all ICM.Quant users who joined the December 1st, 2025 meeting. **Your engagement, discussions, and feedback** are invaluable in helping us continuously improve the light and electron microscopy and image analysis core facility. We appreciate your time and commitment.

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

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Paris Brain Institute