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Introducing the January 2025 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.



Happy New Year 2025 from the ICM.Quant Team!

The entire ICM.Quant team is delighted to wish you a Happy New Year 2025! May it be filled with exciting discoveries and success.



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Welcome to Louise Mathé !

We are delighted to announce that Louise Mathé has joined the ICM.Quant platform team!

Louise is an image analysis expert who will share her expertise to advise and guide you in your image analysis projects. She will be especially focused on supporting you with light sheet data.

In collaboration with Nicolas Renier's team, Louise is also gaining expertise in using the ClearMap software, ensuring that the platform continues to offer cutting-edge support for your research needs.

We look forward to the exciting contributions she will bring to the team!

The ICM.Quant platform, in collaboration with the ROQ team, invites you to



Switch to ECi for Clearing Experiments in **Lightsheet Microscopy**

The ICM.Quant platform, in collaboration with its users, has decided to transition clearing experiments to ethyl cinnamate (ECi) and discontinue the use of dibenzyl ether (DBE), which has been identified as more toxic.



ICM.Quant Platform Presentation at the February 11 Lunch &

Learn

The ICM.Quant platform will showcase its activities during the Lunch & Learn session on February 11. Registration details will be shared soon through the Institute's newsletter.



Update on Laboratory Equipment for Electron Microscopy

The toluidine blue-stained slides from the 2015-2019 period have been permanently disposed of.

Attention all TEM users: if you wish to retrieve your slides from 2020 to 2022, please notify us before the end of March.

Additionally, the contrast area for lead citrate grids has been relocated to Room 5.009, now designated as "Sorbonne." This room has been reorganized to accommodate this purpose.

How to Request **Training or Services** from the ICM.Quant



Platform

To request training or services from the ICM.Quant platform, please submit your application via OpenIRIS (https://iris.icminstitute.org/). Use the "Services" tab and filter by the provider ICM.QUANT. Then, simply select the training or service you need, whether in light-microscopy, electron microscopy, or image analysis.

	Image Analysis Development Service 2 Request / Demande de Developpement en Analyse d'Images ICM.QUANT (ICM)	Status: Online	#Q.¢)
	Contact: quant-analysis@icm-institute.org Type: Service		Submit reques
	Image Analysis Software Training Request / Demande de Formation sur les Legiciels d'Analyse d'Images ICM.QUANT (ICM)	Status: Online	@Q.\$)
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Co-Funding ICM.Quant for Secures **OMEROplus Software**

The ICM.Quant platform has received co-funding from Cancéropôle Ile-de-France to acquire the OMEROplus software, enabling the creation of a microscopy image database. This project has been supported by various SIRICs, including SIRIC CURAMUS, and is jointly managed by the IT Department (DSI), the Clinical Research Department (DAC), and ICM.Quant. We will provide updates as soon as the project is launched.



New: ARIVIS Software – Cutting-Edge Image

Analysis

We are excited to announce that the platform is now equipped with the Arivis image analysis software. This innovative tool opens up new possibilities for advanced quantitative analyses.

With Arivis, you can create automated pipelines to analyze data generated by the CellDiscoverer 7 microscope. The software is also optimized to handle large-scale High Content Screening (HCS) datasets.

One of its key features? The integration of deep learning algorithms that streamline and enhance image segmentation, delivering highly precise results.

Discover the full potential of Arivis and take your image analysis projects to the next level!

Learn more

Tips and Tricks 🧐 :

Reminder: Use Lossless File Formats for Image Analysis

For image analysis, avoid lossy file formats like JPG/JPEG, as they sacrifice image quality. Instead, choose lossless formats (e.g., TIFF) or uncompressed formats (e.g., BMP) to preserve all original image data. Whenever possible, use the constructor file format to ensure metadata is retained for better data traceability. If your images are already saved in a lossy format, converting them to lossless won't

restore the lost data.



New Zeiss CellDiscoverer 7 Microscope is available!

The Zeiss CellDiscoverer 7 microscope is now installed in our facility! This advanced

automated microscope expand our imaging capabilities, offering high-quality, highthroughput imaging for live-cell studies. With its environmental control, automated focus, and versatile imaging modes, the CellDiscoverer 7 will enable us to explore new research avenues and generate groundbreaking results.

Learn more



New Wiki Available to Assist with OpenIRIS

We're pleased to announce that a new wiki is now available to help you navigate **OpenIRIS** (<u>https://iris.icm-institute.org/</u>), the platform used by ICM.Quant for managing various tasks such as equipment reservations, training requests, incident reporting, and more. To learn how to effectively use OpenIRIS, visit https://wiki.openiris.io. The wiki provides detailed information on how to log in, request training, receive notifications, and explore other useful features.

ICM.Quant Enhances Quality with ROQ Support



ICM.Quant is excited to announce the **implementation of a new** quality process to further improve our facility. With the invaluable support of the ROQ service, we are committed to delivering the highest standards. A mock audit will take place on March 13, 2025. This important step will help us assess our readiness and ensure optimal preparation.

Recognizing Contributions S:

When publishing results derived from the ICM.Quant platform, we kindly remind you to acknowledge the platform (article and oral presentation). 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 <u>visibility</u>. ≽

Learn more

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

sharing! 🤝





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