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JEOLink Newsletter

ELECTRON MICROSCOPY | ELEMENTAL ANALYSIS | SAMPLE PREPARATION

JEOL USA MICROSCOPY NEWS | JULY 2023

SEM | TEM | EPMA | Sample Prep | NMR | Mass Spec | FIB | E-Beam | Elemental Analysis



M&M 2023 - Looking Ahead to a Great Conference!

We're excited for M&M 2023! JEOL has a great lineup of SEMs that we will demonstrate in our booth - from our award-winning Tabletop SEM to the ultimate in imaging and analysis Field Emission SEM - plus two brand new instruments to round out our complete lineup of Electron Microscopes! And not to be outdone, we will have the world's most flexible 120kV TEM, the JEM-1400Flash equipped with the Gatan Metro Camera.

If you're coming to Minneapolis for Microscopy and Microanalysis 2023, we invite you to:

- **Experience JEOL Electron Microscopes Live!**
- **Run your own samples on our SEMs!**

Presentations, Lunch&Learn, After-hours Tutorials

Monday 3PM EPMA, Micrometeorites, SXES, and More - Dr. Anette von der Handt, Univ British Columbia and Peter McSwiggen, McSwiggen & Assoc.

Tuesday 12PM Lunch & Learn "Everyday Direct Detection with the Gatan Metro Counting Camera" - Dr. Benjamin Miller, Gatan

Tuesday 3PM "Automation Workflows for Imaging with Simple SEM and Python Scripting" – Dr. Kayleigh Harvey demonstrating on new JEOL Field Emission SEM

Tuesday After Hours Tutorial 5:45PM "A New FIB-SEM for TEM Sample Preparation Workflow" - Dr. Patrick Phillips, JEOL

Wednesday 12PM Lunch & Learn - "IDES Introduction of Tempo STEM"

Wednesday 3PM "Automation Workflows for EDS with Montage" – Dave Edwards demonstrating on new JEOL SEM

Wednesday After-hours Tutorial 5:45PM "Revealing the Latent Atomic World Through Data-Driven Microscopy" - Dr. Steven R. Spurgeon, PNNL

JUST FOR FUN

Join us Tuesday afternoon for an Origami demonstration, and Wednesday from 10-5 for a caricature artist!

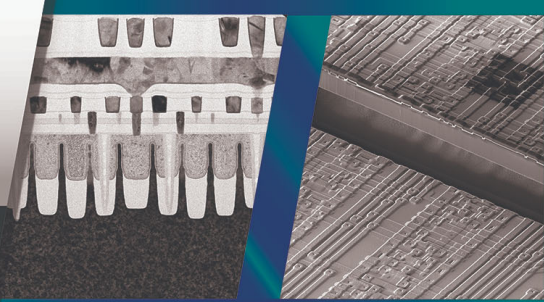
Complete our quiz and enter our raffle for 3 days of prizes.

[Sign up now for a demo and for our in-booth presentations!](#) Follow us on social media for daily updates. See you there!



JEOL Installs Two Cryo-Electron Microscopes at Generate: Biomedicines

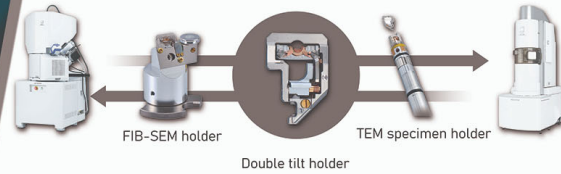
The [CRYO ARM 200](#) and [CRYO ARM 300](#) stand ready to produce terabytes of valuable data for researchers at [Generate:Biomedicines](#), who are accelerating drug discovery and development of novel therapeutics using machine learning and generative artificial intelligence. They will be used to capture atomic resolution details of proteins that will help provide therapies in the fields of oncology, immunology, and infectious disease. [More](#)



JIB-PS500i FIB-SEM

The Cutting Edge in
Preparation, Imaging, & Analysis

Specimen transfer workflow with double tilt cartridge



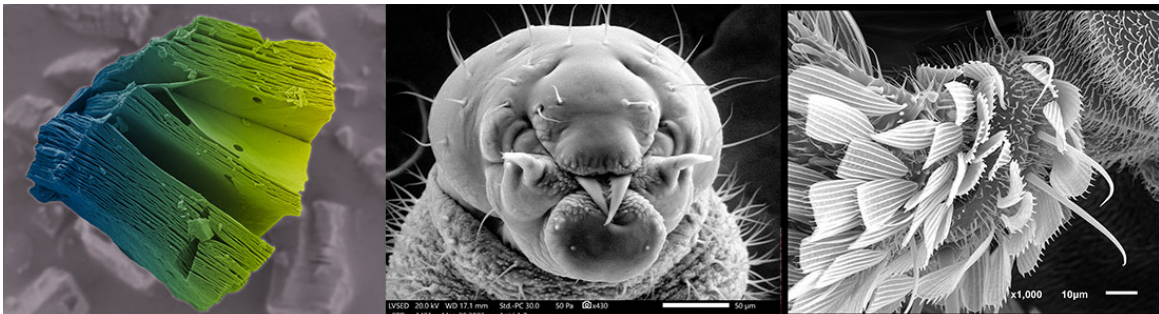
New FIB-SEM for Fast, Atomic Resolution STEM Sample Preparation

The [new JIB-PS500i](#) is a multipurpose FIB-SEM that delivers the synergy of fast sample preparation, SEM imaging and EDS analysis in a single instrument.

High Quality Fast TEM Sample Preparation

The new FIB sample stage offers fast transitioning between processing and imaging, allowing for real-time feedback of specimen quality. With the ability to prepare samples thinner than 30nm, the FIB-SEM produces a sample suitable for superior atomic resolution imaging and analysis with STEM.

[Learn more and see our new video.](#)



Congratulations to our Image Contest Winners!

April: "MXene Chronicle", Nithin Chandran BS, Indiana University-Purdue University Indianapolis

May: "Fully Hydrating Facial", Anurag Sharma (Electron Microscopy Resource Center) & Parviz Daniel Hejazi Pastor (Kronauer Lab), The Rockefeller University

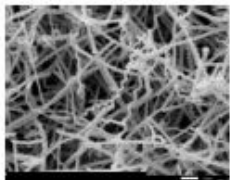
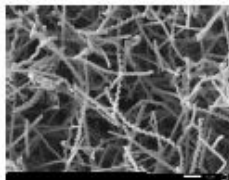
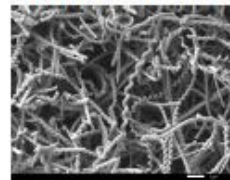
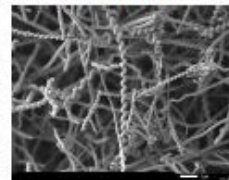
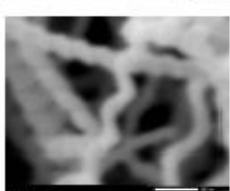
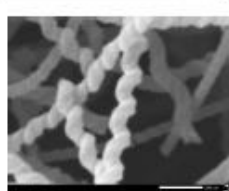

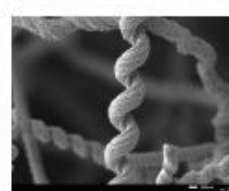




June: "Mo" Sheri Neva, Eurofins EAG

Visit the [Image Contest page here](#) for more images and descriptions, and to enter your own image!



Choose the Right SEM for Your Lab

Click Each Product for Video

Tabletop	Tungsten	Multipurpose Field Emission	UHR Field Emission
			
			
			

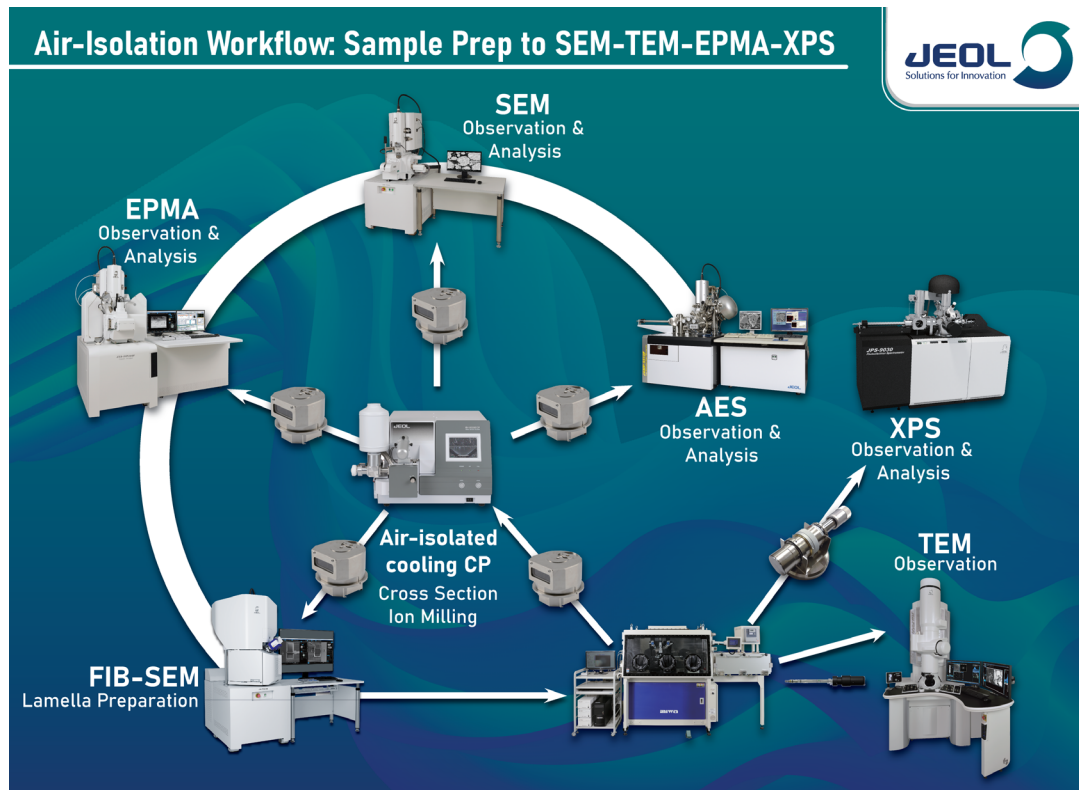
10um
1um
100nm

Looking for a new SEM? Let us help you determine what fits best for your needs. See our [selection guide](#) with links to videos. Heading to M&M 2023? [Schedule a demo](#) to see our microscopes on the show floor and bring your samples!

Air-Isolation Microscopy Workflow

Are you looking at sensitive samples such as lithium ion batteries and other materials? JEOL offers an air-isolated specimen preparation and transfer workflow for imaging and analysis with SEM, TEM, EPMA, FIB-SEM, and XPS.

[Learn more in our new video.](#) For specific applications information, [visit our resource page](#) describing microscopy for energy materials.



Learn how JEOL is committed to sustainable development goals

[View JEOL Webinars on Demand](#)

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