



JEOL USA Microscopy News



Join JEOL USA in the November Battery Forum

Jennifer Misuraca, JEOL USA FE-SEM Product Manager, will be presenting in [Volta Foundation's November Battery Forum](#) on November 13th at 11am ET. Her session, "Next-Generation X-ray Solutions for Lithium Detection in SEM", will cover how [JEOL EDS](#) and [SXES](#) pushes the boundaries of lithium detection and nanoscale analysis – providing unprecedented insights into material behavior and performance. Registration for this virtual session is free and open now!

[Register Here](#)



2025 JEOL x Indiana University NeoARM Research Award

The winners have been announced for the 2025 JEOL–IU NeoARM Research Award, a program recognizing compelling undergraduate and graduate research conducted using the JEOL JEM-NeoARM200CF electron microscope. Congratulations to winners Baixu Zhu, Megan Knobloch, and Rukshanthan Selvaraj!

[Read More About the Award](#)



JEM-120i: Compact and Easy to Use

Compact and easy to use, the [JEM-120i system](#) is practical and intuitive. From specimen insertion to image acquisition in just four steps, the JEM-120i is the choice 120kV TEM for facilities looking to expand their lab's capabilities without sacrificing the space.

[Learn More](#)



JEOL is proud to provide solutions for Nobel Prize–level innovations!

Congratulations to Professor Susumu Kitagawa, awarded the 2025 Nobel Prize in Chemistry for his pioneering work on metal–organic frameworks (MOFs). We are honored to have played a part in supporting this important field of research — and to continue walking alongside those shaping its future.

We especially look forward to the future of the Rigaku/JEOL Ltd. iCeMS Innovation Core at Kyoto University— a new collaborative research unit, featuring the XtaLAB SynergyED, which will serve as a hub for creating new analytical technologies and research.



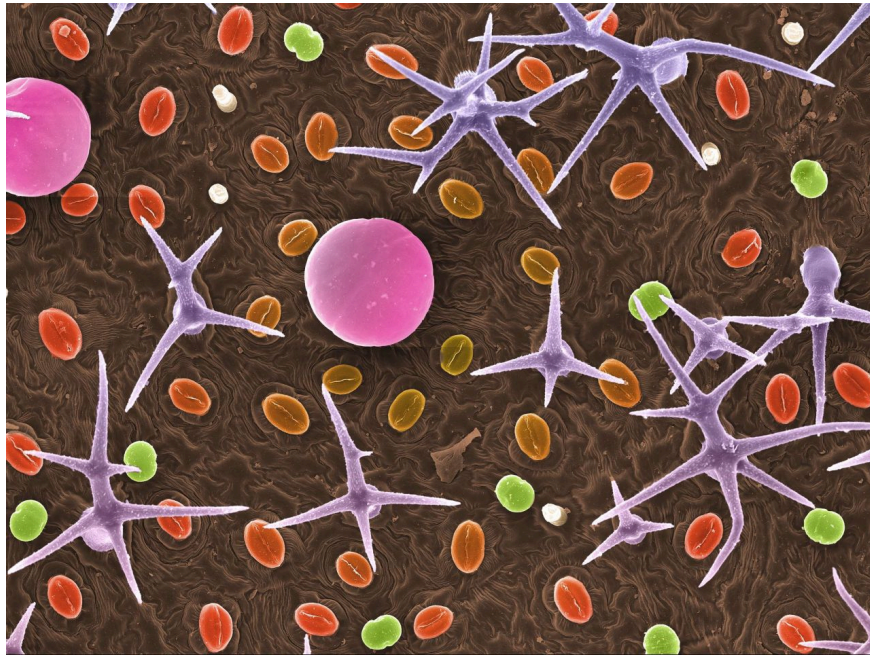
Featured Research

We are excited to share a recent study featuring cryo-EM data collected on a cryoARM200. [Published in Nucleic Acids Research](#), "A Conserved nuclease facilitates environmental DNA uptake" details YhaM, a conserved 3'-deoxyribonuclease that assembles into hexameric rings to process single-stranded DNA during bacterial transformation. This enzyme boosts DNA uptake efficiency and is conserved across Gram-positive pathogens, offering new insight into how microbes adapt to new environments.

Do you have a published paper or news to share related to your applications with a JEOL instrument? Let us know! Contact JEOLink@jeol.com.

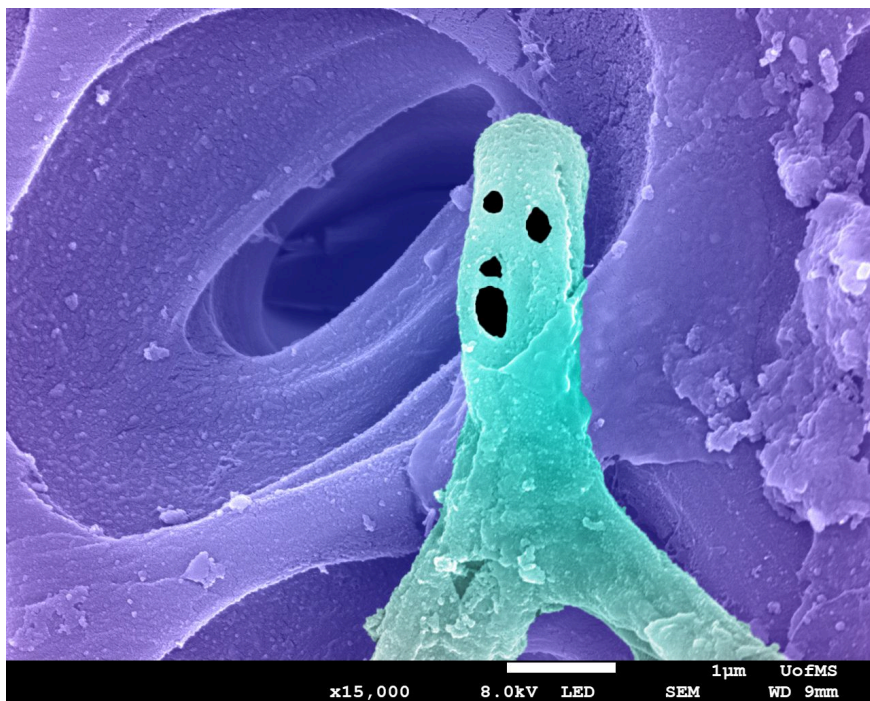
[Read the Study](#)

Image Contest Winners



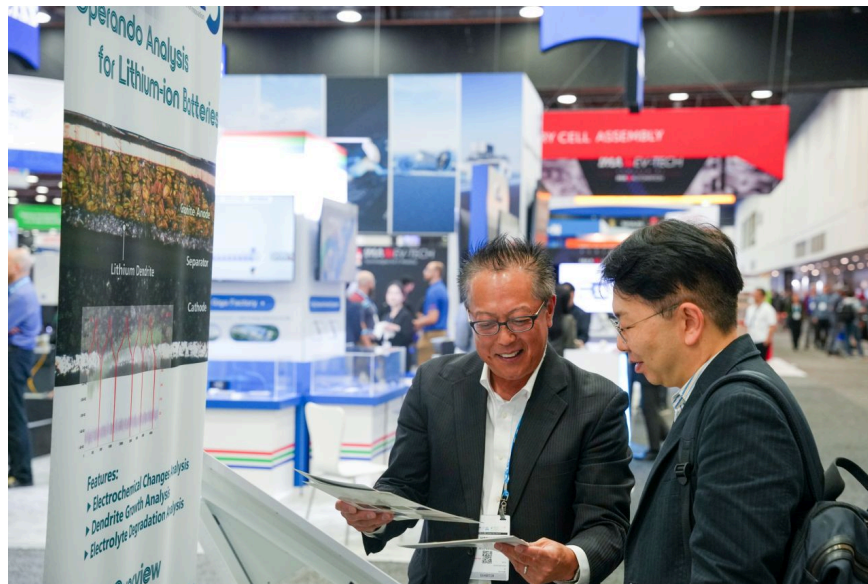
August: *Trichome Terrain* by **John Adams Sabestian** from the **University of Mississippi** , captured on the **JSM-7200F FE-SEM**.

Using the secondary electron (LE) detector, John Adams captured the glandular and non-glandular trichomes on the surface of a lavender leaf.



September: *Face Pareidolia - Vessel Man* by John Adams Sabestian on the JSM-7200F FE-SEM again! This micrograph reveals an anatomical illusion, featuring a "human face" hidden within endophytic fungal mycelium inside the xylem vessel. This sample was scanned for structural and fungal observation in the xylem region.

For your chance to be featured and win a prize, visit the JEOL Image Contest Gallery and [submit your images here](#).



Trade Show Highlights

Recently, JEOL USA has exhibited at:

- **The Battery Show in Detroit, MI** –Featuring our EO and NMR solutions for battery science.
- **SEMICON West in Phoenix, AZ** – Showcasing our our e-beam lithography and microscopy solutions for nanoscale science and semiconductor fabrication.

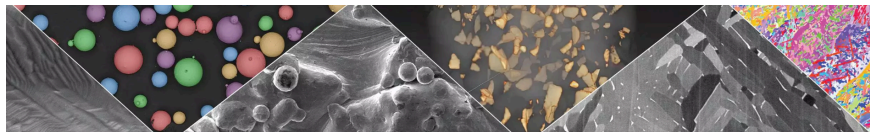
We appreciate everyone who stopped by our booths to learn more about how JEOL is committed to driving scientific discovery and innovation. [See where JEOL USA is exhibiting next here.](#)



Fall Community Service Events

This fall, the JEOL USA team came together for two hands-on volunteer events that celebrated service and the season: We joined Bridgewell at Newhall Fields Community Farm for a day of field maintenance, contributing to a space that brings fresh food and sustainability to our local community. Our team also carved pumpkins to help illuminate the walking trails for Mass Audubon's Ipswich River Wildlife Sanctuary.

We're proud to support these amazing organizations and their missions!



Application Spotlight: Additive Manufacturing

Additive Manufacturing (AM) is revolutionizing production across a host of industries from aerospace to medical devices. With decades of expertise in electron optics, JEOL supports the AM community through advanced materials characterization and innovation in 3D printing. [Visit our new applications page to learn more about our solutions for additive manufacturing!](#)

Posters for Your Lab

[Posters are available on our website!](#) Browse to find one you like, and submit the online form to place your request.



[Learn how JEOL is committed to sustainable development goals](#)

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