

New JEOL TEM developments for cryo biology

Guillaume Brunetti, JEOL (EUROPE) SAS

Since 1949, JEOL's legacy has been one of the most remarkable innovations in the development of instruments used to advance scientific research and technology. JEOL has 60 years of expertise in the field of electron.

The CRYO ARM™ 200 and CRYO ARM™ 300, equipped with a new generation cold field emission gun, an in-column Omega energy filter, a side-entry liquid nitrogen cooling stage and an automated specimen exchange system, are cryo-electron microscopes (cryo-EM) that enable observation of bio-molecules at cryo-temperature. The NEW automated specimen exchange system features the storing of up to 12 samples. In addition, the system allows for the exchange of an arbitrary one or more sample, thus enabling flexible scheduling. Furthermore, the combined use of a newly-designed in-column Omega energy filter and a Hole-free phase plate dramatically enhances the contrast of TEM images of biological specimens.



CRYO ARM™ 300