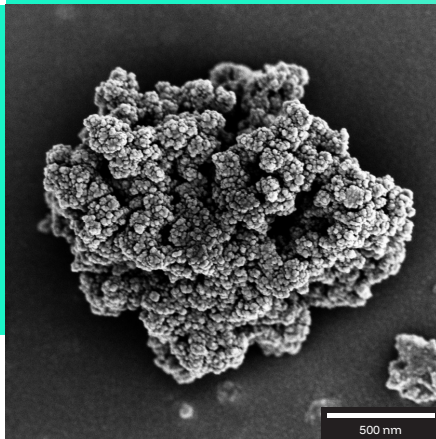
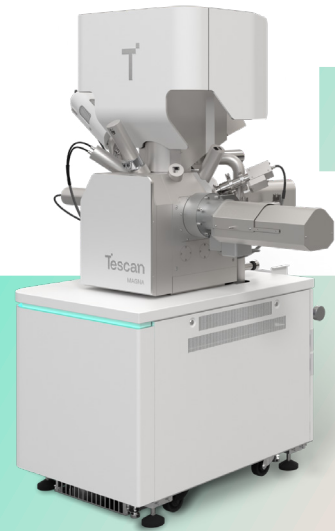
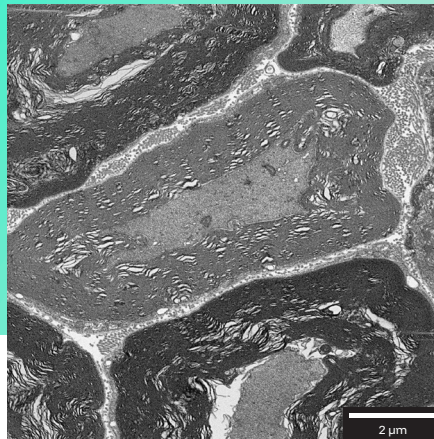


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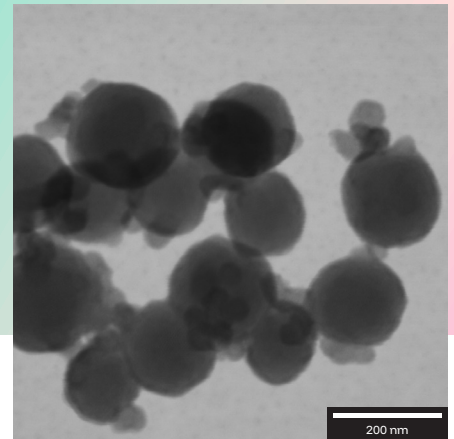
Advanced UHR SEM and STEM imaging for characterization of your biological and beam-sensitive samples



↑ Activated carbon doped with metallic nanoparticles visualized with In-Beam SE detector at accelerated voltage of 2 keV.



↑ Resin embedded brain tissue. The ultrastructure were visualized using In-Beam BSE detector at accelerating voltage of 2 keV.



↑ Morphology of nanoparticles used in drug delivery research visualized by R-STEM detector at 30 keV.

Key benefits

UHR imaging of non-conductive beam-sensitive samples at low-kV.

Routine investigation of heavy-metal stained ultra-thin sections with excellent contrast using the In-beam BSE detector at extremely low kV.

Easy-to-use STEM detector as a cost-effective alternative to routinely used TEM.

Compatibility with major cryo-system suppliers on the market.

Easy-to-use, fully customizable, application-oriented and modular user interface.

Applications

UHR BSE imaging of delicate, ultra-thin sections even at low-kV

Detection of transmitted electrons with dedicated STEM detector in multiple life science applications

Detailed study of nanoparticles and agglomerates of pharmaceutical samples

Morphological and elemental characterization

Cryo-SEM observation of outer cellular compartments and freeze-fractured frozen samples