



| Collaborative/ service platform |



Transmission Electron Microscopy

FIELD OF ACTIVITY

- Biology:
 - Ultrastructural morphology.
 - Ultrastructural immunocytochemistry.
 - Nanoparticles for protein targeting.
- Material physics:
 - Nanomaterials and new alloys.
 - Interfaces: structural, damage and properties.
 - Protection of materials, multimaterials.

Host laboratory Pierre-Marie Fourt Materials Center
at the École des Mines in Paris

Supervisory body Mines ParisTech

Funding bodies Mines ParisTech - CRIF -
INSERM - ARMINES - Genopole®

Director Yves Bienvenu

Technical Facility Managers

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EQUIPMENT/FACILITIES

Transmission Electron Microscopy

- /// Field emission gun; acceleration voltage: 80–200 kV; resolution: 0.24 nm; specimen stage angle: $\pm 80^\circ$.
- /// Imaging in conventional and high-resolution modes with a magnification ranging from x50 to x1,000,000 (20 million on the CCD camera).
- /// Scanning transmission electron microscopy (STEM) with bright-field detector (BF), annular dark field (ADF) and high-angle annular dark field (HAADF) modes.
- /// Local chemical analysis with an energy-dispersive X-ray spectrometer coupled to a nanometer probe.
- /// Energy-filtered imaging system (GIF) coupled to an electron energy loss spectrometer (PEELS).
- /// Slow scan CCD camera (1k x 1k) wide-angle CCD cameras (14 million pixels).
- /// A nanotomography system (in TEM and energy filtered TEM modes).

Samples préparation

- /// Ultramicrotomy : LEICA EMTRIM and LEICA ULTRACUTR.
- /// Tint : Lynx and Microscopy Tissue Process.

ACCESS PROCEDURE

Please contact :

Material physics

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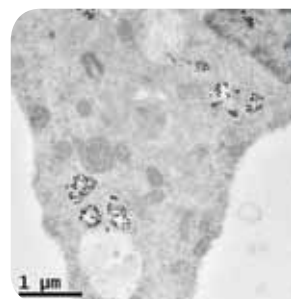
Biology

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Mode STEM



Mode TEM