

Réunions scientifiques

Séminaire SOLEIL

Soft X-ray transmission and emission microscopy with the TwinMic station at Elettra

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(ELETTRA, Trieste, Italie)

Lundi 27 septembre à 14h00 Grand Amphi SOLEIL

Invité par Jean-Pierre SAMAMA

The TwinMic soft X-ray transmission and emission spectromicroscope is multipurpose instrument synergizing several imaging modes including full-field imaging and scanning microscopy with contrast modalities as bright-field, differential phase and interference contrast. The contribution will describe in detail the instrument and discuss its pros and cons. Most recent achievements demonstrating the capabilities of the TwinMic soft X-ray spectromicroscope at the Elettra synchrotron radiation facility (Trieste, Italy) in tissue, cellular or subcellular analysis are based on imaging with low-energy X-ray fluorescence spectroscopy and micro-spot X-ray absorption spectroscopy. Selected results will represent research fields including biotechnology, biomaterials, food science and nanotoxicology, neuroscience and clinical medicine. They will illustrate new insights into the morphology and compositional enrichment, distribution and correlation of the elements resulting from growth of plants under altered environmental or toxic conditions, concentration dependence of penetration of engineered nanoparticles in different cell organelles and changes in the nanoparticle chemistry inside the cells, chemical reaction of lung tissue in the presence of inhaled asbestos species, among others.



Formalités d'entrée : accès libre dans l'amphi du Pavillon d'Accueil. Si la manifestation a lieu dans le Grand Amphi Soleil du Bâtiment Central, merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

SYNCHROTRON SOLEIL

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