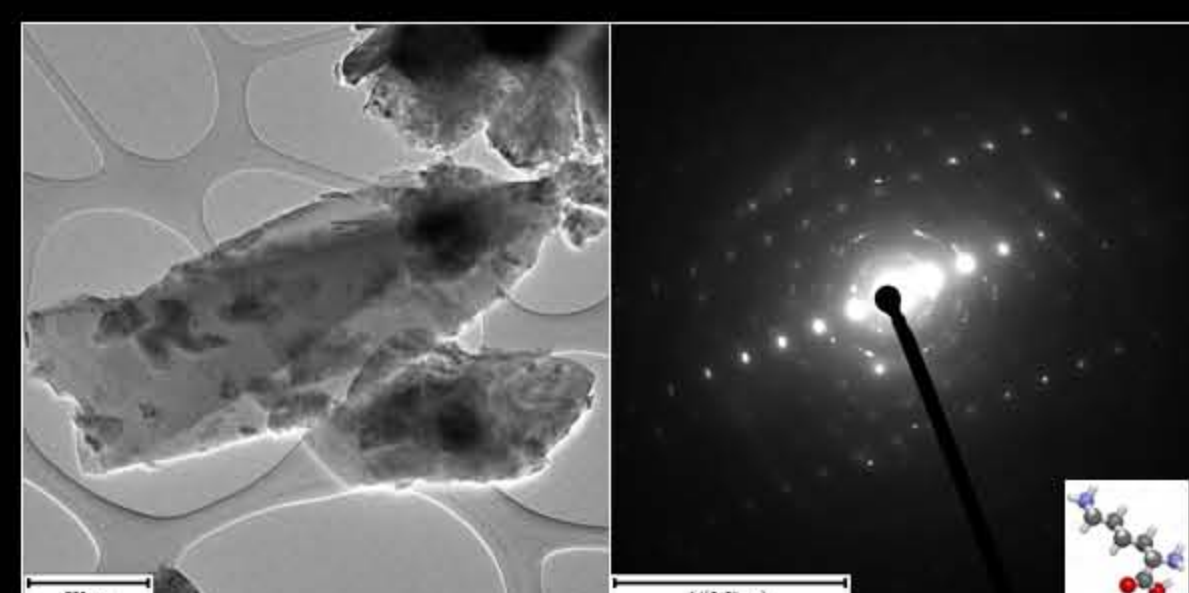


Qiaohui Yang, Chee Peng Ng & David Liebl

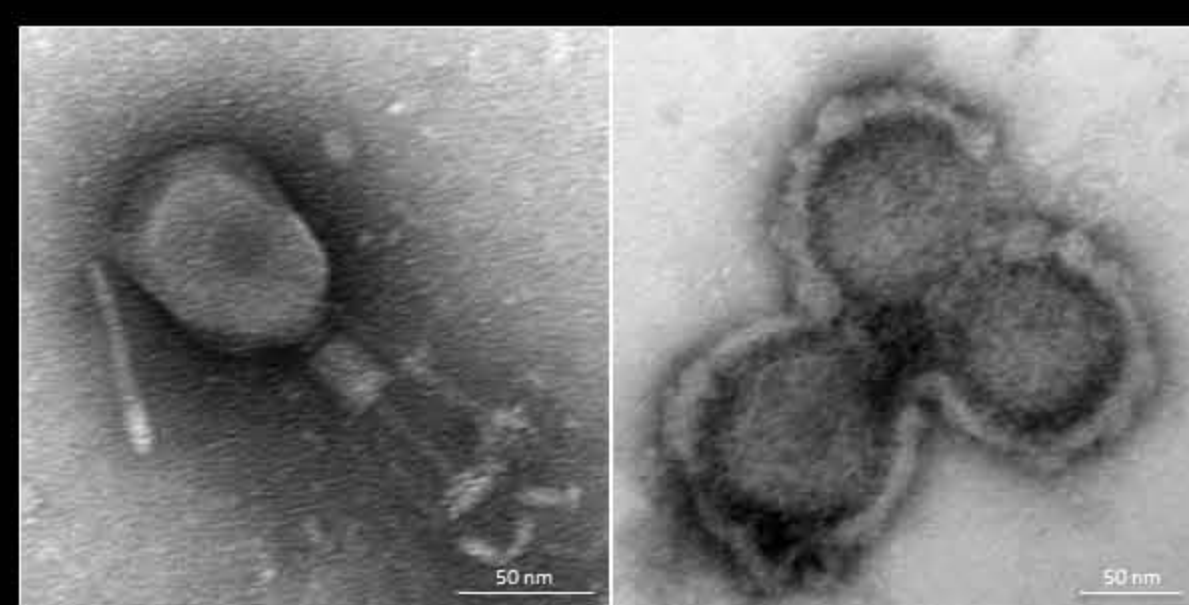
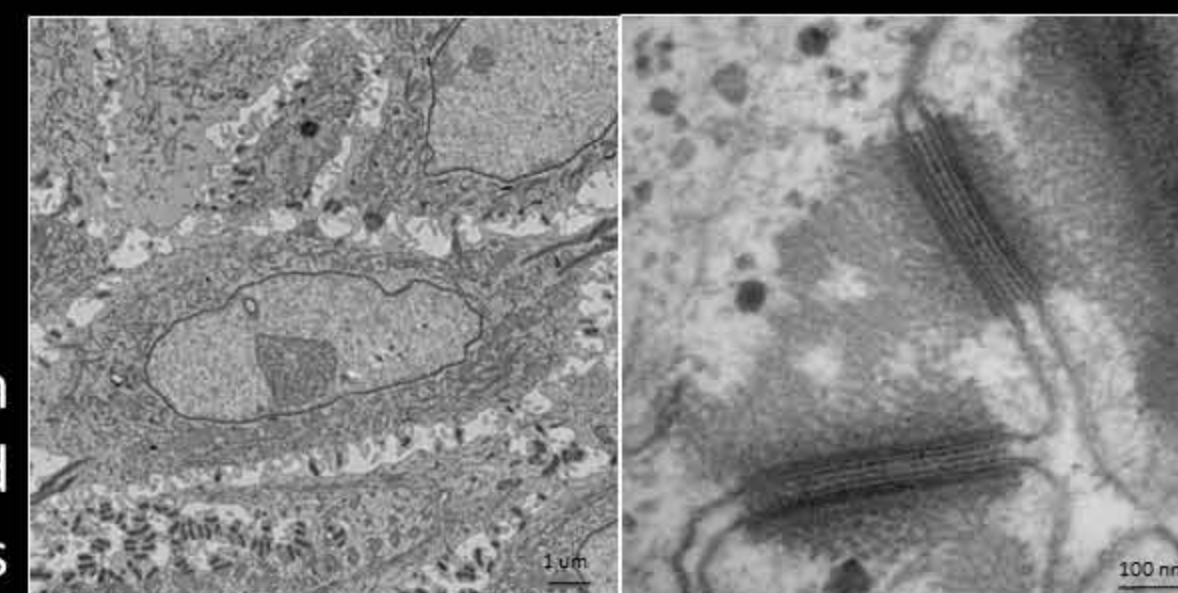
AMP|EM supports use of electron microscopy techniques in biomedical research. Equipped with Scanning/Transmission electron microscopes (SEM/TEM) and cryo-processing instruments, our team provides training, user support and services in preparation of biological, bio-composite and material samples, TEM/SEM imaging and qualitative and quantitative imaging data analysis.

## Techniques



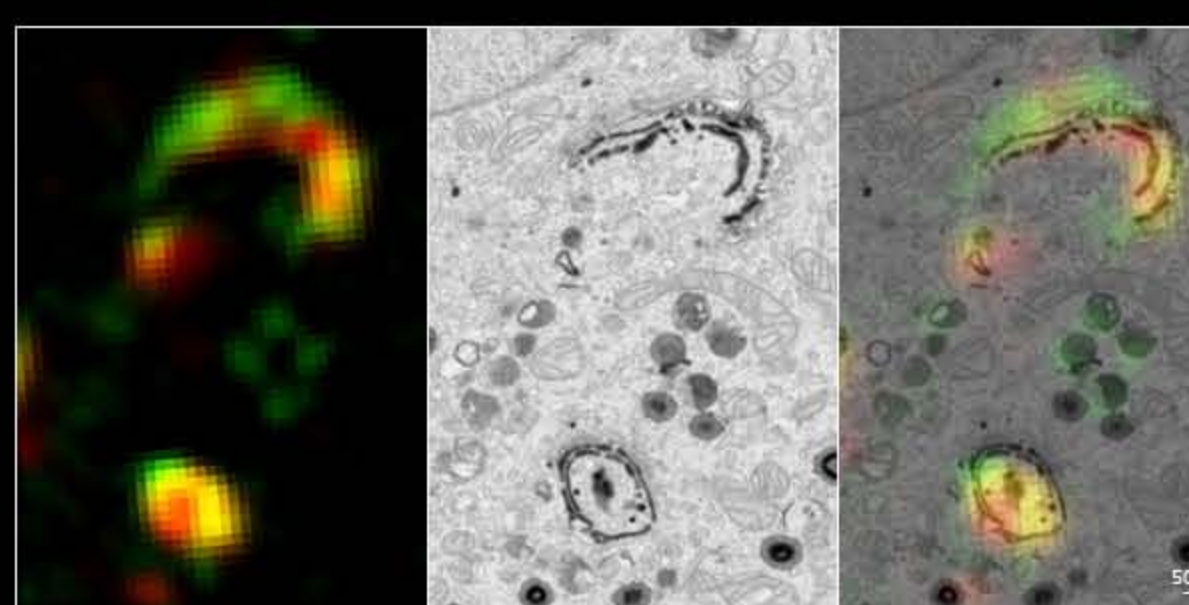
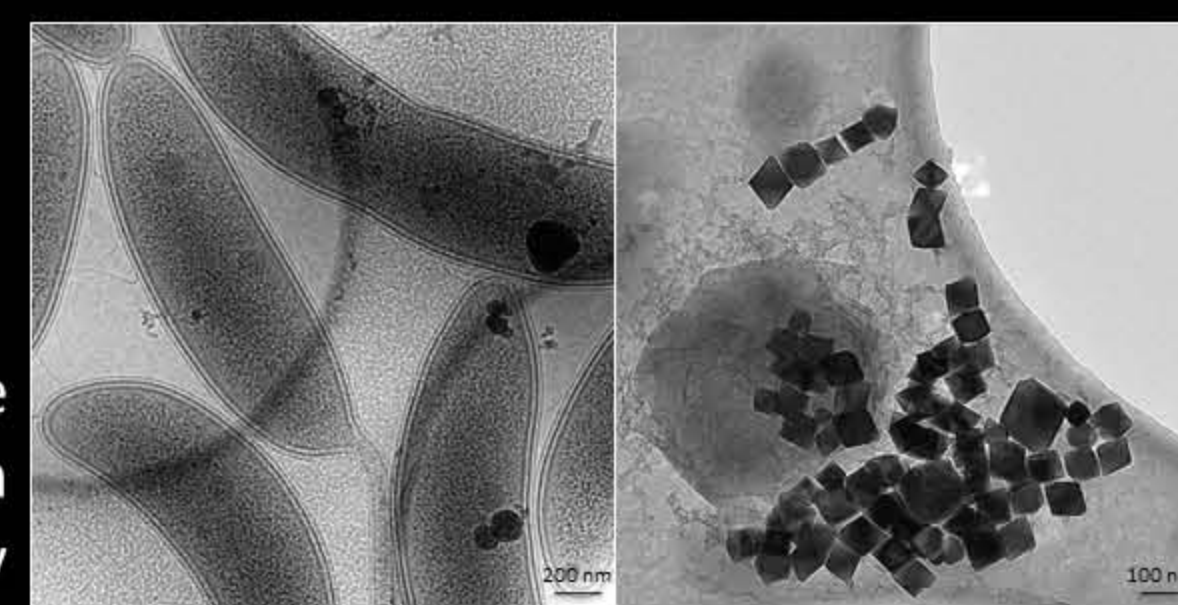
Electron Diffraction for structure determination of microcrystalline molecular compounds

TEM analysis of ultra-thin sections from resin-embedded cells, tissues and biopsies



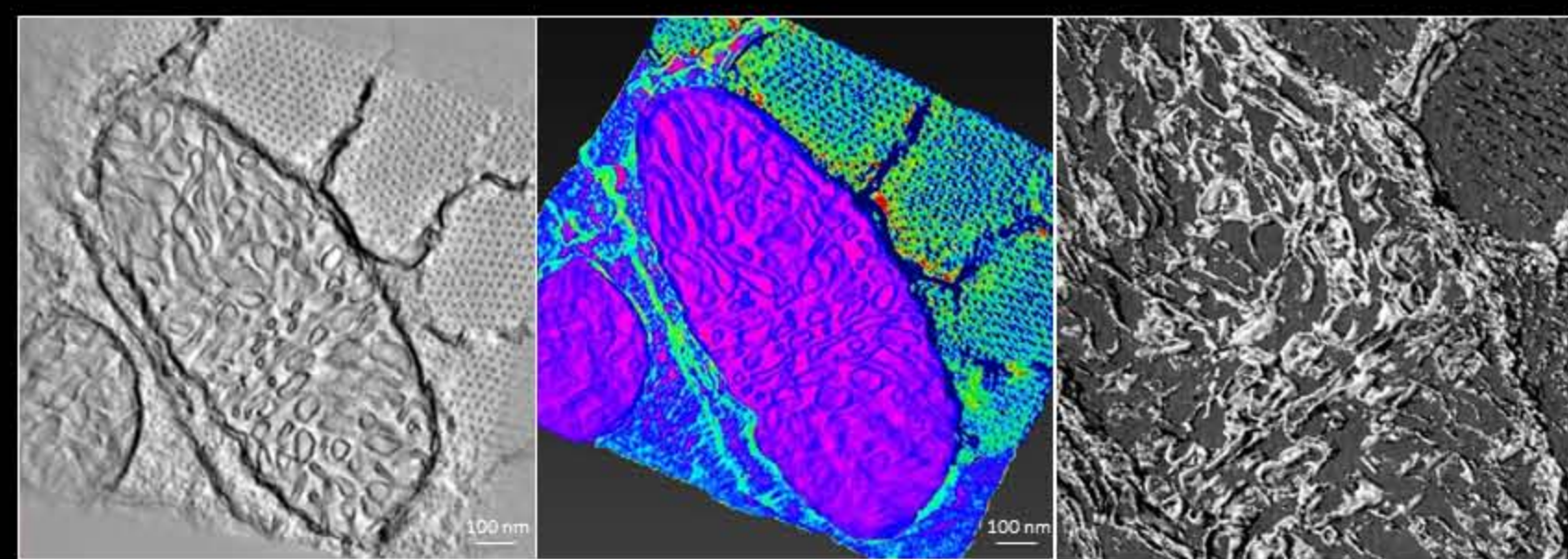
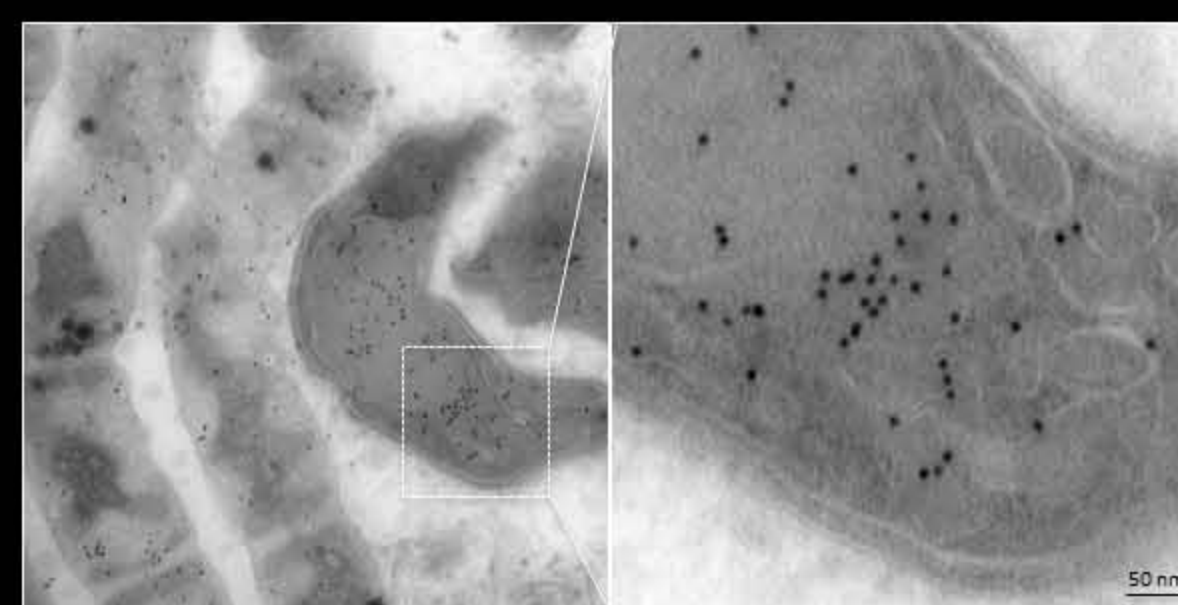
Ultrastructure of purified protein complexes, liposomes, microbes, or nanoparticles

Fine ultrastructure of delicate samples by cryo-preservation and Cryo-Electron microscopy



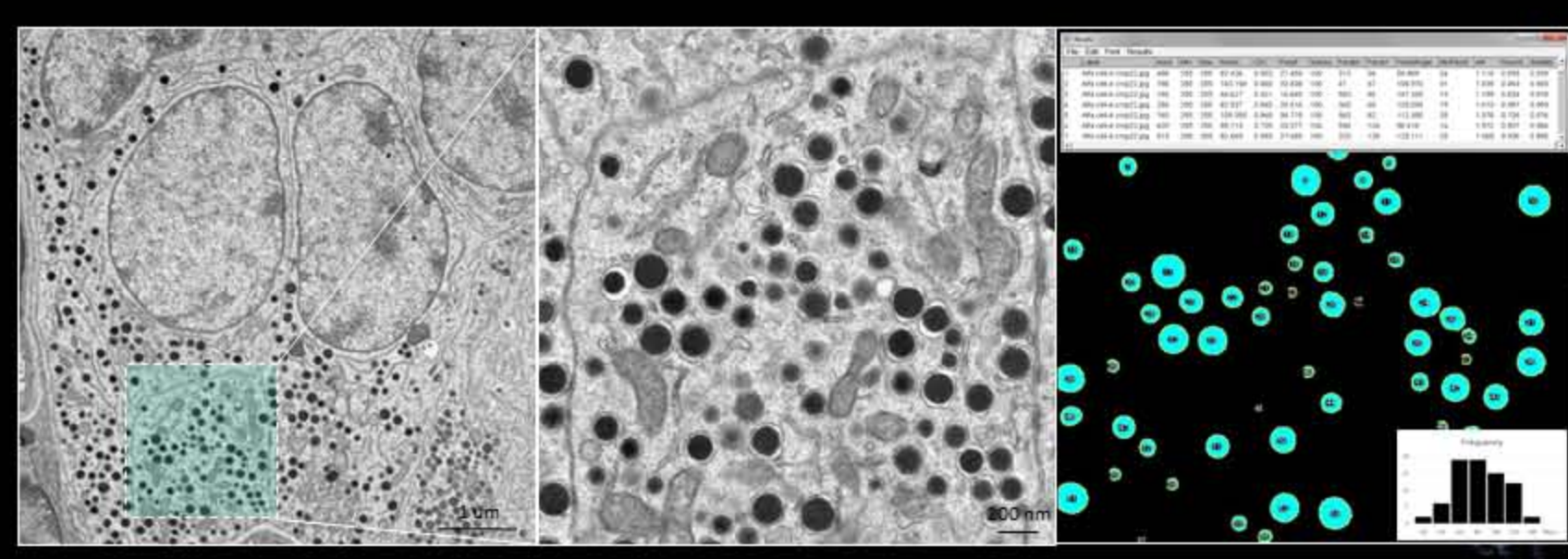
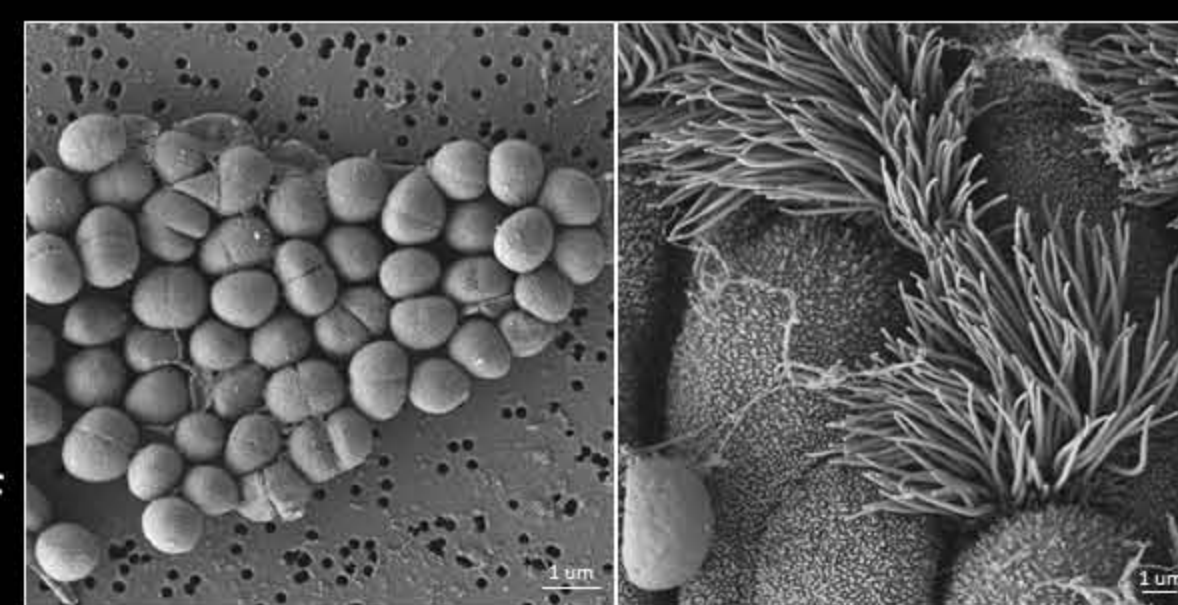
Combining fluorescence imaging with TEM ultrastructure by Correlative Light and Electron Microscopy (CLEM)

Cellular and microbial antigen detection and localisation in hydrated cryo-sections by immuno-gold TEM



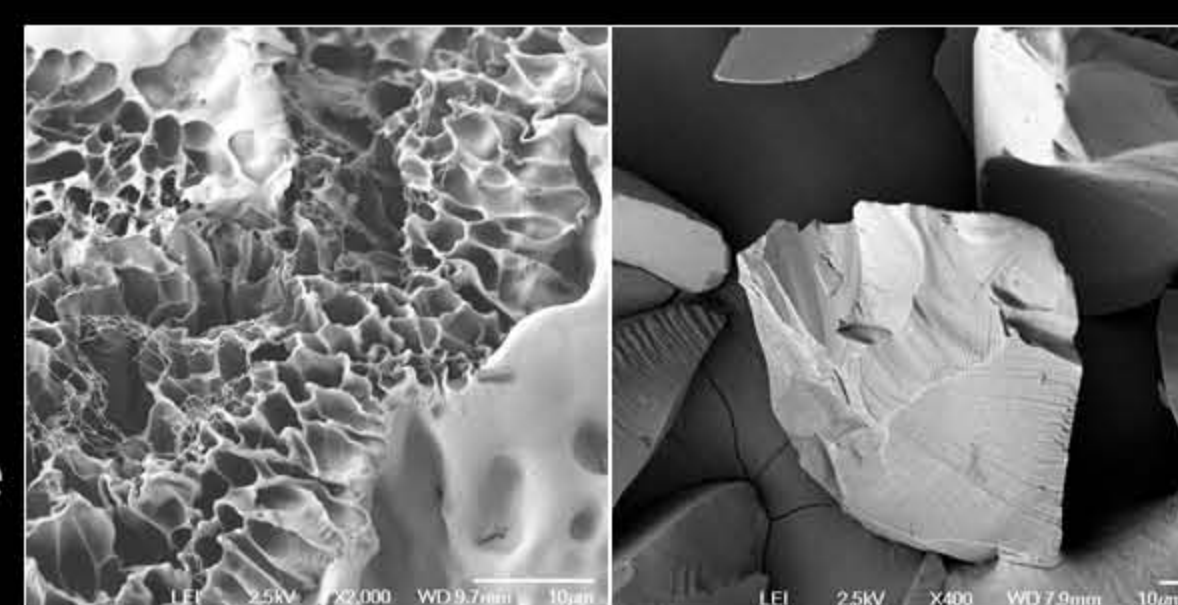
Partial 3D volume reconstruction of cellular organelles by Electron Tomography

3D-surface morphology of biological samples by SEM



Quantitative morphometric analysis, Stereology and STAT

Material and biocomposite ultrastructure analysis by SEM



## People



A Singapore-wide microscopy infrastructure network

## Operation workflow

