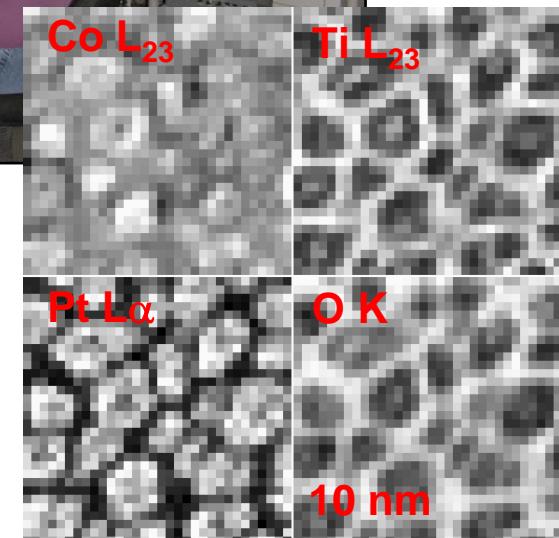


# Philips CM200-FEG TEM-STEM

## Techniques/Capabilities:

- 200-kV Schottky field-emission gun (FEG)
- Post-column Gatan imaging filter (GIF)
- EDAX R-TEM EDS detector
- Gatan 794 retractable 1024<sup>2</sup> MSC CCD camera
- Emispec Vision acquisition system
- Fischione HAADF (Z-contrast) and Gatan BF/DF STEM detectors
- CompuStage SuperTwin lens ( $\pm 30^\circ$  tilt)
- Oil-free vacuum (gun, column, airlock)
- Specimen holders: double-tilt EDS (RT and LN<sub>2</sub> cooling) plus wide range of pre-CompuStage holders



## Current Research Activities:

- High-resolution microanalysis; simultaneous EDS and EELS mapping in STEM mode (spectrum images and lines) at ~1 nm resolution
- HREM (0.23 nm Scherzer resolution)

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