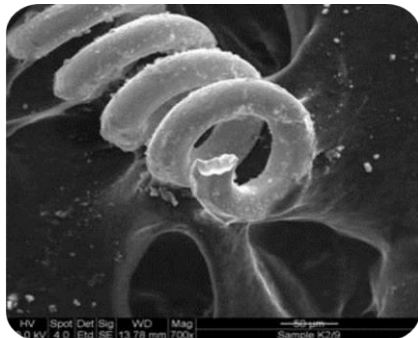
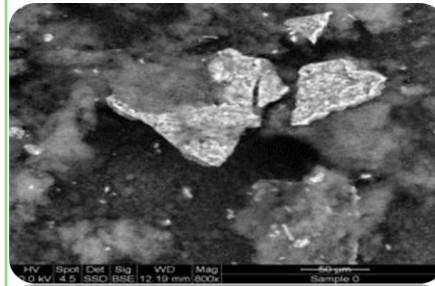


Examples of the different types of measurements and analysis that can be performed with this instrument are shown in the gallery below

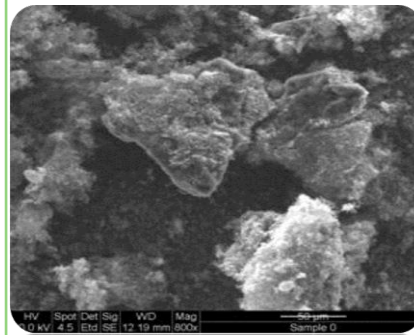


**Tungsten spiral wire
breakdown surface -
high vacuum mode.**

Bright phase on the backscattered image composed of the cobalt particles on carbon powder background.



Backscattered electrons



Secondary electrons

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Scanning Electron Microscope Unit
Ground Floor
Lab No.38
Building 13

Central Laboratory
And
Prince Naif
Health Research Center

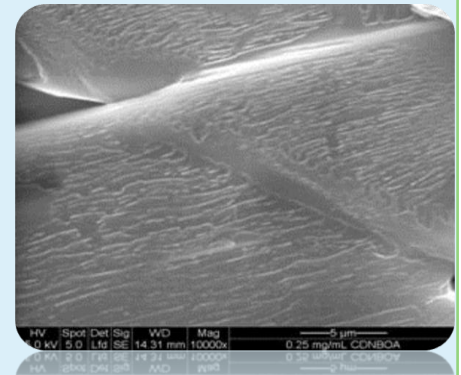
Medical Studies and
Scientific Sections

**Environmental
Scanning
Electron Microscope**



Scanning Microscope

- The Quanta 250 Environmental Scanning Electron Microscope (ESEM) produces enlarged surface images of a variety of specimens.
- Achieving magnifications of over 150 000X providing, high-resolution imaging in a digital format.
- Imaging can be performed in traditional high vacuum mode, low vacuum nitrogen atmosphere mode and a hydrated “environmental” low vacuum mode suitable for some unfixed biological samples.
- This instrument excels at permitting an exceptional magnification range when working with a wide range of accelerating voltages, and can accommodate samples with minimal specimen preparation. Detectors for collection of back scattered and secondary electrons are available.



Organic crystals - low vacuum mode (non-coated)

The Quanta has a schottky field-emission source gun and three modes of imaging and analysis

High vacuum for characterization of conductive samples low vacuum (>200 pa) for analysis of non-Conductive samples,

Environmental (ESEM) mode (>4000 pa) for studying wet organic or inorganic materials.

