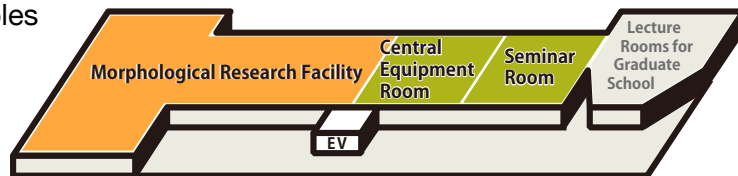


# Morphological Research Facility

Building 3  
1st Floor

Analytical devices to examine microstructures such as biological tissues and dental materials and devices for the preparation of their samples are installed. Main instruments include precision analyzers such as transmission electron microscope, scanning electron microscope, micro-focus X-ray CT, and HS all-in-one fluorescence microscope, as well as a microtome for sample preparation, critical point dryer, freeze dryer, ion sputtering device, and vacuum vapor deposition apparatus. A scanning photoelectron spectrometer PHI X-tool (ULVAC-PHI) was installed with the subsidy for improvement of research facilities provided by the Ministry of Education, Culture, Sports, Science and Technology in 2013.



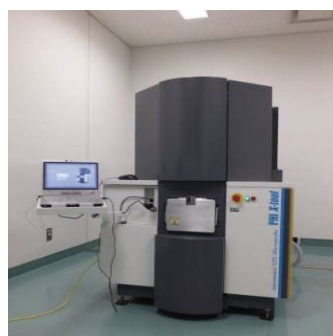
## **Microfocus X-ray CT SKYSCAN1275**

It can nondestructively examine the distribution density inside the substances by X-ray irradiation and take CT images.



## **Field emission-type scanning electron microscope S-4800 (Hitachi)**

High resolution can be observed at low accelerated voltages with high resolution FE-SEM. Super ExB to suppress charge-up or edge effect is mounted.



## **Scanning electron spectrometer PHI X-tool (ULVAC-PHI)**

Photo-electron spectra released from a surface at a depth of about 10 nm are measured and information on surface chemical analysis is obtained such as surface composition and chemical bonding status.