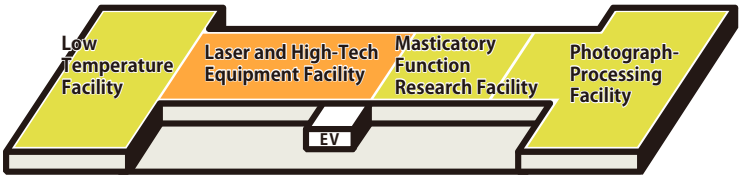
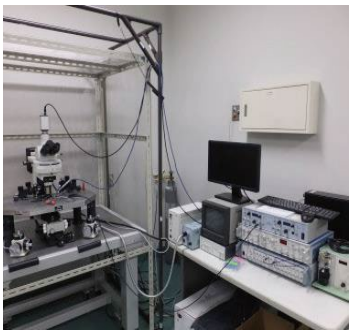
Laser and High-Tech Equipment Facility

Building 3
3rd Floor



Laser is one of the most important devices that humans invented in this century. A laser beam has three characteristics: good monochromaticity, good directivity, and high power. In quantum mechanics, light is a collection of particles (quantum) called photons, and the uniformity of the energy of a photon leads to directivity, and a laser beam containing a very large number of photons leads to high power. It is widely applied in the fields of dentistry and medicine such as: surface treatment of dental enamel, giving acid resistance, removal of dentin caries, reduction of occlusal pain, laser scalpel, treatment for retinal detachment, LASIK (ophthalmology), and removal of lentigines/melanin spots (dermatology).
This institution is currently used as an open laboratory for experimentation by faculty members, postgraduates, and undergraduates of School of Dentistry and Faculty of Health Sciences.



Microscopic electrophysiological system patch-clamp (Nikon)

A device for examining ion channels such as potential difference and conductivity by attaching a cell membrane of a specific cell to the tip of a fine glass electrode with a pore under a microscope.

Open laboratory