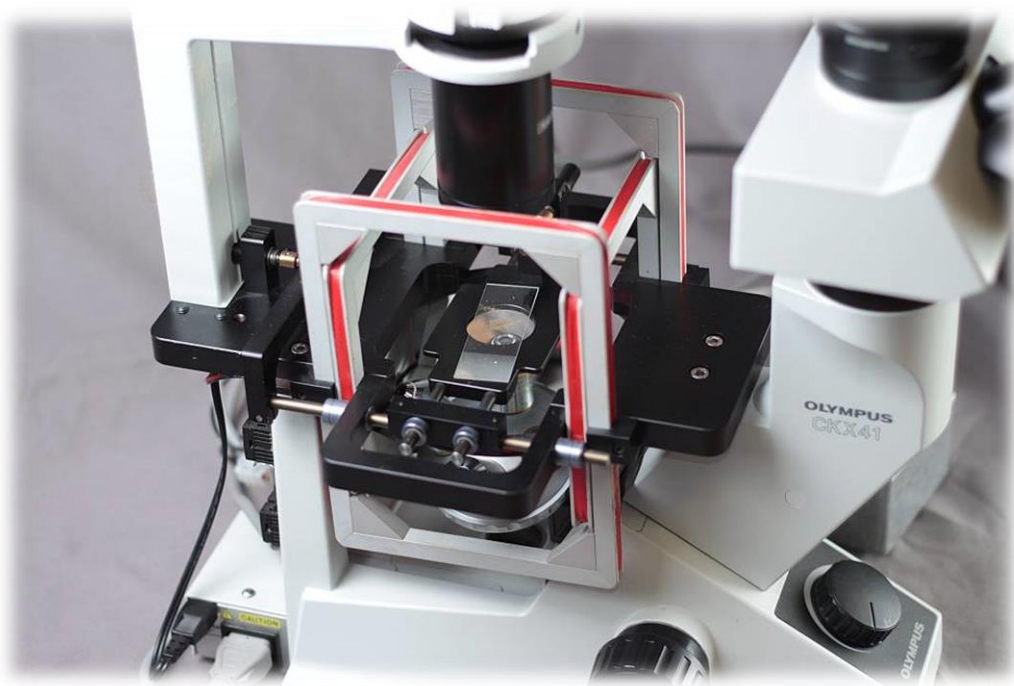
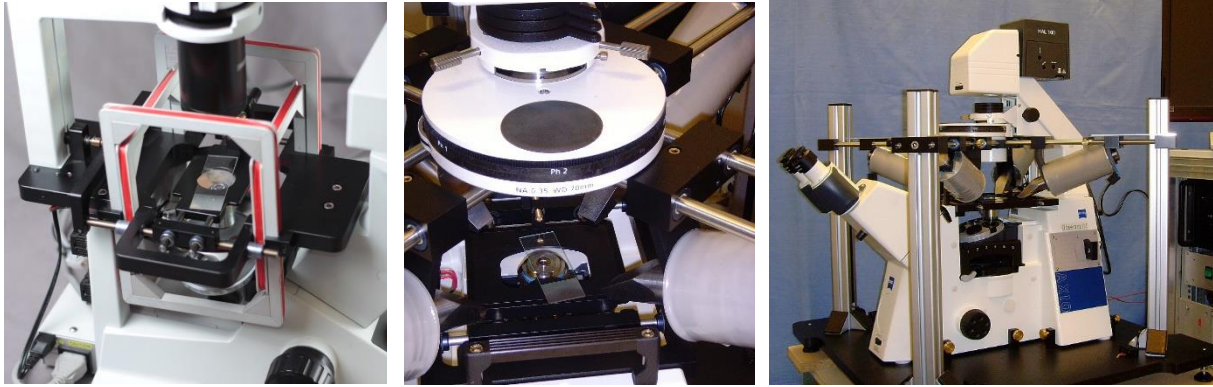

BACTERIODROME & MAGNETODROME



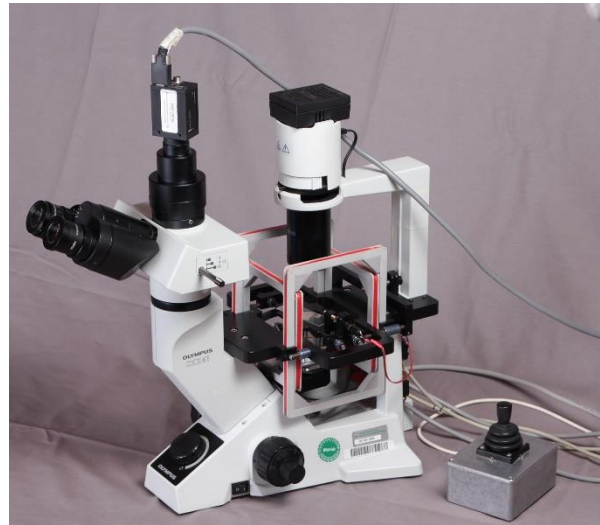
MAG

INSTRUMENTS



Magneto- and bacteriodrome are devices for microscopic observation of behaviour of magnetic compounds or organisms influenced by magnetic field. They originate from research on magnetotactic bacteria, but find their application in wide variety of fields, such as: medical research, biology or material science. The device is primarily composed of four components:

- a digital microscope or zoom lens used for observation of a studied sample
- a source of magnetic field which allows for precise control of intensity and direction of the magnetic field to which the sample is subjected
- a non-magnetic motorized stage which allows for smooth control of the sample's location
- a control electronics and an advanced computer software which controls the entire system and allows for microscope image recording and vision processing



Configurations

Table below shows available configurations of the system. We can also provide a customized solution that fits to your microscope.

Type	Bacteriodrom	Magnetodrom	
		Basic	Advanced
Optical system (magnification)	Inverted microscope Olympus CKX53 (20x, 100x, 400x)	Inverted microscope Olympus CKX53 (20x, 100x, 400x)	Zoom lens Keyense VH-Z100T (100-1000x)
Magnetic field source	Helmholtz coils (max: 1mT)	Electromagnets (max: 100mT)	Electromagnets (max: 100mT)
Non-magnetic stage type	Static or motorized	Motorized	
Digital camera		Customizable	