BioMolecular Imaging Poznań

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Laboratory of Electron and Confocal Microscopy



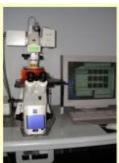
- 1. Examination of samples with:
 - √ transmission electron microscope
 - extended variable pressure scanning electron microscope
 - √ confocal laser scanning microscope
 - stereomicroscope (with fluorescence and 3D analysis)
- 2. Cutting of ultra-thin sections, cryosectioning
- 3. Critical point drying
- 4. Sputter coating
- 5. Negative staining







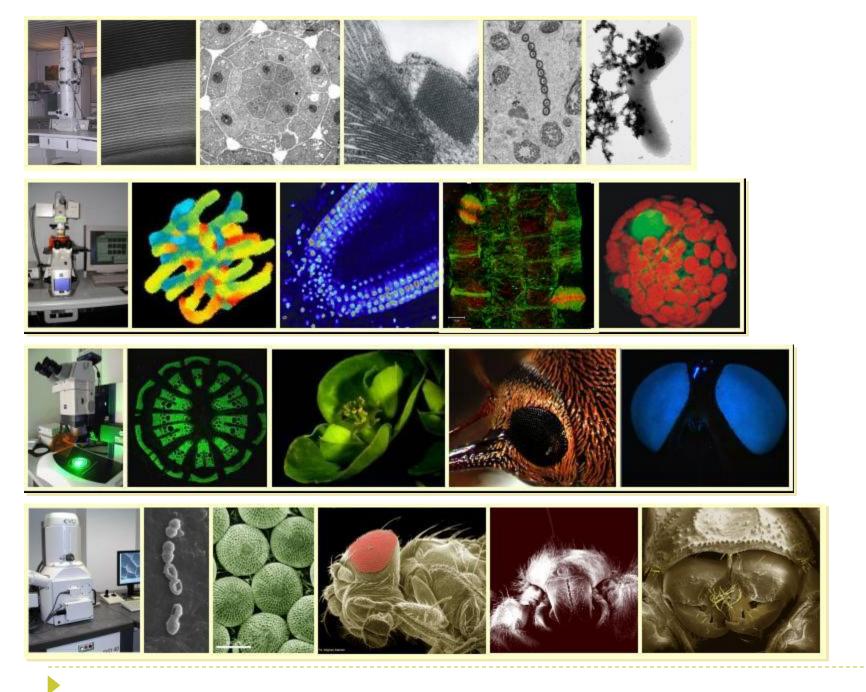












Microscopical Laboratory Institute of Molecular Biology and Biotechnology



Department of Molecular and Cellular Biology

Confocal system Nikon A1R-SI:

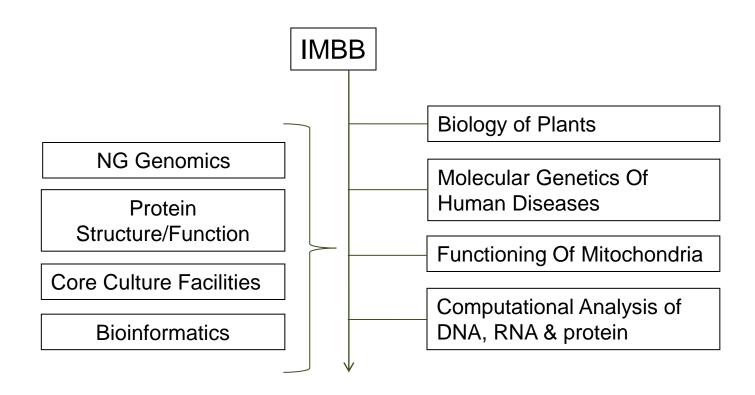
- √ 7 laser lines
- ✓ 2 scanning heads
- ✓ TIRF



Lifetime and FCS system from PicoQuant



IMBB future goal



Centre of Translational Genomics in Agriculture and Medicine

Present and future directions

Present:

- Utilization of imaging techniques for the digitalisation of natural collections - 3D scanning platform
 - Macroscope with confocal head

Future:

- Expansion of microscopic platform at the Faculty:
 - Confocal system with Raman spectroscopy
 - AFM + optical tweezers combined with confocal system
 - Cryoelectron tomography
 - Superresolution