

## Center for Advanced Bioimaging (CAB)

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### Abstract

The Center for Advanced Bioimaging (CAB) is embedded into the faculty of SCIENCE at Copenhagen University, where wide range of research areas within natural sciences uses its instrument park. CAB has a wide selection of wide-field, confocal and 2-photon microscopes including advanced techniques such as fluorescence life time (FLIM) and fluorescence localization microscopy.

CAB specializes in life imaging and one of the newest microscope at CAB is an Opera Phenix, a spinning disk microscope built for high content imaging. The microscope allows for prescan with low objectives analysis to find specific structures/cells and automated rescan with high magnification of the found structures of interest. In this way mitotic cells or spheroids can be located automatically. The system has a liquid handling module that allow for automated addition of compounds to wells/slides. This opens up for studying responses to compounds in a screens rather than on single samples.

