Live Cell Imaging

Live cell imaging microscopy is a high end tool to study short-term or long-term observation of physiological and morphological parameters in 2D/3D multi-labelled living tissue section, organs, organotypic-spheroid or in cell culture preparation. It is also used to evaluate and document cell culture from multi-well plates at different magnifications and resolutions, transfection rate and transfection stability using fluorescent markers. Pharmacological, chemical or drug screening is also done using this technique. Live cell imaging also helps to analyse and observe the stimulus-induced responses of cells, tissue or organism with disturbing the environmental control. In the STUTI training program, participants are demonstrated the live cell imaging as an advanced tool to study the neurodegeneration in brain tissues and cells using Zeiss Cell Discoverer 7 Microscope for live cell imaging.