Fully Automated Inverted Fluorescence Microscope

Description
Leica DMI6000B with CO_2 Incubator **(More details)**

Location
Rm510A, Biotech Centre 1

Features
- Supports bright field, phase contrast, DIC (Differential Interference Contrast) and polarization transmitted light method
- Five fluorescence filter cubes available, Red (TRITC, Cy3), Green (FITC, GFP), Blue (DAPI), YFP and CFP
- Ultra-sensitive megapixel back-illuminated EMCCD

Structured Illumination Microscopy **(More details)**
- Produces confocal-like images
- Reduces haze when imaging thick specimen
- A sharply defined 3D reconstruction of the object can be generated by recording several z planes

Stage Top Incubator **(More details)**
- Maintains constant high-humidity and CO_2 supply
- Provides optimal chamber environment for cell culture and enable long-term live cell imaging under microscope
- Applicable to standard well plate, 35mm dishes, and chamber slides
- Allows the control of desired chamber temperature

Water Objectives with Micro Dispenser
- Allows for aberration free focusing into samples in aqueous solution
- Especially suits for live-cell experiments at 37°C and long-term live cell experiments

Applications
- Fluorescence signal quantification
- 3D image measurements
- High content screening
- Long-term live cell imaging
- Stem cell imaging
- Fixed cell imaging

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