

## Zeiss LSM 800 Inverted Confocal Microscope

| Specification  |                                                                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Lasers         | Diode : 405nm (5mW); 488nm (10mW); 561nm (10mW); 640 nm (5mW)                                                                                 |
| Microscope     |                                                                                                                                               |
| Stand          | Inverted: Axio Observer                                                                                                                       |
| XY stage       | Motorized scanning stage, Piezo stage insert                                                                                                  |
| Filter cubes   | #49 DAPI; #20 Rhodamin; #10 AlexaFluor 488; #50 Cy5                                                                                           |
| Objectives     | 10x 0.45Ph1; 20x0.8Ph2; 40x1.4 oil DIC; 63x1.4 oil DIC                                                                                        |
| Accessories    | Definition Focus Unit                                                                                                                         |
| Scan Module    |                                                                                                                                               |
| Scan mode      | xy, xyz, xz, xt, xyt, lambda                                                                                                                  |
| Scanning speed | 8 frames/sec with $512 \times 512$ pixels                                                                                                     |
| Detector       | Airyscan (32-channel GaAsP PMTs) + 2 single PMTs ; 1 transmitted light channel ESID                                                           |
| Software       | Windows 7, ZEN 2.3 (BLUE Edition)                                                                                                             |
| Application    | DIC/Phase contrast imaging; Spot/line Scan; XY 2D imaging; multi-spectrum fluorescence imaging; Z-stack 3D imaging, colocalization;FRAP, FRET |