

## Nikon A1+ point scanning confocal microscope

- Best for fixed samples/sections which are well/brightly labelled
- Good resolution and best for optical sectioning
- Slower and more chance of photobleaching
- 4 laser system
  - 405 nm
  - 488 nm
  - 561 nm
  - 640 nm
- Filters
  - 450/50 e.g. DAPI
  - 525/50 e.g. FITC or AF488
  - 595/50 e.g. PE or AF594
  - 700/75 e.g. APC or AF647
- Objectives
  - 10x dry
  - 20x dry
  - 40x dry
  - 60x oil
  - 100x oil
  - 40x oil (not on instrument, contact staff for use)
  - 60x water (not on instrument, contact staff for use)
- Other details
  - NIS elements software
  - Automatic fluorophore setup
  - Epifluorescent microscopy and DIC
  - Spectral detector for overlapping fluorophores
  - Tokai Hit stage top incubator for live cell imaging
  - Measure and object tracking

