

# Confocal Microscopy

## Pinhole principle

Rejection of out-of-focus light

## Optical sectioning

Thin optical slices through sample

## Laser scanning

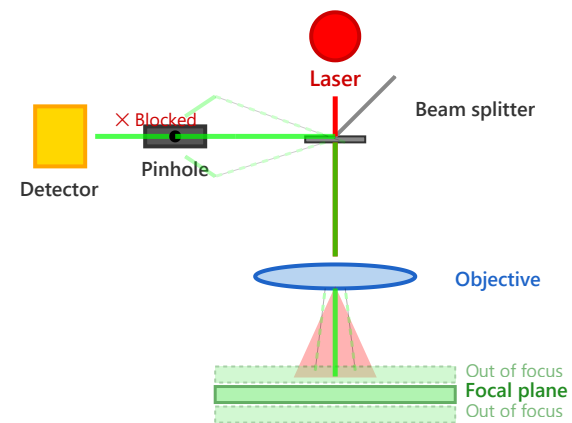
Point-by-point image acquisition

## Z-stack acquisition

Series of optical sections

## 3D rendering

Volumetric visualization from stacks



### Pinhole Principle

- ✓ In-focus light passes through pinhole
- ✗ Out-of-focus light blocked by pinhole
- High axial resolution (~500 nm)