

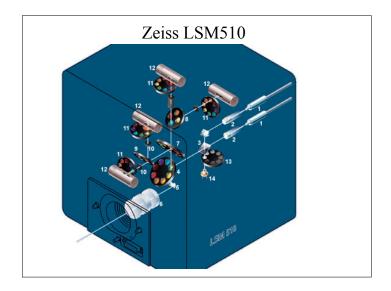
## Confocal Microscope

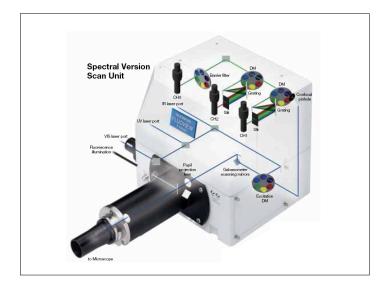
Invented in 50s

Not practical until availability of low cost lasers and high speed computers

First commercial devices available in the 80s

Uses pinhole to limit collected light to that which is "confocal" (i.e., shares conjugates planes of focus) with the object plane





## Marvin Minsky's Confocal Microscope

Reduced blurring of image by light scattering

Increased effective resolution

Improved signal-to-noise ratio

XY-scan possible across a wide area of the specimen

Inclusion of Z-scan possibility

Electronic adjustment of magnification

Possibility of quantitative measurements of optical properties of the specimen

