Table 1 Resolution presently achievable in optical imaging

Instrument	xy resolution	z resolution
Standard microscope	~0.5 μm	~1.6 µm
Confocal/two-photon microscope	~0.25 µm	~0.7 µm
Evanescent wave	~0.5 μm	~0.3 µm
Second-harmonic microscope	~0.25 μm	<0.01 nm
Near-field imaging	~0.05 µm	~0.01 µm