

MT200 FCS Measurement

fluorescence correlation spectroscopy (FCS) is a quantitative measurement of the resolution and sensitivity of confocal microscopes. In this tutorial we follow molecular brightness, the count rate per molecule per excitation power, as a well suited parameter for comparison of instrument performance and quality of adjustment. The higher the better: if the system is not optimally aligned, the excitation and/or the detection will be less efficient and the molecular brightness will drop.

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