Applications

Fluorescence Lifetime

Lifetime Fitting

Fluorescence Lifetime Imaging Microscopy (FLIM)

FLIM by Philippe Bastiaens

How to measure the Instrument Response function (IRF)

Lifetime fitting Using the FLIM analysis software

ROI fitting using FLIM analysis software

FLIM-FRET Calculation for Single Exponential Donors

FLIM FRET Calculation for Multi Exponential Donors

Visualizing Dynamics with the Multi Frame FLIM Analysis

Förster Resonance Energy Transfer (FRET)

Calculate ratiometric FRET-Images

Calculate ratiometric single pair FRET distributions

Calculate ratiometric single pair FRET distributions using Pulsed Interleaved Excitation (PIE)

FLIM-FRET calculation for single exponential donors

FLIM FRET calculation for multi exponential donors

Fluorescence Correlation Spectroscopy (FCS)

A short introduction to FCS with suggestions for further reading

Performing an FCS Measurement with an Olympus FV1200 upgrade kit

Calculate and fit FCS curves

Calibrate the confocal volume using the FCS calibration analysis

Dual Focus FCS (2fFCS)

Remove spectral crosstalk in dual color FCCS via FLCCS

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Separation of 2 species with different lifetimes using FLCS

Photon antibunching measurements

Burst Duration and FCS Diffusion Time

Single Molecule Detection (SMD)

Intensity Time Trace Analysis

Calculate ratiometric FRET-Images

Calculate ratiometric single pair FRET distributions

Burst Duration and FCS Diffusion Time

Anisotropy

Static anisotropy analysis for images

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