

Multiphoton microscopy in the biomedical sciences - 21-23 January 2001, San Jose, USA

SPIE - Multiphoton microscopy in the biomedical sciences (2001 edition)

Description: -

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Hazardous wastes -- Illinois -- Marion region.

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Combustion gases -- Environmental aspects -- Illinois -- Marion region.

region.

Imaging systems in medicine -- Congresses.

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Medical microscopy -- Congresses.

Fluorescence microscopy -- Congresses. Multiphoton microscopy in the biomedical sciences - 21-23 January 2001, San Jose, USA

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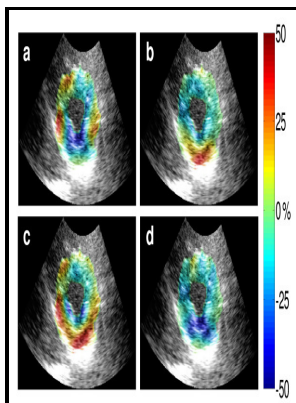
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Prostate cancer is one of the leading cancers in men in the USA. The double-label donor+acceptor specimen is excited with the donor wavelength, the acceptor emission provided the uncorrected FRET signal and the donor emission the donor channel represents the quenched donor qD, the basis for the E calculation.

Use of multi

FLIM is an extremely important advance, as it allows for the first time, the sensitivity of the fluorescence lifetime to environmental parameters to be monitored in a spatial manner in single living cells. I am the founder and center director of the W.

Citation

Previous studies have proposed that Rab11 controls the recycling of AT1R; however, recent reports show that Rab4, a rapid recycling regulator, co-localizes also with internalized AT1R. This refinement improves E comparisons made with lifetime and spectral FRET imaging microscopy as shown here using several genetic FRET standard constructs, where cerulean and venus fluorescent proteins are tethered by different amino acid linkers. A fusion protein containing GFP separated from BFP by 29 amino acids served as a positive control for FRET.

Use of multi

We statistically evaluated the percentage of bleed-through signal from one channel to the other based on the overlap areas of the spectra. However, the spectral cross-talk between FRET donor and acceptor channels has been a major limitation to FRET microscopy. Further

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The one-photon absorption of Trp is 260 nm which is phototoxic to the cells.

Tags: #Multiphoton #microscopy #in #the #biomedical #sciences #VII #: #21

characterization of eNOSGSNOR interaction and the subcellular location of this interaction will provide mechanistic insight into the importance of S-nitrosothiol signaling in pulmonary biology, physiology and pathology.

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