

Title (en)
FLUORESCENCE ASSAY FOR BIOLOGICAL SYSTEMS

Title (de)
FLUORESZENZ-ASSAY FÜR BIOLOGISCHE SYSTEME

Title (fr)
MESURES DE FLUORESCENCE POUR SYSTEMES BIOLOGIQUES

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Abstract (en)
[origin: WO0008444A1] A method for the measurement of a degree of fluorescence resonance energy transfer taking place between a donor and acceptor system by the steps of: irradiating a combined donor-acceptor system with a beam of intensity modulated excitation energy of a first wavelength; receiving fluorescence emissions from the donor and acceptor molecules having overlapping spectra; simultaneously determining a modulation lifetime (τ_{mod}) and a phase lifetime (τ_{phi}) of the combined emitted fluorescence of the donor-acceptor system; and determining a degree of acceptor ingrowth by comparison of τ_{mod} and τ_{phi} . The method is particularly suited to measurements of a degree of FRET in a biological system.

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