



## Fluorescence Spectroscopy of Excitation Energy Transfer Processes in Acaryochloris Marina

By Schmitt

Grin Verlag. Paperback. Book Condition: New. Paperback. 64 pages. Dimensions: 8.3in. x 5.8in. x 0.1in. Wissenschaftlicher Aufsatz aus dem Jahr 2007 im Fachbereich Medizin - Biomedizinische Technik, Technische Universitt Berlin, Sprache: Deutsch, Abstract: Time- and wavelength-resolved fluorescence spectroscopy is an appropriate tool for quantitative and non-invasive investigations of living cells. Short measurement times with low excitation light intensities are necessary to observe variations of the fluorescence due to changes in the metabolism of the sensitive biological organisms. With new techniques the fluorescence dynamics can be monitored simultaneously in a broad spectrum during a very short measurement time. That provides information about the spectral differences of the fluorescence dynamics which can vary in correlation with the metabolic changes. The interaction of the photosynthetic subunits and especially the mechanisms regulating the energy transfer are presently interesting and open fields in photosynthesis research. The phototrophic cyanobacterium Acaryochloris marina contains membrane extrinsic PBP antenna complexes and mainly Chl d containing membrane intrinsic core antenna complexes which absorb light and transfer excitation energy to the reaction center. The results of our studies suggest a fast excitation energy transfer kinetics of 20-30 ps along the PBP antenna of A. marina followed by a transfer with a time...



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