# Fluorescence Spectrocopy of Excitation Energy Transfer Processes in Acaryochloris Marina



Filesize: 1.04 MB

#### Reviews

Comprehensive guide! Its this type of very good read through. It is actually writter in simple words and phrases rather than difficult to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Bernie Mante PhD)

## FLUORESCENCE SPECTROCOPY OF EXCITATION ENERGY TRANSFER PROCESSES IN ACARYOCHLORIS MARINA



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 constant of about 60 ps to Chl d. Very often cells or cell fragments are kept at low temperature to decelerate ageing processes. Living cells of A. marina which were stored at 0C for some time showed a reduced excitation energy transfer from the PBP to the Chl d antenna, which partially recovered when the sample had been kept at 25 C for a short time. The reduction of the excitation center of PS II. This item...



Read Fluorescence Spectrocopy of Excitation Energy Transfer Processes in Acaryochloris Marina Online Download PDF Fluorescence Spectrocopy of Excitation Energy Transfer Processes in Acaryochloris Marina

### You May Also Like



#### Estrellas Peregrinas Cuentos de Magia y Poder Spanish Edition

Pinata Books. Paperback. Book Condition: New. Paperback. 178 pages. Dimensions: 8.3in. x 5.4in. x 0.6in.First ever Spanish-language edition of the critically acclaimed collection of short stories for young adults by a master of Latino literature...

Download ePub

**>>** 



#### The Mystery at Draculas Castle: Transylvania, Romania

Around the World in 80 Mysteries. Paperback. Book Condition: New. Paperback. 133 pages. Dimensions: 7.3in. x 5.1in. x 0.9in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery...

Download ePub

**>>** 



#### The Mystery at Mount Vernon Real Kids, Real Places

Gallopade International. Paperback. Book Condition: New. Paperback. 160 pages. Dimensions: 7.3in. x 5.2in. x 0.5in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an...

Download ePub

**>>** 



#### DK Readers Animal Hospital Level 2 Beginning to Read Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.9in. x 5.8in. x 0.1in.This Level 2 book is appropriate for children who are beginning to read alone. When Jack and Luke take an injured...

Download ePub

\*



#### Memoirs of Robert Cary, Earl of Monmouth

BiblioLife. Paperback. Book Condition: New. This item is printed on demand. Paperback. 142 pages. Dimensions: 8.0in. x 5.0in. x 0.3in.The Author of the Memoirs. The Memoirs here presented to the reader may be said to...

Download ePub

»