

Volume Editor G. B. Schuster

# Long-Range Charge Transfer in DNA II



Springer

# Longrange Charge transfer In Dna li

**Oded Shoseyov, Ilan Levy**



## **Longrange Chargetransfer In Dna Ii:**

Long-Range Charge Transfer in DNA II Gary B. Schuster, 2004-04-08 with contributions by numerous experts *Charge and Exciton Transport through Molecular Wires* Laurens D. A. Siebbeles, Ferdinand C. Grozema, 2011-07-18 As functional elements in opto electronic devices approach the single molecule limit conducting organic molecular wires are the appropriate interconnects that enable transport of charges and charge like particles such as excitons within the device Reproducible syntheses and a thorough understanding of the underlying principles are therefore indispensable for applications like even smaller transistors molecular machines and light harvesting materials Bringing together experiment and theory to enable applications in real life devices this handbook and ready reference provides essential information on how to control and direct charge transport Readers can therefore obtain a balanced view of charge and exciton transport covering characterization techniques such as spectroscopy and current measurements together with quantitative models Researchers are thus able to improve the performance of newly developed devices while an additional overview of synthesis methods highlights ways of producing different organic wires Written with the following market in mind chemists molecular physicists materials scientists and electrical engineers **Long-Range Charge Transfer in DNA I** Gary B.

Schuster, 2004-03-24 CRC Handbook of Organic Photochemistry and Photobiology, Third Edition - Two Volume Set Axel Griesbeck, Michael Oelgemöller, Francesco Ghetti, 2019-04-05 The only combined organic photochemistry and photobiology handbook As spectroscopic synthetic and biological tools become more and more sophisticated photochemistry and photobiology are merging making interdisciplinary research essential Following in the footsteps of its bestselling predecessors the CRC Handbook of Organic Photochemistry and Pho *Bioinorganic Electrochemistry* Ole Hammerich, J. Ulstrup, 2008 Interfacial electrochemistry of redox metalloproteins and DNA based molecules is presently moving towards new levels of structural and functional resolution This is the result of powerful interdisciplinary efforts Underlying fundamentals of biological electron and proton transfer is increasingly well understood although with outstanding unresolved issues Comprehensive bioelectrochemical studies have mapped the working environments for bioelectrochemical electron transfer supported by the availability of mutant proteins and other powerful biotechnology Introduction of surface spectroscopy the scanning probe microscopies and other solid state and surface physics methodology has finally offered exciting new fundamental and technological openings in interfacial bioelectrochemistry of both redox proteins and DNA based molecules Inorganic Bioelectrochemistry provides a thorough and didactic overview of state of the art bioelectrochemistry with prospects for forthcoming development The book is organized in eight chapters written by leading international experts and covers crucial relevant topics such as electron and proton transfer in metalloprotein systems electrochemistry and electrocatalysis of redox enzymes and electrochemistry of DNA based molecules A wide variety of readers will find this volume of great interest These include final year undergraduate and postgraduate students university

lecturers in inorganic and physical chemistry as well as the biochemical and biological sciences and research staff in medical and biotechnological companies catalysis research and other industries

**Electroanalytical Methods Of Biological Materials** Anna Brajter-toth, James Chambers, 2002-03-21 This text details contemporary electroanalytical strategies of biomolecules and electrical phenomena in biological systems It presents developments in sequence specific DNA detection for more efficient medical diagnosis of genetic and infectious diseases and microbial and viral pathogens

NanoBioTechnology Oded Shoseyov, Ilan Levy, 2008-02-07 NanoBiotechnology is a groundbreaking text investigating the recent advances and future direction of nanobiotechnology It will assist scientists and students in learning the fundamentals and cutting edge nature of this new and emerging science Focusing on materials and building blocks for nanotechnology leading scientists from around the world share their knowledge and expertise in this authoritative volume

Modern Methods for Theoretical Physical Chemistry of Biopolymers Evgeni Starikov, James P. Lewis, Shigenori Tanaka, 2011-08-11 Modern Methods for Theoretical Physical Chemistry of Biopolymers provides an interesting selection of contributions from an international team of researchers in theoretical chemistry This book is extremely useful for tackling the complicated scientific problems connected with biopolymers physics and chemistry The applications of both the classical molecular mechanical and molecular dynamical methods and the quantum chemical methods needed for bridging the gap to structural and dynamical properties dependent on electron dynamics are explained Also included are ways to deal with complex problems when all three approaches need to be considered at the same time The book gives a rich spectrum of applications from theoretical considerations of how ATP is produced and used as energy currency in the living cell to the effects of subtle solvent influence on properties of biopolymers and how structural changes in DNA during single molecule manipulation may be interpreted Presents modern successes and trends in theoretical physical chemistry chemical physics of biopolymers Topics covered are of relevant importance to rapidly developing areas in science such as nanotechnology and molecular medicine Quality selection of contributions from renowned scientists in the field

**Biomimetic Radical Chemistry and Applications** Chrissyostomos Chatgililoglu, 2020-03-25 The enormous importance of free radical chemistry for a variety of biological events including ageing and inflammation has attracted a strong interest in understanding the related mechanistic steps at the molecular level Modelling the free radical chemical reactivity of biological systems is an important research area When studying free radical based chemical mechanisms biomimetic chemistry and the design of established biomimetic models come into play to perform experiments in a controlled environment that is suitably designed to be in strict connection with cellular conditions This Special Issue gives the reader a wide overview of biomimetic radical chemistry where molecular mechanisms have been defined and molecular libraries of products are developed to also be used as traces for the discovery of some relevant biological processes Several subjects are presented with 12 articles and 6 reviews written by specialists in the fields of DNA proteins lipids biotechnological applications and bioinspired synthesis having free radicals as a common

denominator     *Electronic and Magnetic Properties of Chiral Molecules and Supramolecular Architectures* Ron Naaman, David N Beratan, David Waldeck, 2011-02-15 Time dependent density functional response theory for electronic chiroptical properties of chiral molecules by Jochen Autschbach Lucia Nitsch Velasquez and Mark Rudolph Chiroptical Properties of Charge Transfer Compounds by Yoshihisa Inoue Tadashi Mori G C content independent long range charge transfer through DNA by Tetsuro Majima Induced chirality in porphyrin aggregates the role of weak and strong interactions by Roberto Purrello Vibrational circular dichroism spectroscopy of chiral molecules in solution by Yunjie Xu Magneto electric properties of self assembled monolayers of chiral molecules by Zeev Vager and Ron Naaman Theory of adsorption induced chirality and electron transfer through chiral systems by Spiros Skourtis and David Beratan Chiral selective surface chemistry induced by spin polarized secondary electrons by Richard Rosenberg

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