

Biophotonics And Coherent Systems In Biology

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Biophotonics and Coherent Systems in Biology: Belousov, L ...

More specifically, he stated that biological systems are highly nonlinear; far away from thermal equilibrium, and must be treated as thermodynamically open systems that constantly carry out work to maintain this non-equilibrium; and macroscopic quantum systems that are able to produce coherent oscillations 17, 32. These coherent oscillations have been observed to generate an electromagnetic field that could enable long-range interactions between cells.

This book is an account of the original papers presented by the participants of the 3rd Alexander Gurwitsch Conference on the Biophotonics and Coherent Systems in Biology, Biophysics and Biotechnology which took place in Tauric University (Crimea, Ukraine) September 27 - October 1, 2004. It features an introduction by Dr. Fritz-Albert Popp (International Institute for Biophysics), leading pioneer of biophotons.

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It is now well established that all living systems emit a weak but permanent photon flux in the visible and ultraviolet range. This biophoton emission is correlated with many, if not all, biological and physiological functions. There are indications of a hitherto-overlooked information channel within the living system. Biophotons may trigger chemical reactivity in cells, growth control, differentiation and intercellular communication, i.e. biological rhythms. The basic experimental and theoretical framework as well as the technical problems and the wide field of applications in the biotechnical, biomedical engineering, engineering, medicine, pharmacology, environmental science and basic science fields are presented in this book. To promote the dialog and mutual penetration between biophoton research and photon technology is one of the important goals for the International Conference on Biophotons & Biophotonics 2003, and is developed and presented in Biophotonics: Optical Science and Engineering in the 21st Century.

'This book is an important contribution, and I hope it will open many minds. What is particularly important in it are the discussions of David Bohm, of bioplasma, biophotons, and bioelectronics.' - PROFESSOR ZBIGNIEW WOLKOWSKI, Sorbonne University, Paris

The story of the science of plasma and its revolutionary implications for the way we understand the universe and our place in it. Histories of science in the 20th century have focused on relativity and quantum mechanics. But, quietly in the background, there has been a third area of exploration which has equally important implications for our understanding of the universe. It is unknown to the general public despite the fact that many Nobel prize winners, senior academics and major research centres around the world have been devoted to it - it is the study of plasma. Plasma is the fourth state of matter and the other three - gas, liquid and solids - emerge out of plasma. This book will reveal how over 99% of the universe is made of plasma and how there are two gigantic clouds of plasma, called the Kordylewski

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Clouds, hovering between the Earth and the Moon, only recently discovered by astronomers in Hungary. Other revelations not previously known outside narrow academic disciplines include the evidence that in certain circumstances plasma exhibits features that suggest they may be in some sense alive: clouds of plasma have evolved double helixes, banks of cells and crystals, filaments and junctions which could control the flow of electric currents, thus generating an intelligence similar to machine intelligence. We may, in fact, have been looking for signs of extra-terrestrial life in the wrong place. Bestselling author Robert Temple has been following the study of plasma for decades and was personally acquainted with several of the senior scientists - including Nobel laureates - at its forefront, including Paul Dirac, David Bohm, Peter Mitchell and Chandra Wickramasinghe (who has co-written an academic paper with Temple).

AIDS and cancer are neither random nor infectious diseases. Both are characterized by a proton deficit and a reversal of the chimeric/energetic cooperative trend of the eukaryotic nucleus with the mitochondrial endosymbiont. This pattern is not random. It is consistent with the evolutionary heritage of the eukaryotic cell, which developed the foundational glycolytic pathways during the eon of the earth's anaerobic-reducing atmosphere. It should no longer be a mystery that these primitive metabolic patterns dominate when biostressors cause deterioration in the quantum and electromagnetic wave forms that allow coherency. The Slow Death of the AIDS/Cancer Paradigm confronts these issues full on.

Most of the specialists working in this interdisciplinary field of physics, biology, biophysics and medicine are associated with "The International Institute of Biophysics" (IIB), in Neuss, Germany, where basic research and possibilities for applications are coordinated. The growth in this field is indicated by the increase in financial support, interest from the scientific community and frequency of publications. Audience: The scientists of IIB have presented the most essential background and applications of biophotonics in these lecture notes in biophysics, based on the summer school lectures by this group. This book is devoted to questions of elementary biophysics, as well as current developments and applications. It will be of interest to graduate and postgraduate students, life scientists, and the responsible officials of industries and governments looking for non-invasive methods of investigating biological tissues.

Paras Prasad's text provides a basic knowledge of a broad range of topics so that individuals in all disciplines can rapidly acquire the minimal necessary background for research and development in biophotonics. Introduction to Biophotonics serves as both a textbook for education and training as well as a reference book that aids research and development of those areas integrating light, photonics, and biological systems. Each chapter contains a topic introduction, a review of key data, and description of future directions for technical

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innovation. Introduction to Biophotonics covers the basic principles of Optics Optical spectroscopy Microscopy Each section also includes illustrated examples and review questions to test and advance the reader's knowledge. Sections on biosensors and chemosensors, important tools for combating biological and chemical terrorism, will be of particular interest to professionals in toxicology and other environmental disciplines. Introduction to Biophotonics proves a valuable reference for graduate students and researchers in engineering, chemistry, and the life sciences.

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