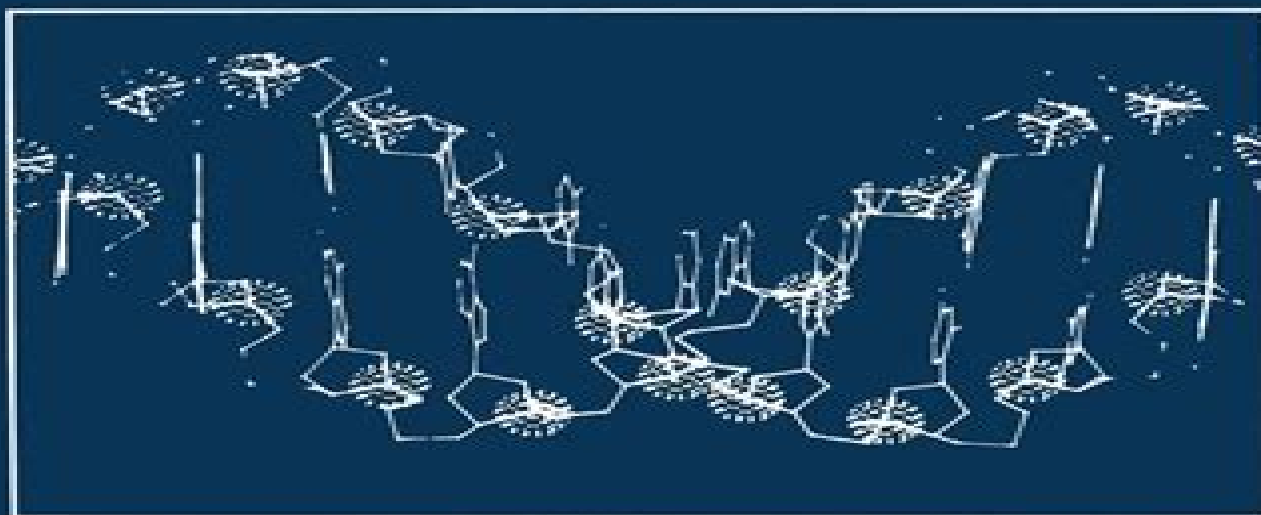


BASIC LIFE SCIENCES • VOLUME 58

Physical and Chemical Mechanisms in Molecular Radiation Biology



Edited by William A. Glass
and Matesh N. Varma

Physical And Chemical Mechanisms In Molecular Radiation Biology

**National Institutes of Health (U.S.).
Division of Research Grants**



Physical And Chemical Mechanisms In Molecular Radiation Biology:

Physical and Chemical Mechanisms in Molecular Radiation Biology William A. Glass, Matesh N. Varma, 2012-12-06
The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization of the nuclear energy option. In addition, this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program. To achieve the above stated objective, the U.S. Department of Energy (DOE) and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago. A critical component of this program is the Radiological and Chemical Physics Program (RCP). When the RCP was established, there was very little basic knowledge in the fields of physics, chemistry, and biology that could be directly applied to understanding the effects of radiation on biological systems. Progress of the RCP program in its first 15 years was documented in the proceedings of a conference held at Airlie, Virginia, in 1972. At this conference, it was clear that considerable progress had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects. During this period of time, most physical knowledge was obtained for the gas phase because the technology and instrumentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials.

Computational Approaches in Molecular Radiation Biology Matesh N. Varma, Aloke Chatterjee, 2013-11-11
The Office of Health and Environmental Research (OHER) has supported and continues to support development of computational approaches in biology and medicine. OHER's Radiological and Chemical Physics Program initiated development of computational approaches to determine the effects produced by radiation of different quality such as high energy electrons, protons, helium, and other heavy ions, etc. in a variety of materials of biological interest such as water, polymers, and DNA. These include molecular excitations and sub-excitations and the production of ionization and their spatial and temporal distribution. In the past several years, significant advances have been made in computational methods for this purpose. In particular, codes based on Monte Carlo techniques have been developed that provide a realistic description of track structure produced by charged particles. In addition, the codes have become sufficiently sophisticated so that it is now possible to calculate the spatial and temporal distribution of energy deposition patterns in small volumes of subnanometer and nanometer dimensions. These dimensions or resolution levels are relevant for our understanding of mechanisms at the molecular level by which radiations affect biological systems. Since the Monte Carlo track structure codes for use in radiation chemistry and radiation biology are still in the developmental stage, a number of investigators have been exploring different strategies for improving these codes. Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2007-02-05
This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic, molecular, and optical (AMO) physics, assembling the principal ideas, techniques, and results of the field. Its 90 chapters, written by about 120 authors, all

leaders in their respective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

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Handbook of Computational Chemistry Jerzy Leszczynski,2012-01-13 The role the Handbook of Computational Chemistry is threefold It is primarily intended to be used as a guide that navigates the user through the plethora of computational methods currently in use it explains their limitations and advantages and it provides various examples of their important and varied applications This reference work is presented in three volumes Volume I introduces the different methods used in computational chemistry Basic assumptions common to the majority of computational methods based on molecular quantum or statistical mechanics are outlined and special attention is paid to the limits of their applicability Volume II portrays the applications of computational methods to model systems and discusses in detail molecular structures the modelling of various properties of molecules and chemical reactions Both ground and excited states properties are covered in the gas phase as well as in solution This volume also describes Nanomaterials and covers topics such as clusters periodic and nano systems Special emphasis is placed on the environmental effects of nanostructures Volume III is devoted to

Hatano,2003-11-14 Charged Particle and Photon Interactions with Matter offers in depth perspectives on phenomena of ionization and excitation induced by charged particle and photon interactions with matter in vivo and in vitro This reference probes concepts not only in radiation and photochemistry but also in radiation physics radiation biochemistry and radiatio

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