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this nato advanced study institute co sponsored by febs and intas under the title chemical probes in biology was designed to summarize and

disseminate recent expert knowledge regarding a deeper understanding of biological phenomena on a molecular level such scientific activities frequently termed bio organic chemistry or chemical biology are constituting a highly interdisciplinary branch of chemistry beyond the traditional ways in which chemists and biologists have been working in the past thus on this occasion we were bringing together senior experts from the disciplines of chemistry and biology in order to amalgamate their diverse yet basically common interests in this area ultimate goal was next to an exchange of information between the two scientific cultures the communication of exciting possibilities in interdisciplinary research to the young scientists present the meeting was held in the anargyros and korgialenos school on the island of spetses greece from 18 30 august 2002 the asi was attended by a total of 91 scholars from 23 different countries a group of 27 speakers presented a series of 34 highly stimulating informative and educational lectures covering a broad range of topics relevant to the general theme of this meeting science at the interface of chemistry biology and medicine the lectures were complemented by a total of 89 posters presented by the young scholars and a series of short lectures derived thereof this was clearly one of the highlights of the meeting creating a lively atmosphere of interaction and intellectual creativity typical phenomena for the whole meeting

discover the science of biocomputing with this comprehensive and forward looking new resource dna and rna based computing systems delivers an authoritative overview of dna and rna based biocomputing systems that touches on cutting edge advancements in computer science biotechnology nanotechnology and materials science accomplished researcher academic and author evgeny katz offers readers an examination of the intersection of computational chemical materials and engineering aspects of biomolecular information processing a perfect companion to the recently published enzyme based computing by the same editor the book is an authoritative reference for those who hope to better understand dna and rna based logic gates multi component logic networks combinatorial calculators and related computational systems that have recently been developed for use in biocomputing devices dna and rna based computing systems summarizes the latest research efforts in this rapidly evolving field and points to possible future research foci along with an examination of potential applications in biosensing and bioactuation particularly in the field of biomedicine the book also includes topics like a thorough introduction to the fields of dna and rna computing including dna enzyme circuits a description of dna logic gates switches and circuits and how to program them an

introduction to photonic logic using dna and rna the development and applications of dna computing for use in databases and robotics perfect for biochemists biotechnologists materials scientists and bioengineers dna and rna based computing systems also belongs on the bookshelves of computer technologists and electrical engineers who seek to improve their understanding of biomolecular information processing senior undergraduate students and graduate students in biochemistry materials science and computer science will also benefit from this book

since the establishment of the dna structure researchers have been highly interested in the molecular basis of the inheritance of genes and of genetic disorders scientific investigations of the last two decades have shown that in addition to oncogenic viruses and signalling pathways alterations genomic instability is important in the development of cancer this view is supported by the findings that aneuploidy which results from chromosome instability is one of the hallmarks of cancer cells chromosomal instability also underpins our fundamental principles of understanding tumourigenesis it is thought that cancer arises from the sequential acquisition of genetic alterations in specific genes in this hypothesis these rare genetic events represent rate limiting bottlenecks in the clonal evolution of a cancer and pre cancerous cells can evolve into neoplastic cells through the acquisition of somatic mutations this book is written by international leading scientists in the field of genome stability chapters are devoted to genome stability and anti cancer drug targets histone modifications chromatin factors dna repair apoptosis and many other key areas of research the chapters give insights into the newest development of the genome stability and human diseases and bring the current understanding of the mechanisms leading to chromosome instability and their potential for clinical impact to the reader

organophosphorus chemistry provides a comprehensive annual review of the literature coverage includes phosphines and their chalcogenides phosphonium salts low coordination number phosphorus compounds penta and hexa coordinated compounds tervalent phosphorus acids nucleotides and nucleic acids ylides and related compounds and phosphazenes the series will be of value to research workers in universities government and industrial research organisations whose work involves the use of organophosphorus compounds it provides a concise but comprehensive survey of a vast field of study with a wide variety of applications enabling the reader to rapidly keep abreast of the latest developments in their specialist areas

a concise but comprehensive annual survey of a vast field of study enabling the reader to rapidly keep abreast of the latest developments in this specialist area

includes sections activities of the research council on problems of alcohol and current literature

the contents alternate monthly original articles in odd numbered months current literature in even numbered months

in nucleic acid chemistry methods and protocols expert researches in the field detail techniques and approaches for the detection of dna and rna these techniques include the recovery of trace amounts of dna for amplification and analysis new qpcr chemistries new application of isothermal amplification techniques assays with visual or electric signals for point of care diagnostics improvement of fluorescent in situ hybridization and new signal amplification techniques written in the highly successful methods in molecular biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls authoritative and practical nucleic acid chemistry methods and protocols seeks to aid scientists in the further study of detection for dna and rna

this volume is the first to combine in one book both nanodevice assembly from biomaterials as well as nanodevices of non biological materials for use in the life sciences showing how both kinds can be used in the context of nanoscale research as such it covers the important material classes for device assembly fullerenes carbon nanotubes kinesine microtubules as well as a wide range of applications including sensory systems analytics bioelectronics drug delivery and bionems the result is a systematic coverage of all stages of research and development physics and fundamentals modeling device fabrication strategies material aspects and applications

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