

Nikon Eclipse Ts100 User Manual

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Ecology and Conservation of Tropical Marine Faunal Communities Springer Science & Business Media
Mucoadhesive polymers are widely used in the design of dosage forms for transmucosal drug delivery to the eye, respiratory, gastrointestinal and reproductive tracts. These routes of drug administration offer a number of advantages including improved drug bioavailability, reduced frequency of administration, and the avoidance for the use of injections. This book represents a collection of reviews and original research articles in the area of mucoadhesive polymers and dosage forms. It covers the design of mucoadhesive forms from commercially-available water-soluble polymers, their mixture and complexes as well as some materials, whose mucoadhesive properties were enhanced through chemical modification. With contributions from leading experts in mucoadhesive polymers and formulations, this book will be a very useful source of information for researchers in polymer, pharmaceutical and formulation sciences.
Glioblastoma: State of the Art and Future Perspectives Frontiers Media SA

Some arrangements and structures of permanent magnets are hypothesized to exert measurable physiological and pathological effects on living tissues when exposed to the resultant electromagnetic field. From Microbe to Man: Biological responses to artificial static magnetic field-exposure explores the effects of such arrangements based on this hypothesis. The book begins with an explanation of the mechanisms of artificial static magnetic fields (SMFs). This is followed by sequential sections presenting the effects of SMF exposure on living organisms backed by thorough experimental studies (on microbial, animal and human trials). In conclusion, the work reveals the positive nature of SMF treatment and shows that this is indeed a viable alternative to invasive treatment in the case of a number of both acute and chronic conditions, such as stomatological pain and osteoporosis. From Microbe to Man: Biological responses to artificial static magnetic field-exposure is aimed chiefly at medical professionals and the research community studying alternatives to conventional pain medicine and physiotherapy. However, laypeople interested in non-invasive medical treatment options can also benefit from the easy-to-read layout of the contents of this volume.

Cytotoxicity Frontiers Media SA
Cancer remains one of the main causes of morbidity and mortality worldwide. Although many pharmacological and clinical advances have been made, there is a constant need for new molecules to improve the overall options for treatment. Natural compounds from animal, microbial, vegetal, or fungal origin represent countless sources of new compounds that can be used as anticancer drugs, provided their activity, bioavailability, and toxicity are adequate. This book aims to compile both original articles and reviews that cover the most recent advances in the use of natural compounds for cancer treatment, and provide new objectives and advice for future research in the field of biological activity of natural compounds.

Journal of the National Cancer Institute Springer Science & Business Media
This book is a printed edition of the Special Issue "Advance of Polymers Applied to Biomedical Applications: Cell Scaffolds" that was published in Polymers
Ionizing Radiation and Human Health: A Multifaceted Relationship Handbook of Data Science Approaches for Biomedical Engineering
Glioblastoma is an aggressive incurable primary tumor of the central nervous system. Median overall survival is in the range of 1.5 years even in selected clinical trials populations. Many features contribute to this therapeutic challenge including high intratumoral and intertumoral heterogeneity, resistance to therapy, migration and invasion, immunosuppression. With the access of novel highthroughput technologies, significant progress has been made to understand molecular and immunological signatures underlying the pathology of glioblastoma. Clinical trial designs have shifted from investigating broad “ one-for-all ” treatment approaches to precision oncology designs. The collection of contributions in this book aim at providing researchers and clinicians an update on different aspects of glioblastoma, i.e. progress in basic, preclinical and clinical research.

Ribosome Inactivating Toxins MDPI
This book provides insights into various aspects of marine faunal communities in India, which are extremely diverse due to the geomorphologic and climatic variations along the Indian coasts. Consisting of 30 chapters by experts in their respective fields, it is divided into two parts: · Part I: Tropical Marine Faunal Communities · Part II: Ecology and Conservation Part I highlights the diversity and distribution of Foraminifera; sponges associated with seagrass; Polychaeta; Opisthobranchia; oysters; copepods; horseshoe and brachyuran crabs; echinoderms; ascidians; fishes; fish parasites; and sea mammals. Topics of Part II include the status and environmental parameters of benthos; the status of coral reefs; the invasion of snowflake coral; the recovery of bleached corals; the socioeconomics and management of dugong; marine biodiversity conservation and management in India; the assessment of the marine fauna of the Indian Wildlife Protection Act; and marine biodiversity protected areas in India. This book will serve as a valuable reference work for marine scientists, as well as for environmental managers and policy makers.

5th International Conference on Biomedical Engineering in Vietnam MDPI
Handbook of Data Science Approaches for Biomedical Engineering covers the research issues and concepts of biomedical engineering progress and the ways they are aligning with the latest technologies in IoT and big data. In addition, the book includes various real-time/offline medical applications that directly or indirectly rely on medical and information technology. Case studies in the field of medical science, i.e., biomedical engineering, computer science, information security, and interdisciplinary tools, along with modern tools and the

technologies used are also included to enhance understanding. Today, the role of Big Data and IoT proves that ninety percent of data currently available has been generated in the last couple of years, with rapid increases happening every day. The reason for this growth is increasing in communication through electronic devices, sensors, web logs, global positioning system (GPS) data, mobile data, IoT, etc. Provides in-depth information about Biomedical Engineering with Big Data and Internet of Things Includes technical approaches for solving real-time healthcare problems and practical solutions through case studies in Big Data and Internet of Things Discusses big data applications for healthcare management, such as predictive analytics and forecasting, big data integration for medical data, algorithms and techniques to speed up the analysis of big medical data, and more
Recent CMV Research BoD – Books on Demand
Handbook of Data Science Approaches for Biomedical EngineeringAcademic Press
Drug – biomembrane interaction studies MDPI

The lack of recovery prospects in advanced cancer patients has often led to neglect important achievable therapeutic objectives, such as Quality of Life (QL) improvement, aimed at preserving, for as long as possible, patient integration with their family and social environment. In fact, traditional antineoplastic therapy protocols have been for a long time designed to demonstrate an advantage in clinical response and survival but have ignored essential supportive therapies and psychological and social well-being safeguard programs. Recent research of early integrated palliative care, including supportive care, aimed to obtain patient-centered therapeutic objectives. Noteworthy, advanced cancer patients often present a multiplicity of signs and symptoms responsible for physical impairment and reduction of functional abilities with consequent impossibility of carrying out the common daily activities. Additionally, the psycho-emotional integrity, the maintenance of family and social relationships and the spiritual issues contribute substantially to the optimal patients ’ QL. Then, in the care of cancer patients their physical, psychological, social and spiritual needs should be globally addressed. In this context, cancer-related symptoms, which often occur in advanced stage cancer patients and can be either improved or worsened by the antineoplastic therapy, should be treated simultaneously with the planning and implementation of the most appropriate antineoplastic therapy. Therefore, any therapeutic approach should ideally be introduced within a context of the “ best supportive care ” , which includes optimal symptom management. To obtain this scope, the knowledge and awareness of the biological specificity of the disease and patient psychosocial interactions can no longer be considered optional by the multidisciplinary medical team in charge. To date, many of the mechanisms at the basis of the pathogenesis of many cancer-related symptoms are far from being fully understood. Consequently, an effective treatment is yet lacking and represent an unmet need in oncology clinical practice. This Research Topic includes articles in the field of biochemical, and molecular investigations, physiological and clinical studies related to the pathogenesis and potential targeted approaches of some important cancer signs and symptoms. We focused on cachexia, anorexia, muscle wasting, osteopenia, cancer-related anemia, physical inactivity and fatigue. The Research Topic includes Original Research, Review and Perspective articles.
Calcium signalling MDPI

Recent studies have highlighted that epithelial-mesenchymal transition (EMT) is not only about cell migration and invasion, but it can also govern many other important elements such as immunosuppression, metabolic reprogramming, senescence-associated secretory phenotype (SASP), stem cell properties, therapy resistance, and tumor microenvironment interactions. With the on-going debate about the requirement of EMT for cancer metastasis, an emerging focus on intermediate states of EMT and its reverse process mesenchymal-epithelial transition (MET) offer new ideas for metastatic requirements and the dynamics of EMT/MET during the entire metastatic cascade. Therefore, we would like to initiate discussions on viewing EMT and its downstream signaling networks as a fulcrum of cellular plasticity, and a facilitator of the adaptive responses of cancer cells to distant organ microenvironments and various therapeutic assaults. We hereby invite scientists who have prominently contributed to this field, and whose valuable insights have led to the appreciation of epithelial-mesenchymal plasticity as a more comprehensive mediator of the adaptive response of cancer cells, with huge implications in metastasis, drug resistance, tumor relapse, and patient survival.
Springer Science & Business Media
Beneficial Microbes in Agro-Ecology: Bacteria and Fungi is a complete resource on the agriculturally important beneficial microflora used in agricultural production technologies. Included are 30 different bacterial genera relevant in the sustainability, mechanisms, and beneficial natural processes that enhance soil fertility and plant growth. The second part of the book discusses 23 fungal genera used in agriculture for the management of plant diseases and plant growth promotion. Covering a wide range of bacteria and fungi on biocontrol and plant growth promoting properties, the book will help researchers, academics and advanced students in agro-ecology, plant microbiology, pathology, entomology, and nematology. Presents a comprehensive collection of agriculturally important bacteria and fungi Provides foundational knowledge of each core organism utilized in agro-ecology Identifies the genera of agriculturally important microorganisms
Electric Cell-Substrate Impedance Sensing and Cancer Metastasis Frontiers Media SA

Complete guide for materials, engineering, modeling and processing of novel syntactic material Lightweight metal-type foams for aeronautical, recreational and electronic applications Focused on a new type of material, the book investigates the elements, synthesis and practical applications of metal matrix syntactic foams, which share properties of foams and metal matrix composites. The text reviews how syntactic foams are synthesized from different types of hollow particles and metal matrixes. Part one explains processing techniques such as solidification and powder metallurgy and discusses foams made from a variety of matrix metals. Part two compares different syntactic foams based on density and strain rate. Original experimental data and modeling information are provided that show how metal matrix syntactic foams can be used for lighter weight components in vehicles, as well as for sensors and biomaterials.

Chemical and Synthetic Biology Approaches to Understand Cellular Functions - Frontiers Media SA
Cell biology spans among the widest diversity of methods in the biological sciences. From physical chemistry to microscopy, cells have given up with secrets only when the questions are asked in the right way! This new volume of Methods in Cell Biology covers laboratory methods in cell biology, and includes methods that are among the most important and elucidating in the discipline, such as transfection, cell enrichment and magnetic batch separation. Covers the most important laboratory methods in cell biology Chapters written by experts in their fields

Advances in Postharvest Pathology of Fruits and Vegetables MDPI
This volume presents the Proceedings of the 6th European Conference of the International Federation for Medical and Biological Engineering (MBEC2014), held in Dubrovnik September 7 – 11, 2014. The general theme of MBEC 2014 is "Towards new horizons in biomedical engineering" The scientific discussions in these conference proceedings include the following themes: - Biomedical Signal Processing - Biomedical Imaging and Image Processing - Biosensors and Bioinstrumentation - Bio-Micro/Nano Technologies - Biomaterials - Biomechanics, Robotics and Minimally Invasive Surgery - Cardiovascular, Respiratory and Endocrine Systems Engineering - Neural and Rehabilitation Engineering - Molecular, Cellular and Tissue Engineering - Bioinformatics and Computational Biology - Clinical Engineering and Health Technology Assessment - Health Informatics, E-Health

and Telemedicine - Biomedical Engineering Education
Role of the Transcriptome in Breast Cancer Prevention Frontiers Media SA
The general theme of MEDICON 2013 is "Research and Development of Technology for Sustainable Healthcare". This decade is being characterized by the appearance and use of emergent technologies under development. This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices. The consequence will be a significant improvement in health care and well-fare, i.e. the shift from a reactive medicine to a preventive medicine. This shift implies that the citizen will play an important role in the healthcare delivery process, what requires a comprehensive and personalized assistance. In this context, society will meet emerging media, incorporated to all objects, capable of providing a seamless, adaptive, anticipatory, unobtrusive and pervasive assistance. The challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society, while new paradigms are created for this inclusive society to be socially and economically sustainable, and respectful with the environment. In this way, these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications.

Handbook of Data Science Approaches for Biomedical Engineering MDPI
Removal of Toxic Pollutants through Microbiological and Tertiary Treatment: New Perspectives offers a current account of existing advanced oxidation strategies - including their limitations, challenges, and potential applications - in removing environmental pollutants through microbiological and tertiary treatment methods. The book introduces new trends and advances in environmental bioremediation technology, with thorough discussion of recent developments in the field. Updated information as well as future research directions in the field of bioremediation of industrial wastes is included. This book is an indispensable guide to students, researchers, scientists, and professionals working in fields such as microbiology, biotechnology, environmental sciences, eco-toxicology, and environmental remediation. The book also serves as a helpful guide for waste management professionals and those working on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability. Introduces various treatment schemes, including microbiological and tertiary technologies for bioremediation of environmental pollutants and industrial wastes Includes pharmaceutical wastewater, oil refinery wastewater, distillery wastewater, tannery wastewater, textile wastewater, mine tailing wastes, plastic wastes, and more Describes the role of relatively new treatment technologies and their approaches in bioremediation, including molecular and protein engineering technologies, microbial enzymes, bio surfactants, plant-microbe interactions, and genetically engineered organisms Provides many advanced technologies in the field of bioremediation and phytoremediation, including electro-bioremediation technology, microbial fuel cell technology, nano-bioremediation technology, and phytotechnologies

Metal Matrix Syntactic Foams IOS Press
This volume presents the proceedings of the Fifth International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 16-18, 2014 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. I aims identifying new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

MCB: CAR T Cells: Development, Characterization and Applications DEStech Publications, Inc
Cell based impedance sensing is becoming a new biophysical and cellular technology in cell based analyses. The technology has been used in investigation of cellular growth and death, cell adhesion and migration, cell invasion and cell-cell interactions, cell toxicity, angiogenesis, cell permeability, signal transduction and cellular behaviour under flow conditions. It is a probe free, highly sensitive, and versatile technology platform. Recent development in the technology has also allowed high throughput, automated analyses. It has been widely explored in chemistry, toxicity, cell biology, cancer biology, and other areas of chemistry, medicinal chemistry, life and medical science. Written by experts in the area of cell impedance sensing, including the Nobel Laureate Dr Ivar Giaever, this books covers the background of electric cell-substrate impedance sensing, their applications in cell based investigations, particularly in the area of cancer biology. This book is the first on this technology platform and will be a highly useful reference for molecular and cell biologists, cancer biologists, chemists and biochemists, clinical researchers who work in the areas of cell biology, molecular biology, toxicology, pharmaceutical industry, life science and medical research.

Advances in Mucoadhesive Polymers and Formulations for Transmucosal Drug Delivery Frontiers Media SA
Clearance of apoptotic cells is essential for proper development, homeostasis and termination of immune responses in multicellular organisms. Thus, cellular and molecular players taking part in the sequential events of this process are of great interest. Research in the last 20 years has indicated that specific ligands and receptors take part in the attraction of immune cells toward apoptotic targets and in the interactions between apoptotic cells and professional as well as non-professional phagocytes that engulf them. Moreover, phagocytosis of apoptotic cells (efferocytosis) leads to significant phenotypic changes in the engulfing cells suggesting that it is a major fate-determining event for phagocytes. Particularly, efferocytosis has an important impact on the inflammation-resolution axis as well as embryonic development and tissue morphogenesis. Deficiencies in these processes can result in health threats, such as autoimmunity, atherosclerosis, bone loss, obesity, infertility, neurodegeneration, fibrosis and cancer. This eBook brings together 24 original research and review manuscripts that cover various aspects of apoptotic cell removal during normal development and homeostasis as well as in tumorigenesis and regenerative processes following injury.

Corneal Transplantation & Eye Banking unipampa
The book combines general concepts and methods to investigate calcium signalling in cells ranging from molecular biology approaches to manipulation of calcium in living cells. The focus within these methods in on the broad range of fluorescence imaging technology, in particular on optical sectioning techniques and fast image acquisition. In addition to these general guidelines there are application examples in a context beyond calcium signalling in two major fields: investigations of isolated cardiac myocytes and red blood cell related research. While the cellular cardiology section provides snapshots of certain calcium signalling aspects, the red blood cell part presents an overview from the functional identification of calcium-channels to a concept of physiological and pathophysiological relevance.