Challenges in Endocrine Disruptor Toxicology and Risk Assessment

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and Occupational Health, Croatia

Synopsis
Endocrine disruptors are chemicals that can interfere with the endocrine systems (hormone systems) at certain dosages and are known to affect the development of numerous diseases. They are an increasing concern given the number of known EDCs in household products and the environment. This book will cover the pathology of EDCs across the spectrum of disease as well as risk assessment and government and legal regulation to provide a holistic view of the current issues and cutting-edge research.

Endocrine Disruptor effects on estrogen, androgen and thyroxine pathways: recent advances on screening and assessment
Methylation disturbances by Endocrine Disruptor
Endocrine Disruptor dose-response: threshold and bimodal action issues Sex-specific actions of Endocrine Disruptor
Pathways of Endocrine Disruptor-induced infertility
Health risks of transplacental exposure to Endocrine Disruptor
Endocrine Disruptor and Cancer: from genotoxicity mechanisms to ethnicity-related susceptibility
Bone as Endocrine Disruptor target
Pathways of Endocrine Disruptor-induced neuro-developmental disturbances;

Brief Contents

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NMR and MRI of Gels
Yves De Deene Macquarie University, Australia

Synopsis
Gels are used in a large variety of commercial and scientific products from drug delivery and food science to biomedical sensors. This book has been developed to discuss the state-of-the-art of NMR and MRI techniques in studying the physics and chemistry of gel systems. The first part of the book will cover the fundamental physical concepts of gels and the NMR techniques to study gel systems. The second part of the book will be dedicated to the application of gels in life sciences and in the medical practice to validate radiotherapy and new MRI techniques.

Brief Contents
- Gels
- NMR Spectroscopy in the Study of the Structure and Dynamics of Gels
- NMR Diffusion Measurements
- Magnetic Resonance Micro-Imaging of Hydrogels
- NMR of Supramolecular Gels
- Multinuclear and Solid State NMR of Gels
- Cells in Gels: NMR Studies
- NMR in Food Technology
- Gel based Radiation Dosimetry using Quantitative MRI
- Gel Phantoms for MRI Quality Assurance and Testing

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Advance Book Information

Science and Art
The Contemporary Painted Surface

Antonio Sgamellotti Accademia Nazionale dei Lincei, University of Perugia, Italy
Brunetto Giovanni Brunetti INSTM, University of Perugia, Italy
Costanza Miliani CNR-ISTM, Perugia, Italy

Synopsis
Science and art are increasingly interconnected in the activities of the study and conservation of works of art. This new edition of Science and Art will cover works by largely living authors, protagonists of the development of innovative and meaningful techniques, new methodologies and artistic languages. With contributions from art historians, curators, scientists and artists, this book will appeal to those scientifically interested in the area, students studying art conservation as well as those actively working in conservation science of contemporary art.

Brief Contents

- Jackson Pollock's Drip Paintings: Tracing the Introduction of Alkyds through Non-invasive Analysis of Mid-1940s Paintings
- Piero Manzoni, Achromes: An Initial Investigation into the Chemical and Technical Characterisation of the Artist's Materials
- 1949-1968 Concetti spaziali by Lucio Fontana – A Historical-Artistic and Technical Study
- Josef Albers' practice with 20th Century pigments. A non-invasive analytical approach
- From Identification to a New Insight of Preservation Theory for Contemporary Art. Innovative Approaches to Complex Care in Alina Zapocznikow Case Studies

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Advance Book Information

The Chemistry of Medical and Dental Materials
John W Nicholson Bluefield Centre for Biomaterials Ltd, UK and Queen Mary University of London, UK

Synopsis
Since the first edition of The Chemistry of Medical and Dental Materials was published (2002), the field has moved on apace. This new edition is a thorough update by one of the pioneers of the field. A new chapter on ethical perspectives has been added, with updates to all other chapters to include developments on nanotechnology, advancements in our understanding of biocompatibility and improvements in materials science for drug delivery and clinical use.

Brief Contents
- Synthetic Materials in Medicine
- Polymers
- Ceramics
- Metals
- Dental Materials
- Biological Interactions with Materials
- Tissue Engineering
- Ethical perspectives in Biomaterials Science

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