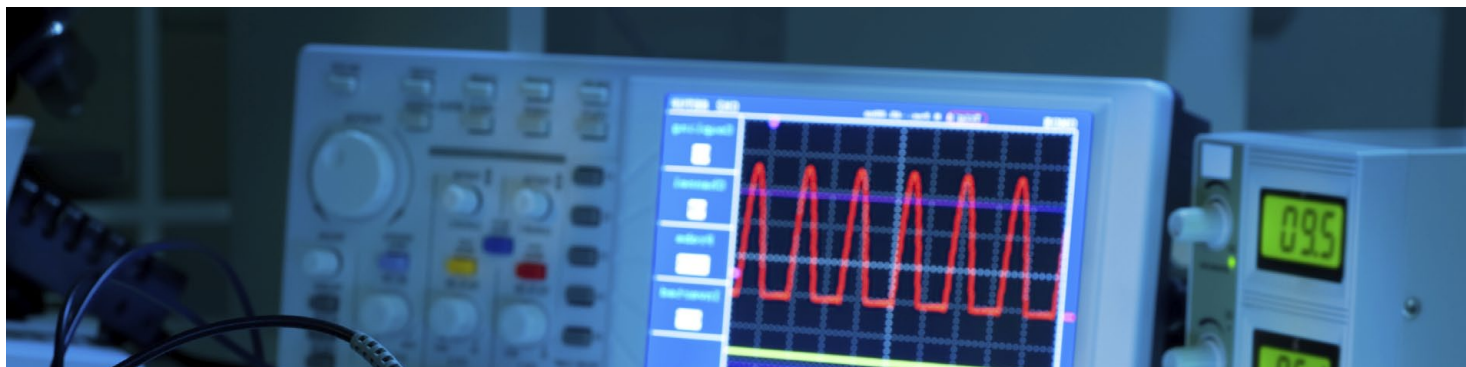


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R. A. Adan, Rudolf Magnus Institute of Neuroscience, Utrecht, Netherlands; W. H. Kaye, University of California, San Diego Dept. Psychiatry, La Jolla, CA, USA (Eds)

Behavioral Neurobiology of Eating Disorders

This book describes the current state of understanding of the neurobiology of eating disorders, providing the latest insights and ideas. Because of the critical need to advance treatment, the book also includes chapters from pioneers in this field.

2011. XIV, 322 p. (Current Topics in Behavioral Neurosciences, Volume 6) Hardcover
ISBN 978-3-642-15130-9

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9 783642 151309

A. Aghamohammadi, N. Rezaei, Tehran University of Medical Sciences Research Center for Immunodeficiencies, Tehran, Iran (Eds)

Clinical Cases in Primary Immunodeficiency Diseases

A Problem-Solving Approach

Focused on features of patients with PIDs and on further investigation and management, this book uses 90 real-life cases of immunodeficiency, along with some 300 related questions. Includes clinical diagnosis, lab findings, molecular mechanisms and therapy.

2013. XIX, 377 p. 31 illus., 19 illus. in color. Hardcover
ISBN 978-3-642-31784-2

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9 783642 317842

S. I. Ahmad, Nottingham Trent University, Nottingham, UK (Ed)

Diabetes

An Old Disease, a New Insight

Diabetes is a complex disease and is also one of the most common. This book serves as a guide for diabetic patients to take care of their health.

2013. XXXIII, 485 p. (Advances in Experimental Medicine and Biology, Volume 771) Hardcover
ISBN 978-1-4614-5440-3

▶ € 179,95 | £159,50
▶ *€ (D) 192,55 | € (A) 197,94 | sFr 236,00

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▶ *€ (D) 96,30 | € (A) 99,00 | sFr 120,00



9 781461 454403

B. B. Aggarwal, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; Y.-J. Surh, Seoul National University College of Pharmacy, Seoul, Korea, Republic of (South Korea); S. Shishodia, University of Texas MD Anderson Cancer Center, Houston, TX, USA (Eds)

The Molecular Targets and Therapeutic Uses of Curcumin in Health and Disease

Curcumin is derived from the root of the plant *Curcuma longa* (also called turmeric) and its medicinal uses have been described for over 5000 years.

2007. XXI, 489 p. 77 illus. (Advances in Experimental Medicine and Biology, Volume 595) Hardcover
ISBN 978-0-387-46400-8

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9 780387 464008

A. Ahmad, Wayne State University, Detroit, MI, USA (Ed)

Breast Cancer Metastasis and Drug Resistance

Progress and Prospects

This volume covers recent progress in breast cancer research. It explores breast cancer, the factors that make it lethal and current research progress, including stem cells, microRNAs, epigenetics, genomics and some novel signaling pathways.

2013. XI, 413 p. 59 illus., 45 illus. in color. Hardcover
ISBN 978-1-4614-5646-9

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9 781461 456469

P. Augustijns, Katholieke Universiteit Leuven Lab. Pharmacotechnology &, Leuven, Belgium; M. Brewster, Beerse, Belgium (Eds)

Solvent Systems and Their Selection in Pharmaceuticals and Biopharmaceutics

Solvent systems are integral to drug development and pharmaceutical technology. This single topic encompasses numerous allied subjects running the gamut from recrystallization solvents to biorelevant media. The goal of this contribution to the AAPS Biotechnology: Pharmaceutical Aspects series is to generate both a practical handbook as well as a reference allowing the reader to make effective decisions concerning the use of solvents and solvent systems. To this end, the monograph was created by inviting recognized experts from a number of fields to author relevant sections.

2007. IX, 459 p. (Biotechnology: Pharmaceutical Aspects, VI) Hardcover
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9 780387 691497

T. Balla, National Institutes of Health, Bethesda, MD, USA; M. Wymann, University of Basel, Basel, Switzerland; J. D. York, Duke University Medical Center, Durham, NC, USA (Eds)

Phosphoinositides II: The Diverse Biological Functions

Phosphoinositides play a major role in cellular signaling and membrane organization. During the last three decades we have learned that enzymes turning over phosphoinositides control vital physiological processes and are involved in the initiation and progression of cancer, inflammation, neurodegenerative, cardiovascular, metabolic disease and more. In two volumes, this book elucidates the crucial mechanisms that control the dynamics of phosphoinositide conversion.

2012. XVI, 460 p. (Subcellular Biochemistry, Volume 59) Hardcover

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D. Barh, Institute of Integrative Omics and Applied Biotechnology (IIOAB), Purba Medinipur, India; D. Dhawan, B.V. Patel Pharmaceutical Education and Research Development Centre, Ahmedabad University, Ahmedabad, India; N. K. Ganguly, Translational Health Science and Technology Institute (Department of Biotechnology Institute, Government of India), Office @ National Institute of Immunology, New Delhi, India (Eds)

Omics for Personalized Medicine

This book details how the pharmacogenomics and omics technologies are transforming the medicine and the health care sector for the better. It covers all aspects of pharmacogenomics and its disease-specific applications.

2013. XVIII, 832 p. 103 illus., 68 illus. in color. Hardcover

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9 788132 211839

S. S. Batsanov, Russian Academy of Sciences Institute of Struct. Macrokinetics, Chernogolovka, Moscow Region, Russia; A. S. Batsanov, Durham University, Durham, UK

Introduction to Structural Chemistry

A concise description of models and quantitative parameters in structural chemistry and their inter-relations, with 280 tables and >3000 references giving the most up-to-date experimental data on energy characteristics of atoms, molecules and crystals (ionisation potentials, electron affinities, bond energies, heats of phase transitions, band and lattice energies), optical properties (refractive index, polarisability), spectroscopic characteristics and geometrical parameters (bond distances and angles, coordination numbers) of substances in gaseous, liquid and solid states, in glasses and melts, for various thermodynamic conditions.

2012. X, 542 p. 75 illus., 10 illus. in color. Hardcover

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9 789400 747708

P. Brodt, McGill University Health Centre Royal Victoria Hospital, Montreal, QC, Canada (Ed)

Liver Metastasis: Biology and Clinical Management

Despite recent advances in surgery, and more aggressive resection, liver metastases still prove fatal in a high proportion of cases. This volume aims to enhance our understanding of the biology of hepatic cancer metastasis, in particular its early stages.

2011. XIV, 446 p. (Cancer Metastasis - Biology and Treatment, Volume 16) Hardcover

ISBN 978-94-007-0291-2

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J. F. Carpenter, M. C. Manning (Eds)

Rational Design of Stable Protein Formulations

Theory and Practice

Recombinant proteins and polypeptides continue to be the most important class of biotechnology-derived agents in today's pharmaceutical industry. Over the past few years, our fundamental understanding of how proteins degrade and how stabilizing agents work has made it possible to approach formulation of protein pharmaceuticals from a much more rational point of view. This book describes the current level of understanding of protein instability and the strategies for stabilizing proteins under a variety of stressful conditions.

2002. XVII, 206 p. (Pharmaceutical Biotechnology, Volume 13) Hardcover

ISBN 978-0-306-46741-7

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M. M. de Villiers, University of Wisconsin, Madison School of Pharmacy, Madison, WI, USA; P. Aramwit, Chulalongkorn University Fac. Pharmaceutical Sciences, Bangkok, Thailand; G. S. Kwon, University of Wisconsin, Madison School of Pharmacy, Madison, WI, USA (Eds)

Nanotechnology in Drug Delivery

This book explores various fundamental aspects of nanotechnology-based drug delivery systems. It also covers the applications of these systems for the delivery of small molecules, proteins, peptides, oligonucleotides and genes.

2009. (Biotechnology: Pharmaceutical Aspects, X) Hardcover

ISBN 978-0-387-77667-5

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R. R. Dietert, Cornell University College of Veterinary Medicine, Ithaca, NY, USA; R. W. Luebke, US Environmental Protection Agency, Research Triangle Park, NC, USA (Eds)

Immunotoxicity, Immune Dysfunction, and Chronic Disease

This book approaches the environment-immune-disease triad from the standpoint of the disease. Its coverage of immune dysfunction-based chronic diseases and conditions describes environmental risk factors, immune dysfunctions and overall health consequences.

2012. XVI, 452 p. (Molecular and Integrative Toxicology) Hardcover
ISBN 978-1-61779-811-5
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9 781617 798115

H. J. ten Donkelaar, Radboud University Nijmegen Medical Center, Nijmegen, Netherlands

Clinical Neuroanatomy

Brain Circuitry and Its Disorders

Knowledge of how parts of the brain interconnect to form functional systems is a prerequisite for the proper understanding of data from all fields in the neurosciences. This volume uses clinical case studies and discusses all the main neurofunctional systems.

2011. XXIV, 834 p. 615 illus., 266 illus. in color. Hardcover
ISBN 978-3-642-19133-6
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9 783642 191336

V. A. Erdmann, Free University Berlin Institute of Chemistry/Biochemistry, Berlin, Germany; J. Barciszewski, PAN Poznan Inst. Bioorganic Chemistry, Poznan, Poland (Eds)

From Nucleic Acids Sequences to Molecular Medicine

Written by leading experts in the field, this book covers hot topics such as small interference RNAs for gene silencing in molecular biology and medicine. Includes numerous illustrations.

2012. X, 654 p. (RNA Technologies) Hardcover
ISBN 978-3-642-27425-1
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9 783642 274251

M. A. Geyer, University of California San Diego Dept. Psychiatry, La Jolla, CA, USA; G. Gross, Abbott GmbH & Co. KG Institut für Pharmakologie, Universität, Ludwigshafen, Germany (Eds)

Novel Antischizophrenia Treatments

This volume tries to put current therapy - achievements, shortcomings, remaining medical needs - and emerging new targets into the context of increasing knowledge regarding the genetic and neurodevelopmental contributions to the pathophysiology of schizophrenia. Some of the chapters also deal with respective experimental and clinical methodology, biomarkers, and translational aspects of drug development.

2012. X, 455 p. 20 illus., 15 illus. in color. (Handbook of Experimental Pharmacology, Volume 213) Hardcover
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P. Gresele, University of Perugia, Perugia, Italy; G. V. Born, The William Harvey Research Institute, London, UK; C. Patrono, Università Cattolica del S. Cuore Istituto di Farmacologia, Roma, Italy; C. P. Page, Sackler Inst. Pulmonary Pharmacology King's College London, London, UK (Eds)

Antiplatelet Agents

The first comprehensive handbook entirely dedicated to all the aspects of antiplatelet therapy, this work surveys pathophysiology, pharmacology and therapy. Coverage incorporates recent achievements, and includes current and novel antiplatelet agents and more.

2012. XII, 616 p. 62 illus., 47 illus. in color. (Handbook of Experimental Pharmacology, Volume 210) Hardcover
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G. Gross, Abbott GmbH & Co. KG Institut für Pharmakologie, Universität, Ludwigshafen, Germany; M. A. Geyer, University of California San Diego Dept. Psychiatry, La Jolla, CA, USA (Eds)

Current Antipsychotics

Six decades after the serendipitous discovery of chlorpromazine as an antipsychotic and four decades after the launch of clozapine, the first atypical or second generation antipsychotic, psychopharmacology has arrived at an important crossroad. It is clear that pharmacological research and pharmaceutical development must now focus on complementary or even alternative mechanisms of action to address unmet medical needs, i.e. poorly treated domains of schizophrenia, improved acceptance by patients, better adherence to medication, safety in psychoses in demented patients, and avoiding cardiac and metabolic adverse effects.

2012. X, 416 p. 19 illus., 9 illus. in color. (Handbook of Experimental Pharmacology, Volume 212) Hardcover
ISBN 978-3-642-25760-5
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9 783642 257605

S. Grün, RIKEN Brain Science Institute Computational Neuroscience Group, Saitama, Japan; S. Rotter, Universität Freiburg Bernstein-Zentrum für Computational Neur, Freiburg, Germany (Eds)

Analysis of Parallel Spike Trains

This is the first book to collect the relevant basic knowledge on analysis of parallel spike trains in a single source. Coverage includes the first steps of stochastic point processes (SPPs) as an appropriate mathematical framework to describe spike trains.

2010. XX, 444 p. (Springer Series in Computational Neuroscience, Volume 7) Hardcover
ISBN 978-1-4419-5674-3

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E. Gulbins, University of Duisburg-Essen, Essen, Germany; I. Petrache, Indiana University School of Medicine Division of Pulmonary, Allergy, Critical, Indianapolis, IN, USA (Eds)

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This book provides insight into the physiological and pathophysiological role of sphingolipids and in particular its derivative ceramide. It examines the function of Sphingolipids in cell signaling with regard to diseases.

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E. Gulbins, University of Duisburg-Essen, Essen, Germany; I. Petrache, Indiana University School of Medicine Division of Pulmonary, Allergy, Critical, Indianapolis, IN, USA (Eds)

Sphingolipids: Basic Science and Drug Development

This book examines the physiological and pathophysiological role of sphingolipids and their derivative ceramide, and their function in cell signalling, tumor metastasis, cardiovascular disease and neuropsychiatric disorders. Explores treatment options.

2013. VIII, 259 p. 90 illus., 30 illus. in color. (Handbook of Experimental Pharmacology, Volume 215) Hardcover
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9 783709 113677

C. A. Guzmán, Gesellschaft für Biotechnologische Forschung (GBF), Braunschweig, Germany; G. Z. Feuerstein, Wyeth Research, Collegeville, PA, USA (Eds)

Pharmaceutical Biotechnology

This book is a unique compilation of reviews addressing frontiers in biologicals from diverse perspectives, including basic research, biotechnology, protein delivery, pharmaceuticals and vaccinology. It covers a wide array of topics.

2009. (Advances in Experimental Medicine and Biology, Volume 655) Hardcover
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9 781441 911315

M. Hayat, Room 213, Library building, Union, NJ, USA (Ed)

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This wide-ranging survey of the field examines a plethora of relevant material, covering issues as diverse as the advantages and limitations of biomarkers in gliomagenesis to the diagnostic applications of imaging methodologies such as PET and SPECT.

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9 789400 706170

M. A. Hayat, Kean University Dept. Biological Sciences, Union, NJ, USA (Ed)

Tumors of the Central Nervous System, Volume 1

Gliomas: Glioblastoma (Part 1)

This book presents recent developments in diagnostic and therapeutic aspects of Gliomas (Glioblastoma) in the brain. It examines the importance of personalized medicine and clinical validation for targeted therapy.

2011. XXII, 434 p. (Tumors of the Central Nervous System, Volume 1) Hardcover
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9 789400 703438

M. Hayat, Department of Biological Sciences, UNION, NJ, USA (Ed)

Tumors of the Central Nervous System, Volume 3

Brain Tumors (Part 1)

In this book, the classification of brain tumors is updated using magnetic resonance spectroscopy technology. The role of cellular immortality in brain tumors is reviewed. Genetic profiling and treatment (including neurosurgery) of brain cancers are explained.

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9 789400 713987

K. Huynh-Ba, Pharmalytik Consulting Services, Newark, DE, USA (Ed)

Pharmaceutical Stability Testing to Support Global Markets

This book contains the proceedings of the AAPS Stability Workshop. This workshop provides an understanding of the regulatory perspective of stability testing and globally positions the stability program for the 21st century.

2010. (Biotechnology: Pharmaceutical Aspects, XII) Hardcover

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9 781441 908889

K. Huynh-Ba, Pharmalytik Consulting Services, Newark, DE, USA (Ed)

Handbook of Stability Testing in Pharmaceutical Development

Regulations, Methodologies, and Best Practices

This handbook is the first to cover all aspects of stability testing in pharmaceutical development. Written by a group of international experts, the book presents a scientific understanding of regulations and balances methodologies and best practices.

2009. XVII, 389p. 72 illus.. Hardcover
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9 780387 856261

K. K. Jain, Jain PharmaBiotech, Basel, Switzerland

The Handbook of Biomarkers

This handbook describes many different types of biomarkers and their discovery. It also presents the background information needed for the evaluation of biomarkers as well as the essential procedures for their validation and use in clinical trials.

2010. XX, 488p. 22 illus., 11 illus. in color. Hardcover
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9 781607 616849

D. Janigro, Cleveland Clinic Foundation Div. Cerebrovascular Research, Cleveland, OH, USA (Ed)

The Cell Cycle in the Central Nervous System

Cell Cycle in the Central Nervous System overviews the changes in cell cycle as they relate to prenatal and post natal brain development, progression to neurological disease or tumor formation. Topics covered range from the cell cycle during the prenatal development of the mammalian central nervous system to future directions in postnatal neurogenesis through gene transfer, electrical stimulation, and stem cell introduction. Additional chapters examine the postnatal development of neurons and glia, the regulation of cell cycle in glia, and how that regulation may fail in pretumor conditions or following a nonneoplastic CNS response to injury.

2006. (Contemporary Neuroscience) Hardcover
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9 781588 295293

H.-G. Joost, German Institute of Human Nutrition, Nuthetal, Germany (Ed)

Appetite Control

The volume 'Appetite Control' provides a comprehensive description of the mechanisms controlling food intake, and thereby energy balance, in the mammalian organism. During the last decade, research in this area has produced a remarkable wealth of information and has characterized the function of numerous peptides, transmitters, and receptors in appetite control. Dysfunction of these circuits leads to obesity, a growing health concern. However, the plethora of mechanistic information is in marked contrast to an almost complete lack of anti-obesity drugs that meet the safety standards required for the chronic therapy of morbid obesity. Consequently, ongoing research aims to identify additional targets and agents for a pharmacological intervention.

2012. X, 474 p. (Handbook of Experimental Pharmacology, Volume 209) Hardcover
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H. H. Kimko, Janssen Research & Development, LLC Department of Advanced Modeling & Simula, Raritan, NJ, USA; C. C. Peck, University of California, San Francisco Dept. Biopharmaceutical Sciences, San Francisco, CA, USA (Eds)

Clinical Trial Simulations

Applications and Trends

Clinical Trial Simulations presents an up-to-date overview of CTS, and expands upon the utility of CTS for informing decisions during drug development and regulatory review. Case studies illustrate the current therapeutic techniques used today.

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R. E. Kontermann, Universität Stuttgart Inst. Zellbiologie und Immunologie, Stuttgart, Germany; S. Dübel, TU Braunschweig Inst. Biochemie und Biotechnologie, Braunschweig, Germany (Eds)

Antibody Engineering Volume 2

This book is a toolbox of well-established basics and many exciting new techniques in antibody engineering, reflecting the latest hands-on work of key laboratories in this fast-moving field. The new edition is expanded to nearly double the number of protocols.

2nd ed. 2010. 600p. 122 illus., 22 illus. in color.
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9 783642 011467

A. K. Kulshreshtha, O. N. Singh, G. M. Wall, Alcon Research Ltd., Forth Worth, TX, USA (Eds)

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9 781441 910868

R. E. Kontermann, Universität Stuttgart Inst. Zellbiologie und Immunologie, Stuttgart, Germany; S. Dübel, TU Braunschweig Inst. Biochemie und Biotechnologie, Braunschweig, Germany (Eds)

Antibody Engineering Volume 1

This book is a toolbox of well-established basics and many exciting new techniques in antibody engineering, reflecting the latest hands-on work of key laboratories in this fast-moving field. The new edition is expanded to nearly double the number of protocols.

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9 783642 011436

M. R. Kreutz, Leibniz Institute for Neurobiology, Magdeburg, Germany; C. Sala, CR6 CNR-IN Consiglio Nazionale delle Ric, Milano, Italy (Eds)

Synaptic Plasticity

Dynamics, Development and Disease

This book introduces current concepts of molecular mechanisms in synaptic plasticity, and offers a comprehensive overview of cutting-edge technology used to investigate the molecular dynamics of the synapses. Coverage includes clinical and applied aspects.

2012. X, 622 p. (Advances in Experimental Medicine and Biology, Volume 970) Hardcover

ISBN 978-3-7091-0931-1

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9 783709 109311

T. K. Kundu, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India (Ed)

Epigenetics: Development and Disease

Epigenetics fine-tunes the life processes dictated by DNA sequences, but also kick-starts pathological processes including diabetes, AIDS and cancer. This volume tracks the latest research on epigenetics, including work on new-generation therapeutics.

2013. XXVI, 689 p. 70 illus., 56 illus. in color.
(Subcellular Biochemistry, Volume 61) Hardcover
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9 789400 745247

A. Fagot-Largeault, Collège de France Chaire de Philosophie des Sciences, Paris CX 05, France; **S. Rahman**, Université Lille III UFR de Philosophie, Villeneuve d'Ascq, France; **J. M. Torres**, Universidad Nacional de Cuyo Facultad de Filosofía y Letras, Mendoza, Argentina (Eds)

The Influence of Genetics on Contemporary Thinking

1. INTRODUCTION Definedasthebranchofbiologydealingwithheredityandthemechanicsofgenetransmission from one generation to the next, genetics first made its appearance on the scientific scene at the beginning of the 20th century when H. de Vries, C. Correns and E. von Tschermak re-discovered the extraordinary experimental work of Mendel.

2007. LVI, 216 p. (Logic, Epistemology, and the Unity of Science, Volume 6) Hardcover
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9 781402 056635

R. Lever, University of London School of Pharmacy, London, UK; **B. Mulloy**, National Institute for Biological Standards and Control, Potters Bar, Herts., UK; **C. P. Page**, Sackler Inst. Pulmonary Pharmacology King's College London, London, UK (Eds)

Heparin - A Century of Progress

Heparins remain amongst the most commonly used drugs in clinical practice. Almost 100 years have passed since the initial discovery of this complex substance and, during this time, understanding of the nature and uses of heparin and related molecules has grown dramatically. The aim of this volume is to summarise the developments that have led to the current status of both heparins as drugs and the field of heparin research, with a focus on the particularly rapid progress that has been made over the past three decades.

2012. XIV, 462 p. (Handbook of Experimental Pharmacology, Volume 207) Hardcover
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9 783642 230554

R. Martin, Universitätsklinikum Hamburg-Eppendorf Institut für Neuroimmunologie und, Hamburg, Germany; **A. Lutterotti**, Innsbruck Medical University, Innsbruck, Austria (Eds)

Molecular Basis of Multiple Sclerosis

The Immune System

Despite major efforts by the scientific community, our understanding of the pathogenesis or the mechanisms of injury of multiple sclerosis is still limited. This book investigates the molecular basis of multiple sclerosis and summarizes recent advances.

2010. VIII, 308 p. (Results and Problems in Cell Differentiation, Volume 51) Hardcover
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S. Morand, B. Krasnov, R. Poulin (Eds)

Micromammals and Macroparasites

From Evolutionary Ecology to Management

Small mammals are among the most ubiquitous and important components of terrestrial ecosystems. They have coevolved, and now coexist, with a diverse array of parasites, such that not only are all aspects of their biology influenced by parasitism but they also play key roles in the transmission and maintenance of parasitic diseases. This book provides a comprehensive survey of the diversity and biology of metazoan parasites affecting small mammals, of their impact on host individuals and populations, and of the management implications of these parasites for conservation biology and human welfare.

2006. XV, 647 p. 79 illus. Hardcover
ISBN 978-4-431-36024-7

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9 784431 360247

A. Mozayani, Harris County Institute of Forensic Scie, Houston, TX, USA; **L. Raymon**, Homestead, FL, USA (Eds)

Handbook of Drug Interactions A Clinical and Forensic Guide

Adverse drug reactions and interactions remain a major healthcare issue. This fully updated and revised new edition of the indispensable guide to drug interactions includes fresh research on pharmacogenomics as well as an expanded section on illicit drugs.

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9 781617 792212

A. Mozayani, Harris County Institute of Forensic Scie, Houston, TX, USA; **C. Noziglia**, Aiken, SC, USA (Eds)

The Forensic Laboratory Handbook Procedures and Practice

With the scope of forensic science expanding apace, this new edition of the classic handbook on the subject is indispensable. It includes more than a dozen new chapters from real-life practitioners and covers all the key topics as well as many fresh issues.

2nd ed. 2011. XII, 600p. 180 illus., 110 illus. in color.
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9 781607 618713

M. M. Mueller, Villingen-Schwenningen, Germany;
N. E. Fusenig, Heidelberg, Germany (Eds)

Tumor-Associated Fibroblasts and their Matrix

This is the first comprehensive compilation of expert reviews on tumor stroma and its role in tumor biology important for basic and clinical cancer researchers. It contains contributions from experts in this important field in cancer research and therapy.

2011. XVI, 456 p. (The Tumor Microenvironment, Volume 4) Hardcover
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9 789400 706583

M. Müller, Medical University Vienna Allgemeines Krankenhaus, Vienna, Austria (Ed)

Microdialysis in Drug Development

Microdialysis is vital to drug development, with in vivo target-site concentrations a key determinant of a drug's effectiveness. This volume covers all current microdialysis technology, as well as general and disease-specific aspects of the techniques.

2013. XI, 338 p. 55 illus., 29 illus. in color. (AAPS Advances in the Pharmaceutical Sciences Series, Volume 4) Hardcover
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K. D. Murrell, Foodborne Parasitic Zoonoses Campaign, Rockville, MD, USA; B. Fried, Lafayette College, Easton, PA, USA (Eds)

Food-Borne Parasitic Zoonoses Fish and Plant-Borne Parasites

Humans suffer from numerous parasitic food-borne zoonoses, many of which are caused by helminths. The helminth zoonoses of concern in this book are normally limited to diseases of animals which have now become transmissible to humans. In the past these diseases were limited to populations living in low- and middle-income countries, but the geographical limits and populations at risk are expanding and changing because of growing international markets, improved transportation systems, and demographic changes (such as population movements).

2007. (World Class Parasites, Volume 11) Hardcover
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9 780387 713571

B. Nickerson, Pfizer Inc. Pfizer Global Research & Development, Groton, CT, USA (Ed)

Sample Preparation of Pharmaceutical Dosage Forms

Challenges and Strategies for Sample Preparation and Extraction

This book is a resource for analysts in developing and troubleshooting sample preparation methods, which are critical activities in providing accurate data throughout the lifecycle of a drug product. Multiple examples and case studies are presented.

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A. Petronis, Centre for Addiction and Mental Health, Toronto, ON, Canada; J. Mill, King's College London, London, UK (Eds)

Brain, Behavior and Epigenetics

Epigenetics, once believed stable after development, has been found to occur in fully differentiated, post-mitotic central nervous system cells in response to environmental signals. This book explores the role of epigenetic risk factors in complex diseases.

2011. XVI, 320 p. (Epigenetics and Human Health) Hardcover

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9 783642 174254

V. Regitz-Zagrosek, Charité - Universitätsmedizin Berlin Institute of Gender in Medicine (GiM), Berlin, Germany (Ed)

Sex and Gender Differences in Pharmacology

A trailblazing assessment of sex and gender differences in reactions to drug therapy, this volume reflects the topic's growing recognition. Analyses by international experts on both pharmacokinetics and drug development are informed by an extensive data set.

2012. IX, 600 p. 37 illus., 22 illus. in color. (Handbook of Experimental Pharmacology, Volume 214) Hardcover

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9 783642 307256

R. R. Resende, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil; H. Ulrich, Universidade de São Paulo Inst. Química, São Paulo, Brazil (Eds)

Trends in Stem Cell Proliferation and Cancer Research

This book details the molecular mechanisms of cancer diseases, stem cell proliferation and transformation into cancer cells beyond the physiological processes that occur in normal stem cell biology.

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K. A. Roubelakis-Angelakis, University of Crete Dept. Biology, Iraklion, Crete, Greece (Ed)

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Publication of the grapevine genome sequence in 2007 opened new doors in grapevine research. This edition contains ten chapters describing new aspects of grapevine molecular physiology and biotechnology and eleven chapters that have been updated and revised.

2nd ed. 2009. XXXVI, 610 p. Hardcover

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R. Russell, University of Texas, Austin, TX, USA (Ed)

Biophysics of RNA Folding

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N. W. Schultheiss, RM 109, Boston, MA, USA; A. A. Prinz, Emory University Dept. Biology, Atlanta, GA, USA; R. J. Butera, Georgia Institute of Technology School of Electrical & Atlanta, GA, USA (Eds)

Phase Response Curves in Neuroscience

Theory, Experiment, and Analysis

Inspired by response to a workshop at the 2008 OCNS meeting, this book tracks advances in the application of phase response (PR) analysis to the study of electrically excitable cells, focusing on applications of PR analysis in the computational neurosciences.

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R. Sen, Indian Institute of Technology Kharagpur Dept. Biotechnology, Kharagpur, India (Ed)

Biosurfactants

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S. J. Shire, Genentech Inc., San Francisco, CA, USA; W. Gombotz, Omeros Corporation, Seattle, WA, USA; K. Bechtold-Peters, Boehringer Ingelheim Pharma KG, Biberach, Germany; J. Andya, Genentech, Inc., South San Francisco, CA, USA (Eds)

Current Trends in Monoclonal Antibody Development and Manufacturing

This volume provides an understanding of the development, manufacturing techniques, and requirements of monoclonal antibodies. Covering one of the fastest growing areas of drug development, readers will find an informative text that describes the parameters for a successful regulatory submission.

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J. Siepmann, Phalempin, France; R. A. Siegel, University of Minnesota, Minneapolis, MN, USA; M. J. Rathbone, Griffith University, Southport, QLD, Australia (Eds)

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M. Singh, Novartis Vaccines Research, Cambridge, MA, USA (Ed)

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H. D. Smyth, University of Texas, Austin, USA; A. J. Hickey, University of North Carolina Eshelman School of Pharmacy, Chapel Hill, NC, USA (Eds)

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R. K. Srivastava, S. Shankar, University of Kansas Medical Center, Kansas City, KS, USA (Eds)

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M. M. Stark, Sydney, NSW, Australia (Ed)

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M. E. Symonds, University Hospital Queen's Medical Centre, Nottingham, UK (Ed)

Adipose Tissue Biology

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B. A. Teicher, National Cancer Institute, Rockville, MD, USA (Ed)

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D. J. Tindall, Mayo Clinic College of Medicine, Rochester, MN, USA (Ed)

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9 781461 468271

Y.-W. Tang, Memorial Sloan-Kettering Cancer Center Department of Laboratory Medicine, New York, NY, USA; **C. W. Stratton**, Vanderbilt University Medical Center Vanderbilt Clinic, Nashville, TN, USA (Eds)

Advanced Techniques in Diagnostic Microbiology

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M. K. Thakur, Banaras Hindu University, Varanasi, India; **S. I. Rattan**, Aarhus University, Aarhus-C, Denmark (Eds)

Brain Aging and Therapeutic Interventions

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Y.-K. Tu, D. C. Greenwood, Division of Biostatistics Leeds Institute of Genetics, Leeds, UK (Eds)

Modern Methods for Epidemiology

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9 789400 730236

X. W. Wang, National Institute of Health Lab. Human Carcinogenesis, Bethesda, MD, USA; J. W. Grisham, S. S. Thorgeirsson, National Institute of Health Lab. Experimental Carcinogenesis, Bethesda, MD, USA (Eds)

Molecular Genetics of Liver Neoplasia

Primary liver cancer is the third most deadly and fifth most common cancer worldwide. This book offers an exciting overview of the advances in the genetics and biology of liver cancer, diagnosis, treatment and prevention.

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9 781441 960818

W. D. Wick, Seattle, WA, USA; O. O. Yang, UCLA Medical Center Geffen School of Medicine, Los Angeles, CA, USA

War in the Body

The Evolutionary Arms Race Between HIV and the Human Immune System and the Implications for Vaccines

This book surveys the wide evolutionary variations of HIV and the different, sometimes opposing theories which try to explain them. It compares ways that drugs and the immune system affect the virus's evolution, and the implications for vaccine development.

2013. XIX, 298 p. 51 illus., 4 illus. in color. Hardcover
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9 781461 472933

C. G. Wilson, Strathclyde Institute of Pharmacy The John Arbutnott Building, Glasgow, UK; P. J. Crowley, Devon, PA, USA (Eds)

Controlled Release in Oral Drug Delivery

There are many ways in which controlled release optimizes drug performance. This volume includes contributions from academics and R & D technicians alike, which cover every facet of the subject, from physiology of the gastrointestinal tract to polymer science.

2011. XIV, 414 p. (Advances in Delivery Science and Technology) Hardcover
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9 781461 410034

X. Wang, Jiangnan University, Wuxi, China, People's Republic; J. Chen, Jiangnan University School of Biotechnology, Wuxi, China, People's Republic; P. Quinn, King's College London, London, UK (Eds)

Reprogramming Microbial Metabolic Pathways

Metabolic engineering has been developed over the past 20 years to become an important tool for the rational engineering of industrial microorganisms. This book has a particular interest in the methods and applications of metabolic engineering to improve the production and yield of a variety of different metabolites. The overall goal is to achieve a better understanding of the metabolism in different microorganisms, and provide a rational basis to reprogram microorganisms for improved biochemical production.

2012. XIV, 441 p. 84 illus., 24 illus. in color. (Subcellular Biochemistry, Volume 64) Hardcover
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9 789400 750548

R. O. Williams III, University of Texas at Austin, Austin, USA; A. B. Watts, University of Texas College of Pharmacy, Austin, TX, USA; D. A. Miller, Hoffmann-La Roche, Inc., Nutley, USA (Eds)

Formulating Poorly Water Soluble Drugs

This book highlights recent advancements on technologies to improve the dissolution and bio-availability of poorly water soluble drugs. It details the most current knowledge, practical methods, and regulatory considerations.

2012. XII, 648 p. (AAPS Advances in the Pharmaceutical Sciences Series, Volume 3) Softcover
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9 781489 985927

P. Wooding, G. Burton, University of Cambridge Dept. Physiology, Cambridge, UK

Comparative Placentation

Structures, Functions and Evolution

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J. C. Wright, Los Altos, USA; D. J. Burgess, Storrs, CT, USA (Eds)

Long Acting Injections and Implants

This book surveys the field of long acting injections and implants, which improve therapy, enhance patient compliance, and enhance dosing convenience. Topics include the historical development of drugs and diseases, and clinical applications for long acting injections and implants.

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T. Yamamura, National Center of Neurology and Psychia, Tokyo, Japan; B. Gran, University of Nottingham, Nottingham, UK (Eds)

Multiple Sclerosis Immunology

A Foundation for Current and Future Treatments

This book looks at multiple sclerosis immunology as the basis for the present and—even more—the future of treatments for this complex autoimmune condition.

2013. XVII, 461 p. 46 illus., 38 illus. in color. Hardcover
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J. M. Aguilera, Pontificia Universidad Católica de Chile Dept. de Ingeniería Química y Bioproceso, Santiago, Chile; P. J. Lillford, University of York Department of Biology, Heslington, York, UK (Eds)

Food Materials Science

Principles and Practice

Food Materials Science provides the science behind structuring processes for foods and applications in food product design. The first in its field, the book is an invaluable reference. The creation of added value from raw food materials is a legitimate aspiration of the modern food industry. Adding value to foods requires knowledge of what the consumer wants and creating products that satisfy the demand. Quality, convenience and safety are the major drivers of the modern food industry.

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Topics in Current Chemistry

M. J. Krische, J.-M. Lehn, J. Thiem, K. N. Houk, C. A. Hunter, M. Venturi, M. Olivucci, H. N. Wong, C.-H. Wong, Series editors: H. Bayley, R. Luque, K. Ishihara, J. S. Siegel, G. Hughes

Volume 319

M. Albrecht, Institut für Organische Chemie, Aachen, Germany; F. E. Hahn, WWU Münster Inst. für Anorg. und Analyt. Chemie, Münster, Germany (Eds)

Chemistry of Nanocontainers

Molecular Cages and Capsules with Functionalized Inner Surfaces, by Stefan Kubik. Drug Delivery by Water-Soluble Organ metallic Cages, by Bruno Therrien. Reversibly Expanded Encapsulation Complexes, by Dariush Ajami and Julius Rebek. Container Molecules Based on Imine Type Ligands, by A. Carina Schulze und Iris M. Ooppel.

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Topics in Organometallic Chemistry

A. Fürstner, F. Glorius, P. H. Dixneuf, Series editors: M. Beller, L. A. Oro, T. Ikariya, Q.-L. Zhou, J. M. Brown, L. J. Gooßen, J. Dupont, S. Nolan, J. Okuda

Volume 42

M. Beller, Universität Rostock Leibniz-Institut für, Rostock, Germany; H.-U. Blaser, St. Gallen, Switzerland (Eds)

Organometallics as Catalysts in the Fine Chemical Industry

2012. XI, 154 p. 43 illus., 2 illus. in color. Hardcover
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R. G. Berger, Universität Hannover FB Chemie, Hannover, Germany (Ed)

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M. J. Krische, J.-M. Lehn, J. Thiem, K. N. Houk, C. A. Hunter, M. Venturi, M. Olivucci, H. N. Wong, C.-H. Wong, Series editors: H. Bayley, R. Luque, K. Ishihara, J. S. Siegel, G. Hughes

Volume 316

M. Billeter, V. Orekhov, Göteborg University, Göteborg, Sweden (Eds)

Novel Sampling Approaches in Higher Dimensional NMR

Concepts in Projection-Reconstruction, by Ray Freeman and Ěriks Kupĉe.- Automated Projection Spectroscopy and Its Applications, by Sebastian Hiller and Gerhard Wider.

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J. I. Boullata, University of Pennsylvania School of Nursing, Philadelphia, PA, USA; V. T. Armenti, Temple University Hospital Dept. Surgery, Philadelphia, PA, USA (Eds)

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This work provides a scientific look behind many drug-nutrient interactions, examines their relevance, offers recommendations, and suggests research questions to be explored. The text has been extensively revised and updated from the first edition.

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C. Boyadjiev, Bulgarian Academy of Sciences (BAS) Inst. Chemical Engineering (ICHE), Sofia, Bulgaria

Theoretical Chemical Engineering

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J.-L. Burgot, Université Rennes I Fac. Pharmacie, Rennes CX, France

Ionic Equilibria in Analytical Chemistry

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C. Cominellis, Ecole Polytech. Fed. Lausanne Dept. Chemical Engineering, Lausanne, Switzerland; G. Chen, Hong Kong University of Science and Technology, Kowloon, Hong Kong SAR (Eds)

Electrochemistry for the Environment

This book covers a wide array of electrochemistry applications to environmental problems. It includes emerging technologies such as electrophotooxidation and electro disinfection, and it also analyzes electrochemical technologies in sludge and soil treatment.

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Advances in Polymer Science

U. Wiesner, B. Voit, T. E. Long, Series editors: A. Abe, A.-C. Albertsson, G. W. Coates, M. Möller, L. Leibler, E. M. Terentjev, S. Kobayashi, K.-S. Lee, M. J. Vicent, J. Genzer, B. Z. Tang, X. Zhang, O. Okay, V. Percec

Volume 250

W. H. de Jeu, RWTH Aachen University DWI, Aachen, Germany (Ed)

Liquid Crystal Elastomers: Materials and Applications

Preparation of Liquid Crystalline Elastomers.- Applications of Liquid Crystalline Elastomers.- Liquid Crystal Elastomers and Light.- Electro-Opto-Mechanical Effects in Swollen Nematic Elastomers.- The Isotropic-to-Nematic Conversion in Liquid Crystalline Elastomers.- Order and Disorder in Liquid-Crystalline Elastomers.

2012. VII, 239 p. 115 illus., 11 illus. in color. Hardcover
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J. H. de Winde, Beyerinck Laboratory DSM Life Sciences, Delft, Netherlands (Ed)

Functional Genetics of Industrial Yeasts

In recent years, new yeast species have proven their value and novel biotechnological applications have emerged. This book compiles the multi-faceted genetic repertoire of several yeasts relevant to modern biotechnology, and describes their utilization in research and application in the light of their genetic make-up and physiological characteristics. Moreover, the book presents a thorough overview of a wide array of methodologies from classical genetics to modern genomics technologies that have been and are being used in functional analysis of yeasts.

2003. XIV, 368 p. (Topics in Current Genetics, Volume 2) Hardcover

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Topics in Current Chemistry

M. J. Krische, J.-M. Lehn, J. Thiem, K. N. Houk, C. A. Hunter, M. Venturi, M. Olivucci, H. N. Wong, C.-H. Wong, Series editors: H. Bayley, R. Luque, K. Ishihara, J. S. Siegel, G. Hughes

Volume 321

M. Drescher, University of Konstanz, Konstanz, Germany; G. Jeschke, ETH Zurich, Zurich, Switzerland (Eds)

EPR Spectroscopy

Applications in Chemistry and Biology

EPR Spectroscopy in Catalysis, by Sabine Van Doorslaer and Damien M. Murphy; Radicals in Flavoproteins, by Erik Schleicher und Stefan Weber; EPR Spectroscopy in Polymer Science, by Dariush Hinderberger.

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Topics in Current Chemistry

M. J. Krische, J.-M. Lehn, J. Thiem, K. N. Houk, C. A. Hunter, M. Venturi, M. Olivucci, H. N. Wong, C.-H. Wong, Series editors: H. Bayley, R. Luque, K. Ishihara, J. S. Siegel, G. Hughes

Volume 323

L. Fabbrizzi, University of Pavia, Pavia, Italy (Ed)

Beauty in Chemistry

Artistry in the Creation of New Molecules

The Beauty of Chemistry in the Words of Writers and in the Hands of Scientists, by Margherita Venturi, Enrico Marchi und Vincenzo Balzani Living in a Cage Is a Restricted Privilege, by Luigi Fabbrizzi Inner and Outer Beauty, by Kenneth N. Raymond und Casey J. Brown The Mechanical Bond: A Work of Art, by Carson J. Bruns.

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M. Fleischer, Siemens AG Corporate Technology, München, Germany; M. Lehmann, Innovative Sensor Technology (IST) AG, Wattwil, Switzerland (Eds)

Solid State Gas Sensors - Industrial Application

Gas sensor products are very often the key to innovations in the fields of comfort, security, health, environment, and energy savings. This compendium focuses on what the research community labels as solid state gas sensors, where a gas directly changes the electrical properties of a solid, serving as the primary signal for the transducer. It starts with a visionary approach to how life in future buildings can benefit from the power of gas sensors. The requirements for various applications, such as for example the automotive industry, are then discussed in several chapters.

2012. XII, 272 p. (Springer Series on Chemical Sensors and Biosensors, Volume 11) Hardcover

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9 783642 280924

W. Fritzsche, Institute of Photonic Technology (IPHT), Jena, Germany; J. Popp, Universität Jena, Jena, Germany (Eds)

Optical Nano- and Microsystems for Bioanalytics

This book describes the state of the art in the field of bioanalytical nano- and microsystems with optical functionality. In 12 chapters distinguished scientists and leaders in their respective fields show how various optical technologies have been miniaturized and integrated over the last few decades in order to be combined with nano- and microsystems for applications in the life sciences. The main detection and characterization technologies are introduced, and examples of the superiority of these integrated approaches compared to traditional ones are provided.

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Y. D. Gamburg, Russian Academy of Sciences A.N. Frumkin Inst., Moskva, Russia; G. Zangari, University of Virginia Dept. Materials Science & Engineering, Charlottesville, VA, USA

Theory and Practice of Metal Electrodeposition

This book offers new insight into theoretical and practical aspects of metal electrodeposition, covering selection and use of metal coatings, deposition of metals and alloys, individual peculiarities, properties and structure of coatings, controls and more.

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C. Gatti, CNR-ISTM Istit. di Scienze e Tecn. Molec. del CNR, Milano, Italy; P. Macchi, University of Bern, Bern, Switzerland (Eds)

Modern Charge-Density Analysis

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R. Gordon, Gulf Specimen Marine Laboratory, Panacea, FL, USA; J. Seckbach, The Hebrew Univ. of Jerusalem, Jerusalem, Israel (Eds)

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Phycology, Geology, Biophotonics, Genomics and Nanotechnology

This volume, The Science of Algal Fuels (volume 25 of COLE), contains 26 chapters dealing with biofuels contributed by experts from numerous countries and covers several aspects of algal products, one being "oilgae from algae," mainly oils and fuels for engines. Among the prominent algal groups that participate in this process are the diatoms and green algae (Chlorophyceae). Their metabolism and breeding play an important role in biomass and extraction of crude oil and algal fuel.

2012. XXXIII, 506 p. 168 illus., 114 illus. in color. (Cellular Origin, Life in Extreme Habitats and Astrobiology, Volume 25) Hardcover

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9 789400 751095

Advances in Polymer Science

U. Wiesner, B. Voit, T. E. Long, Series editors: A. Abe, A.-C. Albertsson, G. W. Coates, M. Möller, L. Leibler, E. M. Terentjev, S. Kobayashi, K.-S. Lee, M. J. Vicent, J. Genzer, B. Z. Tang, X. Zhang, O. Okay, V. Percec

Volume 248

M. Hakkarainen, Royal Institute of Technology (KTH), Stockholm, Sweden (Ed)

Mass Spectrometry of Polymers – New Techniques

Emerging Mass Spectrometric Tools for Analysis of Polymers and Polymer Additives, by Nina Aminlashgari and Minna Hakkarainen. Analysis of Polymer Additives and Impurities by Liquid Chromatography/Mass Spectrometry and Capillary Electrophoresis/Mass Spectrometry, by Wolfgang Buchberger and Martin Stiftinger.

2012. XII, 212 p. Hardcover

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9 783642 280405

A. C. Hoffmann, University of Bergen Dept. Physics, Bergen, Norway; L. E. Stein, Process Engineering Consultant Mechanical Separations, Houston, TX, USA

Gas Cyclones and Swirl Tubes

Principles, Design, and Operation

This book has been conceived to provide guidance on the theory and design of cyclone systems. For those new to the topic, a cyclone is, in its most basic form, a stationary mechanical device that utilizes centrifugal force to separate solid or liquid particles from a carrier gas. Gas enters near the top via a tangential or vaned inlet, which gives rise to an axially descending spiral of gas and a centrifugal force field that causes the incoming particles to concentrate along, and spiral down, the inner walls of the separator.

2nd ed. 2008. Hardcover

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9 783540 746942

A. R. Ivanov, Harvard School of Public Health, Harvard, Boston, MA, USA; A. V. Lazarev, Pressure BioSciences, Inc., South Easton, MA, USA (Eds)

Sample Preparation in Biological Mass Spectrometry

The aim of this book is to provide the researcher with important sample preparation strategies in a wide variety of analyte molecules, specimens, methods, and biological applications requiring mass spectrometric analysis as a detection endpoint.

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K. K. Jain, Jain PharmaBiotech, Basel, Switzerland

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9 781617 998222

Advances in Polymer Science

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Volume 246

R. Jayakumar, S. Nair, Amrita Center for Nanosciences and Molecular Medicine, Cochin, India (Eds)

Biomedical Applications of Polymeric Nanofibers

Multiscale Fibrous Scaffolds in Regenerative Medicine, by Sowmya Srinivasan, R. Jayakumar, K. P. Chennazhi, Erica J. Leverson, Antonios G. Mikos and Shantikumar V. Nair; Stem Cells and Nanostructures for Advanced Tissue Regeneration, by Molamma P. Prabhakaran.

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S. Kalia, Bahra University Dept. of Chemistry, Himachal Pradesh, India; B. S. Kaith, Dr B.R. Ambedkar National Institute of Technology Jalandhar (NITJ), Jalandhar, India; I. Kaur, Himachal Pradesh University Department of Chemistry, Shimla, India (Eds)

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Volume 290

B. Kirchner, Universität Leipzig Wilhelm-Oswald Institut für, Leipzig, Germany (Ed)

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Volume 247

S. Kunugi, Kyoto Institute of Technology Dept. of Polymer Science and Engineering, Kyoto, Japan; T. Yamaoka, National Cerebral and Cardiovascular Cen Department of Biomedical Engineering, Osaka, Japan (Eds)

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Volume 314

N. Matsuo, Dainihon Jochugiku Co. Ltd., Osaka, Japan; T. Mori, Sumitomo Chemical Co.Ltd., Takarazuka-city, Japan (Eds)

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Volume 142

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C. Tschierske, Martin-Luther-University Halle-Wittenber, Halle/Saale, Germany (Ed)

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J. A. Ortigao, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil; A. Sayao, Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio), Rio de Janeiro, Brazil (Eds)

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S. Singh, R. D. Tripathi, National Botanical Research Inst. (NBRI) Environmental Science Division, Lucknow, India (Eds)

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C. C. Konijnendijk, Woodscape Consult, Dragoer, Denmark; K. Nilsson, Danish Forest & Landscape Research Institute, Hoersholm, Denmark; T. B. Randrup, Danish Forest & Landscape Res. Inst. Danish Centre for Forest, Hoersholm, Denmark; J. Schipperijn, Skov & Landskab Danish Centre for Forest, Frederiksberg C, Denmark (Eds)

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9 781607 618591

H. S. Bernstein, UCSF, Cardiovascular Research Institute Eli and Edythe Broad Center of Regenerat, San Francisco, USA (Ed)

Tissue Engineering in Regenerative Medicine

This volume provides a state-of-the-art report on tissue engineering toward the goals of tissue and organ restoration and regeneration. It uses examples from different organ systems to illustrate progress with growth factors to assist in tissue remodeling.

2011. XIV, 426 p. (Stem Cell Biology and Regenerative Medicine) Hardcover

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9 781617 793219

E. Buxbaum, Ross University School of Medicine, Roseau, Dominica

Biophysical Chemistry of Proteins

An Introduction to Laboratory Methods

This comprehensive and clearly structured text begins with an overview of analytical techniques and moves on to discuss the full range of relevant issues, from purification of proteins and their modification to enzyme kinetics and laboratory quality control.

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▶ *€ (D) 80,25 | € (A) 82,50 | sFr 100,00



9 781441 972507

L. G. Chase, Cellular Dynamics International, Inc., Madison, WI, USA; M. C. Vemuri, Life Technologies, Frederick, MD, USA (Eds)

Mesenchymal Stem Cell Therapy

This book collects the latest research mesenchymal stem cells (MSCs), which appear to hold great promise in the quest to develop regenerative cell-based therapy. Conveys a clear understanding of current progress in translation of MSCs from bench to bedside.

2013. XII, 453 p. 32 illus., 20 illus. in color. (Stem Cell Biology and Regenerative Medicine) Hardcover

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9 781627 031998

M. Breitenbach, University of Salzburg, Salzburg, Austria; S. M. Jazwinski, Tulane University Health Sciences Center, New Orleans, LA, USA; P. Laun, University of Salzburg, Salzburg, Austria (Eds)

Aging Research in Yeast

Collecting current research on yeast aging, this book covers mitochondrial theories of aging, emphasizing oxidative stress and retrograde responses; autophagy and mitophagy; the relationship of apoptosis to aging processes; replication stress and more.

2012. XII, 368 p. (Subcellular Biochemistry, Volume 57) Hardcover

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9 789400 725607

C. Chalfant, Virginia Commonwealth University, Richmond, USA; M. Del Poeta, Medical University of South Carolina, Charleston, SC, USA (Eds)

Sphingolipids as Signaling and Regulatory Molecules

This book examines the latest discoveries in sphingolipid biology and how the alteration of their metabolism leads to altered signaling events and to the development of pathobiological disorders, such as cancer, cardiovascular diseases, asthma and diabetes.

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9 781441 967404

M. K. Danquah, Chicago State University Pharmaceutical Sciences, Chicago, IL, USA; R. I. Mahato, University of Tennessee Health Science Center, Memphis, TN, USA (Eds)

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9 781627 034166

W. de Souza, Universidade Federal do Rio de Janeiro Inst. Biofísica Carlos Chagas Filho, Rio de Janeiro, Brazil (Ed)

Structures and Organelles in Pathogenic Protists

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9 783642 128622

R. Dilson J.E, McGill University, Montreal, QC, Canada (Ed)

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9 781441 963659

D. Favareau, National University of Singapore University Scholar Programme, Singapore, Singapore

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T. Decker, M. Müller, University of Vienna, Vienna, Austria (Eds)

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9 783709 108901

P. J. Fairchild, Oxford, UK (Ed)

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P. Hematti, University of Wisconsin Madison School of Medicine and Public He, Madison, USA; A. Keating, University of Toronto Princess Margaret Hospital, Toronto, ON, Canada (Eds)

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9 781461 457107

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T. Jue, University of California, Davis Dept. Biochemistry & Molecular Medicine, Davis, CA, USA (Ed)

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The first two chapters in this book establish the mathematical methods and theoretical framework underpinning the topics in the rest of the book. Subsequent chapters then discuss the concepts and biological application of each topic it covers.

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9 781603 272322

A. Markoš, F. Grygar, L. Hajnal, K. Kleisner, Z. Kratochvíl, Z. Neubauer, Charles University Fac. Sciences, Praha 2, Czech Republic

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D. Johnson, University of Pittsburgh Division of Hematology/Oncology, Pittsburgh, PA, USA (Ed)

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J. M. Lord, M. R. Hartley, University of Warwick Dept. Biological Sciences, Coventry, UK (Eds)

Toxic Plant Proteins

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H. Mehlhorn, Heinrich Heine University Department of Zoomorphology, Düsseldorf, Germany (Ed)

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E. Meshorer, The Hebrew University of Jerusalem, Jerusalem, Israel; K. Plath, UCLA School of Medicine, Los Angeles, USA (Eds)

The Cell Biology of Stem Cells

The Cell Biology of Stem Cells discusses multiple aspects of stem cell biology, ranging from the basic molecular characteristics to the in vivo stem cell trafficking of adult stem cells. The cell biology of stem cells is discussed, in addition to the questions that still remain.

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M. Numan, T. R. Insel

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2003. IX, 418 p. (Hormones, Brain, and Behavior, 1) Hardcover

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9 780387 004983

K. E. Nelson, J. Craig Venter Institute (JCVI), Rockville, MD, USA (Ed)

Metagenomics of the Human Body

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R. L. Price, University of South Carolina School of Medicine, Columbia, SC, USA; W. G. Jerome, Vanderbilt University Medical Center, Nashville, TN, USA (Eds)

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A. Querol, CSIC Instituto de Agroquímica y Burjasot, Spain; G. H. Fleet, University of New South Wales School of Chemical Sciences, Sydney, NSW, Australia (Eds)

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2006. VIII, 453 p. (The Yeast Handbook) Hardcover

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M. Rojas, Emory University Dept. Medicine, Atlanta, GA, USA (Ed)

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H. Schatten, University of Missouri-Columbia Dept. Veterinary Pathobiology, Columbia, MO, USA (Ed)

Cell and Molecular Biology of Breast Cancer

Highlighting recent advances in our understanding of breast cancer, this book is intended for a wide audience as a reference book. Included are reviews of genetics, epigenetics, various aspects of cell and molecular biology, and several other areas of breast cancer that are aimed at determining new intervention sites for treatments and cures of the disease. The chapters are written by internationally recognized experts and include reviews of key topics in breast cancer research. Each chapter highlights the new aspects of specific research topics and the various impacts of designing new strategies as well as identifies new targets for therapeutic intervention.

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J. Seckbach, The Hebrew Univ. of Jerusalem, Jerusalem, Israel; P. Kociolek, University of Colorado Museum of Natural, Boulder, CO, USA (Eds)

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A. Sigel, H. Sigel, Universität Basel Inorganic Chemistry, Basel, Switzerland; R. K. Sigel, Universität Zürich Organisch-Chemisches Institut, Zürich, Switzerland (Eds)

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A. K. Srivastava, National Research Centre for Citrus, Nagpur, India (Ed)

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9 783642 291098

J. Vollmann, Universität für Bodenkultur Wien
Inst. Pflanzenbau und Pflanzenzüchtung, Wien,
Austria; I. Rajcan, University of Guelph Dept. Plant
Agriculture, Guelph, ON, Canada (Eds)

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9 781603 274746

R. Wong, Branan Medical Corporation, Irvine, CA,
USA; H. Tse, Wayne State University School of
Medicine, Detroit, MI, USA (Eds)

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G. Witzany, Telos - Philosophische Praxis, Bürmoos,
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Advanced Ceramic Technologies & Products describes the development, materials, and manufacturing processes for various ceramic products. The text focuses on the products themselves, and tries to clarify how ceramics have contributed to our lives.

2012. XV, 585 p. 533 illus., 397 illus. in color.
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Aerogels Handbook

This book summarizes the state of development and processing of inorganic, organic and composite aerogels, including important characterization techniques, an overview of aerogel materials, processing, physical and chemical properties, and latest uses.

2011. XXXI, 932p. (Advances in Sol-Gel Derived Materials and Technologies) Hardcover
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M. A. Aegerter, Résidence Vert-Pré, Bottens, Switzerland; M. Mennig, Universität des Saarlandes Leibniz-Inst. für Neue Materialien gGmbH, Saarbrücken, Germany (Eds)

Sol-Gel Technologies for Glass Producers and Users

Sol-Gel Techniques for Glass Producers and Users provides technological information, descriptions and characterizations of prototypes, or products already on the market, and illustrates advantages and disadvantages of the sol-gel process in comparison to other methods. The first chapter entitled "Wet Chemical Technology" gives a summary of the basic principles of the sol-gel chemistry. The most promising applications are related to coatings. Chapter 2 describes the various "Wet Chemical Coating Technologies" from glass cleaning to many deposition and post-coating treatment techniques.

2004. XX, 493 p. Hardcover
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N. P. Bansal, NASA Glenn Research Center, Cleveland, OH, USA (Ed)

Handbook of Ceramic Composites

Ceramic matrix composites (CMCs) are at the forefront of advanced materials technology because of their light weight, high strength and toughness, high temperature capabilities, and graceful failure under loading. During the last 25 years, tremendous progress has been made in the development and advancement of CMCs under various research programs funded by the U.S. Government agencies: National Aeronautics and Space Administration (NASA), Department of Defense (DoD), and Department of Energy (DOE). Ceramic composites are considered as enabling technology for advanced aeropropulsion, space propulsion, space power, aerospace vehicles, and space structures.

2005. X, 554 p. Hardcover
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K. M. Becker, J. J. Whyte (Eds)

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The original edition of this text, Clinical Evaluation of Medical Devices: Principles and Case Studies, provided the first overview of key principles and approaches to medical device clinical trials, illustrated with a series of detailed, real-world case studies. The book is designed as a resource for clinical professionals and regulatory specialists working in the field of new medical device development and marketing. Since the first edition of this text was published in 1997, the rapid pace of innovation in health care technologies continues to yield exciting and important new products. The regulatory landscape has also evolved, reflecting some of the changes and needs within the medical device industry.

2nd ed. 2006. 360p. 53 illus.. Hardcover
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Scanning Probe Microscopy in Nanoscience and Nanotechnology

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9 783642 035340

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Scanning Probe Microscopy in Nanoscience and Nanotechnology 2

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2011. XXVI, 710p. 200 illus.. (NanoScience and Technology) Hardcover

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P. Boisseau, CEA LETI-MINATEC, Grenoble CX 9, France; M. Lahmani, Université d'Evry Dépt. Sciences des Matériaux, Evry CX, France (Eds)

Nanoscience

Nanobiotechnology and Nanobiology

Nanobiotechnology is a rapidly developing field of research. This book covers major developments in nanobiophysics, nanobiology, and nanomethods in medicine. It presents the basics, fundamental results and latest achievements of nanobiotechnology research.

2009. XXXVIII, 1202 p. 631 illus. Hardcover

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V. Bucur, INRA Ctr. de Recherches Forestières de Nancy, Champenoux, France

Nondestructive Characterization and Imaging of Wood

This book on the Nondestructive Characterization and Imaging of Wood by Professor Voichita Bucur is truly the most outstanding reference on the subject ever written. Since the origins of mankind, wood has played a key role in the history of humans and other living creatures, ranging from provision of life from trees giving air, heat, light, and food to nourish their bodies to structures to protect them from the elements. Wood has also played a key role in one of the world's primary religions.

2003. XIV, 354 p. (Springer Series in Wood Science) Hardcover

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2nd ed. 2002. XVII, 441 p. Hardcover

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M. Durand-Charre, Meylan, France

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The book comprises three parts. Part 1 gives a historical description of the development of iron-working techniques since the earliest times. Part 2 is the core of the book and deals with the metallurgical basis of microstructures, with four main themes: phase diagrams, solidification processes, diffusion, and solid state phase transformations. Part 3 begins by an introduction to steel design principles. It then goes on to consider the different categories of steels, placing emphasis on their specific microstructural features. Finally, a comprehensive reference list includes several hundred pertinent articles and books. The book is the work of a single author, thus ensuring uniformity and concision.

2004. XII, 406 p. (Engineering Materials and Processes) Hardcover
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C. S. Kumar, Center for Advanced Microstructures and, Baton Rouge, LA, USA (Ed)

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G. Lütjering, TU Hamburg-Harburg Studiendekanat Maschinenbau, Hamburg, Germany; J. C. Williams, Ohio State University Dept. Materials Science &, Columbus, OH, USA

Titanium

When the authors were asked to prepare a Second Edition of the book Titanium the first question was timing. It was agreed that the new edition should be ready for the 11th World Conference of Titanium (Ti-2007) in Kyoto. This is four years after the First Edition was presented at the Ti-2003 conference in Hamburg. Further, the authors decided to keep the structure and content of the First Edition completely unchanged with the exception of correcting a few obvious mistakes. The Preface to the First Edition describes the motivation and intent of the book. These also remain unchanged for the Second Edition.

2nd ed. 2007. XII, 442 p. (Engineering Materials and Processes) Hardcover

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P. Menezes, M. Nosonovsky, University of Wisconsin, Milwaukee, WI, USA; S. P. Ingole, Texas A&M University, Galveston, TX, USA; S. V. Kailas, Indian Institute of Science, Bangalore, India; M. R. Lovell, University of Wisconsin, Milwaukee, WI, USA (Eds)

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Electronic, Optical, Magnetic and Biomedical Applications

This book covers the latest advances in polymer-inorganic nanocomposites, with particular focus on high-added-value applications in fields including electronics, optics, magnetism and biotechnology. The unique focus of this book is on electronic, optical, magnetic and biomedical applications of hybrid nanocomposites.

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W. Mönch, Universität Duisburg-Essen FB 10 Lab. Festkörperphysik, Duisburg, Germany

Electronic Properties of Semiconductor Interfaces

Using the continuum of interface-induced gap states (IFIGS) as a unifying theme, Mönch explains the band-structure lineup at all types of semiconductor interfaces. These intrinsic FIGS are the wave-function tails of electron states, which overlap a semiconductor band-gap exactly at the interface, so they originate from the quantum-mechanical tunnel effect. He shows that a more chemical view relates the FIGS to the partial ionic character of the covalent interface-bonds and that the charge transfer across the interface may be modeled by generalizing Pauling's electro-negativity concept.

2004. XI, 264 p. (Springer Series in Surface Sciences, Volume 43) Hardcover
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M. Oliver (Ed)

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S. Rahman, Université Lille III UFR de Philosophie, Villeneuve d'Ascq, France; J. Symons, University of Texas at El Paso Department of Philosophy, El Paso, TX, USA; D. M. Gabbay, King's College London Dept. Computer Science, London, UK; J. P. van Bendegem, Brussels University Ctr. Logic & Philosophy of Science, Bruxelles, Belgium (Eds)

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Volume 251

A. Abe, Yokohama, Japan; H.-H. Kausch, Cully, Switzerland; M. Möller, RWTH Aachen DWI, Aachen, Germany; H. Pasch, University of Stellenbosch Department of Chemistry and Polymer Science, Stellenbosch, South Africa (Eds)

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D. W. Bäuerle, Universität Linz Inst. Angewandte Physik, Linz, Austria

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9 783642 176128

T. M. Deserno, RWTH Aachen Inst. Medizinische Informatik, Aachen, Germany (Ed)

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9 781461 436577

P. Hinterdorfer, Universität Linz Institut für Biophysik, Linz, Austria; A. van Oijen, Harvard University Harvard Medical School, Boston, MA, USA (Eds)

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K. Kneipp, Harvard University Harvard Medical School, Boston, MA, USA; M. Moskovits, University of California, Santa Barbara College of Letters & Science, Santa Barbara, CA, USA; H. Kneipp, Harvard University Harvard Medical School, Boston, MA, USA (Eds)

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W. Koechner, Round Hill, VI, USA

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9 783540 206781

C. Lacroix, CNRS Laboratoire Louis Néel, Grenoble CX, France; P. Mendels, Université Paris-Sud XI CNRS, Orsay CX, France; F. Mila, Ecole Polytechnique Fédérale de Lausanne Inst. Physique Théorique, Lausanne, Switzerland (Eds)

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A. Lebed, University of Arizona Department of Physics, Tucson, AZ, USA (Ed)

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2008. XXIV, 754 p. (Springer Series in Materials Science, Volume 110) Hardcover

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U. Linz, Forschungszentrum Jülich, Jülich, Germany (Ed)

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G. Liu, Argonne National Laboratory Chemistry Division, Argonne, IL, USA; B. Jacquier, Université Lyon 1, Villeurbanne CX, France (Eds)

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A. V. Narlikar, Inter University Consortium for DAE Facilities, Indore, India (Ed)

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I. Parinov, Southern Federal University Vorovich Mechanics and, Rostov-on-Don, Russia

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Reviewing the latest research, this book covers optimized preparation techniques and superconducting compositions. Places special focus on the Bi-Sr-Ca-Cu-O and Y-Ba-Cu-O families, which offer promising applications. Includes many illustrations and references.

2nd ed. 2012. XXI, 779 p. 379 illus. Hardcover

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P. Schaaf, TU Ilmenau Institut für Werkstofftechnik und, Ilmenau, Germany (Ed)

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J. Sólyom, Eötvös Loránd University, Budapest, Hungary

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Translated by: A. Piróth

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U. Schumann, Deutsches Zentrum fuer Luft- und Raumfahrt, Oberpfaffenhofen, Germany (Ed)

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J. Sólyom, Eötvös Loránd University, Budapest, Hungary

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Volume II: Electronic Properties

Translated by: A. Piróth, Bordeaux, France

The second of a three-volume series that aims to deliver a comprehensive account of the vast field of solid-state physics, this book goes far beyond most classic texts in the presentation of the properties of solids and experimentally observed phenomena.

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O. Ueda, Kanazawa Institute of Technology, Tokyo, Japan; S. J. Pearton, University of Florida, Gainesville, FL, USA (Eds)

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D. Vij, Kurukshetra University, Kurukshetra, India (Ed)

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S. Volz, Laboratoire d'Energétique Moléculaire et Macroscopique, Châtenay Malabry, France (Ed)

Microscale and Nanoscale Heat Transfer

In collaboration with: R. Carminati, P. Chantrenne, S. Dilhaire, S. Gomez, IIMAS UNAM Apdo. Postal 20-726, Mexico, Mexico; N. Trannoy, G. Tessier

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A. D. Yablon

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2005. XIV, 308 p. (Springer Series in Optical Sciences, Volume 103) Hardcover

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9 783540 231042

H. Zabel, Ruhr-Universität Bochum, Bochum, Germany; M. Farle, University Duisburg-Essen, Duisburg, Germany (Eds)

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J. Valsiner, Clark University Dept. Psychology, Worcester, MA, USA; P. C. Molenaar, Pennsylvania State University Dept. Human Development & University Park, PA, USA; M. C. Lyra, Universidade Federal de Pernambuco Centro de Filosofia e Ciências Humanas, Recife, Brazil; N. Chaudhary, University of Delhi Lady Irwin College, New Delhi, India (Eds)

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H. Gruber, K. Bödeker (Eds)

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