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Saliva is a complex fluid that maintains oral health and has many physiological functions. It is a noninvasive diagnostic fluid as well. Lately, salivary diagnostics has proven its potential to reach clinical practice in the near future for the early detection, diagnosis, and monitoring of various diseases. Salivary Glands - New Approaches in Diagnostics and Treatment is a comprehensive reference, which brings together information on salivary secretion and its disorders, the novel salivary diagnostic methods for numerous diseases, and new techniques in the treatment of salivary diseases. This book contains information for a diverse audience, including dentists, oral biologists, experimental biologists, molecular biologists, oncologists, radiologists, oral and maxillofacial surgeons, and otorhinolaryngologists.

Understanding Obesity informs readers about contributing factors to obesity: from social and behavioral determinants throughout the life course, influences from before we are born to what we eat (nutrients and food contaminants which impact body weight), gut bacteria, and the way accumulated energy from nutrition is spent. Chapters will also inform readers about adipose tissue (the dynamic role of the adipose tissue during obesity development, the pressure put on to its remodeling and differences in obesity phenotypes regarding association with pathological outcomes as well as the latest advances in finding biological markers of adipose tissue dysfunction) and the latest treatment options for obesity. Special topics, such as the bidirectional relationship of stress with obesity and the influence of aging on the onset of metabolic disorders that lead to obesity are also discussed. Understanding Obesity is a valuable reference for health researchers, practitioners (endocrinologists, family physicians, nurses), as well as decision-makers in healthcare and other professional settings who are seeking a holistic understanding about the causes of obesity and ways to address it. Key Features: - 17 chapters cover obesity from a diverse range of perspectives - medical information is presented (adipose physiology and different disease conditions relevant to obesity) - educational, social and psychological issues as central when caring for obesity patients are emphasized - the latest information on obesity treatment options (including medical, pharmaceutical and surgical options) is included - bibliographic references have been provided for further reading

Cognitive Aging: The Role of Nutrition

Side Effects of Drugs Annual

Impact of System Biology and Molecular Medicine on the Management of Complex Immune Mediated Respiratory Diseases

Public Health Service Policy on Humane Care and Use of Laboratory Animals

A Worldwide Yearly Survey of New Data in Adverse Drug Reactions

This book provides readers with an up-to-date and comprehensive view on the resolution of inflammation and on new developments in this area, including pro-resolution mediators, apoptosis, macrophage clearance of apoptotic cells, possible novel drug developments.

This volume reviews the evidence for a causal link between sexually transmitted infection with human papillomavirus (HPV) and the occurrence of cervical cancer, from a variety of different angles. Epidemiological studies and clinical, pathological, and cytological aspects of HPV infection are reviewed. Modern methods for analyzing HPV-DNA types by molecular biological techniques are described, and the statistical problems to be overcome in epidemiological work are explained. The volume was prepared by a broad team of experts from around the world, who met in Copenhagen in March 1988 to reach a consensus on the present state of understanding and to establish directions for future work.

Encyclopedia of Cancer

A Clinical and Translational Update

Pharmacoeigenetics

Advances in Pancreatic Cancer

Long Non-Coding RNAs in Cancer

This volume presents techniques needed for the study of long non-coding RNAs (lncRNAs) in cancer from their identification to functional characterization. Chapters guide readers through identification of lncRNA expression signatures in cancer tissue or liquid biopsies by RNAseq, single Cell RNAseq, Phospho RNAseq or Nanopore Sequencing techniques; validation of lncRNA signatures by Real time PCR, digital PCR or in situ hybridization; and functional analysis by siRNA or CRISPR based methods for lncRNA silencing or overexpression. Lipid based nanoparticles for delivery of siRNAs in vivo, lncRNA-protein interactions, viral lncRNAs and circRNAs are also treated in this volume. Written in the format of the highly successful Methods in Molecular Biology series, each chapter includes an introduction to the topic, lists necessary materials and reagents, includes tips on troubleshooting and known pitfalls, and step-by-step, readily reproducible protocols. Authoritative and practical, Long Non-Coding RNAs in Cancer aims to provide a collection of laboratory protocols, bioinformatic pipelines, and review chapters to further research in this vital field. .

Side Effects of Drugs Annual: A Worldwide Yearly Survey of New Data in Adverse Drug Reactions, Volume 40, first published in 1977, and continually published as a yearly update to the voluminous encyclopedia Meyler’s Side Effects of Drugs, presents clinicians and medical investigators with a reliable and critical survey of new data and trends in the area of adverse drug reactions and interactions, with an international team of specialists contributing each year. Topics covered in this release include Central Nervous System Stimulants and Drugs that Suppress Appetite, Antidepressant Drugs, Lithium, Drugs of abuse, Hypnotics and sedatives, Antipsychotic Drugs, and much more. Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical on the side effects of drugs for practitioners and healthcare professionals alike

Testicular Cancer: New Insights on the Origin, Genetics, Treatment, Fertility, General Health, Quality of Life and Sexual Function

Tumor Microenvironment: Molecular Mechanisms and Signaling Pathways Involved in Metastatic Progression

Salivary Glands

The Resolution of Inflammation

Current Trends in Cancer Management

Pancreatic cancer is a growing source of cancer-related death and has poor survival rates, which have not improved in the last few decades. Its high-mortality rate is attributed to pancreatic cancer biology, difficulty in early diagnosis, and lack of standardized international guidelines in assessing the pancreatic masses. This book aims to provide an update in the current state of play in pancreatic cancer diagnosis and to evaluate the benefits and limitations of the available diagnostic technology and therapy. The main modalities for diagnosis are imaging with HCT, MRI, USE, and PET. Some chapters review the improvements in the techniques used. Timely and accurate diagnosis of pancreatic cancer can lead to improve in the current poor outcome of this disease.

Immunological Surveillance

Emerging Therapies for Malignant Mesothelioma

Recent Advances in Pheochromocytoma and Paraganglioma: Molecular Pathogenesis, Clinical Impacts, and Therapeutic Perspective

Immune Checkpoint Molecules and Cancer Immunotherapy

From Pathogenesis to Treatment

Immunological Surveillance

The third edition is a comprehensive and updated overview of positive and negative effects of UV-exposure, with a focus on Vitamin D and skin cancer. Researchers, oncologists, and students will be provided with the most significant and timely information related to topics such as the epidemiology of skin cancer, the immune system and skin cancer, ultraviolet damage, DNA repair and Vitamin D in Nonmelanoma skin cancer and malignant melanoma. There have been a number of new, scientific findings in this fast moving field that necessitated a thoroughly updated and revised edition including new Vitamin D metabolites and skin cancer, new findings on the beneficial effects of UV and solar UV and skin cancer, adverse effects of sun protection and sunscreens, sun exposure and mortality, and more. The book will summarize essential, up-to-date information for every clinician or scientist interested in how to balance the positive and negative effects of UV exposure to minimize the risks of developing vitamin D deficiency and skin cancer.

This book brings together experts in the field of maxillofacial and head and neck oncology to provide a comprehensive clinical and translational update on oral cancer that focuses especially on prognosis. Readers will find up-to-date information on disease staging and the pathological, genetic, and surgical factors that affect patient outcomes. Individual chapters describe the most recent advances in radiotherapy, chemotherapy, and immunotherapy, again with careful analysis of the treatment-related factors relevant to response and survival. Management of premalignant lesions and risk factors for malignant transformation are discussed, and the latest knowledge on chemoprevention is presented. Further topics to be addressed include reconstruction of oral cancer defects, salvage options in the event of recurrence, and the prediction of quality of life following treatment. The book will be of value to all clinicians who care for patients with oral cancer in their everyday practice.

New Approaches in Diagnostics and Treatment

Current State and Recent Updates

Targeting the PD-1/PD-L1 Cancer Immune Evasion Axis: Challenges and Emerging Strategies

Kidney Transplantation and Innate Immunity

Ovarian Cancer

The field of cancer diagnosis, prognosis, and treatment is constantly advancing. From novel biomarkers to cutting-edge imaging solutions, changing chemotherapy protocols and novel immune-targeting agents, medical teams develop and test new ways to manage this ever-growing threat to the modern age. Imaging has been a reliable method for initial diagnosis and later surveillance of premalignant and cancerous lesions of the digestive tract. This book project aims to characterize the main diagnostic procedures and novel medical and surgical treatments, as well as provide an updated view on current guidelines, premalignant lesions management, and minimally invasive curative techniques.

Medical Epigenetics, Second Edition provides a comprehensive analysis of epigenetics in health management, across a broad spectrum of disease categories and specialties, and with a focus on human systems, epigenetic diseases that affect these systems, and evolving modes of epigenetic-based treatment. Here, more than 40 leading researchers examine how each human system is affected by epigenetic maladies, offering an all-in-one resource on medical epigenetics not only for those directly involved with health care, but investigators in life sciences, biotech companies, graduate students, and others who are interested in applied aspects of epigenetics. Incorporating both diagnostic and prognostic epigenetic approaches, this volume also fully supports the application of epigenetics in precision medicine. This second edition of Medical Epigenetics, a volume in the Translational Epigenetics series, has been fully revised to address recent advances in disease epigenetics and role of epigenetics in precision medicine, with all-new chapters on skin cancer epigenetics, network analysis in medical epigenetics, machine learning in epigenetic diseases, and clinical trials of epigenetics drugs. Features chapters from leading researchers and clinicians dedicated to the burgeoning role of epigenetics in medical practice Covers emerging topics, including twin epigenetics, as well as epigenetics of gastrointestinal disease, muscle disorders, endocrine disorders, ocular medicine, pediatric diseases, sports medicine, noncoding RNA therapeutics, pain management and regenerative medicine Organized from system disorders to multi-system disorders that involve epigenetic aberrations Examines the role of epigenetics in precision medicine

Understanding Obesity: From its Causes to Impact on Life

Impact of Cancer Plasticity on Drug Resistance and Treatment in Solid Tumors

The Translational and Therapeutic Potential of the Tumor Microenvironment in Oral Cancer

Sunlight, Vitamin D and Skin Cancer

Celebrating the Diversity of Genetic Research to Dissect the Pathogenesis of Parkinson’s Disease

Neuroblastoma (NBL) is the most common extracranial solid tumor of childhood, with about 700 new cases of neuroblastoma seen each year in the United States. The 5-year survival rate for children with high-risk NBL is only 50-60%, and this survival rate has not improved over the last 10 years. High-risk patients receive multimodality treatment, including chemotherapy, surgery, radiation therapy, biologic therapy and immunotherapy, all of which are associated with significant morbidity. Recent years have seen many advances in treatment of neuroblastoma, including therapeutic MIBG, immunotherapy, and personalized targeted therapy based on the genetic alterations seen in the tumor. The primary objective of this book is to provide the readers with a comprehensive review of neuroblastoma, from clinical aspects and the currently available treatment to recent advancements and future directions in the field of NBL treatment. The topics and chapters have been compiled keeping in mind a diverse group of readers in different areas of specialty such as pediatric oncology, surgery, radiation oncology, and immunology, as well as physician scientists and basic researchers working in the field of neuroblastoma.

Pharmacoeigenetics. Volume Eleven provides a comprehensive volume on the role of epigenetics and epigenomics in drug discovery and development, providing a detailed, but accessible, view of the field, from basic principles, to applications in disease therapeutics. Leading international researchers from across academia, clinical settings and the pharmaceutical industry discuss the influence of epigenetics and epigenomics in human pathology, epigenetic biomarkers for disease prediction, diagnosis, and treatment, current epigenetic drugs, and the application of epigenetic procedures in drug development. Throughout the book, chapter authors offer a balanced and objective discussion of the future of pharmacoeigenetics and its crucial contribution to the growth of precision and personalized medicine. Fully examines the influence of epigenetics and epigenomics in human pathology, epigenetic biomarkers for disease prediction, diagnosis, treatment, current epigenetic drugs and the application of epigenetic procedures in drug development Features chapter contributions from leading international researchers in academia, clinical settings and the pharmaceutical industry Instructs researchers, students and clinicians on how to better interpret and employ pharmacoeigenetics in drug development, efficiency and safety Provides a balanced and objective discussion of the future of pharmacoeigenetics and its crucial role in precision medicine

The Impact of Tumor Extracellular Matrix Cross-Talk on Cancer Hallmarks

The Role of Chemoattractants in the Tumor Microenvironment

Hair Bundles - Development, Maintenance, and Function

Genetic and Epigenetic Control on Immune Responses Regulating Molecules in Cancer Development, Progression, and Treatment

Medical Epigenetics

Encyclopedia of CancerImproving Outcomes in Oral CancerA Clinical and Translational UpdateSpringer Nature

Ovarian cancer management is a rapidly changing field with new treatment agents available as a result of a greater understanding of the pathogenesis of this disease. In addition, both surgical and chemotherapeutic treatment strategies are evolving to maximise response in this disease. This book brings together leading specialists from around the world to discuss and outline a variety of new concepts in ovarian cancer, ranging from molecular biology and genetics through screening to both surgical and chemotherapeutic management.

Impact of Circulating Tumor DNA (ctDNA) in Patients with Gastrointestinal Malignancies

Hypercalcemia of Malignancy

Breast Disease

Comorbidities in Psoriatic Arthritis and their Impact on Therapeutic Strategies

Diagnosis and Pathology, Volume 1

This first of two fully updated volumes provides an in-depth account of breast disease characteristics, imaging and diagnosis. Covering from breast anatomy and tumor biology to benign and malignant lesions this is an indispensable companion for breast specialists, medical oncologists, radiologists and pathologists. The new edition contains chapters covering nuclear medicine and a chapter explaining biostatistical and epidemiological terms and has been updated to reflect the latest changes in biomarkers and cancer staging. The book explores topics such as epidemiology, risk factors, pathological evaluation of tumors and biopsy techniques. With a high number of colored illustrations and edited by highly experienced clinicians, this work enables readers to gain an interdisciplinary perspective on breast diseases. Contributions from an international team of experts present invaluable insight into pathological and epidemiological aspects of breast disease. Covering both theoretical and practical aspects of breast cancer this is a highly informative and carefully presented book which will appeal to an international audience of breast cancer practitioners.

Hypercalcemia is the most common life-threatening metabolic disorder associated with cancer. The pathophysiological, epidemiological and clinical aspects of hypercalcemia of malignancy are presented in this issue, with a focus on the recently discovered humoral factor responsible for the development of hypercalcemia. With a better understanding of the pathophysiology of this condition and the development of new potent drugs, capable of inhibiting bone resorption, especially bisphosphonates, the clinician will be more successful in correcting hypercalcemia in the great majority of patients.

Improving Outcomes in Oral Cancer

Recent Developments in Therapies and Diagnostic Tools for Melanoma and Non-melanoma Skin Cancer

SIRT Family in Endocrinology

Human Papillomavirus and Cervical Cancer

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Neuroblastoma

Advances in Biological Understanding of Tumor Radiation Resistance