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Abdulhameed Sabu,Anu Augustine



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Basic Principles and Practices in Analytical Techniques Radhika Chelamalla, 2019-11-30 The present textbook serves the practical requirements of the analysts This context is mostly helpful for converting theory to practical knowledge The product quality can be improved all along during manufacturing or in process time i e initially from the raw material to the finished product during this process the frequent analysis is needed due to which the analytical role has been increased For this high skilled analysts like those who have proper analytical knowledge are required I am sure that it can be attained by knowing about the analytical methodologies mentioned in this handbook In recent days it is easy to gain the theoretical knowledge through a number of books and suggestions from teachers but it is little bit hard to apply the same in developing the analytical methodologies which has a prominent role in the development of newer drugs and regular analysis The book stands as a firm support to carry out Good Laboratory Practices as it holds the matter about standard operating procedures as well as the calibration of various equipment Details about instrumentation and chemical analysis principles are not covered but this contains methodologies which are helpful for the analysis of different dosage forms The context is provided in simple language and is also explained by appropriate diagrams wherever needed This book will be accepted by the students and also teachers of pharmacy Hope this brings special interest not only in the subject but also in the field of analysis Additionally it also serves to the postgraduates researchers and also analytical chemists in various departments of pharmacy

Prospects in Bioscience: Addressing the Issues Abdulhameed Sabu, Anu Augustine, 2013-01-11 The book entitled Prospects in Bioscience Addressing the issues is a collection of selected research papers presented at the International Conference on Advances in Biological Sciences ICABS organized by the Department of Biotechnology and Microbiology and the Inter University Centre for Bioscience Kannur University Kerala India ICABS witnessed a unique spectrum of Scientific Programmes on the most recent and exciting developments in modern biology The conference displayed the numerous breakthroughs and significant developments in the important areas of modern biology and their relevance to the welfare of global society The Book contains 50 well written chapters each one discussing scientifically organized findings of original research work done in reputed laboratories Needless to say they deal with advances in various disciplines of modern biology including Cell and Molecular Biology Structural Biology Industrial and Environmental Biotechnology Food and Agricultural Biotechnology and Medical Biotechnology As the title rightly indicates the chapters project the prospects in the respective areas and the issues in them Specific issues discussed in the book includes development of transgenic plants bioremediation of toxic industrial effluents biotransformation for novel antibiotics biofertilizer development molecular drug designing and structure elucidation molecular identification of pathogens production of anti microbials biocontrol agents and bioactive molecules cancer biology plant breeding and hybrid seed production etc The book with its contents spreading across the vast arena of modern biology is expected to cater to the need

of researchers technologists and students **Coffee: From the Field to the Cup** Paulo Mazzafera,Sara Adrián López de Andrade,Sarada Krishnan,Herminia Prieto Martinez,Maria Beatriz A. Gloria,2022-08-08 **Human Milk and Lactation**

Maria Lorella Gianni,2020-05-28 Human milk is uniquely tailored to meet infants specific nutritional requirements However it is more than just milk This dynamic and bioactive fluid allows mother infant signalling over lactation guiding the infant in the developmental and physiological processes It exerts protection and life long biological effects playing a crucial role in promoting healthy growth and optimal cognitive development The latest scientific advances have provided insight into different components of human milk and their dynamic changes over time However the complexity of human milk composition and the synergistic mechanisms responsible for its beneficial health effects have not yet been unravelled Filling this knowledge gap will shed light on the biology of the developing infant and will contribute to the optimization of infant feeding particularly that of the most vulnerable infants Greater understanding of human milk will also help in elucidating the best strategies for its storage and handling The increasing knowledge on human milk s bioactive compounds together with the rapidly advancing technological achievements will greatly enhance their use as prophylactic or therapeutic agents The current Special Issue aims to welcome original works and literature reviews further exploring the complexity of human milk composition the mechanisms underlying the beneficial effects associated with breastfeeding and the factors and determinants involved in lactation including its promotion and support **Recent Advances in Molecular Targets for**

Drug Discovery and Delivery in Tumor Sanjun Shi,Jianxun Ding,Xianjue Chen,Jingxin Mo,Zhi-xiang Yuan,2022-05-05

Birth, Life and Death of Dopaminergic Neurons in the Substantia Nigra Giuseppe di Giovanni,Vincenzo Di Matteo,Ennio Esposito,2009-09-02 This book provides a unique and timely multidisciplinary synthesis of our current knowledge of the anatomy pharmacology physiology and pathology of the substantia nigra pars compacta SNc dopaminergic neurons The single chapters written by top scientists in their fields explore the life cycle of dopaminergic neurons from their birth to death the cause of Parkinson s disease the second most common and disabling condition in the elderly population Nevertheless the intracellular cascade of events leading to dopamine cell death is still unknown and consequently treatment is symptomatic rather than preventive The mechanisms by which alterations cause neuronal death new therapeutic approaches and the latest evidence of a possible de novo neurogenesis in the SNc are reviewed and singled out in different chapters This book bridges basic science and clinical practice and will prepare the reader for the next few years which will surely be eventful in terms of the progress of dopamine research **13th International Congress on Extremophiles:**

From Extremophilic Biomolecules and Microorganisms to Biotechnological and Sustainable Applications Isaac Cann ,Melina Kerou,Simone Antonio De Rose ,Mohea Couturier,2024-05-23 Extremophiles have been studied for many decades these microorganisms can thrive under a vast range of conditions including extreme temperature pH pressure radiation salinity energy and nutrient limitation Life in extreme environments has evolved to render solutions that overcome

the challenges presented by such conditions Among these solutions include extremozymes and extremolytes an invaluable collection of natural renewable and biological resources with immense potential for applications aimed at the development of a sustainable bio economy especially in biotechnology and other industrial sectors In line with this observation extremophilic DNA polymerases have been instrumental in driving unprecedented progress in recombinant DNA technologies applied in diverse areas including agriculture and human health Thermostable and halotolerant enzymes are likely to feature significantly in the renewable energy sector of the future including bioethanol production and the Gas to Liquid effort which aims at converting greenhouse gases such as CO₂ and methane to liquid fuels Furthermore due to the stability of extremophilic protein homologs insights to the structure and function of protein protein complexes including those critical to protein degradation were solved to advance our understanding of fundamental processes across the three domains of life

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