



hoofdstuk zonder problemen door te kunnen werken. Om de begrippen en inzichten die in de tekst worden besproken zo veel mogelijk te concretiseren, zijn schematische tekeningen toegevoegd, die een wezenlijk onderdeel van de studiestof vormen. Medische fysiologie is geschreven voor studenten geneeskunde, studenten aan paramedische opleidingen en opleidingen waarbij uitgebreide kennis van de fysiologie van de mens wordt verlangd. Het leerboek is uitermate geschikt voor zelfstudie en zelftoetsing dankzij de opgenomen leerdoelen en de (keuze)vragen bij ieder hoofdstuk.

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The Fourth Edition of the compendium pools together the knowledge and experience of experts from all over the world, who are engaged in teaching and research in the field of biochemistry, medical sciences and allied disciplines. Comprising 20 sections, the present edition of the book has been substantially revised incorporating the latest research and achievements in the field.

Beginning appropriately with chemical architecture of the living systems, role and significance of biochemical reactions, organization of specialised tissues, and importance of food and nutrition, the book explores beyond traditional boundaries of biochemistry. The knowledge of various organ systems has been expanded covering their normal function, ailments and dysfunction. A chapter on Eye and Vision explaining molecular basis of cataract and glaucoma have been added. Also, the book introduces stem cells and regenerative therapy and defines molecules associated with pleasure, happiness, stress and anxiety. A Section on Gastrointestinal and Biliary System elaborates on physiology and dysfunction including fatty liver and its implications, and hepatitis viruses. The knowledge of Human Genetics and Biochemical Basis of Inheritance has been appropriately expanded to reflect the latest advances in various domains. Besides DNA fingerprinting for identity establishment, the Section discusses epigenetics, micro-RNA and siRNA including their role in gene expression, chromatin modification and its association with human diseases, and genetic engineering. It also explores emerging areas such as metabolomics and proteomics; synthetic biology; and dual use technology in bioterrorism. Due emphasis has been given to the Section on Cell Replication and Cancer. Emergence of the use of probiotics in human health has also been highlighted. Besides, an entire Section has been devoted to male and female reproductive systems, fertilization, implantation, pregnancy, lactation, and assisted reproductive technology. Immunology, including vaccines and immunization, has been given due attention with latest updates in this fast growing area. Modern medicine, despite its stupendous advances cannot provide cure for all ailments. Thus, the new edition provides knowledge of alternative medicine systems—Ayurveda, Homeopathy, Unani, Yoga and Herbal Medicine. Incorporating vast information on the latest and emerging areas, the book will be of immense value to the students of medical sciences not only in their preclinical years, but also in all phases of medical course including postgraduate education and practice. Besides, it will also serve as a valuable source to the students of biochemistry and human bi

????:Biochemical engineering and biotechnology handbook

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????:Soil microbiology and Biochemistry

Immunology: A Short Course provides an overview of the physiology of the immune system and the pathophysiology of a broad range of immune-mediated diseases, offering accessible and comprehensive guidance to the basic concepts and clinical approaches in the discipline. Now in its eighth edition, this bestselling textbook has been fully updated to reflect our expanded knowledge of how the immune system develops and functions, and the ways in which these physiological phenomena can fail or be compromised. New chapters examine cells and organs of the immune system, organization and expression of lymphocyte antigen receptor genes, experimental systems and methods, and B- and T-cell development activation. Helping students gain an integrated understanding of immunology, this textbook: Offers substantial new and revised material, expanded clinical coverage, enhanced pedagogical features, and updated figures, tables, and references Features recent research advances and therapeutic successes in the field of immunology Includes a companion website containing multiple choice questions, electronic flashcards, downloadable figures, PowerPoint slides, and sample cases Can be supplemented with the Clinical Cases in Immunology companion book The eighth edition of Immunology: A Short Course is an ideal resource for life and health science students, dental and nursing students seeking a short course text, and basic scientists and clinical researchers looking to refresh their knowledge in the subject.

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