

Mechanisms In Hematology

Brian Jenkins

Mechanisms in Hematology Lyonel G. Israels, Esther D. Israels, 2002

Mechanisms in Blood Coagulation, Fibrinolysis and the Complement System Torben Halkier, 1991 This book provides a comprehensive account of the proteins involved in blood coagulation, fibrinolysis and the complement system. A major section of the book is devoted to each of these three systems, with separate chapters dealing in detail with structural aspects and different functional processes. Topics covered in the blood coagulation section include the activation of factors IX and X and prothrombin, and the formation and stabilisation of fibrin. The fibrinolysis section includes the activation of plasminogen, the degradation of fibrin and the regulation of fibrinolysis. The complement system itself is covered in chapters dealing with classical activation, alternative activation, the lytic complex and the regulatory processes involved. In addition, one section deals with special topics, including the kinin system, signal peptides, haemostasis, and the evolution of protein structure. This volume will be of use to researchers and advanced students in the fields of haematology, immunology and clinical chemistry.

Pathophysiology of Blood Disorders Howard Franklin Bunn, Jon C. Aster, 2010-12-27 A concise full-color review of the mechanisms of blood diseases and disorders – based on a Harvard Medical School hematology course 4 STAR DOODY'S REVIEW! This is a superb book. Deceptively small, yet packs a wallop. The emphasis on principles instead of practice is welcome....The text is clear, concise, and surprisingly approachable for what could have been a very dense and dry discussion. I could not put this book down and read it entirely in one sitting. When was the last time anyone found a hematology textbook so riveting?--Doody's Review Service Hematological Pathophysiology is a well-illustrated, easy-to-absorb introduction to the physiological principles underlying the regulation and function of blood cells and hemostasis, as well as the pathophysiologic mechanisms responsible for the development of blood disorders. Featuring a strong emphasis on key principles, the book covers diagnosis and management primarily within a framework of pathogenesis. Authored by world-renowned clinician/educators at Harvard Medical School, Hematological Pathophysiology features content and organization based on a hematology course offered to second year students at that school. The book is logically divided into four sections: Anemias and Disorders of the Red Blood Cell, Disorders of Hemostasis and Thrombosis, Disorders of Leukocytes, and Transfusion Medicine; it opens with an important overview of blood and hematopoietic tissues. Features Succinct, to-the-point coverage that reflects current medical education More than 200 full-color photographs and renderings of disease mechanisms and blood diseases Each chapter includes learning objectives and self-assessment questions Numerous tables and diagrams encapsulate important information Incorporates the feedback of 180 Harvard medical students who reviewed the first draft -- so you know you're studying the most relevant material possible

Hematology: Red Blood Cell Mechanisms and Clinical Implications Chloe Thompson, 2023-09-26 Hematology is a branch of medical science concerned with the study of the blood and all components of blood. It also involves the diagnosis, treatment and prevention of diseases of blood, bone marrow, and immunologic and vascular systems. The red blood cells or erythrocytes are important cellular components of the blood. Their main function is to carry fresh oxygen from the lungs to the tissues. Carbon dioxide is removed from the body through the process of exhalation. The diseases related to red blood cells are caused due to a lack of iron or vitamins in the diet. Diseases of erythrocytes include several forms of anemia. It is a condition characterized by low count of healthy blood cells, which can transport adequate oxygen to different parts of the body. Major symptoms of anemia are tiredness, fast heart rate, pale skin, feeling cold, and in severe cases, heart failure. Some common forms of anemia are iron-deficiency anemia, sickle cell anemia, normocytic anemia, hemolytic anemia and fanconi anemia. This book unravels the recent studies in the field of hematology. It presents researches and studies on red blood cell mechanisms and clinical implications, performed by experts across the globe. Those in search of information to further their knowledge will be greatly assisted by this book.

Toxins and Hemostasis R. Manjunatha Kini, Kenneth J Clemetson, Francis S. Markland, Mary Ann McLane, Takashi Morita, 2010-10-19 Circulation of blood is vital for the survival of vertebrates, including man. Mainly, it plays an important role in carrying food nutrients and oxygen to every tissue and organ and in removing all waste products and carbon dioxide. Any imbalance in the hemostatic and cardiovascular systems can lead to death and severe debility. A number of animals have developed mechanisms to target these systems and exploit the vulnerability. In some species (for example, snakes), such mechanisms are used to immobilize and kill the victim/prey, whereas in others (for example, insects, such as leaches, mosquitoes and ticks), they are used to provide a continuous supply of blood. These mechanisms include, but are not limited to, procoagulant and anticoagulant actions that affect the coagulation cascade and platelet aggregation, as well as altering vasodilatory responses. In all these various animals, these mechanisms have evolved to perfection over millions of years to support their survival. In last 3-4 decades, due to the efforts of scientists from various backgrounds including biology, protein chemistry, molecular biology, pharmacology, hematology, and structural biology, significant progress in understanding the structure-function relationships, as well as the mechanism of action have been made in a number of exogenous factors that affect blood coagulation, platelet aggregation and vasodilation from various animals. These exogenous factors have contributed significantly to the development of research tools as well as providing new therapeutic agents. With the increase average age of the population coupled with changes in life style in recent years, there has been a significant increase in cardiovascular and hematological disorders. Thus scientists in both academic institutions as well as the pharmaceutical industry are developing better therapeutic agents to improve the quality of life. This impetus has lead to the search for novel agents from various sources that interfere with cardiovascular and hematological processes. Although at first glance exogenous factors appear to function as ‘villains’, several life-saving drugs have been developed based upon these factors. Such drugs or drug leads include those that inhibit the angiotensin converting enzymes (Captopril and Enalapril), that block platelet receptors (Eptifibatide and Tirofiban), or that digest thrombotic plugs (Alfimeprase and bat plasminogen activator) to name a few. Several new and exciting success stories are currently unfolding. In this book, recent studies on some of the exogenous factors that play crucial roles in cardiovascular and hematological disorders are reviewed in order to consolidate the efforts in this area of research and to recruit new, talented researchers. The 25-30 review chapters, each written by experts in their field, compiled herein are devoted to exogenous factors affecting platelet aggregation, anticoagulant and procoagulant proteins, fibrinolytic proteins and hypotensive agents (For details see, Contents of the Book). This book is intended to help to create elevated awareness and enthusiasm in the field of exogenous factors. I believe that this book will provide greater impetus to the search for novel proteins based on naturally occurring exogenous factors. This will be the first book dealing extensively with exogenous factors in the last 25 years. The book will provide a ready reference to the different approaches used to solve complex problems in protein chemistry and pharmacology of exogenous factors. The book will update our understanding of the structure-function relationships and mechanisms of action of exogenous factors and provide great insights into future directions for solving the remaining challenges.

The Washington Manual of Hematology and Oncology Subspecialty Consult Amanda F. Cashen, Brian Van Tine, 2012 The Washington Manual Subspecialty Consult Series is designed to provide quick access to the essential information needed to evaluate a patient on a subspecialty consult service. The Washington Manual of Hematology and Oncology subspecialty consult has been completely reviewed, revised, and follows the bulleted format and template of The Washington Manual of Medical Therapeutics, 33/e to allow for quick, readily accessible information. This edition has been updated to include new standards in the treatment of malignancies and hematologic disorders,

mechanisms of action of new therapeutic agents, and the current use of molecular prognostic factors. The information in each chapter is now presented in a consistent format, with important references cited. The Manual is a practical reference for fellows, residents, and medical students rotating on hematology and oncology subspecialty services. Most of the authors are hematology-oncology fellows or internal medicine residents, the physicians who have recent experience with the issues and questions that arise in the course of training in these subspecialties. Primary care practitioners and other health care professionals also will find this manual useful as a quick reference source in hematology and oncology. Features include: New, templated format same as The Washington University Medical Therapeutics, 33e Contains synopsis of symptoms, signs, and problems encountered in their daily workflow in a bulleted format for quick salient points Includes new standards in the treatment of malignancies and hematologic disorders, mechanisms of action of new therapeutic agents, and the current use of molecular prognostic factors

Mechanisms Controlling Hematopoiesis Katja Fiedler,Cornelia Brunner,2012

Patient Safety and Quality in Pediatric Hematology/Oncology and Stem Cell Transplantation Christopher E. Dandoy,Joanne M. Hilden,Amy L. Billett,Brigitta U. Mueller,2017-06-06 This volume provides a concise yet comprehensive overview of patient safety issues and quality improvement for the pediatric hematology/oncology/stem cell transplant practice. The book reviews patient safety in complex healthcare delivery systems, delineates the various safety issues affecting pediatric hematology/oncology patients, and discusses quality improvement methods and improvement science that allow the reader to implement and sustain change in their home institution. The text also explores mechanisms to measure quality and safety outcomes, allowing the provider to implement proven processes shown to minimize harm to patients. Written by experts in the field, Patient Safety and Quality in Pediatric Hematology/Oncology and Stem Cell Transplantation is a valuable resource for healthcare professionals treating pediatric hematology, oncology and stem cell transplant patients.

Physiology of Hematology Brian Jenkins,2015-01-17 This book gives an extensive analysis of the physiology of hematology. Hematology encircles the physiology and pathology of blood and of the blood-forming organs. In similar areas of medicine, the pace of improvements in hematology has been rapid over the recent years. Now various treatment options are available to the modern hematologist and a great advanced outlook for the broad majority of patients with blood disorders. Developments in the clinic depict, and in various aspects are driven by, improvements in scientific grasping of hematological procedures under normal as well as in disease conditions. This book consists of a selection of research work which focuses on the physiology of hematology by analysing the molecular mechanisms behind the functioning of blood systems. It serves as a reference informing both experts and amateur readers about some of the latest developments in hematology, in both laboratory and clinic.

Hematology Ronald Hoffman,Edward J. Benz, Jr.,Leslie E. Silberstein,Helen Heslop,John Anastasi,Jeffrey Weitz,2013-01-01 This leading text reflects both the new direction and explosive growth of the field of hematology. Edited and written by practitioners who are the leaders in the field, the book covers basic scientific foundations of hematology while focusing on its clinical aspects. This edition has been thoroughly updated and includes ten new chapters on cellular biology, haploidentical transplantation, hematologic manifestations of parasitic diseases, and more. The table of contents itself has been thoroughly revised to reflect the rapidly changing nature of the molecular and cellular areas of the specialty. Over 1,000 vivid images, now all presented in full color for the first time, include a collection of detailed photomicrographs in every chapter, selected by a hematopathology image consultant. What's more, this Expert Consult Premium Edition includes access to the complete contents of the book online, fully searchable and updated quarterly by Dr. Hoffman himself. - Publisher.

Hematology Margarita Guenova,Gueorgui Balatzenko,2018-06-27 Hematology has constantly been advancing in parallel with technological developments that have expanded our understanding of the phenotypic, genetic, and molecular complexity and extreme clinical and biological heterogeneity of blood diseases. This has in turn allowed for developing more effective and less toxic alternative therapeutic approaches directed against critical molecular pathways. The continuous and rather extensive influx of new information regarding the key features and underlying mechanisms as well as treatment options in hematology requires a frequent update of this topic. The primary objective of this book is to provide the specialists involved in the clinical management and experimental research in hematological diseases with comprehensive and concise information on some important theoretical and practical developments in the biology, clinical assessment, and treatment of patients, as well as on some molecular and pathogenetic mechanisms and the respective translation into novel therapies.

Immune Mechanisms of the System Regulating the Aggregate State of Blood E. V. Barkovsky,1990-02-01 Four essays by Soviet scientists: immune mechanisms regulating the hemostasis system, immunological studies in coagulology, cell-mediated effects of thrombin as an example of interaction between the hemostasis system and immunity, and immunological factors and the RASD system. Book club price, \$16. Annotation copyrighted by Book News, Inc., Portland, OR

Williams Hematology, Eighth Edition Marshall Lichtman,E. Beutler,Thomas Kipps,Uri Seligsohn,Kenneth Kaushansky,Josef Prchal,2010-07-30 The landmark hematology reference -- now in full color A Doody's Core Title ESSENTIAL PURCHASE for 2011! 5 STAR DOODY'S REVIEW! This edition continues the tradition of providing a comprehensive, updated textbook of hematology. This very worthy objective is spectacularly met by this edition. As a textbook of hematology, this has a broad-based audience -- medical students, residents, fellows, and practitioners (including our allied health partners) in virtually every aspect of medicine. The authors and editors are internationally recognized -- in fact, luminaries, in their fields....Williams continues to sustain its unparalleled reputation as THE textbook of hematology. I've run out of superlatives. Get it.--Doody's Review Service Edition after edition, Williams Hematology has guided generations of clinicians, biomedical researchers, and trainees in many disciplines through the origins, pathophysiological mechanisms, and management of benign and malignant disorders of blood cells and coagulation proteins. The book begins with the evaluation of the patient and progresses to the molecular and cellular underpinnings of normal and pathological hematology. Subsequent sections present disorders of the erythrocyte, granulocytes and monocytes, lymphocytes and plasma cells, malignant myeloid and lymphoid diseases, hemostasis and thrombosis, and transfusion medicine. Featuring a brand-new full-color presentation, the Eighth Edition of Williams Hematology is extensively revised to reflect the latest views of experts in the field. Two new chapters examine the importance of genomics in hematology and cell therapy for tissue replacement, whereas other chapters have been revised to incorporate the newest clinical approaches to the leukemias and lymphomas, and the application of targeted therapy in the treatment of hematologic disorders. New to this Edition: Full-color presentation conveniently integrates images of blood and tissue findings where they are cited in the text Two additional chapters, "Genomics and Epigenetics," and "Regenerative Medicine: Principles of Multipotential Cell Therapy for Tissue Replacement," offer insights into the application of genomic and monoclonal therapies to hematology and emphasize their role in improving diagnostic and therapeutic methods Expanded coverage of non-Hodgkin lymphoma includes separate chapters on its constituent diseases, providing an in-depth assessment of the diagnosis and management of these disorders A comprehensive discussion of erythrocytosis and thrombocytosis reviews reactive and malignant forms of myeloproliferation, encompassing new genetic advances in these disorders along with more targeted therapeutic approaches Companion CD includes a large selection of morphologies, illustrations, and drawings from the book, in a presentation-ready PowerPoint format

Hematopathology Domnita Crisan,2012-11-06 Hematopathology: Genomic Mechanisms of Neoplastic Diseases will keep physicians abreast of the rapid and complex changes in genomic medicine, as exemplified by the molecular pathology of hematologic malignancies. This timely volume will update physicians on the complexities of genomic lesions, as well as offer an integrated framework encompassing molecular diagnosis, the new WHO classification of hematologic neoplasms with focus on molecular pathology, prognostic value of molecular tests, and molecular monitoring of response to gene-targeted therapy. As such, it will be of great value to hematologists, oncologists, pathologists, internal medicine and pediatric specialists, as well as bioscientific staff and laboratorians in private hospitals and academic institutions.

Molecular Hematology Drew Provan,John Gribben,2010-01-28 Now in its third edition, Molecular Hematology has been thoroughly updated to incorporate recent advances in molecular research. The aim of the book remains the same – to provide a core knowledge base for those with little exposure to molecular biological techniques. Molecular biology has had a significant impact on the understanding of blood diseases and this book shows how molecular techniques can be used in diagnosis and treatment. In each chapter the authors summarize the impact made by molecular research on the understanding of the pathogenesis of the disorder featured, and highlight the molecular strategies that exist, or are being currently investigated, for therapeutic purposes. There are six brand new chapters in this edition: History and development of molecular biology Pharmacogenomics Anemia of chronic disease Molecular pathogenesis of malaria Molecular basis of transplantation Cancer stem cells Presented in an extremely readable style with clear two-color line diagrams, this book is designed for the non-specialist and will be an invaluable resource for all trainee hematologists.

Hematology E-Book Leslie E. Silberstein,John Anastasi,2012-11-05 Hematology, 6th Edition encompasses all of the latest scientific knowledge and clinical solutions in the field, equipping you with the expert answers you need to offer your patients the best possible outcomes. Ronald Hoffman, MD, Edward J. Benz, Jr., MD, Leslie E. Silberstein, MD, Helen Heslop, MD, Jeffrey Weitz, MD, John Anastasi, MD, and a host of world-class contributors present the expert, evidence-based guidance you need to make optimal use of the newest diagnostic and therapeutic options. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Make confident, effective clinical decisions by consulting the world's most trusted hematology reference. Access the complete contents online at www.expertconsult.com, with a downloadable image collection, regular updates, case studies, patient information sheets, and more. Apply all the latest knowledge on regulation of gene expression, transcription splicing, and RNA metabolism; pediatric transfusion therapy; principles of cell-based gene therapy; allogeneic hematopoietic stem cell transplantation for acute myeloid leukemia and myelodysplastic syndrome in adults; hematology in aging; and much more, thanks to 27 brand-new chapters plus sweeping updates throughout. Find the information you need quickly and easily thanks to a completely reworked organization that better reflects today's clinical practice. Visualize clinical problems more clearly with new and updated images that reflect the pivotal role of hematopathology in modern practice. Benefit from the experience and fresh perspective of new editor Dr. Jeffrey Weitz, Professor of Medicine at McMaster University School of Medicine and Executive Director of the Thrombosis and Atherosclerosis Research Institute in Ontario.

Lecture Notes Haematology N.C. Hughes-Jones,S. N. Wickramasinghe,Prof Chris Hatton,2008-12-10 The Lecture Notes series is ideal for medical students, junior doctors and other allied health professionals. Lecture Notes: Haematology concentrates on providing the required core subject knowledge and has been extensively revised and updated to reflect the considerable advances in the understanding of the molecular biology and pathogenesis of haematological disorders, while continuing the tradition of successfully integrating the physiological, pathological and clinical aspects of haematology. Each chapter begins with a list of learning objectives that identifies the key elements that students need to know, whilst also taking learning to the next level. This new edition includes brief sections on the approaches to investigation and treatment of haematological problems, the underlying mechanisms and relationships concerning lymphomas and other neoplastic diseases of the bone marrow, and the rapidly changing area of bone marrow transplantation. Illustrated in full colour throughout, with new illustrations and photographs of important normal and abnormal blood cells, this eighth edition is a comprehensive guide to haematology and an essential aid for anyone who wants a concise introduction to the subject.

Cellular Mechanisms of the System Regulating the Aggregate State of Blood S. V. Andreev,1990

Disorders of the Platelets, An Issue of Hematology/Oncology Clinics of North America, Koneti Rao,2013-06-06 This issue of Hematology/Oncology Clinics is guest edited by Dr. A. Koneti Rao and focuses on Disorder of the Platelets. Article titles include: Mechanisms of Platelet Activation and Inhibition, Testing Platelet Function,Clinical Implications of Platelet Genomics and Proteomics, Congenital Thrombocytopenias, Immune Thrombocytopenias, Heparin Induced Thrombocytopenia, and Functional defects: Chronic granulomatous disease (CGD) and beyond.

Williams Hematology, 9E Kenneth Kaushansky,Marshall A. Lichtman,Josef Prchal,Marcel M. Levi,Oliver W Press,Linda J Burns,Michael Caligiuri,2015-12-23 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The world's most highly regarded reference text on the mechanisms and clinical management of blood diseases A Doody's Core Title for 2019! Edition after edition, Williams Hematology has guided generations of clinicians, biomedical researchers, and trainees in many disciplines through the origins, pathophysiological mechanisms, and management of benign and malignant disorders of blood cells and coagulation proteins. It is acknowledged worldwide as the leading hematology resource, with editors who are internationally regarded for their research and clinical achievements and authors who are luminaries in their fields. The Ninth Edition of Williams Hematology is extensively revised to reflect the latest advancements in basic science, translational pathophysiology, and clinical practice. In addition to completely new chapters, it features a full-color presentation that includes 700 photographs, 300 of which are new to this edition, and 475 illustrations. Recognizing that blood and marrow cell morphology is at the heart of diagnostic hematology, informative color images of the relevant disease topics are conveniently integrated into each chapter, allowing easy access to illustrations of cell morphology important to diagnosis. Comprehensive in its depth and breadth, this go-to textbook begins with the evaluation of the patient and progresses to the molecular and cellular underpinnings of normal and pathological hematology. Subsequent sections present disorders of the erythrocyte, granulocytes and monocytes, lymphocytes and plasma cells, malignant myeloid and lymphoid diseases, hemostasis and thrombosis, and transfusion medicine.

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