1. Record Nr. UNINA9910826844503321

Titolo	Platelets / / editor, Alan D. Michelson
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2013
ISBN	1-283-70649-0 0-12-387838-1
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (1398 p.)
Altri autori (Persone)	MichelsonAlan D
Disciplina	612.1 612.1/17 612.117
Soggetti	Blood platelets Blood platelet disorders
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Platelets; Copyright Page; Contents; List of Contributors; Preface; Foreword: A Brief History of Ideas About Platelets in Health and Disease; I. The Role of Platelets in Human Hemostasis, Platelet Transfusion, and the Bleeding Time; II. Immune Thrombocytopenia; III. Alloantigens, Single Nucleotide Polymorphisms, and Alloimmune Thrombocytopenias; IV. Platelet Physiology, Assays of Platelet "Adhesiveness", ADP, Platelet Aggregation, Myocardial Infarction, and P2Y12 Anta... V. Aspirin, Arachidonic Acid, Prostaglandins, Gpiib-iiia, Nitric Oxide, Endothelial Gpiib-iiia, and AngiogenesisVI. Clot Retraction, Glanzmann Thrombasthenia, GPIIb-IIIa Receptor, and GPIIb-IIIa Antagonists; VII. Bernard-Soulier Syndrome, the Gpib-IX-V Complex, von Willebrand Factor, Shear, ADAMTS-13, and Thrombotic Thrombocytopen...; VIII. Thrombin-induced Platelet Activation; IX. Platelets and Metastases; X. Reflections on the Past and Thoughts About the Future; Reference List; I. Platelet Biology; 1 The Evolution of Mammalian Platelets; I Introduction; II Invertebrates III Nonmammalian VertebratesIV Comparative Hemostasis; V A Comparison of Human Platelets and Limulus Amebocytes; VI The Evolution of Hemostasis and Blood Coagulation; VII Megakaryocytes

and Mammals; A Marine Mammals; B Order Monotremata; C Order Marsupialia; D Platelet Levels; E A Comparison of Nonplacental and Placental Mammals; VIII Conclusions; Acknowledgments; References; 2 Megakaryocyte Development and Platelet Formation; I Introduction; II Megakaryocyte Development; A The Hematopoietic Program; B Committed Megakaryocyte Progenitor Cells; C Immediate Megakaryocyte Precursors
D Endomitosis and Polyploid Formation E Megakaryocyte Cytoplasmic Maturation; 1 Demarcation Membrane System; 2 Dense Tubular System; 3 Granules; III Platelet Formation; A Mechanisms of Platelet Production; 1 Budding from the Megakaryocyte Surface; 2 Cytoplasmic Fragmentation via the Demarcation Membrane System; 3 Proplatelet Formation; a The Proplatelet Theory; b Proplatelet Morphogenesis; c The Cytoskeletal Mechanics of Proplatelet Formation; i Microtubules Power Proplatelet Elongation; ii Actin-Dependent Proplatelet Branching; iii Organelle Transport in Proplatelets
iv Spectrin-Based Membrane Skeleton in Platelet Production v Release of Platelets; B The Sites of Platelet Formation In Vivo; 1 Platelet Formation in the Bone Marrow; 2 Platelet Formation in the Bloodstream; 3 Platelet Formation in the Lung; C Apoptosis and Platelet Production; D Production of Platelets for Infusion; IV Regulation of Megakaryocyte Development and Platelet Formation; V Murine Model Systems and Human Diseases as Tools to Study Platelet Biogenesis; A Transcription Factors; 1 GATA-1; 2 Nuclear Factor-Erythroid 2; B Cytoskeletal Proteins; 1 1 Tubulin
2 Glycoprotein Ib-IX-V Complex

Sommario/riassunto

PLATELETS is the definitive current source of state-of-the-art knowledge about platelets and covers the entire field of platelet biology, pathophysiology, and clinical medicine. Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet-related diseases including thrombosis and hemorrhage. Novel platelet function tests, drugs, blood bank storage methods, and gene therapies have been incorporated into patient care or are in development. This book draws all this information into a single, comprehensive and authoritative resource.