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Titolo	Hematology : basic principles and practice // [edited by] Ronald Hoffman, Edward J. Benz, Jr., Leslie E. Silberstein, Helen E. Heslop, Jeffrey I. Weitz, John Anastasi, Mohamed Salama
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Soggetti	Hematology Blood - Diseases Hematologic Diseases - diagnosis Hematologic Diseases - therapy Blood Physiological Phenomena
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Anatomy and physiology of the gene -- Epigenetics and epigenomics -- Genomic approaches to hematology -- Regulation of gene expression, transcription, splicing and RNA metabolism -- Protein synthesis, processing, and trafficking -- Protein architecture: relationship of form and function -- Signaling transduction and metabolomics -- Pharmacogenomics and hematologic diseases -- Hematopoietic stem cell biology -- Stem cell model of hematologic malignancies -- Hematopoietic microenvironment -- Cell adhesion -- Hematopoietic cell trafficking and chemokines -- Interactions between hematopoietic stem and progenitor cells and the bone marrow: current biology of stem cell homing and mobilization -- Vascular growth in health and disease -- Cytokine/receptor families and signal transduction -- Control of cell division -- Cell death -- Overview and compartmentalization of the immune system -- B-cell development -- T-cell immunity -- Natural killer cell immunity -- Dendritic cell biology

-- Complement and immunoglobulin biology leading to clinical translation -- Tolerance and autoimmunity -- Biology of erythropoiesis, erythroid differentiation, and maturation -- Granulocytopoiesis and monocytopenia -- Thrombocytopoiesis -- Inherited forms of bone marrow failure -- Aplastic anemia -- Paroxysmal nocturnal hemoglobinuria -- Acquired disorders of unilineage blood cell production -- Pathobiology of the human erythrocyte and its hemoglobins -- Approach to anemia in the adult and child -- Pathophysiology of iron homeostasis -- Disorders of iron metabolism: iron deficiency and overload -- Anemia of chronic diseases -- Heme biosynthesis and its disorders: porphyrias and sideroblastic anemias -- Megaloblastic anemias -- Thalassemia syndromes -- Pathobiology of sickle cell disease -- Sickle cell disease: clinical features and management -- Hemoglobin variants associated with hemolytic anemia, altered oxygen affinity, and methemoglobinemias -- Red blood cell enzymopathies -- Red blood cell membrane disorders -- Autoimmune hemolytic anemia -- Extrinsic nonimmune hemolytic anemias -- Granulocytosis, granulocytopenia, monocytosis, and monocytopenia -- Lymphocytosis, lymphocytopenia, hypergammaglobulinemia, and hypogammaglobulinemia -- Disorders of phagocyte function -- Congenital disorders of lymphocyte function -- Histiocytic disorders -- Lysosomal storage diseases: perspectives and principles -- Infectious mononucleosis and other Epstein-Barr virus-associated diseases -- Progress in the classification of hematopoietic and lymphoid neoplasms: clinical implications -- The cytogenomic basis of hematological malignancies -- Pharmacology and molecular mechanisms of antineoplastic agents for hematologic malignancies -- Pathobiology of acute myeloid leukemia -- Clinical manifestations and treatment of acute myeloid leukemia -- Myelodysplastic syndromes: biology and treatment -- Allogeneic hematopoietic stem cell transplantation for acute myeloid leukemia and myelodysplastic syndrome in adults -- Acute myeloid leukemia in children -- Myelodysplastic syndrome and myeloproliferative syndrome in children -- Pathobiology of acute lymphoblastic leukemia -- Clinical manifestations and treatment in children of acute lymphoblastic leukemia -- Acute lymphocytic leukemia in adults -- Chronic myeloid leukemia -- The polycythemias -- Essential thrombocythemia -- Primary myelofibrosis -- Eosinophilia, eosinophil-associated diseases, chronic eosinophil leukemia, and the hypereosinophilic syndromes -- Mast cells and systemic mastocytosis -- The pathologic basis for the classification of non-Hodgkin and Hodgkin lymphomas -- Origins of Hodgkin disease -- Hodgkin lymphoma: clinical manifestations, staging, and therapy -- Origins of non-Hodgkin lymphomas -- Chronic lymphocytic leukemia -- Hairy cell leukemia -- Clinical manifestations and treatment of indolent lymphomas: marginal zone lymphomas (extranodal/malt, splenic, and nodal) -- Clinical manifestations, staging, and treatment of follicular lymphoma -- Mantle cell lymphoma -- Diagnosis and treatment of diffuse large b-cell lymphoma (DLBCL) and Burkitt lymphoma (BL) -- Viral-related lymphomas -- Malignant lymphomas in childhood -- T-cell lymphomas -- Multiple myeloma -- Waldenstrom macroglobulinemia/lymphoplasmacytic lymphoma -- Immunoglobulin light-chain amyloidosis (primary amyloidosis) -- Clinical approach to infections in the compromised host -- Psychosocial aspects of hematologic disorders -- Pain management and antiemetic therapy in hematologic disorders -- Palliative care -- Late complications of hematologic diseases and their therapies -- Overview and historical perspective of current cell-based therapies -- Practical aspects of hematologic stem cell harvesting and mobilization

-- IND enabling processes for cell-based therapies -- Graft engineering and cell processing -- Principles of cell-based genetic therapies -- Mesenchymal stromal cells -- T cell therapy of hematological diseases -- NK cell-based therapies -- Immune checkpoint blockade in hematologic malignancies -- Overview and choice of donor of hematopoietic stem cell transplantation -- Indications and outcomes of allogeneic hematopoietic cell transplantation for hematologic malignancies in adults -- Unrelated donor hematopoietic cell transplantation -- Haploidentical hematopoietic cell transplantation -- Unrelated donor cord blood transplantation for hematologic malignancies -- Graft-versus-host disease and graft-versus-leukemia responses: biology and therapy -- Complications after hematopoietic cell transplantation -- Human blood group antigens and antibodies -- Principles of red blood cell transfusion -- Clinical considerations in platelet transfusion therapy -- Human leukocyte antigen and human neutrophil antigen systems -- Principles of neutrophil (granulocyte) transfusions -- Transfusion of plasma derivatives: plasma, cryoprecipitate, albumin, and immunoglobulins -- Preparation of plasma-derived and recombinant human plasma proteins -- Transfusion therapy for coagulation factor deficiencies -- Hemapheresis -- Transfusion reactions to blood and cell therapy products -- Transfusion-transmitted diseases -- Pediatric transfusion medicine -- Overview of hemostasis and thrombosis -- The blood vessel wall -- Megakaryocyte and platelet structure -- Molecular basis of platelet function -- Molecular basis of blood coagulation -- Regulatory mechanisms in hemostasis -- Clinical approach to the patient with bleeding or bruising -- Laboratory evaluation of hemostatic and thrombotic disorders -- Acquired disorders of platelet function -- Diseases of platelet number: immune thrombocytopenia, neonatal alloimmune thrombocytopenia, and posttransfusion purpura -- Thrombocytopenia caused by platelet destruction, hypersplenism, or hemodilution -- Heparin-induced thrombocytopenia -- Thrombotic thrombocytopenic purpura and the hemolytic uremic syndromes -- Hemophilia A and B -- Inhibitors in hemophilia A and B -- Rare coagulation factor deficiencies -- Structure, biology, and genetics of von Willebrand factor -- Disseminated intravascular coagulation -- Hypercoagulable states -- The antiphospholipid syndrome -- Venous thromboembolism -- Mechanical interventions in arterial and venous thrombosis -- Atherothrombosis -- Stroke -- Acute coronary syndromes -- Atrial fibrillation -- Peripheral artery disease -- Antithrombotic drugs -- Disorders of coagulation in the neonate -- Hematologic changes of pregnancy -- Hematologic manifestations of childhood illness -- Hematologic manifestations of systemic disease: liver disease -- Hematologic manifestations of systemic disease: renal disease -- Hematologic manifestations of cancer -- Integrated therapies in patients with hematologic diseases -- Hematologic manifestations of aids -- Hematologic manifestations of parasitic diseases -- Hematologic problems in the surgical patient: bleeding and thrombosis -- The spleen and its disorders -- Hematology in aging.

Sommario/riassunto

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