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Nota di contenuto	Beginnings : the molecular pathology of hemoglobin / David Weatherall -- Stem cells / David T. Scadden -- The genetics of acute myeloid leukemias / Amy M. Trottier & Carolyn J. Owen -- Molecular diagnostics and risk assessment in myeloid malignancies / Christian Scharenberg & Torsten Haferlach -- Molecular basis of acute lymphoblastic leukemia / Bela Patel & Fiona Fernando -- Chronic myeloid leukemia / Hagop Kantarjian, Jorge Cortes, Elias Jabbour, & Susan O'Brien -- Myeloproliferative neoplasms / Jyoti Nangalia, Anthony J. Bench, Anthony R. Green, & Anna L. Godfrey -- Lymphoma genetics / Jennifer L. Crombie, Anthony Letai, & John G. Gribben -- The molecular biology of chronic lymphocytic leukemia / John G. Gribben -- The molecular biology of multiple myeloma / Wee Joo Chng & P. Leif Bergsagel -- The molecular basis of bone marrow failure syndromes and red cell enzymopathies / Deena Iskander, Lucio Luzzatto, & Anastosios Karadimitris -- Anemia of chronic disease / Tomas Ganz -- The molecular basis of iron metabolism / Nancy C. Andrews & Tomas Ganz -- Hemoglobinopathies due to structural mutations / D. Mark Layton & Steven Okoli -- Molecular pathogenesis of malaria / David J. Roberts, Arnab Pain, & Chetan E. Chitnis -- Molecular coagulation and thrombophilia / Bjorn Dahlback & Andreas Hillarp -- The molecular basis of hemophilia / Daniel P. Hart & Paul L.F. Giangrande -- The

molecular basis of Von Willebrand disease / Luciano Baronciani -- Platelet disorders / Kenneth J. Clemetson -- The molecular basis of blood cell alloantigens / Cristina Navarrete, Louise Tilley, Winnie Chong, & Colin Brown -- Functions of blood group antigens / Jonathan S. Stamler & Marilyn J. Telen -- Autoimmune hematological disorders / Drew Provan & John W. Semple -- Molecular therapeutics in hematology : gene therapy / William M. McKillop & Jeffrey A. Medin -- Pharmacogenomics / Leo Kager & William E Evans -- History and development of molecular biology / Paul Moss -- Cancer stem cells / Sara Ali & Dominique Bonnet -- Molecular basis of transplantation / Francesco Dazzi & Antonio Galleu.

Sommario/riassunto

"Now in its fourth 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. Presented in an extremely readable style in full color with accompanying online access, this book is designed for the non-specialist and will be an invaluable resource for all trainee hematologists. More than any other discipline, hematology relies on molecular biology in the management of patients. The highly specialized functions of blood cells and their ready accessibility account in part for the rapidly expanding knowledge of the molecular basis of hematologic diseases. As a result, the treatment of blood disease has been revolutionized in recent years by the use of therapies borne out by the application of molecular biology. The techniques of molecular biology have been used to identify genes and proteins that play a pivotal role in blood diseases. Molecular characterization of these has led to the development of new drugs and recombinant proteins that are now routinely administered worldwide. This book shows the ways in which molecular biology has influenced the understanding of blood diseases and how molecular techniques can be used in the diagnosis and treatment of these disorders. It is vital that haematologists know how genes and proteins identified by molecular biology fit together to cause diseases, and how this knowledge can be used to cure patients"--