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Nota di contenuto	Section I. History and General Issues: History of leukemia: historical perspectives / Paul S. Gaynon, Toska J. Zomorodian and Donald Pinkel -- Diagnosis and classification / Mihaela Onciu and Ching-Hon Pui -- Epidemiology and etiology / Logan G. Spector, Bridget Charbonneau and Leslie L. Robison -- Section II. Cell Biology and Pathobiology: Immunophenotyping / Frederick G. Behm -- Immunoglobulin and T-cell receptor gene rearrangements / Jacques J.M. van Dongen and Anton W. Langerak -- Cytogenetics of acute leukemias / Susana C. Raimondi -- Molecular genetics of acute lymphoblastic leukemias / Charles G. Mullighan -- Molecular genetics of acute myeloid leukemia / Tanja A. Gruber and James R. Downing -- Epigenetics of leukemia / William Stevenson and Guillermo Garcia-Manero -- Genetics and cellular drug resistance in acute leukemia / Monique L. den Boer and Rob Pieters -- Heritable predispositions to childhood hematologic

malignancies / Alix E. Seif, Beverly J. Lange, Jaclyn A. Biegel, and Kim E. Nichols -- Section III. Evaluation and Treatment:- Pharmacokinetic, pharmacodynamic, and pharmacogenetic considerations / Stephen W. Paugh, Mary V. Relling and Williams E. Evans -- Acute lymphoblastic leukemia / Ching-Hon Pui -- Relapsed acute lymphoblastic leukemia / Gunter Henze and Arend von Stackelberg -- B-cell acute lymphoblastic leukemia and Burkitt lymphoma / John T. Sandlund and Mihaela Onciu -- Acute myeloid leukemia / Jeffrey E. Rubnitz, Hiroto Inaba and Raul C. Ribeiro. Relapsed acute myeloid leukemia / Ursula Creutzig -- Myelodysplastic syndrome / Henrik Hasle -- Chronic myeloproliferative disorders / Charlotte M. Niemeyer and Franco Locatelli -- Leukemias in patients with Down syndrome / Jeffrey W. Taub, April Sorrell and James A. Whitlock -- Treatment of adolescents and young adults with acute lymphoblastic leukemia / James Nachman -- Hematopoietic stem cell and natural killer cell transplantation / Wing Leung and Michael A. Pulsipher -- Treatment of acute leukemia in countries with limited resources / Raul C. Ribeiro, Scott C. Howard and Ching-Hon Pui -- Antibody-targeted therapy / Alan S. Wayne -- Adoptive cellular immunotherapy / Hyoung Jin Kang, Cliona M. Rooney and Helen E. Heslop -- Gene transfer: methods and applications / Ulrike Gerdemann, Martin Pule and Malcolm K. Brenner -- Development therapeutics / Sima Jeha -- Minimal residual disease / Dario Campana, Andrea Biondi and Jacques J.M. van Dongen -- Section IV. Complications and Supportive Care: Acute complications / Scott C. Howard, Raul C. Ribeiro and Ching-Hon Pui -- Late complications after leukemia therapy / Melissa M. Hudson -- Therapy-related leukemias / Carolyn A. Felix -- Infectious complications in leukemia / Hana Hakim and Patricia M. Flynn -- Hematologic supportive care / Fariba Navid and Victor M. Santana -- Pain management / Doralina L. Anghelescu and Roland Kaddoum -- Psychosocial issues / Sean Phipps, Vida L. Tyc, Heather Conklin and Kevin Krull -- Nursing care / Jami S. Gattuso, Martha May and Michele Chandler.

Sommario/riassunto

New insights into the molecular biology of childhood leukemias have stimulated numerous advances in diagnostic methods, strategies for risk assessment and the development of novel therapy for genetic subtypes of the diseases. Fully revised and updated, this new edition of Childhood Leukemias provides the most comprehensive, clinically-oriented and authoritative reference dedicated to these diseases. Beginning with an overview of history, cell biology, and pathology, subsequent chapters review approaches in the evaluation and management of specific leukemias, new therapeutic development and the unique pharmacodynamics and pharmacogenetics of individual patients. New chapters include epigenetics of leukemias, leukemias in patients with Down syndrome and leukemia in adolescents and young adults. The final section covers the complications associated with the disease or its treatment and supportive care during and after treatment. Authored by leading experts, this is a 'must-have' for any physician or investigator who deals with leukemias in childhood.