

1. Record Nr.	UNINA9910864200603321
Titolo	Neuroblastoma : Discoveries and Challenges // edited by Shahab Asgharzadeh, Frank Westermann
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-51292-8
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (219 pages)
Collana	Pediatric Oncology, , 2191-0812
Disciplina	616.9948
Soggetti	Oncology Pediatrics Neurology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Epidemiology, Presentation, and Evaluation -- Pathology of Neuroblastoma -- Genetic Predisposition -- Part I: Evolving Concepts in Neuroblastoma Pathogenesis (Seed):Tumor Genomics: Copy Number Alterations -- Tumor Genomics: Epigenetics -- Tumor Genomics: Genomic Regulation -- Tumor Metabolism -- Part II: Evolving Concepts in Neuroblastoma Immunology and Tumor Microenvironment (Soil): Neuroblastoma Tumor Microenvironment - Adaptive and Innate Immunity -- Neuroblastoma Tumor Microenvironment – Non-Immune Cells and Exosomes -- Part III: Evolving Concepts in Neuroblastoma Precision Medicine: Targeting the Seed and the Soil: Advances in evaluating tumor burden -- Therapeutically Actionable Genetic Aberrations -- Re-engaging the Immune System: Future of Immunotherapy -- Future of Clinical Trials and Application of Precision Medicine -- Summary and the Next 10 Years. .
Sommario/riassunto	This book provides a state-of-the-art review of the biology, treatment, and other critical aspects of neuroblastoma, reflecting the dramatic advances that have been achieved in understanding and management. Topics are arranged according to the book's dominant themes of the "seed" (tumor genomics, epigenetics, metabolism, and stem cells) and the "soil" (tumor microenvironment, adaptive and innate immunity, and exosomes) and how both of these influences can serve as rich targets

for intervention, whether by targeted molecular therapy or immunotherapy. Therapeutic strategies that are currently in use or under consideration for the future are discussed in detail, with the focus on precision medicine. Further individual chapters are devoted to the biology and genetics of relapsed/refractory neuroblastoma and emerging methods of evaluating tumor burden. Finally, in keeping with the, albeit modest, increase in cure rates in high-risk disease, immune and cellular therapies are reviewed. This coverage of what is becoming a not-so-enigmatic tumor will appeal to a broad readership including both experimental oncologists and clinicians who care for patients with neuroblastoma.
