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DESCRIPTION:

This book offers an update about peripheral nerve sheath tumors (PNST), both in their benign and malignant forms (MPNST). Starting from the most innovative preclinical studies about genetic and omics characterization, it then explores the traditional and advanced imaging modalities (ultrasound, DTI, etc) and the electrophysiological assessment. Another relevant part is reserved to the description of the most recent surgical techniques (fluorescent dye for intraoperative surgical guidance, neurophysiological monitoring, esoscopic view). Finally, new oral treatment for PNST related to neurocutaneous diseases (as selumetinib in plexiform neurofibromas) is described.

Written by worldwide experts in each specific field, it offers a multidisciplinary vision to PNST, approaching the topic in a translational way, from preclinical studies to the current medical practice.

The ideal readers are all health operators involved in the treatment of these tumors- from neurosurgeons to radiologists, neurologists, geneticists, biologists, etc) as well as medical students in these disciplines.

CONTENTS:

Overview of Peripheral Nerve Sheath
Natural History and Clinical Evolution of Peripheral Nerve Sheath Tumors in Neurofibromatosis
Advancement in Genetic and Molecular Landscape of Peripheral Nerve Sheath Tumors
Multi-Omic Analyses for Biomarker Discovery and Characterization of PNST
Preclinical NF1-PNST Models and Potential Drug Resistance Mechanisms
MRI in the Diagnosis of PNST: State-of-the-Art and Recent Advancements
The Developing Role of Molecular Imaging PET in Peripheral Nerve Sheath Tumors
A Clinical Summary of PNST in Adults
Clinical Assessment of Tumor Predisposition Syndromes: Related Nerve Sheath Tumors in Children
IOUS and CEUS in PNS Tumors
Neurophysiological Evaluation and Intraoperative Monitoring in Peripheral Nervous System Tumors
Fluorescein-Guided Surgery of Peripheral Nerve Sheath Tumors
Exoscope in PNS Tumor Surgery
Surgical Management of Peripheral Nerve Sheath Tumors
Surgical Management of Pediatric PNST
Functional Status in Malignant Peripheral Nerve Sheath Tumors
MEK Inhibitors and Other Medical Therapies for Benign Peripheral Nerve Sheath Tumors
Systemic Treatment in Malignant Peripheral Nerve Sheath Tumors: Current Practice and Future Possibilities
Proton and Carbon Ion Therapy for MPNST
Radiomics and Machine Learning in PNST

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