

1. Record Nr.	UNINA9910139596403321
Autore	Bolon Brad
Titolo	Fundamental Neuropathology for Pathologists and Toxicologists [[electronic resource] ] : Principles and Techniques
Pubbl/distr/stampa	Hoboken, : Wiley, 2011
ISBN	1-283-23945-0 9786613239457 0-470-93995-8 0-470-93994-X
Descrizione fisica	1 online resource (644 p.)
Altri autori (Persone)	ButtMark
Disciplina	616.8071
Soggetti	Models, Animal Nervous system -- Diseases Neurotoxicity Syndromes -- diagnosis Neurotoxicity Syndromes -- physiopathology Neurotoxicology Neurotoxicology - Diseases Nervous system Investigative Techniques Poisoning Anatomy Noxae Nervous System Diseases Substance-Related Disorders Diseases Toxic Actions Chemical Actions and Uses Neurotoxicity Syndromes Diagnosis Neurotoxins Nervous System Medicine Health & Biological Sciences Neurology
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	<p>Fundamental Neuropathology for Pathologists and Toxicologists: Principles and Techniques; CONTENTS; CONTRIBUTORS; FOREWORD; PREFACE; INTRODUCTION; PART 1: FUNDAMENTALS OF NEUROBIOLOGY; 1 Fundamental Neuropathology for Pathologists and Toxicologists: An Introduction; 2 Functional Neuroanatomy; 3 Atlas of Comparative Neuroanatomy; 4 Principles of Comparative and Correlative Neurodevelopment and Their Implications for Developmental Neurotoxicity; 5 Localizing Neuropathological Lesions Using Neurological Findings; 6 Behavioral Model Systems for Evaluating Neuropathology</p> <p>7 Cognitive Assessments in Nonhuman Primates8 Impact of Aging on Brain Structure and Function in Rodents and Canines; 9 Fundamentals of Neurotoxicity Detection; PART 2: TOXICOLOGIC NEUROPATHOLOGY: METHODOLOGY; 10 Practical Neuropathology of the Rat and Other Species; 11 Fluoro-Jade Dyes: Fluorochromes for the Histochemical Localization of Degenerating Neurons; 12 Histological Markers of Neurotoxicity (Nonfluorescent); 13 Common Histological Artifacts in Nervous System Tissues; 14 High-Definition Microscopic Analysis of the Nervous System</p> <p>15 Stereological Solutions for Common Quantitative Endpoints in Neurotoxicology16 Anatomy and Processing of Peripheral Nerve Tissues; 17 Pathology Methods in Nonclinical Neurotoxicity Studies: Evaluation of Muscle; 18 In Vivo Imaging Applications for the Nervous System in Animal Models; 19 Cerebrospinal Fluid Analysis in Toxicological Neuropathology; 20 Molecular Techniques in Toxicological Neuropathology; PART 3: TOXICOLOGICAL NEUROPATHOLOGY: CURRENT PRACTICES; 21 Evaluation of the Adult Nervous System in Preclinical Studies</p> <p>22 Pathology Methods in Nonclinical Neurotoxicity Studies: The Developing Central Nervous System23 Neuropathological Analysis of the Peripheral Nervous System; 24 Toxicological Pathology of the Retina and Optic Nerve; 25 Toxicological Neuropathology of the Ear; 26 Neuropathology of the Olfactory System; PART 4: APPLIED TOXICOLOGICAL NEUROPATHOLOGY; 27 Spinal Delivery and Assessment of Drug Safety; 28 Diagnostic Neuropathology; 29 Toxicological Neuropathology in Medical Practice; 30 Toxicological Neuropathology in Veterinary Practice</p> <p>31 Regulatory Considerations in Toxicological Neuropathology32 The Neuropathology Report and the Neuropathology Peer Review Report; 33 Preparation of Personnel for Performing Neuropathological Assessment; 34 Regulatory Guide to the Histopathological Assessment of Neurotoxicity Studies; 35 Toxicological Neuropathology: The Next Two Decades; APPENDIXES: READY REFERENCES OF NEUROBIOLOGY KNOWLEDGE; Appendix 1: Neural Cell Markers of Potential Utility for Toxicological Neuropathology Applications; Appendix 2: Text-Based Neuroanatomic Atlases for Toxicological Neuropathology Studies Appendix 3: Text-Based Neurobiology References for Toxicological Neuropathologists</p>
Sommario/riassunto	<p>This book offers pathologists, toxicologists, other medical professionals, and students an introduction to the discipline and techniques of neuropathology - including chemical and environmental, biological, medical, and regulatory details important for performing an analysis of toxicant-induced neurodiseases. In addition to a section on</p>

fundamentals, the book provides detailed coverage of current practices (bioassays, molecular analysis, and nervous system pathology) and practical aspects (data interpretation, regulatory considerations, and tips for preparing reports).

---