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| Nota di contenuto | DEVELOPMENTALNEUROTOXICOLOGYRESEARCH; CONTENTS; PREFACE; CONTRIBUTORS; I MODELS, APPROACHES, AND CHALLENGES IN NEUROTOXICITY RESEARCH DURING DEVELOPMENT; 1 APPROACHES AND MODELS FOR EVALUATING THE TOXIC EFFECTS OF ANESTHETICS IN THE DEVELOPING NERVOUS SYSTEM; 2 SYSTEMS BIOLOGY APPROACHES TO NEUROTOXICITY STUDIES DURING DEVELOPMENT; 3 BEHAVIORAL APPROACHES FOR ASSESSING NERVOUS SYSTEM FUNCTION DURING DEVELOPMENT IN ANIMAL MODELS; 4 APPLICATIONS OF UNBIASED STEREOLOGY TO NEURODEVELOPMENTAL TOXICOLOGY; II EFFECTS OF ANESTHETICS AND THEIR POTENTIAL NEUROTOXICITY DURING DEVELOPMENT 5 NEUROTOXIC EFFECTS OF ANESTHETICS AND POTENTIAL PROTECTIVE AGENTS6 PERINATAL RHESUS MONKEY MODELS AND ANESTHETIC-INDUCED NEURONAL CELL DEATH; 7 EFFECTS OF GASEOUS ANESTHETIC COMBINATIONS DURING DEVELOPMENT; 8 PERINATAL ANESTHETIC ADMINISTRATION AND SHORT LONG-TERM BEHAVIORAL DEFICITS; III |

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13 A NEURODEVELOPMENTAL ORIGIN FOR PAKINSON'S DISEASE: A LINK TO THE FETAL BASIS FOR ADULT DISEASE HYPOTHESIS; 14 GENETIC AND ENVIRONMENTAL FACTORS IN ATTENTION-DEFICIT HYPERACTIVITY DISORDER; IV RISK ASSESSMENT OF METHYL MERCURY AND ITS EFFECTS ON NEURODEVELOPMENT; 15 FISH NUTRIENTS AND METHYLMERCURY: A VIEW FROM THE LABORATORY
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Sommario/riassunto

This book describes how systems biology, pharmacogenomic and behavioral approaches, as applied to neurodevelopmental toxicology, provide a structure to arrange information in a biological model. Authors review and discuss approaches that can be used as effective tools to dissect mechanisms underlying pharmacological and toxicological phenomena associated with the exposure to drugs or environmental toxicants during development. This book presents cross-cutting research tools and animal models, along with applications to the studies associated with potential anesthetic-induced developmental neur
