

Developmental neurotoxicology research : principles, models, techniques, strategies, and mechanisms

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Abstrak

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 neurotoxicity; the developmental basis of adolescent or adult onset of disease; risk assessment of methyl mercury and its effects on neurodevelopment; challenges in the field to identify environmental factors of relevance to autism; and the strategy and progress of epilepsy research.