

This book delineates how systems biology, pharmacogenomic, and behavioral approaches, as applied to neurodevelopmental toxicology, provide a structure to arrange information in a biological model. The text reviews and discusses 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. The book intends to elaborate functional outcomes of component-to-component relationships using rodent and nonhuman primate *in vitro* and *in vivo* models that allow for the directional and quantitative description of the complete organism in response to environmental perturbations. In addition, attention has also been directed to some of the more recent methodologies, including genomics, proteomics and metabolomics, applied in the evolutionary neurobiological field.



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