



Human Developmental Toxicants: Aspects of Toxicology and Chemistry

James L. Schardein, Orest T. Macina

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Presenting the first database of its kind, this unique reference illustrates the relationships between the chemistry and developmental toxicity of a number of important pharmaceuticals and industrial toxicants. Human Developmental Toxicants contains up-to-date and concise information on the chemical structures, properties, and biological activities for 50 known agents that adversely affect prenatal and postnatal human development in terms of growth, viability, structure, and function.

This book presents data linking chemical and structural properties of specific toxicants as they relate to toxic effects, dosage, timing, and route of exposure. Focusing on one compound per chapter, the book also includes associated biological data from animals for each agent covered. An accompanying CD summarizes all of the data discussed in the text within an electronic database. In addition, the CD contains three-dimensional structure representations and 49 calculated physicochemical and topological parameters of the selected molecules. This information is useful for building structure activity relationship (SAR) models linking the chemical properties with observed human developmental toxicity.

As scientists continue to explore how chemicals alter human development, Human Developmental Toxicants contains the necessary information to further identify which chemical properties are responsible for adverse effects. This reference provides toxicologists, teratologists, chemists and other scientists with the latest data and information needed to perform risk assessments, predict chemicals that may produce developmental toxicity, and regulate harmful exposure.

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