



Toxicology and Epigenetics

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Epigenetics is the study of both heritable and non-heritable changes in the regulation of gene activity and expression that occur without an alteration in the DNA sequence. This dynamic and rapidly developing discipline is making its impact across the biomedical sciences, in particular in toxicology where epigenetic differences can mean that different individuals respond differently to the same drug or chemical.

Toxicology and Epigenetics reflects the multidimensional character of this emerging area of toxicology, describing cutting-edge molecular technologies to unravel epigenetic changes, the use of *in vivo* and *in vitro* models, as well as the potential use of toxicological epigenetics in regulatory environments. An international team of experts consider the interplay between epigenetics and toxicology in a number of areas, including environmental, nutritional, pharmacological, and computational toxicology, nanomaterials, proteomics and metabolomics, and cancer research.

Topics covered include:

- environment, epigenetics and diseases
- DNA methylation and toxicogenomics
- chromatin at the intersection of disease and therapy
- epigenomic actions of environmental arsenicals
- environment, epigenetics and cardiovascular health
- toxicology, epigenetics and autoimmunity
- ocular epigenomics: potential sites of environmental impact in development and disease
- nuclear RNA silencing and related phenomena in animals
- epigenomics – impact for drug safety sciences
- methods of global epigenomic profiling
- transcriptomics: applications in epigenetic toxicology

Toxicology and Epigenetics is an essential insight into the current trends and future directions of research in this rapidly expanding field for investigators, toxicologists, risk assessors and regulators in academia, industry and government.

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A lot of people always spent their free time to vacation or perhaps go to the outside with their loved ones or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, as well as playing video games all day long. If you wish to try to find a new activity that's look different you can read any book. It is really fun in your case. If you enjoy the book which you read you can spent the entire day to reading a book. The book Toxicology and Epigenetics it is quite good to read. There are a lot of folks that recommended this book. They were enjoying reading this book. In case you did not have enough space to bring this book you can buy the e-book. You can m0ore simply to read this book from your smart phone. The price is not to fund but this book features high quality.

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