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<b>Titolo</b>	Applications of toxicogenomic technologies to predictive toxicology and risk assessment / / Committee on Applications of Toxicogenomic Technologies to Predictive Toxicology ; Board on Environmental Studies and Toxicology ; Board on Life Studies ; Division on Earth and Life Studies ; National Research Council of the National Academies
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<b>Edizione</b>	[1st ed.]
<b>Descrizione fisica</b>	1 online resource (299 p.)
<b>Disciplina</b>	616/042
<b>Soggetti</b>	Genetic toxicology DNA microarrays - Statistical methods Health risk assessment Carcinogenesis
<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Note generali</b>	Bibliographic Level Mode of Issuance: Monograph
<b>Nota di bibliografia</b>	Includes bibliographical references.
<b>Nota di contenuto</b>	Introduction -- Toxicogenomic technologies -- Experimental design and data analysis -- Application to exposure assessment -- Application to hazard screening -- Application to analyzing variation in human susceptibility -- Application to the study of mechanisms of action -- Other potential applications of toxicogenomic technologies to risk assessment -- Validation -- Sample and data collection and analysis -- Ethical, legal, and social issues -- Concusions and recommendations.
<b>Sommario/riassunto</b>	The new field of toxicogenomics presents a potentially powerful set of tools to better understand the health effects of exposures to toxicants

in the environment. At the request of the National Institute of Environmental Health Sciences, the National Research Council assembled a committee to identify the benefits of toxicogenomics, the challenges to achieving them, and potential approaches to overcoming such challenges. The report concludes that realizing the potential of toxicogenomics to improve public health decisions will require a concerted effort to generate data, make use of existing data, and study data in new ways--an effort requiring funding, interagency coordination, and data management strategies.

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