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Descrizione fisica	1 online resource (299 p.)
Disciplina	616/.042
Soggetti	Genetic toxicology DNA microarrays - Statistical methods Health risk assessment Carcinogenesis
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	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 -- Conclusions and recommendations.
Sommario/riassunto	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.
