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| 1. Record Nr.          | UNINA9910824275603321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Autore                 | Boverhof Darrell R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Titolo                 | Applications of Toxicogenomics in Safety Evaluation and Risk Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pubbl/distr/stampa     | Hoboken : , : Wiley, , 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ISBN                   | 1-283-23966-3<br>9786613239662<br>1-118-00104-4<br>1-118-00103-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Edizione               | [First edition.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Descrizione fisica     | 1 online resource (402 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Altri autori (Persone) | GollapudiB. Bhaskar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disciplina             | 616.042<br>616/.042                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti               | Genetic toxicology<br>Health risk assessment<br>Risk Assessment<br>Toxicity testing<br>Toxicogenetics<br>Toxicology<br>Pharmacogenetics<br>Risk<br>Risk Management<br>Epidemiologic Measurements<br>Organization and Administration<br>Pharmacology<br>Probability<br>Genetics<br>Public Health<br>Health Occupations<br>Statistics as Topic<br>Biological Science Disciplines<br>Biology<br>Health Services Administration<br>Environment and Public Health<br>Natural Science Disciplines<br>Health Care<br>Health Care Evaluation Mechanisms<br>Epidemiologic Methods<br>Quality of Health Care |

Investigative Techniques  
Health Care Quality, Access, and Evaluation  
Health & Biological Sciences  
Toxicology & Public Health

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| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Nota di contenuto       | Contents; Preface; Contributors; 1 Toxicology, ""Omics"" Technologies, and Toxicogenomics: A Primer; 2 Introduction to Human Health Risk Assessment; 3 Practical Considerations for the Application of Toxicogenomics to Risk Assessment: Early Experience, Current Drivers, and a Path Forward; 4 Approaches and Practical Considerations for the Analysis of Toxicogenomics Data; 5 Genomics in Identifying Mutagenic Mode of Action in Carcinogenesis; 6 Application of Genomics for Predicting and Understanding the Mode of Action for Nongenotoxic Carcinogens; 7 Genomics in Characterizing Endocrine Toxicity 8 Studying Organ-Specific Toxicity Using Gene-Expression Profiling9 Toxicogenomic Studies in Human Populations; 10 Toxicogenomics Applied to Ecological Risk Assessment; 11 Analysis of Transcriptomic Dose-Response Data for Toxicology and Risk Assessment; 12 Toxicogenomics as a Tool for Validating Animal to Human Extrapolations in Chemical Risk Assessment: Concepts, Applications, and Challenges; 13 Toxicogenomics and Animal Alternatives; 14 Toxicogenomics and the Regulatory Framework; 15 Standardization of Gene-Expression Information for the Safety Evaluation: Activities in Japan 16 Applying Transcriptional Profiling in Drug Safety Evaluation17 Reframing the Risk Assessment Paradigm: Toward a Systems Biology Approach; Index |
| Sommario/riassunto      | This book provides a timely overview of toxicogenomics, with special emphasis on the practical applications of this technology to the risk assessment process. Introductory sections are followed by a series of chapters highlighting practical and systematic applications of toxicogenomics in informing the risk assessment process - including the areas of mutagenicity, carcinogenicity, endocrine toxicity, organ-specific toxicity, population monitoring, and ecotoxicology. The book concludes with approaches for the integration of this technology in safety evaluation studies, and an outlook on how tox                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |