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Nota di contenuto	1. Exposure Durations of Environmental Stresses or Toxicants -- 2. Exposure Stages of Environmental Stresses or Toxicants -- 3. Complex Exposures to Environmental Toxicants or Stresses -- 4. Transgenerational Toxicity of Environmental Toxicants or Stresses -- 5. Exposure Routes of Environmental Toxicants -- 6. Basic Endpoints for Toxicity Assessment of Environmental Toxicants or Stresses -- 7. Endpoints for Assessing the Toxicity on Primary Targeted Organs -- 8. Endpoints for Assessing the Toxicity on Secondary Targeted Organs -- 9. Endpoints for Assessing the Toxicity on Biochemical Processes -- 10. Endpoints for Assessing the Genotoxicity and the Genetic Toxicity -- 11. Role of Exposure Dose in Toxicity Induction of Environmental Toxicants or Stresses -- 12. Role of Environmental Factors in Toxicity Induction of Environmental Toxicants or Stresses -- 13. Effects of Environmental Sample Forms on Toxicity Induction -- 14. Roles of Physicochemical Properties of Toxicants in Toxicity Induction -- 15. Roles of Environmental Media and Chemical Transformations of Environmental Toxicants in Toxicity Induction -- 16. Bioavailability,

Enrichment, and Translocation of Environmental Toxicants -- 17. Susceptibility to Toxicants or Stresses Induced by Genetic Mutations -- 18. Contributors to Amplify the Toxicity of Toxicants or Stresses -- 19. Exposure to Certain Environmental Stresses -- 20. High-Throughput Toxicity Assessment -- 21. Toxicity Assessment under the Pathological Conditions.

Sommario/riassunto

This book focuses on exposure toxicology in C. elegans. The nematode Caenorhabditis elegans is sensitive to various environmental toxicants and stresses, and has proven to be an important animal model in both molecular and target-organ toxicology. As a result, over the past 30 years, there has been extensive research on the exposure to environmental toxicants or stresses in nematodes. Based on the available data, the book offers an introduction to the exposure system established in nematodes, discussing various aspects of endpoints that can potentially be used to assess the toxicity of environmental toxicants or stresses. Also exploring various factors affecting toxicity induction, and exposure to environmental toxicants and stresses, it allows readers to gain a systematic understanding of exposure toxicology in C. elegans. .