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Nota di contenuto	CANCER RISK ASSESSMENT: Chemical Carcinogenesis, Hazard Evaluation, and Risk Quantification; CONTENTS; PREFACE; CONTRIBUTORS; ABBREVIATIONS AND ACRONYMS; PART I: CANCER RISK ASSESSMENT, SCIENCE POLICY, AND REGULATORY FRAMEWORKS; CHAPTER 1: CANCER RISK ASSESSMENT; CHAPTER 2: SCIENCE POLICY AND CANCER RISK ASSESSMENT; CHAPTER 3: HAZARD AND RISK ASSESSMENT OF CHEMICAL CARCINOGENICITY WITHIN A REGULATORY CONTEXT; CHAPTER 4: USE OF CANCER RISK ASSESSMENTS IN DETERMINATION OF REGULATORY STANDARDS; PART II: CANCER BIOLOGY AND TOXICOLOGY; CHAPTER 5: THE INTERPLAY OF CANCER AND BIOLOGY CHAPTER 6: CHEMICAL CARCINOGENESIS: A BRIEF HISTORY OF ITS CONCEPTS WITH A FOCUS ON POLYCYCLIC AROMATIC HYDROCARBONS CHAPTER 7: HORMESIS AND CANCER RISKS: ISSUES

AND RESOLUTION; CHAPTER 8: THRESHOLDS FOR GENOTOXIC CARCINOGENS: EVIDENCE FROM MECHANISM-BASED CARCINOGENICITY STUDIES; PART III: GENETIC TOXICOLOGY, TESTING GUIDELINES AND REGULATIONS, AND NOVEL ASSAYS; CHAPTER 9: DEVELOPMENT OF GENETIC TOXICOLOGY TESTING AND ITS INCORPORATION INTO REGULATORY HEALTH EFFECTS TEST REQUIREMENTS; CHAPTER 10: GENETIC TOXICOLOGY TESTING GUIDELINES AND REGULATIONS; CHAPTER 11: IN VITRO GENOTOX ASSAYS
CHAPTER 12: IN VIVO GENOTOXICITY ASSAYS
PART IV: ASSESSING THE HUMAN RELEVANCE OF CHEMICAL-INDUCED TUMORS; CHAPTER 13: FRAMEWORK ANALYSIS FOR DETERMINING MODE OF ACTION AND HUMAN RELEVANCE; CHAPTER 14: EXPERIMENTAL ANIMAL STUDIES AND CARCINOGENICITY; CHAPTER 15: CANCER EPIDEMIOLOGY; CHAPTER 16: RODENT HEPATOCARCINOGENESIS; CHAPTER 17: MODE OF ACTION ANALYSIS AND HUMAN RELEVANCE OF LIVER TUMORS INDUCED BY PPAR α ACTIVATION; CHAPTER 18: ALPHA 2U-GLOBULIN NEPHROPATHY AND CHRONIC PROGRESSIVE NEPHROPATHY AS MODES OF ACTION FOR RENAL TUBULE TUMOR INDUCTION IN RATS, AND THEIR POSSIBLE INTERACTION
CHAPTER 19: URINARY TRACT CALCULI AND BLADDER TUMORS
PART V: METHODS FOR INFORMING CANCER RISK QUANTIFICATION; CHAPTER 20: (Q) SAR ANALYSIS OF GENOTOXIC AND NONGENOTOXIC CARCINOGENS: A STATE-OF-THE-ART OVERVIEW; CHAPTER 21: PHYSIOLOGICALLY BASED PHARMACOKINETIC (PBPK) MODELS IN CANCER RISK ASSESSMENT; CHAPTER 22: GENOMICS AND ITS ROLE IN CANCER RISK ASSESSMENT; CHAPTER 23: COMPUTATIONAL TOXICOLOGY IN CANCER RISK ASSESSMENT; PART VI: GENERAL APPROACHES FOR QUANTIFYING CANCER RISKS; CHAPTER 24: LINEAR LOW-DOSE EXTRAPOLATIONS
CHAPTER 25: QUANTITATIVE CANCER RISK ASSESSMENT OF NONGENOTOXIC CARCINOGENS
CHAPTER 26: NONLINEAR LOW-DOSE EXTRAPOLATIONS; CHAPTER 27: CANCER RISK ASSESSMENT: MORE UNCERTAIN THAN WE THOUGHT; CHAPTER 28: COMBINING NEOPLASMS FOR EVALUATION OF RODENT CARCINOGENESIS STUDIES; CHAPTER 29: CANCER RISK BASED ON AN INDIVIDUAL TUMOR TYPE OR SUMMING OF TUMORS; CHAPTER 30: EXPOSURE RECONSTRUCTION AND CANCER RISK ESTIMATE DERIVATION; INDEX

Sommario/riassunto

"With a weight-of-the-evidence approach, cancer risk assessment identifies hazards, determines dose-response relationships, and assesses exposure to characterize the true risk. This book focuses on the quantitative methods for conducting chemical cancer risk assessments for solvents, metals, mixtures, and nanoparticles. It links these to the basic toxicology and biology of cancer, along with the impacts on regulatory guidelines and standards. By providing insightful perspective, Cancer Risk Assessment helps researchers develop a discriminate eye when it comes to interpreting data accurately and separating relevant information from erroneous"--Provided by publisher.
