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NANOPARTICLES

CHAPTER 8: ROLE OF CHEMICAL COMPOSITION IN DETERMINING THE CARDIOVASCULAR EFFECTS OF PARTICLESPART III: METHODOLOGY; CHAPTER 9: IN VITRO STUDIES; CHAPTER 10: EXPERIMENTAL STUDIES IN ANIMALS; CHAPTER 11: HUMAN EXPOSURE STUDIES; CHAPTER 12: PANEL STUDIES; PART IV: PARTICLES AND CARDIOVASCULAR DISEASE: MECHANISMS A. ATHEROGENESIS; CHAPTER 13: PARTICULATES AND OXIDATIVE STRESS; CHAPTER 14: ROLE OF INFLAMMATION IN THE ATHEROGENIC EFFECTS OF PARTICULATE MATTER; CHAPTER 15: INHALED PARTICLES, POSTPRANDIAL LIPIDS, AND THEIR POSSIBLE CONTRIBUTION TO ATHEROGENESIS: THE TROJAN HORSE HYPOTHESIS CHAPTER 16: INHALED PARTICULATE MATTER AND ATHEROSCLEROSIS IN HUMANSPART IV: PARTICLES AND CARDIOVASCULAR DISEASE: MECHANISMS B. VASCULAR DYSFUNCTION; CHAPTER 17: EFFECTS OF NANOPARTICLES ON THE PULMONARY VASCULATURE; CHAPTER 18: PARTICULATE MATTER, HYPERTENSION, AND THE METABOLIC SYNDROME; CHAPTER 19: PARTICLES AND THE VASCULAR ENDOTHELIUM; PART IV: PARTICLES AND CARDIOVASCULAR DISEASE: MECHANISMS C. THROMBOSIS; CHAPTER 20: PARTICLES, COAGULATION, AND THROMBOSIS; CHAPTER 21: PARTICLES AND THE PATHOGENESIS OF ATHEROTHROMBOSIS

PART IV: PARTICLES AND CARDIOVASCULAR DISEASE: MECHANISMS D. ARRHYTHMIACHAPTER 22: PARTICLES AND THE AUTONOMIC NERVOUS SYSTEM; CHAPTER 23: AIR POLLUTION AND ARRHYTHMIA; PART V: ENVIRONMENTAL AND PUBLIC HEALTH POLICY; CHAPTER 24: RISK ASSESSMENT; CHAPTER 25: ENVIRONMENTAL REGULATION OF PARTICULATE MATTER; CHAPTER 26: FROM AMBIENT ULTRAFINE PARTICLES TO NANOTECHNOLOGY AND NANOTOXICOLOGY; INDEX; Color plate

Sommario/riassunto

This book assists scientists, toxicologists, clinicians, and public health regulators to understand the complex issues that determine the impact of air pollution on the cardiovascular system. It covers a range of relevant topics including particulate matter (PM) sources and characterization, methods of exposure, impact of PM on cells and systems, role of particles in the pathophysiology of cardiovascular disease, risk assessment, and potential environmental and therapeutic interventions.