Record Nr. UNINA9910784506303321 Air pollution and health [[electronic resource] /] / Jon Ayres, Robert **Titolo** Maynard, Roy Richards [editors] Pubbl/distr/stampa London, : Imperial College Press Hackensack, N.J., : distributed by World Scientific, c2006 **ISBN** 1-281-86741-1 9786611867416 1-86094-923-1 Descrizione fisica 1 online resource (264 p.) Collana Air pollution reviews;;3 Altri autori (Persone) AvresJ. G MaynardRob RichardsRoy Disciplina 615.902 Soggetti Air - Pollution - Physiological effect Particles - Physiological effect Aerosols - Physiological effect Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto CONTENTS : CONTRIBUTORS ; Preface ; 1 The Role of the Nose in Health and Disease : 1 Introduction ; 2 The Nose as a Defender of the Airway ; 2.1 Filtration of Suspended Particulate Matter ; 2.2 Humidincation of Inspired Air ; 2.3 The Nose as a Heat Exchanger 2.4 Mucociliary Clearance 2.5 Innervation of the Nose and Nasal Reflexes : 3 Effects of Pollutants on the Nose : 3.1 Effects on Sensory Nerves ; 3.2 Effects on Mucociliary ; 3.3 Effects on Epithelial Cells Clearance ; 3.4 Effects on Immune System : 3.5 Rhinitis and Air Pollution 4 Summary References ; 2 Cardiovascular Effects of **Particles** ; 1 Introduction ; 2 ; 2.1 Air Pollution and Mortality **Epidemiology** 

: 2.2 Air Pollution and Cardiovascular Mortality and Morbidity : 2.3 Pollutants Implicated in Cardiovascular Health Effects : 3 Potential Mechanisms 3.1 The Inflammatory Hypothesis 3.2 The Autonomic Hypothesis ; 3.3 Air Pollution and Coronary Vasoconstriction : 4 Future Experimental Research and Considerations in Exposure Studies ; 3 Point Sources of Air Pollution - Investigation : References of Possible Health Effects Using Small Area Methods; 1 Introduction : 2 Data Sources 2.1 Health Data 2.2 Population Data ; 2.3 **Exposure Assessment** : 2.4 Socioeconomic ; 3 Assessing Effects of Factory Confounding Emissions on the Health of Local Populations ; 3.1 Example of a Point Source Investigation : 3.2 Cluster Investigation : 4 Conclusions References 4 Characterisation of Airborne Particulate Matter and Related Mechanisms of Toxicity: An Experimental Approach

## Sommario/riassunto

This invaluable volume, the third in the series <i>Air Pollution Reviews</i>, addresses particular questions relating to air pollution and its effect on health. It deals with the impact of nasal disease on lung exposure, how pollutants are distributed within the lung, and the uncertainties with regard to defining the dose to the lung. It takes a tangential look at the lung dose by exploring the possibility of obtaining clues from occupational medicine. Toxicologically, the book examines the possible methodology for exploring how particles and their toxicity can be investigated, and looks int