

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910815161503321  |
| Titolo                  | Air pollution and health // Jon Ayres, Robert Maynard, Roy Richards [editors]  |
| Pubbl/distr/stampa      | London, : Imperial College Press<br>Hackensack, N.J., : distributed by World Scientific, c2006   |
| ISBN                    | 1-281-86741-1<br>9786611867416<br>1-86094-923-1  |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (264 p.)   |
| Collana                 | Air pollution reviews ; ; 3  |
| Altri autori (Persone)  | AyresJ. G<br>MaynardRob<br>RichardsRoy   |
| Disciplina              | 615.902  |
| Soggetti                | Air - Pollution - Physiological effect<br>Particles - Physiological effect<br>Aerosols - Physiological effect  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | CONTENTS ; CONTRIBUTORS ; Preface ; 1<br>The Role of the Nose in Health and Disease<br>; 1 Introduction ; 2 The Nose as a Defender of the Airway<br>; 2.1 Filtration of Suspended Particulate Matter<br>; 2.2 Humidincation of Inspired Air ; 2.3 The<br>Nose as a Heat Exchanger<br>2.4 Mucociliary Clearance 2.5 Innervation of the<br>Nose and Nasal Reflexes ; 3 Effects of<br>Pollutants on the Nose ; 3.1 Effects on<br>Sensory Nerves ; 3.2 Effects on Mucociliary<br>Clearance ; 3.3 Effects on Epithelial Cells<br>; 3.4 Effects on Immune System ; 3.5 Rhinitis and<br>Air Pollution<br>4 Summary References ; 2 Cardiovascular Effects of<br>Particles ; 1 Introduction ; 2<br>Epidemiology ; 2.1 Air Pollution and Mortality |

; 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  
Autonomic Hypothesis  
Coronary Vasoconstriction  
Experimental Research and Considerations in Exposure Studies  
; References  
; 3 Point Sources of Air Pollution - Investigation of Possible Health Effects Using Small Area Methods ; 1 Introduction  
; 2 Data Sources  
2.1 Health Data  
Exposure Assessment  
Confounding  
Emissions on the Health of Local Populations  
; 3.1 Example of a Point Source Investigation  
; 3.2 Cluster Investigation  
; 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 *Air Pollution Reviews*, 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

---