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Nota di contenuto	Intro -- METHYLMERCURY FORMATION, SOURCES AND HEALTH EFFECTS -- METHYLMERCURY FORMATION, SOURCES AND HEALTH EFFECTS -- CONTENTS -- PREFACE -- Chapter 1 THE ROLE OF SELENIUM IN MITIGATING MERCURY TOXICITY -- ABSTRACT -- INTRODUCTION -- MERCURY BIOGEOCHEMISTRY AND HUMAN EXPOSURES -- SELENIUM NUTRITION AND PHYSIOLOGY -- MOLECULAR MECHANISMS OF MERCURY-SELENIUM INTERACTIONS -- Silencing of Selenium (SOS-1) -- Sequestration of Selenium (SOS-2) -- SOS-1 and SOS-2 Induced Generation of Apoptosis Initiators -- PROTECTIVE ROLE OF DIETARY SELENIUM AGAINST MERCURY TOXICITY -- FISH CONSUMPTION ADVISORIES -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 2 FISH AS A DIETARY SOURCE OF MERCURY AND METHYLMERCURY, RISKS AND BENEFITS -- CHEMICAL AND PHYSICAL PROPERTIES OF MERCURY -- INORGANIC FORMS OF MERCURY -- ORGANIC FORMS OF MERCURY -- SOURCES OF MERCURY IN THE ENVIRONMENT -- NATURAL SOURCES -- ANTHROPOGENIC RELEASES FROM THE MOBILIZATION OF MERCURY IMPURITIES IN MATERIALS -- ANTHROPOGENIC RELEASES FROM MERCURY USED IN PRODUCTS AND PROCESSES -- EMISSION OF MERCURY TO THE AIR -- EMISSION OF MERCURY TO THE WATER -- EMISSION OF MERCURY TO THE SOIL -- RE-MOBILIZATION OF HISTORIC ANTHROPOGENIC MERCURY -- GLOBAL CYCLING, TRANSPORT AND FATE OF MERCURY IN

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Sommario/riassunto

Methylmercury (MeHg) is considered a major environmental pollutant that bioaccumulates in fish tissues in direct relation to their age and predatory status. This title presents research from across the globe in the study of methylmercury, including the role of selenium in mitigating mercury toxicity.
