



Nitrite and nitrate in human health and disease /

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Monografía

Nitrite and Nitrate in Human Health and Disease delivers a comprehensive review of nitrite and nitrate biology, from basic biochemistry to the complex physiology and metabolism of these two naturally occurring molecules in the human body. Well-organized and well referenced chapters cover the rich history of nitrite and nitrate, sources of exposure, and the physiological effects when consumed through foods containing nitrite and nitrate. The chapters are written by leading experts, all of whom share their research and perspectives in order to help define the context for benefits vs. any potential risks associated with nitrite and nitrate use, either through dietary ingestion or therapeutic dosing. This diverse collection of authors includes vascular biologists, physiologists, physicians, epidemiologists, cancer biologists, registered dietitians, chemists, and public health experts from five countries in both academia and government. Nitrite and Nitrate in Human Health and Disease provides a balanced view of nitric oxide biochemistry, and nitrite and nitrate biochemistry in physiology and in the food sciences

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Contenido: Introduction -- From Atmospheric Nitrogen to Bioactive Nitrogen Oxides -- The Nitrate-Nitrite-Nitric Oxide Pathway in Mammals -- Sources of Exposure to Nitrogen Oxides -- History of Nitrite and Nitrate in Food -- Nutritional Epidemiology of Nitrogen Oxides: What do the Numbers Mean? -- Nutritional Impact on the Nitric Oxide Pathway -- Dietary Flavonoids as Modulators of NO Bioavailability in Acute and Chronic Cardiovascular Diseases -- Nitrite and Nitrate in Human Breast Milk: Implications for Development -- Regulation of Dietary Nitrate and Nitrite: Balancing Essential Physiological Roles with Potential Health Risks -- Nitric Oxide Signaling in Health and Disease -- Inhaled Nitric Oxide -- Pharmacology of Nitrovasodilators -- Nitrite and Nitrate in

Ischemia-Reperfusion Injury -- The Nitrate-Nitrite-Nitric Oxide Pathway in Traditional Herbal Medicine for Heart Disease -- Nitrite and Nitrate in Cancer -- Looking Forward

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