



Molecular Basis of Nutrition and Aging: A Volume in the Molecular Nutrition Series

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Molecular Basis of Nutrition and Aging: A Volume in the Molecular Nutrition Series focuses on the nutritional issues associated with aging and the important metabolic consequences of diet, nutrition, and health. The book is subdivided into four parts that reflect the impact of nutrition from a biomolecular level to individual health.

In Part One, chapters explore the general aspects of aging, aging phenotypes, and relevant aspects of nutrition related to the elderly and healthy aging. Part Two includes molecular and cellular targets of nutrition in aging, with chapters exploring lipid peroxidation, inflammaging, anabolic and catabolic signaling, epigenetics, DNA damage and repair, redox homeostasis, and insulin sensitivity, among others.

Part Three looks at system-level and organ targets of nutrition in aging, including a variety of tissues, systems, and diseases, such as immune function, the cardiovascular system, the brain and dementia, muscle, bone, lung, and many others. Finally, Part Four focuses on the health effects of specific dietary compounds and dietary interventions in aging, including vitamin D, retinol, curcumin, folate, iron, potassium, calcium, magnesium, zinc, copper, selenium, iodine, vitamin B, fish oil, vitamin E, resveratrol, polyphenols, vegetables, and fruit, as well as the current nutritional recommendations.

- Offers updated information and a perspectives on important future developments to different professionals involved in the basic and clinical research on all major nutritional aspects of aging
- Explores how nutritional factors are involved in the pathogenesis of aging across body systems
- Investigates the molecular and genetic basis of aging and cellular senescence through the lens of the rapidly evolving field of molecular nutrition

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