



Molecular Nutrition and Diabetes: A Volume in the Molecular Nutrition Series

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Molecular Nutrition and Diabetes: A Volume in the Molecular Nutrition Series focuses on diabetes as a nutritional problem and its important metabolic consequences. Fuel metabolism and dietary supply all influence the outcome of diabetes, but understanding the pathogenesis of the diabetic process is a prelude to better nutritional control.

Part One of the book provides general coverage of nutrition and diabetes in terms of dietary patterns, insulin resistance, and the glucose-insulin axis, while Part Two presents the molecular biology of diabetes and focuses on areas such as oxidative stress, mitochondrial function, insulin resistance, high-fat diets, nutriceuticals, and lipid accumulation. Final sections explore the genetic machinery behind diabetes and diabetic metabolism, including signaling pathways, gene expression, genome-wide association studies, and specific gene expression. While the main focus of each chapter is the basic and clinical research on diabetes as a nutritional problem, all chapters also end with a translational section on the implications for the nutritional control of diabetes.

- Offers updated information and a perspective on important future developments to different professionals involved in the basic and clinical research on all major nutritional aspects of diabetes mellitus
- Explores how nutritional factors are involved in the pathogenesis of both type1 and type2 diabetes and their complications
- Investigates the molecular and genetic bases of diabetes and diabetic metabolism through the lens of a rapidly evolving field of molecular nutrition



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