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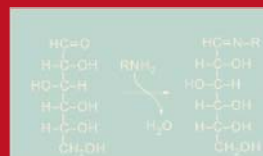
Editors: Erwin Schleicher, Veronika Somoza,
and Peter Schieberle

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The Maillard reaction is at the crossroads of food and biomedical sciences, and this volume addresses the role of Maillard reactions in aging and disease through a wide range of interdisciplinary research reports. The role of the Maillard reaction in diabetic complications, for example, has become a major focus of recent research, leading to a better understanding of the importance of hyperglycemia, oxidative stress, and lipid peroxidation in the pathogenesis of complications, including nephropathy, retinopathy, neuropathy, and macrovascular complications.

Chemical damage to protein by glycoxidation and lipoxidation reactions with its attendant damage to DNA are discussed in relation to the development of loss of function and disease. Also included are reports on AGE/ALE inhibitors in animal models and clinical trials and an assessment of the current status of pharmaceutical interventions for retarding the Maillard reaction and the pathophysiology associated with aging and age-related disease.



The Maillard Reaction

*Recent Advances in
Food and Biomedical Sciences*

edited by
*Erwin Schleicher
Veronika Somoza
Peter Schieberle*

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