

The Maillard Reaction



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The Maillard reaction is at the crossroads of food and biomedical sciences: it contributes to the natural and normal aging of tissues, but, when accelerated, it contributes to the development of pathologic conditions in a number of age-related chronic diseases, including arthritis, atherosclerosis, diabetes, and neurodegenerative diseases. This volume addresses these focus areas through a wide range of interdisciplinary research reports on the role of Maillard reactions in aging and disease. 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 are two sides of the same coin, one side representing the damage to tissue proteins by sugar, the other side by lipids. In both cases, the chemical modification of tissue proteins by oxidative chemical reactions, and underlying damage to DNA, contributes to loss of function and development of disease. The final sections of the volume are devoted to recent research on AGE/ALE inhibitors in animal models and clinical trials and assess the current status of pharmaceutical interventions for retarding the Maillard reaction and the pathophysiology associated with aging and

age-related disease. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions, please visit www.blackwellpublishing.com/nyas. ACADEMY MEMBERS: Please contact the New York Academy of Sciences directly to place your order (www.nyas.org). Members of the New York Academy of Science receive full-text access to the Annals online and discounts on print volumes. Please visit <http://www.nyas.org/MemberCenter/Join.aspx> for more information about becoming a member

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