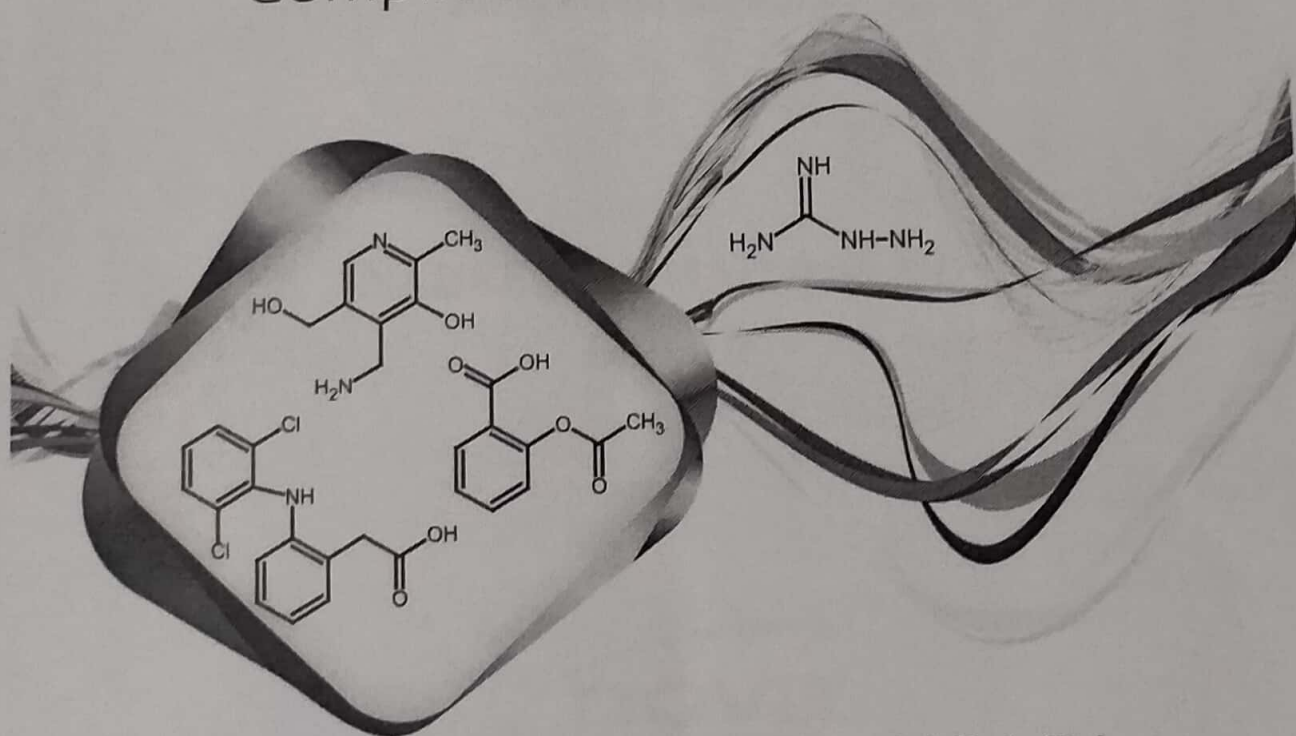


A Closer Look at Glycation

A Potential Hotspot for Age-Related
Complications and Diseases



NADEEM AHMAD ANSARI
EDITOR

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CONTENTS

Preface		vii
Acknowledgments		ix
Chapter 1	A Study on the Role of Glycated Proteins in Age-Related Diseases and Their Potential to Become a Novel Biomarker for Early Diagnosis of Diseases <i>Nadeem Ahmad Ansari</i>	1
Chapter 2	The Effects of Glycation on Serum Albumins <i>Atanu Singha Roy, Sharat Sarmah and Sourav Das</i>	21
Chapter 3	Enhancing Effect of L-Lysine on Glycation of Histone H1 and Bovine Serum Albumin <i>In vitro</i> <i>Yordan Handzhiyski, Rositsa Tsekovska, Kiril Kirilov, Toshimitsu Niwa, Ivan Ivanov and Roumyana Mironova</i>	79
Chapter 4	Dietary Advanced Glycation Endproducts: An Increasing Concern <i>Gengjun Chen and J. Scott Smith</i>	99

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Chapter 5	The Effects of Advanced Glycation Endproducts (AGEs) on Bone Biomechanics and Remodeling <i>Xiao Yang, Lian-wen Sun and Xiaodu Wang</i>	127
Chapter 6	Advanced Glycation Endproducts: Their Role in Aging, Diseases, and Forensic Science <i>Sara C. Zapico and Cassandra M. DeGaglia</i>	181
Chapter 7	Potential Inhibitory Effects of Plant and Cyanobacteria-Derived Natural Products on Advanced Glycation End-Product Formation <i>Rungaroon Waditee-Sirisattha, Masaki Honda, Takashi Hibino and Hakuto Kageyama</i>	201
Chapter 8	Repurposing Drugs for the Inhibition of Advanced Glycation Endproducts Formation: A Computational Study of the Chemical Reactivity Properties of the Met-Enkephalin Neurotransmitter Peptide by Means of Conceptual DFT <i>Norma Flores-Holguín, Juan Frau and Daniel Glossman-Mitnik</i>	225
Commentary	Perspectives in Glycation Biology <i>Mahesh J. Kulkarni</i>	241
About the Editor		247
Index		249

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Chapter 1

**A STUDY ON THE ROLE OF GLYCATED
PROTEINS IN AGE-RELATED DISEASES
AND THEIR POTENTIAL TO BECOME
A NOVEL BIOMARKER FOR EARLY
DIAGNOSIS OF DISEASES**

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ABSTRACT

Hyperglycemia, a major characteristic of Diabetes mellitus, is caused by the deficiency/abnormality in insulin secretion or its action leading to decreased glucose utilization and increased glucose production. This would result in glycation of amino acid groups of nucleic acids, proteins and lipoproteins. These glycated biomolecules and their advanced glycation end products (AGEs) could lead to damage and functional loss

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