Special Issue

Glycative Stress and Anti-glycative Mechanisms in Aging and Age-Related Diseases

Message from the Guest Editors

Glycation is a non-enzymatic process by which sugars or sugar metabolites are covalently bound to proteins, lipids, and DNA. Glycated biomolecules are generated in hyperglycemic states, which occur in diabetes mellitus and upon the consumption of high-sugar diets in non-diabetics, particularly in older individuals. In order to combat glycative stress, there are different defense mechanisms against the accumulation of advanced glycation end products (AGEs). However, the age-related decline in the function of these activities results in glycative modification and damage upon aging and age-related diseases. Such damage may be etiologic for aging and age-related diseases. Exploring the role of anti-AGEs mechanisms in different tissues/organs in the context of aging will help to elucidate the cellular basis of glycative stress in age-related diseases and inform the development of future therapeutic tools.

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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