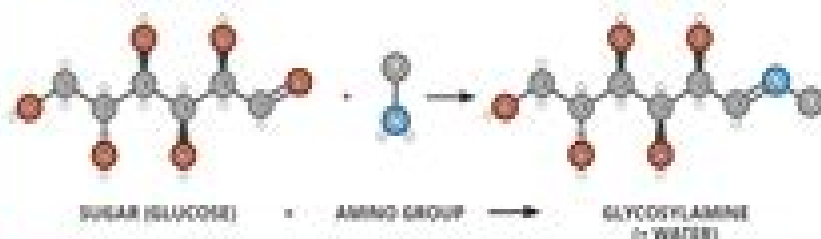


A GUIDE TO THE MAILLARD REACTION

The Maillard reaction occurs during cooking, and it is responsible for the non-enzymatic browning of foods when cooked. It actually consists of a number of reactions, and can occur at room temperature, but is optimal between 140-165°C. The Maillard reaction occurs in three stages, detailed here.

1

The carbonyl group on a sugar reacts with a protein or amino acid's amino group, producing an N-substituted glycosylamine.



2

The glycosylamine compound generated in the first step isomerises, by undergoing Amadori rearrangement, to give a ketosamine.



3

The ketosamine can react in a number of ways to produce a range of different products, which themselves can react further.



Classes of Maillard Reaction Products



The Maillard reaction produces hundreds of products; a small subset of these contribute to flavour and aroma, some groups of which are described below. Melanoidins are also formed; brown, polymeric substances which contribute to the colouration of many cooked foods.



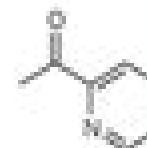
PIRAZINES
cooked
roasted
toasted



PYRROLES
cereal-like
nutty



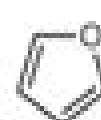
ALKYLPYRIDINES
bitter
burnt
astringent



ACETYPYRIDINES
crackling-like
cereal



FURANONES
sweet
caramel
burnt



FURANS
meaty
burnt
caramel-like



OXAZOLES
green
nutty
sweet



THIOPHENES
meaty
roasted

The Maillard Reaction Chemistry Biology And Implications

Jack N. Losso



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Brief introduces different analytical methods which can be used to investigate and characterize Maillard Reactions and their products in foods including for example capillary electrophoresis high performance liquid chromatography gas chromatography with mass spectrometric detection UV VIS spectrophotometry fluorescence electronic nose gravimetric systems and many more The chapters exemplify how the analytical techniques can be applied for assessing and evaluating different Maillard Reaction products in foods Readers will find basic information as well as practical hints and guidelines for application in their own laboratory

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various commercial plastics Generic source based nomenclature for polymers Therapeutic enzymes About the Editors Roger L Lundblad Ph D Roger L Lundblad is a native of San Francisco California He received his undergraduate education at Pacific Lutheran University and his PhD degree in biochemistry at the University of Washington After postdoctoral work in the laboratories of Stanford Moore and William Stein at the Rockefeller University he joined the faculty of the University of North Carolina at Chapel Hill He joined the Hyland Division of Baxter Healthcare in 1990 Currently Dr Lundblad is an independent consultant and writer in biotechnology in Chapel Hill North Carolina He is an adjunct Professor of Pathology at the University of North Carolina at Chapel Hill and Editor in Chief of the Internet Journal of Genomics and Proteomics Fiona M Macdonald Ph D F R S C Fiona M Macdonald received her BSc in chemistry from Durham University UK She obtained her PhD in inorganic biochemistry at Birkbeck College University of London studying under Peter Sadler Having spent most of her career in scientific publishing she is now at Taylor and Francis and is involved in developing chemical information products

The Magic of Molecules: Exploring Chemical Reactions Dr. M. Ziauddin Shahzada ,2025-08-25 *Plant Secondary Metabolites* Alan Crozier, Mike N. Clifford, Hiroshi Ashihara, 2008-04-15 Plant secondary metabolites have been a fertile area of chemical investigation for many years driving the development of both analytical chemistry and of new synthetic reactions and methodologies The subject is multi disciplinary with chemists biochemists and plant scientists all contributing to our current understanding In recent years there has been an upsurge in interest from other disciplines related to the realisation that secondary metabolites are dietary components that may have a considerable impact on human health and to the development of gene technology that permits modulation of the contents of desirable and undesirable components Plant Secondary Metabolites Occurrence Structure and Role in the Human Diet addresses this wider interest by covering the main groups of natural products from a chemical and biosynthetic perspective with illustrations of how genetic engineering can be applied to manipulate levels of secondary metabolites of economic value as well as those of potential importance in diet and health These descriptive chapters are augmented by chapters showing where these products are found in the diet how they are metabolised and reviewing the evidence for their beneficial bioactivity

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ADP-Ribosylation in Animal Tissues Friedrich Haag, Friedrich Koch-Nolte, 2012-02-02 Proceedings of an international workshop held in Hamburg Germany May 19 23 1996 **The**

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the atherogenic process is complex and evolves over a long period of time

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