



The Novel Roles of Macromolecules in Food Science and Their Inhibitory Effects on Foodborne Hazards

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Message from the Guest Editors

Dear Colleagues,

In order to obtain satisfactory quality, food materials are usually processed. However, along with the improvement in food quality, the Maillard reaction in foods gives rise to toxic byproducts, such as heterocyclic amines (HCAs), acrylamide (AA), advanced glycation end products (AGEs), acrylamide, ethyl carbamate, methylimidazole, etc. The inhibition of their formation during thermal processing is the most practical way to minimize their dietary exposure and thus the associated health risks. Recently, studies in this area have become much more popular, and various effective strategies have been proposed, especially with the use of exogenous additives such as some macromolecules.

Based on the increasing safety concerns of food processing procedures, it would be interesting to report the latest research on the generation and control of harmful products during food processing using macromolecules.





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