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Food Toxicology: Effects of Food Safety Hazards on Animals and Human Cells

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Message from the Guest Editors

Dear Colleagues,

Food safety hazards can lead to a variety of food-borne illnesses in humans, some of which are even life-threatening. Nonetheless, the molecular mechanisms and targets of most hazards remain unclear. Detailed disclosure of the toxicity mechanism and bioavailability of food safety hazards is required. Animal models and cellular models are commonly used in the toxicological evaluation of food safety hazards. While animal models offer advantages such as short reproduction cycles and genetic manipulation, they are also limited by genetic background differences and ethical considerations. In contrast, in vitro cultured cellular models compensate for these drawbacks and reflect the organism's changes from a general to a detailed level. In-depth exploration of the effects of food safety hazards on animal or human cells and the related molecular mechanisms can provide a more accurate basis for control, standardization and revision of food safety.



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Special Issue



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Message from the Editor-in-Chief

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