Special Issue

The Mutual Interaction between Mycotoxins and Gut Microbiome

Message from the Guest Editors

The health effects of mycotoxins have been known for many years. Maximum tolerated or recommended doses in food and feed are set for the most well-known mycotoxins in humans and animals. However, few data are available on the impact these compounds could have on the intestinal microbiota. Knowledge in the field has evolved, particularly in recent years, allowing a fine analysis of the problem. New techniques for identifying the microorganisms that populate the intestine based on the study of genes (DNA) provide a better knowledge of these populations. The digestive tract contains more bacteria than there are cells in the body, some bacteria being involved in the digestion of food, others in barrier effects, and still others, present in small quantities, can develop and lead to various pathological processes. At the same time, analytical methods for the determination of mycotoxins and their metabolites have progressed considerably. The measurement of the effects of toxins in mixtures, but also the study of the metabolites of the main toxins are now possible at low levels of food contamination, compatible with realistic exposure thresholds.

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Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

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