



toxins



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The Mutual Interaction between Mycotoxins and Gut Microbiome

Guest Editors:

Prof. Dr. Chiara Dall'Asta

Department of Food and Drug,
University of Parma, Parco Area
delle Scienze 27/A, 43124 Parma,
Italy

Prof. Dr. Philippe Guerre

ENVT, Université de Toulouse,
INP, UR Mycotoxicologie, F-31076
Toulouse, France

Deadline for manuscript
submissions:

closed (30 September 2021)

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.



mdpi.com/si/43067

Special Issue



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Prof. Dr. Jay Fox

Department of Microbiology,
University of Virginia,
Charlottesville, VA, USA

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Toxins Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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