



toxins



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Mycotoxins and Its Gene Regulation

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Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

Fungi, especially filamentous fungi, produce a diverse array of secondary metabolites (SMs), including toxic SMs, also known as mycotoxins. While among approximately 400 mycotoxins reported, most mycotoxins are known as food contamination, such as aflatoxin and ochratoxin A (OTA), some mycotoxins such as gliotoxin are involved in fungal infection in humans. Investigating the regulation mechanisms of mycotoxins is a prerequisite for controlling food contamination and pathogenicity. Comparative genomics and transcriptomics are addressing the sequence and regulation diversities of SM gene clusters, although it is conceivable that the gene regulation of SM gene clusters could be very complicated. In this Special Issue, not only current knowledge about mycotoxins but also genomics approaches with the aid of NGS are summarized.

Dr. Hiroki Takahashi
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Guest Editors



mdpi.com/si/32247

Special Issue



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