

## Tentative Outline

### Special Thematic Issue for Current Dugs Metabolism

**Title of the thematic issue:** Interactions Between Mycotoxins and Drug Metabolizing Enzymes

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#### **Aims & Scope:**

Drug metabolizing enzymes play pivotal roles in drug detoxification and activation, which exert important effects on drug efficacy and sensitivity to toxicity. Drug metabolizing enzymes also play significant roles in metabolism of environmental chemicals. For example, phase I and II metabolizing enzymes play key roles in the bioactivation and detoxification of aflatoxin B<sub>1</sub>, respectively. On the other hand, mycotoxins can induce or inhibit drug metabolizing enzymes. For example, numerous mycotoxins can regulate the activities of some drug metabolizing enzymes, thus affect the drug efficacy and xenobiotic chemicals biotransformation. Additionally, the chemoprotective agents, including synthetic compounds and natural nutrients, can reduce aflatoxicosis based on their ability to regulate the key drug metabolizing enzymes.

This special issue collects the original research and review that help understanding the interactions between mycotoxins and other environmental chemicals (Such as heavy metal, carcinogen, and nutrients) and drug metabolizing enzymes.

**Keywords:** Drug Metabolizing Enzymes; Environmental chemicals; Mycotoxins; Heavy metal; Carcinogen; Chemoprotective agent.

#### **Schedule:**

- ✧ Manuscript submission deadline: May 31<sup>st</sup> 2020
- ✧ Peer Review Due: June 30<sup>th</sup> 2020
- ✧ Revision Due: July 31<sup>st</sup> 2020
- ✧ Announcement of acceptance by the Guest Editors: June 30<sup>th</sup> 2020
- ✧ Final manuscripts due: August 31<sup>st</sup> 2020