# Current Understanding of Toxins and Toxicity Associated With Novel Detection Methods

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## Editor Note

The rapid growth of pharmaceutical and chemical industry has unleashed a tidal wave of toxins into the environment. Prior to harnessing the ever-increasing array of synthetic compounds for commercial or agricultural use, it is imperative to be cognizant of all the potential adverse effects associated with these chemicals. This is where toxicology comes into the picture, toxicology is the study of the interaction of various compounds (chemical or biological) with the biological system (be it at organismal level or environmental). Over the years, toxicology has played a vital role in the screening newly developed drugs before they can be used in humans; scientists are able to follow the drug behavior prior to their use in humans. Toxicology testing can be performed on cell-lines and on a wide variety of animals such as mice, rats, and hamsters.

Toxicology: Open Access publishes the latest findings in the field which broaden the horizons in terms of our current understanding of toxins and toxicity associated with commonly used compounds. The current issue of Toxicology: Open Access presents some exciting reports on varied topics such as: drug iatrogenesis, toxicity of Iron oxide nanoparticles (FeNPs), mycotoxins, and jelly fish toxins. Moutaouakkil et al. [1], have authored a review on drug iatrogenesis. Zhang et al. [2], investigated the nanotoxicity of dimercaptosuccinic acid (DMSA) coated iron oxide nanoparticles. Li et al. [3], reviewed the currently available high throughput methods of mycotoxin detection. Bais et al. [4], authored a review on Jelly fish toxins, and treatment strategies in response to the sting of a jelly fish.

Drug iatrogenesis is a condition which refers to a harmful

4. Bais DS, Jiang G, Xu Z, Che W, Xiao L (2017) Jellyfsh Envenomation with Skin and Cardiovascular Manifestations and Treatments. Toxicol Open Access 3: 132.