

Special Issue

Biological Effect of Environmental Pollutants: Silkworm as a Model Organism

Message from the Guest Editor

The biological effects of environmental pollution on silkworms are significant, mainly reflected in air pollution, pesticides, and environmental hormones. Fluoride in air pollution also causes toxicity to silkworms, and there is a fluoride tolerance mechanism in their bodies. Silkworms have a short life cycle, simple feeding, and low cost. Due to their artificial domestication, their stress resistance is gradually deteriorating, making them sensitive to adverse external factors. Therefore, they are very suitable for studying the toxicological mechanisms of environmental pollution factors. Pesticides and hormones often cause toxicity to sericulture by affecting cell apoptosis and by disrupting the antioxidant defense system. In addition, an excessive intake of heavy metals, such as arsenic, cadmium, lead, etc., from mulberry leaves can also damage the digestive system of silkworms and affect their growth and development. This type of research will not only help to elucidate the toxicological mechanisms of environmental pollution but will also present significant implications for the sustainable development of the silkworm industry.

Guest Editor

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Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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