

## Special Issue

# Toxicology Research: Understanding and Predicting Compound–Induced Toxicity

### Message from the Guest Editors

The prediction of compounds' toxicity is important for drug development and in understanding the toxicity of various industrial and domestic chemicals. Multiple compounds are synthesized every year, and many new ones are entering the market, thus demanding the development of robust toxicology assessment platforms. For this, chemical threats should also be taken into consideration, and toxicological approaches are needed to understand their mechanisms of action and develop effective countermeasures. Currently, there are multiple ways to assess the toxicity of a given or emerging chemical, including computational approaches, in vitro models, and in vivo studies. This Special Issue focuses on molecular toxicology; therefore, clinical studies, including biomolecular experiments that provide mechanistic insights into compound-induced toxicity will be welcomed. Suitable topics include but are not limited to the following:

- Molecular toxicology
- Emerging toxicology
- Drug-induced toxicity
- Neurotoxicology
- Organ toxicology(kidney, lung, skin, etc.)
- Animal models for toxicity studies
- In vitro models for toxicity assessment
- Pesticides
- Industrial chemicals
- Nerve agents
- In silico toxicology
- QSAR and SAR studies

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**Deadline for manuscript submissions**



## International Journal of Molecular Sciences

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