

Special Issue

Epigenetic Effects and Toxicity of Environmental Pollutants

Message from the Guest Editors

Environmental pollutants including chemical and physical agents, dietary components, endocrine disruptors, nutraceuticals and nanomaterials for drug delivery, can have long-lasting adverse effects on human health, by affecting reproduction, development and metabolism, even in subsequent generations. Although the underlying mechanisms remain largely unknown, new insights are emerging, which suggest that chronic exposure to environmental pollutants can affect cell metabolism and induce genetic damage and biological adverse effects at both peripheral and central levels, playing a key role in inducing epigenetic changes that could have a trans-generational inheritance in the offspring. From this hand, it is emerging that environmental pollutants could be toxic and associated with an increased risk of neurological disorders, reduced fertility and cancer. Therefore, this Special Issue welcomes reviews and research papers which aim to provide an up-to-date report on the adverse effects of environmental pollutants on human health, with particular attention on new pollutants and their emerging epigenetic effects, and molecular interactions in experimental model systems.

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