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Exposome, UV and Skin Homeostasis

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Message from the Guest Editors

The exposome represents the total exposure to xenobiotics or environmental factors that a human or animal organism undergoes, from its conception to the end of life through different gateways into our body (skin, lungs, digestive tract, etc.). The exposome acts on all of our cells and tissues, and, in combination with genetic and/or epigenetic factors, may be responsible for physiological disorders such as aging or chronic diseases. At the molecular level, it acts directly on biomolecules, receptors and modifies intracellular and extra-cellular signaling. Determining the mechanisms of action, signaling pathways and targets is essential to understand the effects of this exposome. The use of omics techniques allows a global approach to the understanding of these mechanisms, the discovery of exposure markers and markers of effects, as well as the identification of therapeutic targets to reduce or eliminate the risks induced by this exposome.

The skin in general and the epidermis in particular, which is the outermost layer of the skin, represents a real barrier against chemical and physical aggressions such as pollutants, UV and ionizing radiations.



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Special Issue



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