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Skin Defense against Oxidative Stress and Inflammation

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Deadline for manuscript
submissions:

closed (30 August 2021)

Message from the Guest Editor

Dear Colleagues,

Oxidative stress is an imbalance between oxidants and antioxidants. The cellular redox balance is regulated by several antioxidants and pro-oxidants. An imbalance in this pathway induces an aberrant inflammatory response. On the other hand, if physiological inflammation is essential for the protection against injurious insults, chronic and pathological inflammation can result in an aberrant response with additional tissue damage, generating an abnormal oxidative stress overload and resulting in cellular damage. Both oxidative stress and aberrant inflammation play role in the pathophysiology of several chronic skin diseases, as well as in skin aging. Crucially, data from literature point to modulation of oxidative stress and inflammation as an effective therapy to prevent pathological situations. This Special Issue aims to provide a focus on model organisms and in vitro mammalian systems used to study the regulation, mechanisms and functions of oxidative stress and inflammation. We hope that the data presented will help investigating oxidative stress and inflammation in different skin diseases.

Prof. Gabriella Fabbrocini

Guest Editor



mdpi.com/si/71072

Special Issue



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