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Oxidative Stress in Parasites

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Message from the Guest Editor

Reactive oxygen species (ROS) play a key role in eliciting oxidative stress (OS) response in cells. They are capable of damaging essential biomolecules in cells. During the invasion process, parasites encounter OS in their host. A main source of OS is the generation of ROS by cells of the immune system. Parasite redox biology is vital for understanding parasite–host interactions, adaptations, and resistance to redox-active antiparasitic molecules. We invite you to submit your latest research findings or a review article to this Special Issue, which should be focused on the redox biology of parasites. This research work can be oriented towards the redox changes occurring during differentiation and drastic transitions between environments that take place during parasitic complex life cycles, oxidative stress encountered by parasites in response to the activation of the immune system, the redox biology of intracellular parasites, the development of ROS-generating antiparasitic compounds, the study of redox signalling molecules in parasites, or any other aspect of the redox biology of parasites.

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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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