Special Issue

Advances in Redox Metabolism and Cellular Homeostasis

Message from the Guest Editors

Cells require well-defined and strictly regulated redox environments to maintain their normal metabolism. Although this may sound somewhat static, it is not; cells live in dynamic states according to their surrounding environments and their current or destined states of differentiation. While living cells are intrinsically dependent on systems of electron flow to produce ATP for their energy needs, the physicochemical conditions that maintain the electron flow ensure that cells live under continuous oxidative stress. The desired/undesired electron flow and all mechanisms to reverse it in living cells are the cores of biology, and they have fascinated scientists for years. We are pleased to invite you to submit to this Special Issue. This Special Issue aims to present novel findings related to normal cellular life and adaptations in responses to different kinds of stress, all ultimately related to redox biology. Research areas may include, but are not limited to, all kinds of cells and organisms, all enzymatic systems participating in normal metabolism or antioxidant mechanisms, and, of course, all modifications of individual molecules to achieve these aims.

Guest Editors

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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