

Special Issue

Modifications of Cysteine Proteins Redox Status in Cell Signalling

Message from the Guest Editor

A huge number of proteins may undergo changes in the redox status of their cysteines. These modifications often lead to stable protein-mixed disulphides or a rearrangement into intra/intermolecular disulphides. Increasing evidence that proteins may contain cysteine in different oxidation states and these modifications are reversible. The concept: cellular “thiolstat” is based on the assumption that the different redox states observed for cysteine proteins may represent sensors for different extents of oxidative stress, which are consequently able to affect cell fate. However, the factors that promote or hinder these modifications and de-modifications are still not clear and neither is the extent of reversibility or the actual significance of these modifications in terms of cell signaling. This Special Issue welcomes submissions on all aspects related to modifications in the redox status of cysteine proteins, including (but not limited to) their role and occurrence in diseases, the characterization of enzymes able to catalyze both the modification and the de-modification steps and the methodological approaches for detecting their occurrence.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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