



## The Role of Peroxiredoxins in Cancer

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### Message from the Guest Editor

Peroxiredoxins are a family of abundant thiol-dependent peroxidases that break down hydrogen peroxide, and they have a central role in the maintenance and response of cells to alterations in redox homeostasis. As such, they are potential targets for disrupting tumor growth. However, genetic disruption of peroxiredoxin expression in mice leads to an increased incidence of neoplastic disease, consistent with a role for peroxiredoxins in protecting genomic integrity and suppression of tumor initiation.

In order to understand better the function of peroxiredoxins in cancer, it is necessary to complement peroxiredoxin knockout and expression studies with improved understanding of their biological function. Thus, goal of this special issue is to bring together current views regarding peroxiredoxins in regulating cancer associated cellular mechanisms. These include, but are not limited to, cell stress, death and damage, cellular transformation, cancer prevention and progression (invasion and metastasis), drug resistance and cancer treatment.





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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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