Special Issue

The Role of Peroxiredoxins in Cancer

Guest Editor:

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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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