Special Issue

NRF2/KEAP1 Signalling in Cancer

Message from the Guest Editor

The nuclear factor erythroid 2-related factor 2 (NRF2)/Kelch-like ECH-associated protein 1 (KEAP1) is the most studied signaling pathway involved in cellular defense against oxidative stress. Oxidative stress is considered a mechanism that increases susceptibility to developing age-related pathologies, including cancer. In addition, NRF2/KEAP1 signaling is involved in chemoresistance and radioresistance occurrence in several types of cancers significantly worsening the outcome of the disease.

Thus, it is necessary to develop new therapeutic approaches that can improve diagnosis and treatment outcomes. Therefore, we need a better understanding of the molecular changes occurring in cancer pathogenesis to develop new molecular biomarkers able to predict tumor behavior and the risk of disease recurrence and chemoresistance. Moreover, understanding the molecular mechanisms involved in NRF2/KEAP1 modulation can significantly improve the therapeutic strategies used in cancer treatment.

This Special Issue welcomes original research articles and reviews related to the role of NRF2/KEAP1 signaling in cancer.

Guest Editor

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Deadline for manuscript submissions

closed (20 July 2025)



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Editor-in-Chief

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