

Special Issue

Oncogenic Signaling of Growth Factor Receptors in Cancer 2.0: Mechanisms and Therapeutic Opportunities

Message from the Guest Editor

At the molecular level, the activation of growth factor receptors (GFRs) induces a mitogenic response and maintains cancer cell growth. The majority of malignant diseases are related to aberrant intra- and intercellular communication, associated with the GFR-mediated pathways. High expression of GFRs aids blood vessel formation, cell migration, and the inhibition of apoptosis. GFR-directed therapy that would theoretically selectively kill malignant cells and reduce the toxicity associated with nonselective conventional chemotherapy may be a promising treatment for cancer. Based on this rationale, different strategies have been developed to inhibit the oncogenic effects of GFRs.

Many intracellular proteins involved in GFRs signal transduction can also function as oncogenes. Even though there have been important advances in our understanding of GFRs and their signaling, certain essential information is still lacking.

This Special Issue will cover the latest preclinical and clinical progress made in the areas associated with GFRs' oncogenic signaling.

Guest Editor

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