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RAS Signaling in Health and Disease

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Message from the Guest Editor

RAS proteins are key players of signaling cascades that regulate proliferation, differentiation, and apoptosis. Mutations in these proteins or in their effectors, activators, and regulators are associated with the appearance of pathological conditions, particularly the development of various forms of human cancer.

Many aspects of RAS biology have been elucidated since their discovery more than 40 years, but their function and dysfunction in human cancer are not yet fully understood. Efforts to develop therapies directly targeting mutant RAS have been stymied for many years by several factors, including their complex biology and unique structural and biochemical properties. Encouragingly, novel approaches to targeting RAS are showing promising results in cancer patients and are currently one of the hottest topics in cancer therapy. In this Special Issue of *Genes* on “RAS signaling in Health and Disease”, we will summarize current knowledge on RAS biology both in physiological and pathological conditions, provide an overview of recent developments in specialized research topics, and offer critical perspectives on upcoming challenges.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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