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The Long Reach of the Retinoblastoma Tumor Suppressor Pathway

Guest Editors:

Prof. Dr. Erik Knudsen

Dr. David W. Goodrich

Dr. Agnieszka Witkiewicz

Dr. Ioannis Sanidas

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Message from the Guest Editors

Dear Colleagues,

The conventional retinoblastoma tumor suppressor (RB) pathway was defined over 25 years ago. While the subject has been intensely studied and plays a well-established role in cell cycle control, the biological impact of the RB-pathway has continued to expand. Recent studies have illustrated roles for RB in a spectrum of diverse, context-selective biology including cancer lineage states, metabolic programs, and immune responses. These findings have induced a re-appraisal of the mechanisms through which RB functions control gene expression beyond E2F transcription factors. Furthermore, it has become clear that the RB-pathway is a key determinant of tumor progression and therapeutic response. While CDK4/6 inhibitors directly impinge on RB, complex regulatory networks involving the RB-pathway are relevant for therapeutic responses or the emergence of acquired resistance in a number of distinct contexts.

This Special Issue explores new findings related to the breadth of the RB-pathway in tumor biology and therapy.

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Editor-in-Chief

Prof. Dr. Samuel C. Mok
Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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Contact Us

Cancers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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cancers@mdpi.com
𝕏@Cancers_MDPI