



Molecular Mechanisms of Tumor Suppressor Genes

Guest Editor:

Dr. Kwang Dong Kim

Division of Applied Life Science
(BK21 Plus), Gyeongsang
National University, Jinju 52828,
Republic of Korea

Deadline for manuscript
submissions:

closed (31 August 2022)

Message from the Guest Editor

Cancer develops through a multi-step process. Germline or somatic gene alterations and clonal selection of precancerous cells are the main driving forces in this process. Most human cancers are caused by genetic and epigenetic changes in cells, and such genetic transformations lead to uncontrolled cell proliferation, resistance to apoptosis, immortalization, activation of invasion and metastasis, immune evasion, and angiogenesis, contributing to the hallmarks of malignant cancer. Tumor suppressor genes that inhibit the development of malignancies are known to lose functions in tumor cells through loss-of-function mutation, epigenetic suppression, and miRNA-mediated suppression of expression. Therefore, it is expected that a series of research processes such as the discovery of more tumor suppressor genes, identification of antitumor mechanisms by gene expression, and development of therapeutics targeting the tumor suppressor genes will greatly contribute to overcoming tumors.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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