Special Issue

Molecular Research on Colorectal Cancer

Message from the Guest Editors

Colorectal Cancer (CRC) is the third most common malignancy in humans. The incidence of CRC varies widely around the world, as the risk of developing this disease is influenced by environmental, genetic and lifestyle factors. Currently, primary prevention and early detection appear to be necessary weapons to increase survival rates. Many risk factors can alter the microbiome composition and deregulate immune responses by inducing inflammation. In the colonic epithelium, chronic inflammation and reactive oxygen species (ROS) production impair pathways deputed to tissue turnover and DNA damage repair through metabolic alterations in the intestinal microenvironment. Adenomas originate from altered functional homeostasis of the intestinal epithelium and are the main precursor of CRC in both high-risk family groups and the general population. Molecular characterization of the interactions between tumor cells and the microenvironment, during tumor progression, could allow the identification of biomarkers, useful for preventive approaches to CRC.

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Biomedicines (ISSN 2227-9059) is an open access iournal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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