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Role of Trace Elements in Chemoprevention and Cancer Therapy

Guest Editor:

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Deadline for manuscript submissions:
closed (15 May 2022)

Message from the Guest Editor

Trace elements are integral to the proper functioning of several important biochemical processes in a living body. A number of essential trace elements have been shown to play important roles in the etiology and prevention of chronic diseases, including cancer. Supplementation by trace elements will likely overcome deficiency-induced complications but, to better achieve cancer reduction, emerging options of using trace elements containing natural and synthetic anticancer agents. These anticancer agents may be used in combination with existing chemotherapy to improve survival, or as an agent to sensitize drug-resistant tumors and reduce chemotherapy-induced toxicity. Other emerging anticancer implications can include but are not limited to impact of trace elements on the tumor microenvironment, tumor hypoxia, tumor microbiota, and improvement of the immune system.

This Special Issue invites original research (in vitro and in vivo), and/or reviews on mechanism-driven research developments for the use of trace elements and/or trace element-containing anticancer agents in chemoprevention and cancer therapy including but not limited to the specific areas mentioned above.

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Message from the Editor-in-Chief

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