



## Selenium, Trace Elements and Transition Metals in Anticancer Drug Discovery

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### Message from the Guest Editors

The search for new anticancer drugs and adjuvants in cancer therapy is an important challenge of the pharmaceutical sciences. Many *in vitro* and *in vivo* experimental models demonstrated the efficacy of Se compounds as anticancer agents. Selenocompounds possess the ability to interfere with the redox homeostasis and signalling of cancer cells to produce anticancer effects. Similarly, compounds and/or nanoparticles containing tellurium, cadmium, gold, rhodium and ruthenium have proven also to show anticancer effects. Taking into account their interesting activity, both selenocompounds, trace elements and transition metals are the object of intensive chemical modifications in order to find new active structures that can serve as a potential anticancer drug candidates or adjuvants in the future cancer therapy. In this Special Issue we want to present the recent advances in the drug design and potential pharmacological applications of all these elements. Articles that report the anticancer or cancer MDR reversing activity of novel compounds containing selenium, tellurium, or novel organic complexes of metals from the d-block are welcomed.





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