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## Synthesis and Evaluation of Novel Compounds with Anticancer Activity

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**closed (31 December 2023)**

### Message from the Guest Editors

Drug treatment, together with surgical operation, radiotherapy and biotherapy, constitute the main approaches to cancer treatment. Small molecules—products of chemical synthesis—are still the basis of classical anticancer drugs and still make up 75% of the anticancer drug market, and are cheaper to manufacture, and easier to pack into tablets and capsules for oral use than biological macromolecules. Additionally, small molecules can provide targeted tumor therapy. In this regard, the synthesis and evaluation of small antitumor molecules remains an urgent task for researchers to this day. Topics will include, but are not limited to, the following:

- Synthesis of novel analogs of known anticancer agents and evaluation of their biological activity;
- Synthesis and evaluation of natural alkaloid derivatives with anticancer activity;
- Synthesis and evaluation of short peptides and polypeptides that can inhibit tumour cell proliferation or migration, or suppress the formation of tumour blood vessels;
- Development and evaluation of siRNAs, shRNAs and other types of nucleic acids as an effective approach to silence cancer-causing genes.



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Special Issue



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## Message from the Editor-in-Chief

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