



BioMed Research International

Special Issue on
**An Update of Chemotherapy and Chemopreventive
Strategy against Cancer Invasion**

CALL FOR PAPERS

Tubulin-microtubule system is a well studied target for a number of natural as well as synthetic small molecules, peptides, and heterocyclic compounds blocking cell cycle progression. This drive to battle against proliferation of cancerous cell growth is still ongoing with the research based on small molecule inhibitors. Apart from numerous synthetic small molecules, a vast milieu of linear and cyclic peptides, namely, dolastatin 10/ 15 and hemiasterlin along with their derivatives monomethyl auristatin E and HTI-286, targets tubulin polymerization, arresting cell cycle promoting apoptosis. (NFL)-TBS.40-63 and tubulysin A are recent addition to this list with promising antimitotic activities. Additionally natural phytochemicals like curcumin, quercetin, coumarin, resveratrol with their analogues 6-chloro-4-(methoxyphenyl) coumarin, and (Z)-3,5,4'-trimethoxystilbene act as effective chemopreventive regimen targeting microtubule polymerization for the prevention of cancers. Ceratamines, a variety of heterocyclic microtubule-stabilizing agents, draw attention for their distinct mode of action unlike other microtubule stabilizing agents deciphered so far. Research is ongoing to extend the list of chemopreventive molecules albeit with some limitations still to overcome. Finally, current status and validation of a qualified drug following various phases of clinical trials have to be discussed for their bench to bedside transition. We invite investigators to contribute original research as well as review articles on this area.

Potential topics include, but are not limited to:

- ▶ Small molecules as safeguard in the prevention and cure of cancer:
 - ▶ Role of synthetic small molecules
 - ▶ Role of heterocyclic compounds
 - ▶ Role of small peptides
 - ▶ Role of natural phytochemicals
 - ▶ Management with clinical trials: from bench to bedside transition

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/biochemistry/chemo/>.

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First Round of Reviews

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