

Special Issue

Anticancer Antibiotics: Progresses, Opportunities and Challenges

Message from the Guest Editor

Recent studies into tetracycline antibiotics have revealed an unexpected facet of their activity: the suppression of malignant cells. This is an intriguing aspect of their molecular mechanisms and may be related to the known capacity of tetracyclines to form G-quadruplex adduct complexes. Experimental X-ray, NMR, and optical spectroscopic studies offer a trove of structural information on these complexes, which require further understanding and mechanistic interpretation in relation to antitumor effects. Useful contributions in this direction may also stem from computational structure and mechanism modeling. Models and hypotheses on this topic are immensely valuable and may lead to eventual developments into life-saving technological solutions.

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