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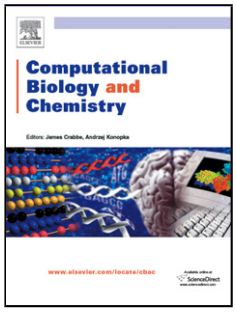

Title: Design, synthesis and evaluation of novel sulfonamides as potential anticancer agents

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Design, synthesis and evaluation of novel sulfonamides as potential anticancer agents

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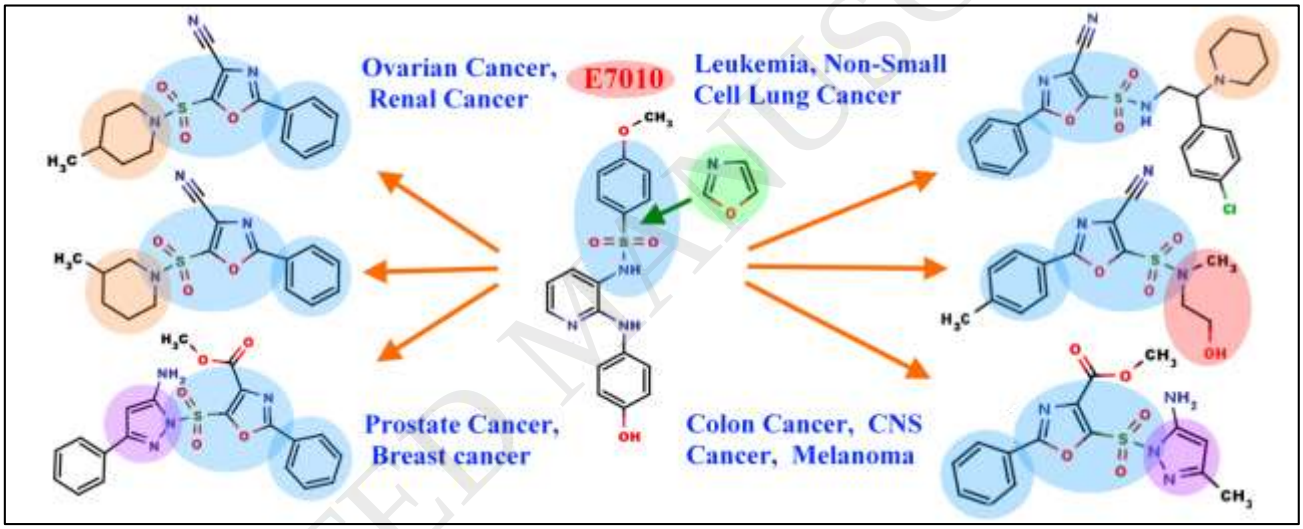
Graphical abstract



Highlights

- QSAR modeling was applied to the rational design of novel 1,3-oxazole-based sulfonamides as potential anticancer agents.
- A series of tubuline inhibitors with predicted activity were synthesized and tested for their anticancer activity.
- The high antiproliferative activity against cancer cells was found for compounds **4–9**.
- Molecular Docking of compounds **4–9** to the active colchicine site of tubulin was conducted.