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# Synthesis, Molecular docking studies and biological evaluation of potent coumarin-carbonodithioate hybrids via microwave irradiation

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## ABSTRACT

The presence of hydroxyl groups at the C4 and C7 positions in coumarin backbone has been proposed as a potential modification site for providing excellent bioactive molecules according to previous studies. The titled compounds have been synthesized under conventional as well as microwave irradiation methods. The microwave approach considered to be more admirable than conventional method due to its selectivity, shorter reaction time, reaction rate enhancement, and higher yield. Synthesized coumarin-carbonodithioate derivatives were characterized by IR, <sup>1</sup>H NMR, <sup>13</sup>C NMR and Mass spectroscopic study and screened for their anti-microbial activity. *In vitro* study reveals that the synthesized **5b** and **5c** coumarin derivatives show excellent anti-

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