

Poster Presentation

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QSAR methods to determine the biological activity of coumarin derivatives

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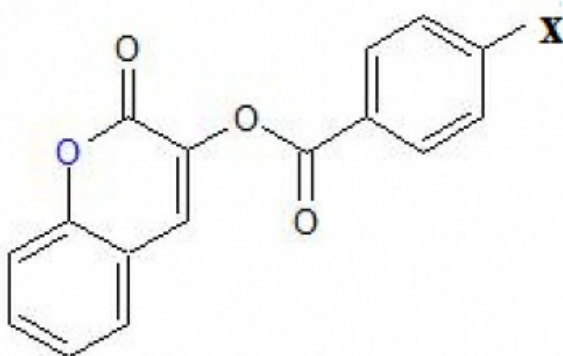
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This work is based on coumarinic derivatives with a biological activity such as antioxidant and anticancerogenic [1] activities through QSAR methods. These compounds have as nucleus 2-oxo-2H-chromen-3-yl 4-Xbenzoate [2] which are analogous to 3-bromophenyl 6-acetoxymethyl-2-oxo-2H-1-benzopyran-3-carboxylate, which is considered as a power inhibitor of tumor proliferation and angiogenesis, present some water solubility and stability problems. The QSAR methods used, allows prediction of biological activities of new compounds and to conceive more active ones against any given infection.

Here, we report the structural determination, prediction of biological activities and conception of biological molecules against cancer.

[1] Lacy, A. & O'Kennedy, R. (2004). *Curr. Pharm. Des.* 10, 3797–3811

[2] Ziki, E., Yoda, J., Djandé, A., Saba, A. & Kakou-Yao, R. (2016). *Acta Cryst. E* 72, 1562–1564



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