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Synthesis, anti-proliferative and genotoxicity studies of 6-chloro-5-(2-substituted-ethyl)-1,3-dihydro-2*H*-indol-2-ones and 6-chloro-5-(2-chloroethyl)-3-(alkyl/ary-2-ylidene)indolin-2-ones

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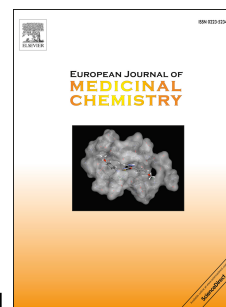
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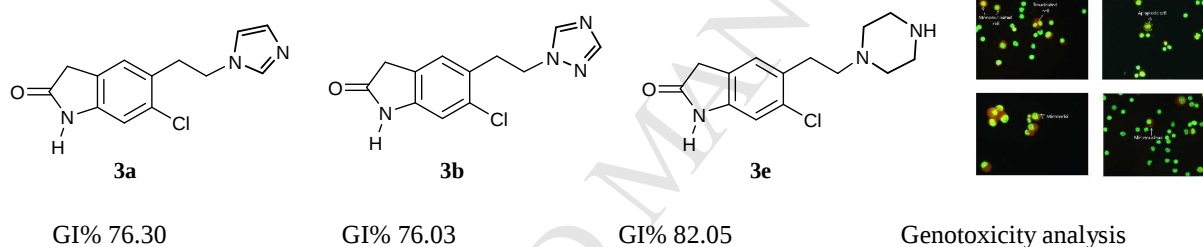
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GRAPHICAL ABSTRACT

Synthesis, anti-proliferative and genotoxicity studies of 6-chloro-5-(2-substituted-ethyl)-1,3-dihydro-2H-indol-2-ones and 6-chloro-5-(2-chloroethyl)-3-(alkyl/aryl-2-ylidene)indolin-2-ones

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A series of 6-chloro-5-(2-substituted-ethyl)-1,3-dihydro-2H-indol-2-ones (**3a-h**) and 6-chloro-5-(2-chloroethyl)-3-(alkyl/aryl-2-ylidene)indolin-2-ones (**5i-x**) were synthesized. Compounds **3a-e**, **5i-l** and **5q-r** were selected by NIH, USA for *in vitro* anti-proliferative screening. Based on the impressive growth inhibitory (GI %) effect, the compounds **3a-b** and **3e** were further analyzed for anti-proliferative (at 5 dose concentration) and genotoxic activity and they have shown growth inhibition in the range 1.22 to 76.30, 2.85 to 76.03 and 10.98 to 82.05 respectively at 10^{-5} M concentration.



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