## पेटेंट कार्यालय शासकीय जर्नल

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## (54) Title of the invention: ANTI-CANCER ACTIVITY OF SUBSTITUTED ISOXAZOLE DERIVATIVES

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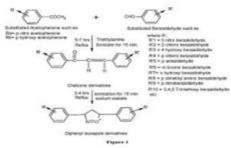
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(57) Abstract:
The present invention relates to the design and synthesis of substituted isoxazole derivatives and screening of compounds for anti-cancer and anti-inflammatory activity. In this present study various substituted isoxazole derivatives were synthesized by conventional and microwave assisted method. Wherein the compounds synthesized by the Microwave method results in higher yields. Shap mehting points and RY values were used to determine the purpty and homogeneity of produced compounds were docked with receptors of the produced compounds. The Synthesized compounds were docked with receptors of inpoxygenas-3 soybean complex for anti-inflammatory activity (PDB Code-6zho), potent inhibitors of NUDT's silence homone signaling in Breast cancer (PDB Code-3vhk) for anti-cancer activity. The Results showed that the compound 2s is having 76.66 % of inhibition and showed the significant anti-cancer activity when compared with the standard drug of 5- fluorouracil.



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