



Ultrasonic-Assisted Synthesis of Pyrazolo[3,4-*d*]pyrimidin-4-ol Tethered with 1,2,3-Triazoles and Their Anticancer Activity

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Abstract—In the presents work synthesis and characterization of new heterocyclic derivatives containing pyrazolo[3,4-*d*]pyrimidine linkage with 1,4-disubstituted-1,2,3-triazoles via methyleneoxy group. The selected synthesized compounds were tested for their *in-vitro* anticancer activity against various cancer cell lines. Synthesis of compounds was done under ultrasonic-assisted Huisgen 1,3-dipolar cycloaddition reaction with good yields. Some of the newly synthesized compounds demonstrated good to moderate anticancer activity, most of compounds shows activity against renal cancer cell lines.

Keywords: Pyrazolo[3,4-*d*]pyrimidin-4-ol, 1,4-Disubstituted-1,2,3-triazole derivatives, In-vitro anticancer screening, Ultrasonic-assisted mild reaction conditions

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