**SYNTHESIS OF BIO-ACTIVE THIENO[2,3-*d*]PYRIMIDINE DERIVATIVES**

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**Abstract:**

Some bio-active thieno[2,3-d]pyrimidine derivatives were synthesized from 2-amino thiophene derivative. The structures of the synthesized compounds have been established on the basis of spectral analytical data. All the compounds have been screened for their antimicrobial activities against bacterial strains as well as fungi strains. Due to the presence of thieno[2,3-d]pyrimidine moiety, some of the tested compounds showed promising activity.

**Keywords:** Synthesis, Thieno[2,3-d]pyrimidine, Antimicrobial activity.

**References**

1. Rashad, A.E.; Shamroukh, A.H.; Abdel-Megeid, R.E.; El-Sayed, *Synth. Commun.*, **2010,** 40, 1149-1160.
2. Hafez, H.N.; Hussein, H.A.R.; B.A.El-Gazzar, A.R. *Euro. J. Med. Chem.*, **2010,** 45(9), 4026-4034.
3. Bassler, G.C.; Silverstein, R.M.; Morrill, T.C. *Spectrophotometric Identification of Organic Compounds*, 5th ed. Wiley, New York, **1991**.
4. Stalons, D.R.; Thornsberry, C. Broth-dilution method for determining the antibiotic susceptibility of anaerobic bacteria, *Antimicrobial Agents Chemotherapy*, **1975,** 7(1), 15-21.