

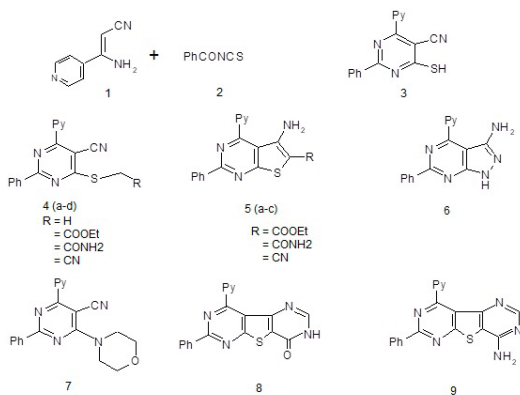
Synthesis of some Novel Functionalized Fused pyrimidines

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High biological activity and wide action spectra of pyrimidine derivatives, among them found the substances with different pharmacological activities cause the higher interesting [1-3]. Early we investigated interaction of β -amino- β -(pyrid-4-yl)-acrylonitrile(1) with various reagents yielded highly interested compounds[4]. In the present article we synthesized a novel thieno[2,3d] pyrimidines(5a-c) and pyrimidothieno-[2,3-d] pyrimidines (8&9) by using intermediate mercapto-pyrimidine derivatives (4c-d). The key step in the synthesis strategy involve the formation synthetic pyridine-2-thiol derivatives (3) via cyclocondensation reaction between β -amino- β -(pyrid-4-yl)- acrylonitrile(1)[4] and bezoylisothiocyanate (2). Compounds(6&7) were obtained through the reaction of (4a) with hydrazine hydrate and morpholine. The structure of synthesized compounds was proved by IR, ¹H, ¹³C NMR, and mass spectroscopy.



References

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Biography

Abuzeid Abdelbaset Hassanien Taha, the corresponding author is working as a professor in Suez University, Egypt. He published more than 38 research paper in international journals. He has guided seven PhD student and eight working under my supervision. The main focus of our research group is to develop simple and efficient strategies for the synthesis of new bioactive organic heterocyclic compounds.

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