UNEXPECTED SYNTHESIS
OF 1,2,4-TRIAZOLO[1,5-D]1,2,4-TRIAZINE-5-THIONES

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The 1,2,4-triazine ring system is a key component of commercial dyes, herbicides insecticides and more recently pharmaceutical composition [1].

In continuation of our earlier studies in the synthesis of heterocycles containing sulfur and nitrogen [2], we now report in this communication our work on the synthesis of a novel heterocyclic system, 1,2,4-triazolo[1,5-d]-1,2,4-triazin-5-thiones.

6-Methyl-4-amino-1,2,4-triazine-3-thion-5-one was reacted with aryl nitrile to afford 8-methyl-2-aryl-6H-1,2,4-triazolo[1,5-d]1,2,4-triazine-5-thione (Scheme 1).

References