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Synthesis and Biological Activity of the Novel Derivatives of 4-Hydrazino-5-methylthieno[2,3-*d*]Pyrimidine-6-carboxylic Acid and their 6-Hetaryl and 4-Thio Analogs

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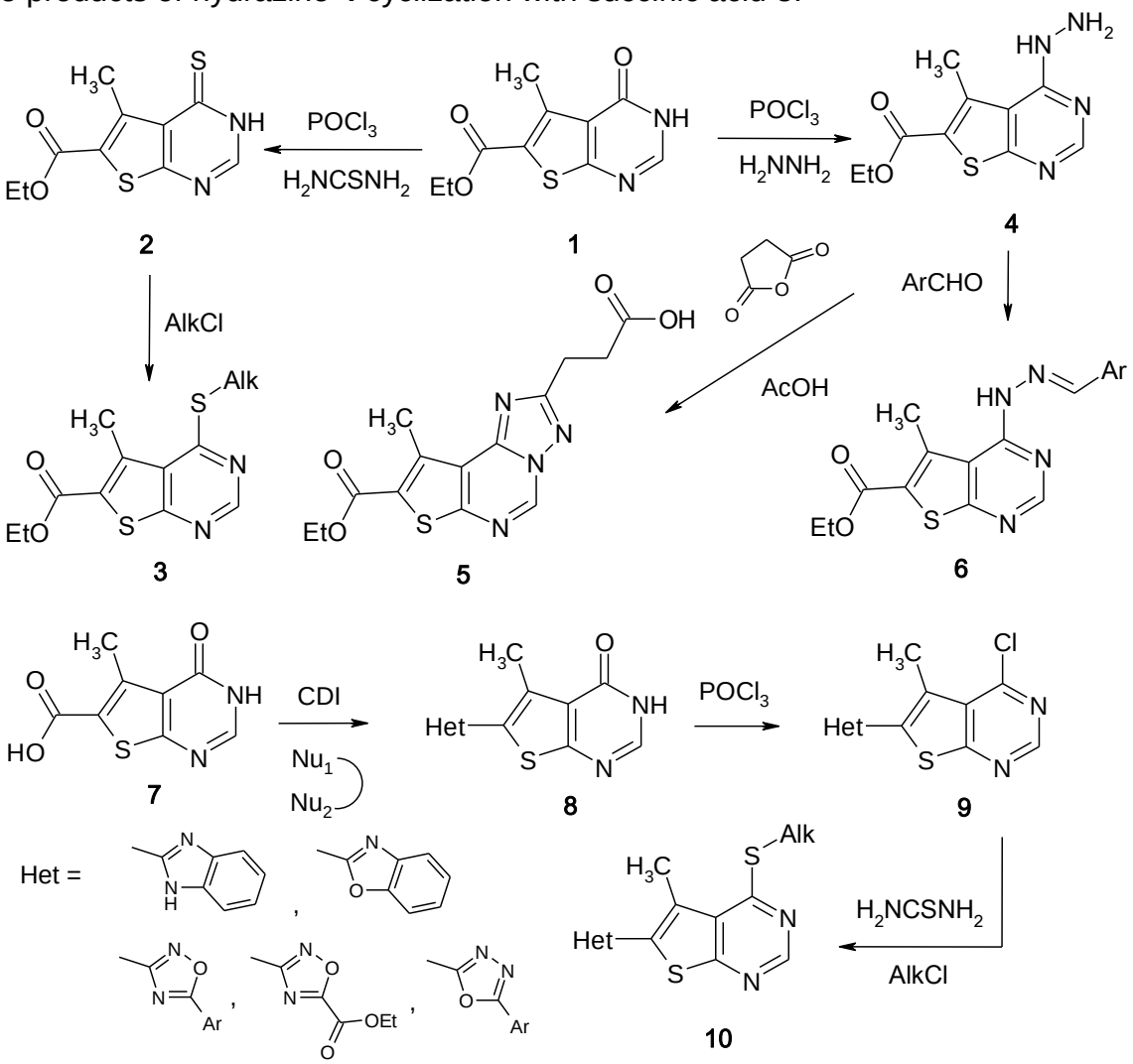
By the transformations of ethyl 5-methyl-4-oxo-3,4-dihydrothieno[2,3-*d*]pyrimidine-6-carboxylate **1** the series of 4-S-alkyl **3** and their 4-arylidenehydrazino analogs **6** together with the products of hydrazine **4** cyclization with succinic acid **5**.



The other part of our work was devoted to the synthesis of 5-methyl-6-hetaryl-4-(alkylthio)thieno[2,3-*d*]pyrimidines **10** starting from 5-methyl-4-oxo-3,4-dihydrothieno[2,3-*d*]pyrimidine-6-carboxylic acid **7**.

The structure of the compounds obtained was confirmed using NMR and chromato-mass spectral methods. For the compounds obtained their antimicrobial, anti-inflammatory and anticancer activity was studied.