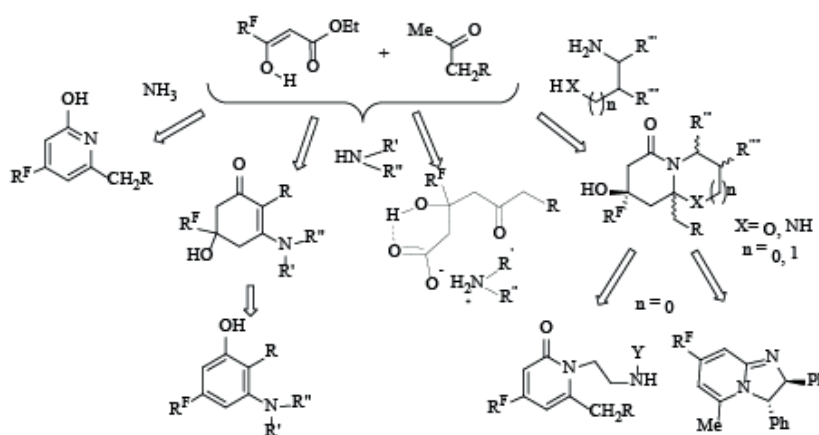


THE NEW THREE-COMPONENT REACTIONS OF POLYFLUOROALKYL-3-OXO ESTERS, METHYL KETONES AND AMINES

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Multicomponent reactions are one of the main trends of the modern organic chemistry. The known Biginelli's and Hantzsch's cyclizations, which are extensively used in various syntheses, are based on the transformations of 3-oxo esters with aldehydes and amines.¹ Recently, we have found the new three-component transformations of polyfluoroalkyl-3-oxo esters with methyl ketones and amines. The routes of these reactions are established to essentially depend on being used amine. Variation of the amine component allows us to obtain a wide range of compounds, including pyridine derivatives and their heterocondensed analogs^{2,3}, 3-aminoalkylcyclohexenones and etc.⁴ The aspects of the targeted synthesis of the certain class of products are discussed in the report. The special attention is paid to the mechanisms of these reactions. In addition, the data on the biological activity of the synthesized compounds are presented.



References

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