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Poster Presentation

Synthesis and Antibacterial Activity of 5-Subtituted 5-Trifluorometylhydantoins

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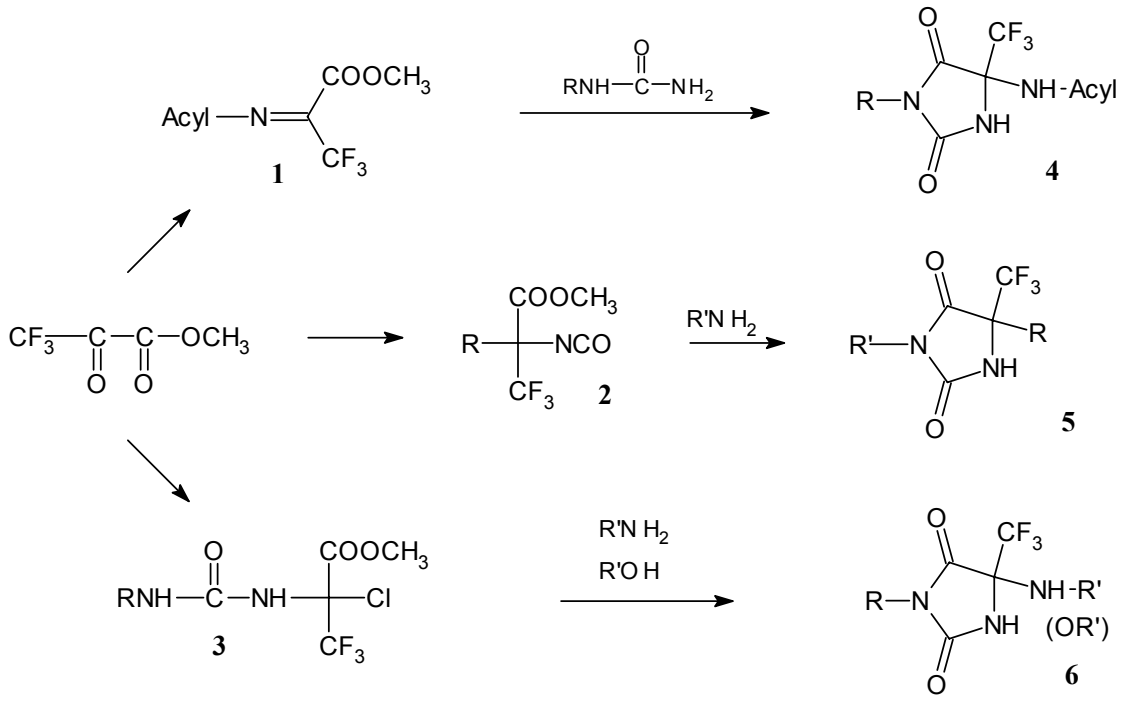
Highly electrophilic derivatives of methyl trifluoropyruvate, namely, N-substituted imines of methyl trifluoropyruvate **1**, 2-substituted-2-isocyanato-3,3,3-trifluoropropionates **2**, and 2-chloro-3,3,3-trifluoro-2-ureidopropionates **3** react with ureas, amines, and alcohols by cyclocondensation type reaction forming the corresponding hydantoins **4-6** of 60-90 % yield.



Antibacterial screening of synthesized compounds **4-6** against *S. aureus, S. enteritidis, B. anthracis* and *E. coli* shows highly antibacterial activity of this compounds.