Joint Event

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Chemistry and biological activity of 5-(1,2,4-triazol-1-yl methyl)-1,2,4-triazol-3-amine derivatives

Abstract:

Currently, azole derivatives are one of the best-selling and effective agrochemicals in the field of combating fungal plant diseases. Azoles inhibit lanosterol alpha-demethylase (CYP51Y) and disrupt the permeability of the fungal cell membrane. In this paper, the previously little-studied chemistry of derivatives of 5-substituted-1,2,4-triazol-3-amine is revealed. The obtained substances can be used to create antifungal drugs of systemic action. Methods for obtaining new series of compounds have been developed and their high efficiency in biological tests in vitro has been shown.

Biography

Gleb Markasov graduated with a bachelor's degree in 2021 and a master's degree in 2023. Currently, he is a 1-year PhD student at Mendeleev University of Chemical Technology of Russia (MUCTR). His scientific interests are the chemistry and biological activity of azole derivatives. During his studies and work, he published 2 RU patents and 1 article.