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Design, synthesis, structure and biological activity of some fused (di)-azine

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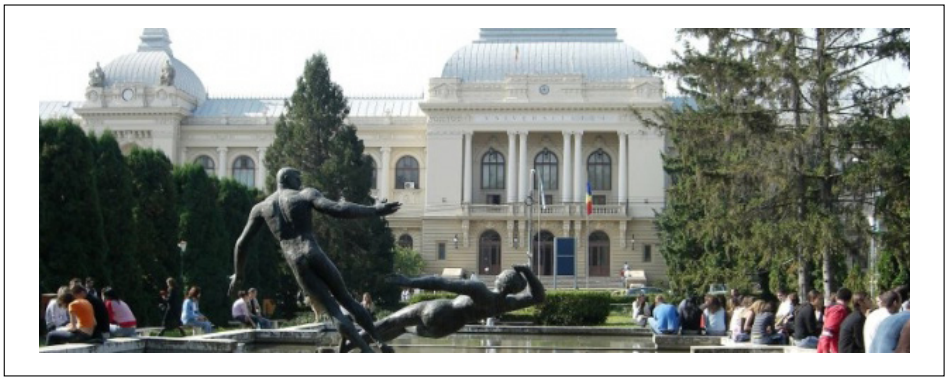
Abstract

Nowadays (di)azole and (di)azine heterocyclic systems are one of the most imperative scaffolds in a large variety of natural and pharmacologically active compounds. As far for their medicinal and pharmaceutical applications, these compounds possess a large variety of biological activities such as anthelmintics, antiviral, anticancer, antituberculosis, antimicrobials, antifungal, anti-inflammatory, antihypertensive, cardiotonic, anti-thrombics, anticoagulants, diuretics, nephrotropic, antidepressant, anxiolytics, anticonvulsant, analgesic, etc., As part of our ongoing research in the field of (di)azole and (di)azine derivatives, we present herein some core results obtained by our group within this area, focused on design, synthesis, and medicinal chemistry applications. Thus, several classes of (di)azole and (di)azine was designed, synthesized, and tested for their biological activity. For the most promising compounds, a complete ADMET studies have been performed with very good results. The molecular docking experiments suggests important clues concerning the mechanism of actions of our (di)azole and (di)azine heterocyclic systems.

Biography

Mangalagiu V has completed her PhD at the University of Suceava (Romania), and postdoctoral studies to the same university. Presently, she is a senior researcher to Alexandru Ioan Cuza University of Iasi and lecturer to University of Suceava. She has published more than 50 papers in reputed journals, about 15 patents and has been serving as an editorial board member of several journals. She was awarded with numerous national and international prizes and honours.



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