

## New achievements in medicinal chemistry of (di)azole and (di)azine

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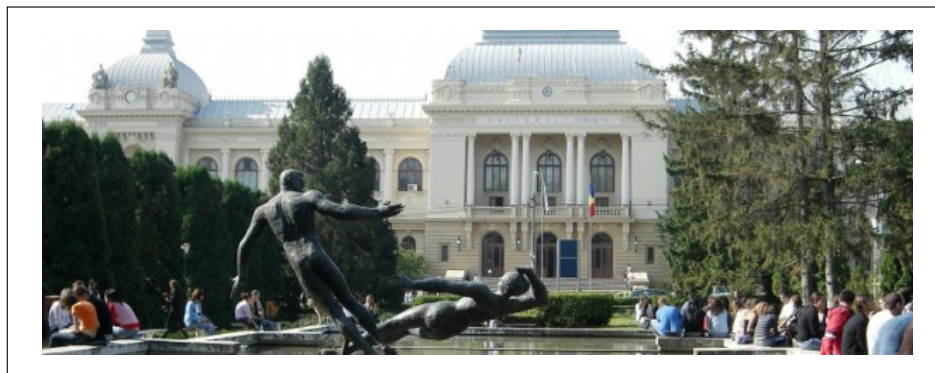
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### Abstract

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, cardiotoxic, 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 Ionel is a professor of organic and medicinal chemistry and Vice-Rector with research at "Alexandru Ioan Cuza" University of Iasi, Romania. Previously, prof. Mangalagiu served as Dean, Vice-Dean, Head of Organic Chemistry Department, etc. at Faculty of Chemistry. He has nearly 30 years of experience in the research, focused in the area of Heterocyclic Compounds. He has over 150 papers, 13 patents, 3 international chapter books, etc. He was Visiting Professor and/or invited speaker to prestigious foreign universities (Ludwig Maximilianus University Munchen, Technische Universität Braunschweig, University of Florence and Universite D'Angers), awarded with numerous prizes and honours: DAAD and NATO award, "Costin D. Nenitescu Medal" (Romanian Society of Chemistry), "Al.I.Cuza University Award in Research", Special Award of Croatian Association of Inventors, etc.,



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