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Organic Chemistry
Heterocycles chemistry

Research themes:

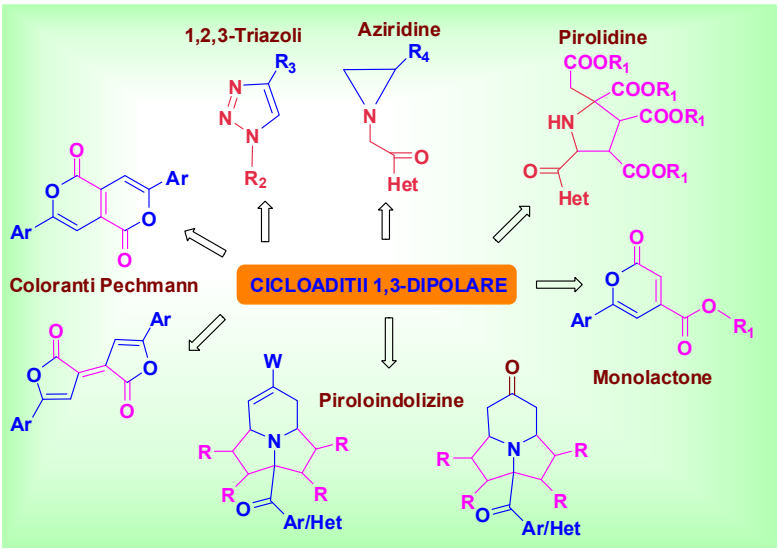
- **Organic Chemistry:** heterocycles chemistry;
- **Medical Chemistry:** identification of new biologically active compounds;
- **Chemistry of Materials:** light-emitting materials.

Organic Chemistry: new heterocyclic compounds via 1,3-dipolar cycloaddition reactions.

Medical Chemistry: new heterocyclic derivatives with anti-cancer activity; identifying new inhibitors on human farnesyltransferase.

Chemistry of Materials: development of new AIE (aggregation induced emission) structures for appropiate applications.

Keywords: 1,3-dipolar cycloadditions, azides, 1,2,3-triazoles, pyrrolidine, Pechmann dyes, azomethine ylide, pyroloindolizines, lactones, IFtase , anticancer agents.



Publications (selection)

Zabulică, M. Balan, **D. Belei**, M. Sava, C. B. Simionescu, L. Marin, Novel luminescent phenothiazine-based Schiff bases with tuned morphology. Synthesis, structure, photophysical and thermotropic characterization, *Dyes and Pigments* 96(3), 686-698, (IF: 3.126), **2013.**

Lucescu, L., Gautret, P., Oudir, S., Rigo, B., **Belei**, **D.,** Bîcu, E., Ghinet, A., Studies on pyrrolidinones: Chemistry of dimethoxytriazines, *Synthesis (Germany)*, 45 (10), 1333-1340, (IF: 2.5), **2013.**

Belei, **D.**, Dumea, C., Samson, A., Farce, A., Dubois, J., Bicu, E., Ghinet, A., New farnesyltransferase inhibitors in the phenothiazine series, *Bioorganic &Medicinal Chemistry Letters*, 22(14), 4517-4522, (IF: 2.554), **2012**.

Belei, **D.**, Abuhaie, C. M., Bicu, E. Jones, P. G., Hopf, H., Birsa, L. M., A Direct Synthesis of Octahydropyrrolo[2,1,5-cd]indolizin-6-one Derivatives, *Synlett*, (4), 454-548, (IF: 2.71), **2012**.

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PhD
„Al. I. Cuza" University of Iaşi, 2002, thesis title ***Synthesis of new phenothiazinic derivatives with potential pharmacological activity***