



ELENA BÎCU (BÂCU)

Domenii de cercetare/interes

- **Chimie organică:** chimia heterociclicilor cu azot, sulf și oxigen;
- **Chimie medicală:** noi compuși biologic activi;
- **Chimia materialelor:** semiconductori organici

Prof. univ. dr.

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Chimie organică

Chimia heterociclicilor

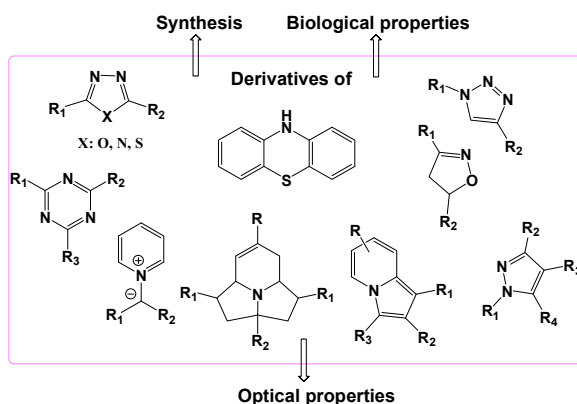
Chimie organică: Sinteze de derivați heterociclici cu N, S și O.

Chimie medicală: Sinteze de compuși țintă biologic activi, cu potențiala activitate anticancer, anti-inflamatoare și antimicrobiană.

Chimia materialelor: Sinteze de copolimeri cu proprietăți speciale.

Cuvinte cheie: fenotiazine, s-triazine, indolizine, pirazoli, triazoli, tiadiazoli, oxadiazoli, izoxazolidine, pirazolone,

N-ilide, cicloadiții 1,3-dipolare, anticancer, tubulina, inhibitori ai farnesiltransferazei umane, antimicrobian, fluorescența, semiconductori.



Doctorat

Univ. „Alexandru Ioan Cuza” Iași, 1996

Conducător doctorat

Univ. „Alexandru Ioan Cuza” Iași, 2007-

Membru în CNATDCU

Comisia *Chimie*, 2012-2016

Profesor invitat

USTL Lille, France (1999 și 2002)
IUT "A"-Polytech. Lille, France (2008)

Premiul

"Magda Petrovanu"
Univ. „Alexandru Ioan Cuza” Iași, 2014

Publicații (selectiv)

Ghinet, A., Moise, I. M., Rigo, B., Homerin, G., Farce, A., Dubois, J., **Bîcu, E.**, Studies on phenothiazines: new microtubule-interacting compounds with phenothiazine A-ring as potent antineoplastic agents, *Bioorganic and Medicinal Chemistry*, 24, 2307-2317, **2016**.

Moise, I.-M., Ghinet, A., Belei, D., Dubois, J., Farce, A., **Bîcu, E.**, New indolizine-chalcones as potent inhibitors of human farnesyltransferase: Design, synthesis and biological evaluation, *Bioorganic and Medicinal Chemistry Letters*, 26, 3730-3734, **2016**.

Ghinet, A., Abuhaie, C.-M., Gautret, P., Rigo, B., Dubois, J., Farce, A., Belei, D., **Bîcu, E.**, Studies on indolizines. Evaluation of their biological properties as microtubule-interacting agents and as melanoma targeting compounds, *European Journal of Medicinal Chemistry*, 89, 115-127, **2015**.

Lucescu, L., Ghinet, A., Belei, D., Rigo, B., Dubois, J., **Bîcu, E.**, Discovery of indolizines containing triazine moiety as new leads for the development of antitumoral agents targeting mitotic events, *Bioorganic and Medicinal Chemistry Letters*, 25 (18), 3975-3979, **2015**.

Dumea, C., Belei, D., Ghinet, A., Dubois, J., Farce, A., **Bîcu, E.**, Novel indolizine derivatives with unprecedented inhibitory activity on human farnesyltransferase, *Bioorganic & Medicinal Chemistry Letters*, 24, 5777-5781, **2014**.

Abuhaie, C.-M., Ghinet, A., Farce, A., Dubois, J., Gautret, P., Rigo, B., Belei, D., **Bîcu, E.**, Synthesis and biological evaluation of a new series of phenothiazine-containing protein farnesyltransferase inhibitors, *European Journal of Medicinal Chemistry*, 59, 101-110, **2013**.

Abuhaie, C.-M., **Bîcu, E.**, Rigo, B., Gautret, P., Belei, D., Farce, A., Dubois, J., Ghinet, A., Synthesis and anticancer activity of analogues of phenstatin, with a phenothiazine A-ring, as a new class of microtubule-targeting agents, *Bioorganic and Medicinal Chemistry Letters*, 23, 147-152, **2013**.