ELENA BÎCU (BÂCU)

(n.1955)

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Chimie organică

Chimia heterociclurilor

Domenii de cercetare/interes

- **Chimie organică:** chimia heterociclurilor cu azot, sulf si oxigen;
- **Chimie medicală:** noi compuşi biologic activi;
- **Chimia materialelor:** semiconductori organici

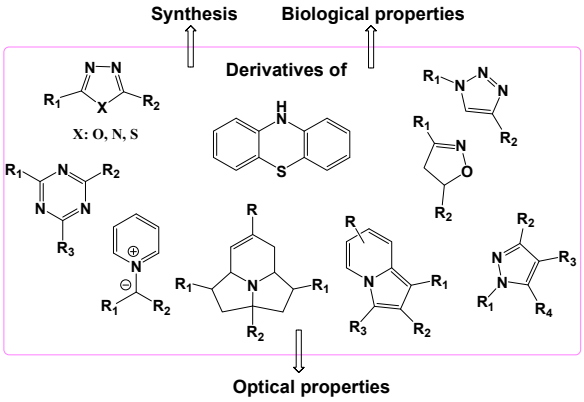
Chimie organică: Sinteze de derivaţi heterociclici cu N, S şi O.

Chimie medicală: Sinteze de compuşi ţintă biologic activi, cu potentiala activitate anticancer, anti-inflamatoare şi antimicrobiana.

Chimia materialelor: Sinteze de copolimeri cu proprietăţi speciale.

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

N-ilide, cicloadiţii 1,3-dipolare, anticancer, tubulina, inhibitori ai farneziltranferazei umane, antimicrobian, fluorescenţa, semiconductori.



Doctorat
Univ. „Alexandru Ioan Cuza" Iaşi, 1996

Conducător doctorat
Univ. „Alexandru Ioan Cuza" Iaşi, 2007-

Membru în CNATDCU
Comisia *Chimie,* 2012-2016

Profesor invitat
USTL Lille, France (1999 si 2002)
IUT"A"-Polytech. Lille, France (2008)

Premiul "Magda Petrovanu"
Univ. „Alexandru Ioan Cuza" Iaşi, 2014

Publicaţii (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**.