

**CURRICULUM
VITAE**

**PERSONAL
INFORMATION**

Full name
Birth place and date
Nationality

Institutional address

Phone

E-mail

PROF. DR. ELENA BÎCU (BÂCU)

BÎCU (BÂCU) ELENA
May, 10, 1955, Putna village, Suceava county, Romania.
Romanian

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry,
Bd. Carol I nr. 11, 700506-Iași, Romania

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elena@uaic.ro

EDUCATION

July 12.1996 - PhD degree in organic chemistry at "Al. I. Cuza" University of Iasi, Romania; The PhD thesis was entitled: "*New phenothiazinic derivatives with potential activity in chemotherapy*"; Supervisor: Prof. dr. doc. Magda Noela Petrovanu.
1978-1979: "Gheorghe Asachi" Technical University of Iasi, Master Degree at the Faculty of Industrial Chemistry,, specialization organic chemistry
1974-1978 : "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Chemistry, Specialization: Chemistry
1970-1974 : High school nr. 2 of Radauti.
1962-1970: primary and secondary school Putna village, Suceava county, Romania

**PROFESSIONAL
EXPERIENCE**

May 2007 –present: PhD leadership at UAIC Iasi
2003 - present: Professor at Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iași, Romania
1997 – 2003, Associate Professor at Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iași
1991 – 1997: Lecturer Professor at Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iași
1990 – 1991: Assistant Professor at Facuat Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iași
1987 – 1990: Assistant Professor at Faculty of Industrial Chemistry, "Gheorghe Asachi" Technical University of Iasi.
1983 – 1987: Chemist at Institute "P. Poni" Iași.
1979 – 1982: Chemist at chemical factory Craiova, Romania.
Didactic activity: teaching and laboratory work of the following courses: Organic Chemistry, Chemistry Dyes, Rearrangement Reactions and Synthetic Drugs.

EVALUATION AND EXPERTISE

Member of the Commission "Chemistry" of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates (CNATDCU) Romanian Ministry of Education, Research and Innovation -since 2012

PhD Examiners: "Alexandru Ioan Cuza" University of Iași, "Gheorghe Asachi" Technical University of Iasi, Institut "P. Poni" Iasi, University of Lille II France.

Member of Habilitation Commission – HDR Lille (2014) France.

Member of the bachelor and dissertation commissions.

Scientific reviewer for *An. St. Univ. "Al. I. Cuza" Iași*, *s. Chimie*, *Eur. J. Med. Chem.*, *Bioorganic & Medicinal Chemistry Letters* si *Letters in Drug Design & Discover*

COMPETENCES

- ☞ Organic Chemistry: Fine organic synthesis
- ☞ Heterocyclic chemistry: Synthesis, characterisation and biological evaluations of heterocyclic derivatives (s-triazine, pyridazine, pyrrolidine, pyridine, 4,4-bipyridine, phenothiazine and indolizine).
- ☞ Medicinal Chemistry: design, synthesis and bioactivity of heterocyclic derivatives as potential anticancer agents.

RESEARCH AREAS

- 1 Brevet and 76 scientific articles published, 46 (31 with Bicu E. and 15 with Bacu E.) ISI indexed and 30 articles published in journals abroad.
- Data obtained from ISI Web of Science:
Bacu E. Sum of Citation 96. Sum of Citation without self-citations 78. h-index 6.
Bicu E. Sum of Citation 248. Sum of Citation without self-citations 195. h-index 9.
- National grants as project leader: 10; The most recent one was in the frame of the CEEC CERES program (2005-2008) (project nr. II 106) and was entitled "Phenothiazine hybrids – heterocycles containing nitrogen and sulfur atoms with potential pharmacological effects".

POSTGRADUATE

Specialized in Organic Chemistry, UST Lille, France (1992, 1993, 1994 and 1995).

SUPPLEMENTARY INFORMATION:

- PhD leadership: May 2007- present; supervised 8 PhD theses and 1 Post-doc.
- 2009-2012 – Executive manager of the Chemistry Doctoral School at "Al. I. Cuza" University, Faculty of Chemistry

- Invited Professor: in 1999, 2002 – at USTL, Lille, France and in 2008 at IUT"A"-Polytech. Lille.
- Member of the scientific and organization committees of the French-Romanian Colloquium on Medicinal Chemistry, CoFr-RoCM (2010, 2012 and 2014) at "Alexandru Ioan Cuza" University of Iași, Romania

Books:

1. “*Metodica predării chimiei*“, V.Sunel, I.Ciocoiu, T.Rudica, **E. Bîcu**, Editura Marathon, Iasi, 1996 (390 pagini), ISBN: 973-97362-0-3
2. “*Metodica predării chimiei pentru concursul de titularizare, examene de definitivat si grade didactice II, I.*“, V. Sunel, I. Ciocoiu, T. Rudica, **E. Bîcu**, Ed. Marathon, Iasi, 1997 (475 pag.), ISBN: 973-97362-2-X
3. “*Transpoziții moleculare*”, **E. Bîcu**, Ed. Univ. “Al. I. Cuza” Iași, 2002, (184 pag.), ISBN: 973-8243-66-1
4. “*Chimie organică-exerciții și probleme*”, **E. Bîcu**, L. Bîrsă, D. Belei, D. Sîrbu, Ed. Pim Iași, 2003, (266 pag.), ISBN: 973-8490-90-1
5. “*Coloranți*”, **E. Bîcu**, Ed. Univ.”Al.I.Cuza”-Iași, 1997 (188 pag.).

Bîcu’s recent publications (2012-2016) on the design, synthesis and bioactivity of heterocyclic derivatives as potential anticancer agents:

1. “New Farnesyltransferase Inhibitors in the Phenothiazine Series”, D. Belei, C. Dumea, A. Samson, A. Farce, J. Dubois, **E. Bîcu**, A. Ghinet, *Bioorganic & Medicinal Chemistry Letters*, 22, 4517-4522 (2012).
2. “An efficient one-pot reaction for the synthesis of pyrazolones bearing a phenothiazine unit”, L. Baciu-Atudosie, A. Ghinet, D. Belei, P. Gautret, B. Rigo, **E. Bîcu**, *Tetrahedron Letters*, 53, 6127-6131 (2012).
3. “Synthesis and biological evaluation of new phenothiazine derivatives bearing a pyrazole unit as protein farnesyltransferase inhibitors”, L. Baciu-Atudosie, A. Ghinet, A. Farce, J. Dubois, D. Belei, **E. Bîcu**, *Bioorganic & Medicinal Chemistry Letters*, 22, 6896-6902 (2012).
4. “Synthesis and biological evaluation of a new series of phenothiazine-containing protein farnesyltransferase inhibitors”, C.-M. Abuhaie, A. Ghinet, A. Farce, J. Dubois, P. Gautret, B. Rigo, D. Belei, **E. Bîcu**, *European Journal of Medicinal Chemistry*, 59, 101-110 (2013).
5. “Synthesis and anticancer activity of analogues of phenstatin, with a phenothiazine A-ring, as a new class of microtubule-targeting agents”, C.-M. Abuhaie, **E. Bîcu**, B. Rigo, P. Gautret, D. Belei, A. Farce, J. Dubois, A. Ghinet, *Bioorganic & Medicinal Chemistry Letters*, 23, 147-152 (2013).
6. “Studies on Pyrrolidinones: Chemistry of Dimethoxytriazines”, L. Lucescu, P. Gautret, S. Oudir, B. Rigo, D. Belei, **E. Bîcu**, A. Ghinet, *Synthesis-Stuttgart*, 45 (10), 1333-1340 (2013).
7. “Synthesis and biological evaluation of a new series of N-ylides as protein farnesyltransferase inhibitors”, C.-M. Abuhaie, A. Ghinet, A. Farce, J. Dubois, B. Rigo, **E. Bîcu**, *Bioorganic & Medicinal Chemistry Letters*, 23, 5887-5892 (2013).
8. “Peptide chemistry applied to a new family of phenothiazine-containing inhibitors of human farnesyltransferase”, G.-M. Dumitriu, A. Ghinet, **E. Bîcu**, B. Rigo, J. Dubois, A. Farce, D. Belei, *Bioorganic & Medicinal Chemistry Letters*, 24(14), 3180–3185, (2014).

9. "Eaton's Reagent-Mediated Domino pi-Cationic Arylations of Aromatic Carboxylic Acids to Iasi-Red Polymethoxylated Polycyclic Aromatic Hydrocarbons: Products with Unprecedented Biological Activities as Tubulin Polymerization Inhibitors", A. Ghinet, P. Gautret, N. Van Hijfte, B. Ledé, J.-P. Hénichart, **E. Bîcu**, U. Darbost, B. Rigo, A. Daïch, *Chemistry - A European Journal*, 20 (32), 10117-10130, (2014).
10. "Novel indolizine derivatives with unprecedented inhibitory activity on human farnesyltransferase", C. Dumea, D. Belei, A. Ghinet, J. Dubois, A. Farce, **E. Bîcu**, *Bioorganic & Medicinal Chemistry Letters*, 24 (24), pp. 5777-5781, (2014).
11. "Investigation of new phenothiazine and carbazole derivatives as potential inhibitors of human farnesyltransferase", G.-M. Dumitriu, A. Ghinet, D. Belei, B. Rigo, P. Gautret, J. Dubois, **E. Bîcu**, *Letters in Drug Design & Discovery*, 12(2), 85-92, (2015)
12. "Studies on indolizines. Evaluation of their biological properties as microtubule- interacting agents and as melanoma targeting compounds", A. Ghinet, C.-M. Abuhaie, P. Gautret, B. Rigo, J. Dubois, A. Farce, D. Belei, **E. Bîcu**, *Eur. J. Med. Chem.*, 89, 115-127, (2015).
13. "Phenothiazine-based CaaX competitive inhibitors of human farnesyltransferase bearing a cysteine, methionine, serine or valine moiety as a new family of antitumoral compounds", Dumitriu, G.-M., **Bîcu**, E., Belei, D., Rigo, B., Dubois, J., Farce, A., Ghinet, A., *Bioorganic and Medicinal Chemistry Letters*, 25 (20), pp. 4447-4452, (2015).
14. "Discovery of indolizines containing triazine moiety as new leads for the development of antitumoral agents targeting mitotic events", Lucescu, L., Ghinet, A., Belei, D., Rigo, B., Dubois, J., **Bîcu**, E., *Bioorganic and Medicinal Chemistry Letters*, 25 (18), 3975-3979, (2015).
15. "Synthesis and biological evaluation of a new class of triazin-triazoles as potential inhibitors of human farnesyltransferase", Lucescu, L., **Bîcu**, E., Belei, D., Shova, S., Rigo, B., Gautret, P., Dubois, J., Ghinet, A., *Research on Chemical Intermediates*, 42, 1999–2021, (2016).
16. "Synthesis and Biological Evaluation of Some New Indolizine Derivatives as Antitumoral Agents" L. Lucescu , **E. Bîcu** , D. Belei , J. Dubois , A. Ghinet, *Letters in Drug Design & Discovery*, 13, 479-488, (2016).
17. "Studies on phenothiazines: New microtubule-interacting compounds with phenothiazine A-ring as potent antineoplastic agents", A. Ghinet, I.-M. Moise, B. Rigo, G. Homerin, A. Farce, J. Dubois, **E. Bîcu**, *Bioorganic & Medicinal Chemistry*, 24(10), 2307-2317, (2016).
18. "New indolizine-chalcones as potent inhibitors of human farnesyltransferase: design, synthesis and biological evaluation", Iuliana-Monica Moise, Alina Ghinet, Dalila Belei, Joëlle Dubois, Amaury Farce, **Elena Bîcu**, *Bioorganic Medicinal Chemistry Letters*, 26(15), 370-3734, (2016).
19. "Methylene versus Carbonyl Bridge in the Structure of New Tubulin Polymerization Inhibitors with Tricyclic A-Rings", I.-M. Moise, **E. Bîcu**, J. Dubois, A. Farce, B. Rigo, A. Ghinet, *Bioorganic and Medicinal Chemistry*, 24(22), 6021-6030, (2016).