

B2. Curriculum Vitae of the Project leader (maximum 2 pages);

PROF. DR. ELENA BÎCU (BÂCU)

PERSONAL INFORMATION

Full name **BÎCU (BÂCU) ELENA**
Birth place and date May, 10, 1955, Putna village, Suceava county, Romania.
Nationality Romanian
Institutional address "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry,
Bd. Carol I nr. 11, 700506-Iași, Romania
Phone +40232201347
E-mail 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
phenothiazine derivatives with potential activity in chemotherapy*";
Supervisor: Prof. dr. doc. Magda Noela Petrovanu.
1978-1979: "Gh. 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.

December 2020 – present: Professor Emeritus at UAIC Iasi, Romania

PROFESSIONAL

May 2007 – present: PhD leadership at UAIC Iasi

EXPERIENCE

2003 – present: Professor at Faculty of Chemistry, UAIC Iași

1997 – 2003, Associate Professor at Faculty of Chemistry, UAIC Iași

1991 – 1997: Lecturer Professor at Faculty of Chemistry, UAIC Iași

1990 – 1991: Assistant Professor at Faculty of Chemistry, UAIC Iași

1987 – 1990: Assistant Professor at Faculty of Industrial Chemistry,
"Gh. Asachi" Technical University of Iasi.

1983 – 1987: Chemist at Institute "P. Poni" Iași.

1979 – 1982: Chemist at Combinatul Chimic Craiova, Romania.

Didactic activity: teaching and laboratory work of the following
courses: Organic Chemistry, Chemistry Dyes, Rearrangement
Reactions and Synthetic Drugs, (co)author of **5 books** dedicated to
didactic activity.

**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 -since 2012 -2016.

PhD Examiners: "Alexandru Ioan Cuza" University of Iași, "Gh. Asachi" Technical University of Iasi, "P. Poni" Institute Iasi, University of Health and Law Lille II France.

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

Member of the bachelor degree and dissertation commissions.

Scientific reviewer for *An. St. Univ. "Al. I. Cuza" Iași*, *s. Chimie, Eur. J. Med. Chem., Bioorg. Med. Chem. Lett.* and *Drug Des. Discov. Lett.*

**COMPETENCES AND
RESEARCH AREAS**

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

**SCIENTIFIC
INDICATORS**

- **1 Patent and 88 scientific articles published** (Bîcu E. and Bâcu E.)
- **33 Articles published in 2013-2023;**
- Data obtained from **Web of Science** for Bicu E., 42 publications, h= 16, 598 citations and Bacu E., 14 publications, h= 6, 125 citations.
- 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) "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 9 PhD theses and 1 Post-doc.
- 2008-2012 – Executive manager of the Chemistry Doctoral School at "Al. I. Cuza" University and in the period 2000-2004 manager of Organic and Biochemistry Department, Faculty of Chemistry.
- Invited Professor: in 1999, 2002 – at USTL, Lille and in 2008 at IUT"A"-Polytech. Lille, France.
- Member of the scientific and organization committees of the French-Romanian Colloquium on Medicinal Chemistry, CoFr-RoCM (2010, 2012, 2014 and 2017) at UAIC- Iași Romania.

Iași, 03.07.2023

Professor emeritus Elena BÎCU



PROF. DR. ELENA BÎCU (BÂCU)

Teza de doctorat: „Noi compusi fenotiazinici fiziologic activi”, **E. Bîcu**, sub conducerea științifică a Prof. dr. doc. Magda Petrovanu, UAIC-Iași, 1996.

Carti:

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. Sîrb
Ed. Pim Iași, 2003, (266 pag.), ISBN: 973-8490-90-1
5. “Coloranți”, **E. Bîcu**, Ed. Univ. “Al. I. Cuza”-Iași, 1997 (188 pag.).

Publicații științifice:

Brevet:

“Derivați triazinici ai acidului N-(p-aminobenzoil)-L-(+)-glutamic”, I. Druță, M. Simionovici, N. Bristeanu, **Elena Bîcu**, *Brevet* nr. 78016/03.09.1981.

Lista de lucrari:

1. “Intramolecular charge transfer complexes. Copolymers of *N*-ethyl-3-hydroxymethyl phenothiazinyl-acrylate and metacrylate with acryloyl and methacryloyl- β -hydroxyethyl -3,5-dinitrobenzoate”, C. I. Simionescu, **Elena Bîcu**, M. Grigoras, V. Barboiu, *Eur. Polym. J.*, 20(11), 1053-1056 (1984).
2. “Spontaneous copolymerization of 2-methyl-2-oxazoline and *N*-phenyl-maleimide”, C. I. Simionescu, **Elena Bîcu**, M. Grigoras, G. Onofrei, *Polymer Bulletin*, 14, 79-83 (1985).
3. “Tranzitions conformationelles des tribloccopolymères du type ABA”, M. Grigoras, G. Onofrei, **Elena Bîcu**, I. Rabia, *Bul. Inst. Polit.-Iasi*, Tom XXXI(XXXV), 123-128 (1985).
4. “Copolimeri cu grupe fenotiazinice si dinitrobenzoice”, **Elena Bîcu**, M. Grigoras, *Materiale Plastice*, 26(2), 79-82 (1989).
5. “Synthese de quelques nouveaux derives pyridaziniques doues d’activite physiologique”, M. Caprosu, St. Cilianu, R. Bogza, M. Petrovanu, **Elena Bîcu**, *Bul. Inst. Polit. Iasi*, Tom XXXVI(XL), 1-2, S. II, 71-74 (1990).
6. “Sinteza unor noi derivați pirolidinici cu actiune psihotropă”, E. Stefanescu, M. Petrovanu, I. Ciocoiu, M. Caprosu, **Elena Bîcu**, *Rev. medico-chirurgicala*, 96(3-4), 241-142 (1992).
7. “Produits de polycondensation des dérivés de la phénothiazine”, **E. Bîcu**, M. Grigoras, M. Petrovanu, I. Ciocoiu, *An. St. Univ. “Al. I. Cuza” Iași*, Tom III, s. Chimie, 143-150 (1995).

8. "Nouveaux 10-*H*-phénothiazine-10-yl-alcoyl-amides doués d'éventuelle action biologique", **E. Bîcu**, M. Petrovanu, I. Ciocoiu, C. Mungiu, *An. St. Univ. "Al. I. Cuza" Iași*, Tom III, s. Chimie, 135-141 (1995).
9. "Copper (II) complex compounds with *N*-substituted phenothiazine derivatives", C. Guran, I. Jitaru, A. Meghea, I. Bită, **Elena Bîcu**, "*Zilele Academiei Timisene*", Editia a IV-a, Stiințe chimice, 25-27 mai 1995 Timișoara, vol I, Ed. Mirton Timișoara, pag. 331-134, 1995.
10. "Synthese d'unités de type triazole et thiadiazole enchainées à la phenothiazine", M. Petrovanu, **E. Bâcu**, P. Grandclaoudon, A. Couture, *Phosphorus, Sulfur and Silicon*, vol. 108, 231-237 (1996).
11. "Données expérimentales concernant les effets pharmacologiques de quelques nouveaux dérivés phénothiaziniques", **E. Bâcu**, M. Petrovanu, C. Antohie, I. Ciocoiu, O. C. Mungiu, *Ann. Pharmaceutiques françaises*, 55, (6), 269-271 (1997).
12. "Complex compounds of copper (II) with phenothiazine derivatives", C. Guran, **E. Bîcu**, I. Jitaru, I. A. Meghea, V. Iluc, M. Bojin, P. Diaconescu, *Rev. Roum. Chem.*, 42 (9), 891-896 (1997).
13. "Complex compounds with phenothiazine derivatives as biological ligands" C. Guran, **E. Bâcu**, I. Ciocoiu, M. Bojin, P. Diaconescu, O. Jinga, *Roum. Biotechnol. Lett.*, Vol. 2 (3), 243-252 (1997).
14. "Pyrazolin-5-one attached to phenothiazine", **E. Bâcu**, M. Petrovanu, P. Grandclaoudon, P. Couture, *Roum. Biotechnol. Lett.*, Vol. 2 (5), 383-389 (1997).
15. "Complex compounds of some metals with phenothiazine derivatives, as biological active ligands", C. Guran, **E. Bâcu**, N. Carp, A. Meghea, V. Iluc, P. Diaconescu, S. Nicolae, *Conferința de Chimie și Inginerie Chimică*, Bucuresti, Vol.I, pag. 38-43 1997.
16. "Synthesis of 7,7'-bisindolizines by the reaction of 4,4'-bipyridinium-ylides with activated alkynes", I. Druță, R. Dincă, **E. Bâcu**, I. Humelnicu, *Tetrahedron*, 54, 10811-10818 (1998).
17. "Complex compounds with phenothiazine derivatives as biologically active ligands. Mono and polynuclear complex compounds of Fe(III)", C. Guran, **E. Bîcu**, N. Carp, V. Iluc, P. Diaconescu, M. Bojin, S. Nicolae, *Roum. Biotechnol. Lett.*, Vol. 3, (2), 123-130 (1998).
18. "The biological activity of new diquaternary salts of ammonium derivatives from 4,4'-bipyridine", I. Druță, R. Dinică, **E. Bâcu**, M. Andrei, *An. St. Univ. "Al. I. Cuza" Iași*, Tom VI, s. Chimie, 19-22 (1998).
19. "Complex compounds of Cu(II) with phenothiazine derivatives, as biological active ligands", **E. Bâcu**, C. Guran, I. Ciocoiu, V. Iluc, *An. St. Univ. "Al. I. Cuza" Iași*, Chimie, 29-34 (1998).
20. "Synthesis d'hybrides 1,3,4-oxadiazole-phenothiazine", **E. Bâcu**, M. Petrovanu, A. Couture, P. Grandclaoudon, *Phosphorus, Sulfur and Silicon*, vol. 149, 207-220 (1999).
21. "On the electrical and thermoelectrical properties of some 4,4'-dipyridylium quaternary salts", I. Caplanus, L. Leontie, I. Druta, **Elena Bâcu**, R. Dinica, I. I. Rusu, G. I. Rusu, *Roum. Biotechnol. Lett.*, vol. 4(6), 489-496 (1999).
22. "Heteroarylation de la phenothiazine en position 10", **E. Bâcu**, M. Petrovanu, P. Grandclaoudon, *Rev. Roum. Chem.*, 44(3), 231-234 (1999).
23. "Diamides et dipeptides liés au cycle phenothiazinique", **E. Bâcu**, M. Petrovanu, P. Grandclaoudon, A. Couture, *Rev. Roum. Chem.*, 44(7), 699-703 (1999).

24. „Synthesis and characterizsation of new Cu (II) and Mn (II) complex compounds with phenothiazine derive with biological properties”, S. Pasolescu, C. Guran, **E. Băcu**, I. Ciocoiu, D. Samson, T. Negreanu, *Ovidius University Annales of Chemistry*, vol 11(1), 4-6 (2000).
25. “Bioactive transition metal complexes of phenothiazine derivatives”, Pasolescu S., **Băcu E.**, Ciocoiu I., Negreanu-Parjol T., Guran C., *Buletinul Stiintific al Universitatii “Politehnica” Timisoara*, s. Chimie si mediu, 45(2), 281-286 (2000).
26. „Synthesis of some new Schiff bases derived from phenothiazine”, D.S. Belei, I. Ciocoiu, C. Ciocoiu, **E. Băcu**, *An. St. Univ. “Al. I. Cuza” Iași*, s. Chimie, IX, 155-160 (2001).
27. „New hidrazides of the acrylic acid derived from phenothiazine”, D. S. Belei, E. Băcu, M. Andrei, M. Petrovanu, *Roum. Biotechnol. Lett.*, 6(6), 501-506 (2001).
28. „The synthesis of some hybrids phenothiazine-2,3-dihydro-oxadiazole”, M. Grosu, A. Finaru, **E. Băcu**, A. Couture, P. Grandclaudon, *Scientific Study & Research*, vol.II (1-2), 3-6 (2001).
29. „Biological action studies on Mn(II) and Cu(II)-phenothiazine complexes”, Pasolescu S, Negreanu T, **Băcu E**, Ciocoiu I, Guran, *Journal of Inorganic Biochemistry*, 86(1): 372 (2001).
30. „Potential drug delivery systems from maleic anhydride copolymers and phenothiazine derivatives”, **E. Băcu**, G. C. Chitanu, A. Couture, P. Grandclaudon, Gh. Singurel, A. Carpov, *Eur. Polym. J.*, 38, 1509-1513 (2002).
31. „Etude de toxicite sur des Cu (II) complexes des phenothiazines”, S. Pasolescu, T. Nicolaie, **E. Băcu**, F. Dumitru, C. Guran, *Colloque Franco-Roumain de Chimie Applique*, Bacău, România, 10-12 oct. 2002, Ed. Alma Mater Bacau si Tehnica-Info Chisinau, 163-164 (2002).
32. „Synthesis and characterization of 2,2-disubstituted 5-(2-phenothiazin-10-yl-ethyl)-2,3-dihydro-1,3,4-oxadiazoles”, **E. Băcu**, A. Couture, P. Grandclaudon, *Synth. Comm.*, 33 (1), 143-151 (2003).
33. „New phenothiazine derivatives with potential pharmacological properties and chelating activity”, **E. Băcu**, D. S. Belei, A. Couture, P. Grandclaudon, *Rev. Roum. Chem.*, 48(2), 119-124 (2003).
34. „Benzoinolizine derivatives of N-acylphenothiazine. Synthesis and characterization.”, **E. Băcu**, D. S. Belei, G. Nowogrocki, A. Couture, P. Grandclaudon, *Organic & Biomolecular Chemistry* (Formerly *Perkin Transactions 1 and 2*), 1, 2377-2382 (2003).
35. „Biological activity of some phenothiazine derivatives in wheat germination” D. S. Belei, **E. Băcu**, G. Drochioiu, *An. St. Univ. “Al. I. Cuza” Iași*, s. Chimie, Tom XI, 161-165 (2003).
36. „Pt(II) and Pd(II) complexes with phenothiazine derivatives. Synthesis, characterization and biological assay”, S. Pasolescu, **E. Băcu**, F. Dumitru, T. Negreanu, C. Guran, 13th *Romanian international conferince on Chemistry and Chemical Engineering*, Sept. 2003, Bucharest, Romania, vol.1, pg. 53-58 (2003).
37. „Immunomodulatory and anti-inflammatory effects of a new phenothiazine derivative”, D. Belei, C. E. Lupușoru, C. M. Ghiciuc, **E. Băcu**, I. Antonesei, L. Tarțău, A. Couture, P. Grandclaudon, *Terapeutică, Toxicologie și Farmacologie clinică*, 8(1), 97-101 (2004).
38. „Les effets immunosuppresseurs d’un nouveau derive de la phenothiazine”, C. M. Ghiciuc, D. Belei, C. E. Lupușoru, **E. Băcu**, I. M. Antonesi, O. Jerca, R. Lupușoru, A. Couture, P. Grandclaudon, *Annales Pharmaceutiques françaises*, 62, 43-48 (2004).

39. „Biologically active Cu(II) and Fe(III) complexes of a phenothiazine derivative with an extended coordination sphere. Solution structures”, C. G. Palivan, **E. Băcu**, S. Antonescu, C. Guran, G. Gescheidt, *Rev. Roum. Chem.*, 51(3), 169-178 (2006).
40. „Synthese de derives de pyrrolo[1,2-b]pyridazine greffes sur la N-acylphenothiazine”, **E. Băcu**, D. Belei, A. Couture, P. Grandclaude, *Rev. Roum. Chem.*, 51(9), 887-894 (2006).
41. „Studiu privind potențialul biologic activ a unor derivati de fenotiazina”, **E. Băcu**, N. Vornicu, C. Bibire, D. Belei, *Conservarea si restaurarea patrimoniului cultural*, Ed. Trinitas Iasi, vol VI, 103-105 2006.
42. „Influence on immune parameters of some new synthetic phenothiazine derivatives administered in different doses in laboratory animals”, C. Lupusoru, C. Ghiciuc, C. Zamfir, I. Antonesi, R. Lupusoru, D. Belei, **E. Băcu**, *Timisoara Medical Journal*, 56(2), 189-194 (2006).
43. „Antibacterial and antifungal activities of phenothiazine salts derivatives”, A. Couture, P. Grandclaude, **E. Băcu**, N. Vornicu, D. Belei, *Fundamental & Clinical Pharmacology*, 20, 622 (2006).
44. „Synthese de nouveaux derives N-acylphenothiaziniques potentiellement actifs en chimiotherapie”, **E. Băcu**, D. Belei, A. Couture, P. Grandclaude, *Rev. Roum. Chem.*, 52(3), 253-259 (2007).
45. „Cercetari privind activitatea antifungica a unor saruri de N-fenacil-2-carbaldoxim-piridiniu”, **E. Băcu**, N. Vornicu, D. Belei, L. Birsa, *Conservarea si Restaurarea Patrimoniului Cultural*, Editura Trinitas, vol. VIII, ISBN 978-973-155-002-3, pp. 6-14, 2008.
46. „Activitatea antibacteriana a trei saruri de N-fenacil-Y_(p)-2-carbaldoximpiridiniu”, **E. Băcu**, N. Vornicu, D. Belei, L. Birsa, *Conservarea si Restaurarea Patrimoniului Cultural*, Editura Trinitas, vol. VIII, ISBN 978-973-155-002-3, pp. 92-99, 2008.
47. “1,3-Dipolar Cycloaddition Reactions of N-Acetylazido-2-chlorophenothiazine”, D. Belei, **E. Băcu**, L. Bîrsă, *Acta Chemica Iasi*, 17, 197-207 (2009)
- 48 “A new synthetic methodology for the pyrrolidine ring”, D. Belei, **E. Băcu**, P. G. Jones, M. L. Birsa, *Synlett*, 6, 931-933 (2010).
49. “New complex compounds of Fe(III) and Cu(II) –with phenothiazines derivatines”, S. Antonescu, **E. Băcu**, N. Stanica, O. Oprea, C. Guran, *U.P.B. Sci.Bull., Series B*, Vol.72, Iss. 4, 145-154 (2010).
50. “New Phenothiazine Derivatives with Structure of Ionic Liquids”, G. Dumitriu, L. Lucescu, **E. Băcu**, D. Belei, *Acta Chimica Iasi*, 18(1), 77-88 (2010).
51. “A Selective Synthesis of Enamines versus Aziridines”, D. Belei, **E. Băcu**, P. G. Jones, M. L. Birsa, *J. Heterocyclic Chem.*, 48 , 1, 129-134 (2011).
52. “A Direct Synthesis of Octahydropyrrolo[2,1,5-cd]indolizin-6-one Derivatives”, D. Belei, C. Abuhaie, **E. Băcu**, P. Jones, H. Hopf, L. Birsa, *Synlett*, 4, 545-548 (2012).
53. “New Farnesyltransferase Inhibitors in the Phenothiazine Series”, D. Belei, C. Dumea, A. Samson, A. Farce, J. Dubois, **E. Băcu**, A. Ghinet, *Bioorganic & Medicinal Chemistry Letters*, 22, 4517-4522 (2012).
54. “An efficient one-pot reaction for the synthesis of pyrazolones bearing a phenothiazine unit”, L. Băciu-Atudosie, A. Ghinet, D. Belei, P. Gautret, B. Rigo, **E. Băcu**, *Tetrahedron Letters*, 53, 6127-6131 (2012).

55. "Synthesis and biological evaluation of new phenothiazine derivatives bearing a pyrazole unit as protein farnesyltransferase inhibitors", L. Baciú-Atudosie, A. Ghinet, A. Farce, J. Dubois, D. Belei, **E. Bîcu**, *Bioorganic & Medicinal Chemistry Letters*, 22, 6896-6902 (2012).
56. "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).
57. "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).
58. "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).
59. "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).
60. "[2.2]Paracyclophane substituted indolizines", L.G. Sarbu, **E. Bîcu**, H. Hopf, M.L. Birsă, *Revista de Chimie*, 65 (4), pp. 398-400 (2014).
61. "Synthesis of mesoionic [2-(10H-phenothiazinyl)-1,3-dithiolium]phenolates", L. G. Sîrbu, **E. Bîcu**, D. Belei, *Revista de Chimie*, 65(2), 249-251 (2014).
62. "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).
63. "A facile synthesis of Pechmann dyes", H. Hopf, P. G. Jones, A. Nicolescu, **E. Bîcu**, L. M. Birsă, D. Belei, *Chemistry - A European Journal*, 20 (19), 5565-5568 (2014).
64. "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).
65. "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).
66. "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).
67. "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).
68. "Phenothiazine and pyridine-N-oxide-based AIE-active triazoles: synthesis, morphology and photophysical properties", D. Belei, C. Dumea, **E. Bîcu**, L. Marin, *RSC Advances*, 5 (12), 8849-8858 (2015).

69. "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.**, Beleï, D., Rigo, B., Dubois, J., Farce, A., Ghinet, A., *Bioorganic & Medicinal Chemistry Letters*, 25 (20), 4447-4452 (2015).
70. "Discovery of indolizines containing triazine moiety as new leads for the development of antitumoral agents targeting mitotic events", Lucescu, L., Ghinet, A., Beleï, D., Rigo, B., Dubois, J., **Bîcu, E.**, *Bioorganic & Medicinal Chemistry Letters*, 25 (18), 3975-3979 (2015).
71. "Synthesis and biological evaluation of a new class of triazin-triazoles as potential inhibitors of human farnesyltransferase", Lucescu, L., **Bîcu, E.**, Beleï, D., Shova, S., Rigo, B., Gautret, P., Dubois, J., Ghinet, A., *Research on Chemical Intermediates*, 42(3), 1999-2021 (2016).
72. "Triflic Acid Catalyzed Intermolecular α -Amination of Pterolactams into 5-Arylamino-pyrrolidinones via N-Acyliminium Species", Gina-Mirabela Dumitriu, **Elena Bîcu**, Ulku Eryuruk, Dalila Beleï, Benoît Rigo, Adam Daïch, and Alina Ghinet, *Synlett*, 27, 934-940 (2016).
73. "Synthesis and Biological Evaluation of Some New Indolizine Derivatives as Antitumoral Agents", Liliana Lucescu, **Elena Bîcu**, Dalila Beleï, Joëlle Dubois, Alina Ghinet, *Letters in Drug Design & Discovery*, 13(6), 479-488 (2016).
74. "Studies on phenothiazines: new microtubule-interacting compounds with phenothiazine A-ring as potent antineoplastic agents", Alina Ghinet, Iuliana-Monica Moise, Benoît Rigo, Germain Homerin, Amaury Farce, Joëlle Dubois, **Elena Bîcu**, *Bioorganic & Medicinal Chemistry*, 24, 2307-2317 (2016).
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Iasi, 02.07. 2023

Professor Emeritus Elena Bîcu

