Curriculum Vitae

PROF. DR. ELENA BÎCU (BÂCU) - *Professor Emeritus*

PERSONAL INFORMATION

Full name	**BÎCU (BÂCU) ELENA**
Birth place and date	
Nationality	
Institutional address	"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Bd. Carol I nr. 11, 700506-Iaşi, Romania
Phone	+40232201347 ;
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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.

PROFESSIONAL EXPERIENCE

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

May 2007 – present: PhD leadership at UAIC Iasi

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

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

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

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

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

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

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 Iaşi, "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 commisions. Scientific reviewer for *An. St. Univ. "Al. I. Cuza" Iaşi*, 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 89 scientific articles published** (Bîcu E. and Bâcu E.) and **2 articles in press.** **- Web of Science: Bîcu E. H-index = 17 and Bâcu E. H- index = 6.** - National grants as project leader: 10; The most recent one was in the frame of the CEEX 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- Iaşi Romania.

Iaşi, 08.10.2024 Professor Emeritus Elena BÎCU

PROF. DR. ELENA BÎCU (BÂCU)

Teza de doctorat: *„Noi compusi fenotiazinici fiziolocic 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. "*Transpoziţii moleculare*", **E. Bîcu,** Ed. Univ. "Al. I. Cuza" Iaşi, 2002, (184 pag.), ISBN: 973-8243-66-1
4. "*Chimie organică-exerciţii şi probleme*", **E. Bîcu,** L. Bîrsă, D. Belei, D. Sîrb

   Ed. Pim Iaşi, 2003, (266 pag.), ISBN: 973-8490-90-1
5. "*Coloranţi*", **E. Bîcu**, Ed. Univ."Al.I.Cuza"-Iaşi, 1997 (188 pag.).

Publicaţii ştinţifice:

Brevet:

"Derivaţi triazinici ai acidului N-(p-aminobenzoil)-L-(+)-glutamic", I. Druţă, 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-hydroximethyl 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. "Spontaneaus 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 tribloccopolymeres 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. Iaşi,* Tom XXXVI(XL),1-2, S. II, 71-74 (**1990**).

6. "Sinteza unor noi derivaţi 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 derivés de la phénothiazine", **E. Bîcu**, M. Grigoras, M. Petrovanu, I. Ciocoiu, *An. St. Univ. "Al. I. Cuza" Iaşi*, Tom III, s.Chimie, 143-150 (**1995**).

8. "Nouveaux 10-*H*-phénothiazine-10-yl-alcoyl-amides doués d'eventuelle action biologique", **E. Bîcu**, M. Petrovanu, I. Ciocoiu, C. Mungiu, *An. St. Univ."Al. I. Cuza" Iaşi*, Tom III, s. Chimie, 135-141 **(1995)**.

9. "Copper (II) complex compounds with *N*-substituted phenothiazine derivatives"**,** C. Guran, I. Jitaru, A. Meghea, I. Bita, **Elena Bîcu,** "*Zilele Academiei Timisene*", Editia a IV-a, Stiinţe chimice, 25-27 mai **1995** Timişoara, vol I, Ed. Mirton Timişoara, pag. 331-134, **1995**.

10. "Synthese d'unites de type triazole et thiadiazole enchaineés à la phenothiazine", M. Petrovanu, **E. Bâcu**, P. Grandclaudon, 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. Grandclaudon, 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, *Conferinţa de Chimie şi 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. Druţă, 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. Druţă, R. Dinică, **E. Bâcu**, M. Andrei, *An. St. Univ."Al. I. Cuza" Iaşi*, 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" Iaşi*, Chimie, 29-34 **(1998)**.

20. "Synthesis d'hybrides 1,3,4-oxadiazole-phenothiazine", **E. Bâcu**, M. Petrovanu, A. Couture, P. Grandclaudon, *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. Grandclaudon, *Rev. Roum. Chem.,* 44(3), 231-234 **(1999).**

23. "Diamides et dipeptides lies au cycle phenothiazinique", **E. Bâcu**, M. Petrovanu, P.Grandclaudon, 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. Bâcu**, 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., **Bâcu 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. Bâcu**, *An. St. Univ. "Al. I. Cuza" Iaşi*, s. Chimie, IX, 155-160 (**2001**).

27. „New hidrazides of the acrylic acid derived from phenothiazine", D. S. Belei, E. Bâcu, 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. Bâcu,** 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, **Bâcu 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. Bâcu**, 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. Bâcu**, 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. Bâcu**, A. Couture, P. Grandclaudon, *Synth. Comm.*, 33 (1), 143-151 (**2003**).

33. „New phenothiazine derivatives with potential pharmacological properties and chelating activity", **E. Bâcu**, D. S. Belei, A. Couture, P. Grandclaudon, *Rev. Roum. Chem.,* 48(2), 119-124 **(2003).**

34. „Benzoindolizine derivatives of *N*-acylphenothiazine. Synthesis and characterization.", **E. Bâcu**, 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.Bâcu**, G. Drochioiu, *An. St. Univ. "Al. I. Cuza" Iaşi,* s. Chimie,Tom XI, 161-165 **(2003)**.

36. „Pt(II0 and Pd(II) complexes with phenothiazine derivatives. Synthesis, characterization and biological assay", S. Pasolescu, **E. Bâcu**, 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. Lupuşoru, C. M. Ghiciuc, **E. Bâcu**, I. Antonesei, L. Tarţău, A. Couture, P. Grandclaudon, *Terapeutică,Toxicologie şi 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. Lupuşoru, **E. Bâcu**, I. M. Antonesi, O. Jerca, R. Lupuşoru, 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. Bacu**, 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. Bâcu**, D. Belei, A. Couture, P.Grandclaudon, *Rev. Roum. Chem.*, 51(9), 887-894 (**2006**).

41. „Studiu privind potenţialul biologic activ a unor derivati de fenotiazina", **E. Bâcu**, 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. Bîcu,** *Timisoara Medical Journal*, 56(2), 189-194 (**2006**).

43. „Antibacterial and antifungal activities of phenothiazine salts derivatives", A. Couture, P. Grandclaudon, **E. Bâcu**, N. Vornicu, D. Belei, *Fundamental & Clinical Pharmacology,* 20, 622 **(2006).**

44. „Synthese de nouveaux derives N-acylphenothiaziniques potentiellement actifs en chimiotherapie", **E. Bâcu**, D. Belei, A. Couture, P. Grandclaudon, *Rev. Roum. Chem.*, *52*(3), 253–259 (**2007**).

45. „Cercetari privind activitatea antifungica a unor saruri de *N*-fenacil-2–carbaldoxim-piridiniu", **E. Bâcu**, 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. Bâcu**, 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. Bîcu**, L. Bîrsă, *Acta Chemica Iasi,* **17**, 197-207 **(2009)**

48 "A new synthetic methodology for the pyrrolidine ring", D. Belei, **E. Bîcu**, P. G. Jones, M. L. Bîrsa, *Synlett*, 6, 931-933 (**2010**).

49. "New complex compounds of Fe(III) and Cu(II) –with phenothiazines derivatines", S. Antonescu, **E. Bâcu**, 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. Bîcu,** D. Belei, *Acta Chimica Iaşi,* 18(1), 77-88 **(2010).**

51. "A Selective Synthesis of Enamines versus Aziridines", D. Belei, **E. Bîcu,** 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. Bîcu,** 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. Bîcu,** 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. Baciu-Atudosie, A. Ghinet, D. Belei, P. Gautret, B. Rigo, **E. Bîcu**, *Tetrahedron Letters*, *53*, 6127-6131 **(2012)**.

55. “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)**.

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. Birsa, *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. Birsa, 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.**, Belei, 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., Belei, 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.**, Belei, 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-Arylaminopyrrolidinones via N-Acyliminium Species", Gina-Mirabela Dumitriu, **Elena Bîcu**, Ulku Eryuruk, Dalila Belei, 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 Bele , 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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