

Lista de lucrari stiintifice:

1. M. C. Al-Matarneh, A. Nicolescu, I.-A. Dascalu, S. Shova, C.-D. Varganici, A. Fifere, R. Danac, I.-C. Marinas, Synthesis of New Zinc and Copper Coordination Polymers Derived from Bis (Triazole) Ligands, *Crystals*, (2024), **14**, 144.
2. V. Mangalagiu, R. Danac, D. Diaconu, G. Zbancioc, I.I. Mangalagiu, Hybrids Diazine: Recent Advancements in Modern Antimicrobial Therapy, *Curr. Med. Chem.*, (2024), **31(19)**, 2687- 2705.
3. M.-C. Sardaru, C.-M. Al Matarneh, N. Simionescu, I.I. Mangalagiu, M. Pinteala, **R. Danac**, New Monoquatarnary Salts of N-Heterocycles: Synthesis and Antitumor Assesment, *Rev. Roum. Chim.*, (2024), **69(1-2)**, 63-74.
4. C. Doroftei, L. Leontie, **R. Danac**, C.M. Al-Matarneh, A. Carlescu, Exploring Pyrrolo-Phenanthrolines as Semiconductors for Potential Implementation in Organic Electronics, *Materials*, (2023), **16(9)**, 3366.
5. L. Oniciuc, D. Amariuca-Mantu, D. Diaconu, V. Mangalagiu, R. Danac, V. Antoci, I.I. Mangalagiu, Benzoquinoline Derivatives: An Attractive Approach to Newly Small Molecules with Anticancer Activity, *Int. J. Mol. Sci.*, (2023), **24(9)**, 8124.
6. R. M. Amarandi, C.-M. Al Matarneh, L. Popovici, C. I. Ciobanu, A. Neamtu, I. I. Mangalagiu, **R. Danac***, Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach, *Pharmaceuticals*, (2023), **16(6)**, 865.
7. D. Amariuca-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, I. Mangalagiu, **R. Danac***, Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, *Phys. Sci. Rev.*, (2023), **8(9)**, 2583-2645.
8. C. Doroftei, A. Carlescu, L. Leontie, R. Danac, C.M. Al-Matarneh, Structural, Electrical and optical properties of pyrrolo[1,2-*i*][1,7] phenanthroline based organic semiconductors, *Materials*, (2022), **15(5)**, 1684.
9. C.M. Al Matarneh*, I. Rosca, S. Shova, **R. Danac***, Synthesis and properties of new fused pyrrolo-1,10-phenathroline type derivatives, *J. Serb. Chem. Soc.*, (2021), **86(10)**, 901-915.
10. C.M. Al Matarneh, R. M. Amarandi, I. I. Mangalagiu, **R. Danac***, Synthesis and biological screening of new cyano-substituted pyrrole fused (iso)quinoline derivatives, *Molecules*, (2021), **26**, 2066.
11. A.-M. Craciun, A. Rotaru, C. Cojocaru, I.I. Mangalagiu, **R. Danac***, New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, (2021), **249**, 119318.
12. M.-C. Sardaru, A. M. Craciun, C.-M. Al Matarneh, I. A. Sandu, R. M. Amarandi, L. Popovici, C. I. Ciobanu, D. Peptanariu, M. Pinteala, I. I. Mangalagiu, **R. Danac***, Cytotoxic substituted indolizines as new colchicine site tubulin polymerisation inhibitors, *J. Enz. Inhib. Med. Chem.*, (2020), **35(1)**, 1581-1595.
13. V. Antoci, C. Moldoveanu, **R. Danac**, V. Mangalagiu, G. Zbancioc, Huisgen [3 + 2] Dipolar Cycloadditions of Phthalazinium Ylides to Activated Symmetric and Non-Symmetric Alkynes, *Molecules*, (2020), **25(19)**, 4416.
14. M.-C. Sardaru, O. Carp, E.-L. Ursu, A.-M. Craciun, C. Cojocaru, M. Sillion, V. Kovalska, I. Mangalagiu, **R. Danac**, A. Rotaru, Cyclodextrin Encapsulated pH Sensitive Dyes as Fluorescent Cellular Probes: Self-Aggregation and In Vitro Assessments, *Molecules*, (2020), **25(19)**, 4397.
15. C. Gherasim, A. Airinei*, R. Tigoianu, A.M. Craciun, **R. Danac***, A. Nicolescu, D. L. Isac, I.I. Mangalagiu, Synthesis and photophysical insights on new fused N-heterocyclic derivatives with isoquinoline skeleton, *J. Mol. Liq.*, **310**, (2020), 113196.

16. C.M. Al Matarneh, C.I. Ciobanu, V. Mangalagiu, Gh. Zbancioc*, **R. Danac***, Microwave Assisted Synthesis of Six Member Ring Azaheterocycles and Their Antimycobacterial and Anticancer Evaluation, *Rev. Chim.*, **71(3)**, (2020), 287-293.
17. D. Amariuca-Mantu, V. Mangalagiu, **R. Danac**, I.I. Mangalagiu, Microwave assisted reactions of azaheterocycles for medicinal chemistry applications, *Molecules*, **25(3)**, (2020), 716.
18. **R. Danac**, A. Pui, I. Corja, R.-M. Amarandi, C.I. Ciobanu, M.-O. Apostu, O. Palamarciuc, New M(II) (M=Mn, Co, Ni, Cu, Zn, Pd) coordinative compounds with 2-formylpyridine S-methyl-isothiosemicarbazide, *J. Mol. Struct.*, **1207**, (2020), 12747.
19. C.M. Al Matarneh, R.M. Amarandi, A.M. Craciun, I.I. Mangalagiu, G. Zbancioc*, **R. Danac***, Design, synthesis, molecular modelling and anticancer activities of new fused phenanthrolines, *Molecules*, **25**, (2020), 527.
20. C.M. Al Matarneh, M.C. Sardaru, M.O. Apostu, I. Rosca, C. I. Ciobanu, I.I. Mangalagiu, **R. Danac***, Synthesis and antibacterial evaluation of new pyrrolo[3',4':3,4]pyrrolo[1,2-a]quinoline and pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline derivatives, *Studia UBB Chimia*, **LXIV(3)**, (2019), 67-80.
21. L. Popovici, R.M. Amarandi, I.I. Mangalagiu, V. Mangalagiu*, **R. Danac***, Synthesis, molecular modelling and anticancer evaluation of new pyrrolo[1,2-b]pyridazine and pyrrolo[2,1-a]phthalazine derivatives, *J. Enz. Inhib. Med. Chem.*, **34(1)**, (2019), 230-243.
22. L. Leontie, **R. Danac**, A. Carlescu, C. Doroftei, G.G. Rusu, V. Tiron, S. Gurlui, O. Susu, Electric and optical Properties of some new functional lower-rim-substituted calixarene derivatives in thin films, *Appl. Phys. A*, **124**, (2018), 355, 12 p.
23. A. Airinei, R. Tigoianu, **R. Danac**, C.M. Al Matarneh, D.L. Isac, Steady state and time resolved fluorescence studies of new indolizine derivatives with phenanthroline skeleton, *J. Lumin.*, **199**, (2018), 2-12.
24. C. M. Al Matarneh, C. I. Ciobanu, M. O. Apostu, I. I. Mangalagiu, **R. Danac***, Cycloaddition versus amidation in reactions of 2-amino-2-oxoethyl-phenanthroline ylides to activated alkynes and alkenes, *C. R. Chimie*, **21(1)** (2018), 1-8.
25. G. Pricope, E.L. Ursu, M. Sardaru, C. Cojocaru, L. Clima, N. Marangoci, **R. Danac**, I. Mangalagiu, B.C. Simionescu, M. Pinteala, A. Rotaru, Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles, *Polym. Chem.*, **9**, (2018), 968-975.
26. A.-M. Olaru, V. Vasilache, **R. Danac***, I.I. Mangalagiu*, Antimycobacterial activity of nitrogen heterocycles derivatives: 7-(pyridine-4-yl)-indolizine derivatives. Part VII, *J. Enz. Inhib. Med. Chem.*, **32(1)**, (2017), 1291-1298.
27. N.-L. Marangoci, L. Popovici, E.-L. Ursu, **R. Danac**, L. Clima, C. Cojocaru, A. Coroaba, A. Neamtu, I.I. Mangalagiu, M. Pinteala, A. Rotaru, Pyridyl-indolizine derivatives as DNA binders and pH-sensible fluorescent dyes, *Tetrahedron*, **72**, (2016), 8215-8222.
28. **R. Danac**, L. Leontie, A. Carlescu, S. Shova, V. Tiron, G. G. Rusu, F. Iacomì, S. Gurlui, O. Şuşu, Gh. I. Rusu, Electric Conduction Mechanism of Some Heterocyclic Compounds, 4,4'-Bipyridine and Indolizine Derivatives in Thin Films, *Thin Solid Films*, **612**, (2016), 358-368.
29. C.M. Al Matarneh, M.O. Apostu, I.I. Mangalagiu, **R. Danac***, Reactions of ethyl cyanofomate with cycloimmonium salts: a direct pathway to fused or substituted azaheterocycles, *Tetrahedron*, **72**, (2016), 4230-4238.
30. C.M. Al Matarneh, I. I. Mangalagiu, S. Shova, **R. Danac***, Synthesis, structure, antimycobacterial and anticancer evaluation of new pyrrolo-phenanthroline derivatives, *J. Enz. Inhib. Med. Chem.*, **31(3)**, (2016), 470-480.
31. C.M. Al Matarneh, C. I. Ciobanu, I. I. Mangalagiu, **R. Danac***, Design, synthesis and antimycobacterial evaluation of some new azaheterocycles with 4,7-phenanthroline skeleton. Part VI, *J. Serb. Chem. Soc.* **81(2)**, (2016), 133-140.

32. R. Postolache, R. Danac, A. Pui, New Coordinative Compounds with 4-(4'-pyridyl)pyridinium Disubstituted Monoylides, *Croat.Chem. Acta*, **88(3)**, (2015), 207-211.
33. **R. Danac**, C. M. Al Matarneh, S. Shova, T. Daniloia, M. Balan, I.I. Mangalagiu, New indolizines with phenanthroline skeleton: synthesis, structure, antimycobacterial and anticancer evaluation, *Bioorg. Med. Chem.*, **23**, (2015), 2318-2327.
34. R. Rusu, A. Szumna, N. Rosu, C. Dumea, **R. Danac***, New Triazole Appended *tert*-Butyl Calix[4]arene Conjugates: Synthesis, Hg²⁺ Binding Studies, *Tetrahedron*, **71**, (2015), 2922-2926.
35. C.M. Al Matarneh, **R. Danac**, L. Leontie, F. Tudorache, I. Petrila, F. Iacomi, A. Carlescu, G. Nedelcu, I. Mangalagiu, Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films, *Environmental Engineering and Management Journal*, **14(2)**, (2015), 421-431.
36. **R. Danac**, T. Daniloia, V. Antoci, V. Vasilache, I. I. Mangalagiu, Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with *p*-halobenzoyl Skeleton. Part V, *Lett. Drug Des. Discov.*, **12**, (2015), 14-17.
37. **R. Danac**, L. Leontie, M. Girtan, M. Prelipceanu, A. Graur, A. Carlescu, G.I. Rusu, On the d.c. electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films, *Thin Solid Films*, **556**, (2014), 216-222.
38. C. Rambu, **R. Danac**, A. Pui, Antibacterial Activity of Pd(II) Complexes with Salicylaldehyde-amino Acids Schiff Bases Ligands, *Chem. Pharm. Bull.*, **62(1)**, (2014), 12-15.
39. **R. Danac**, I. Mangalagiu, Antimycobacterial activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III, *Eur. J. Med. Chem.*, **74**, (2014), 664-670.
40. R. Postolachi, **R. Danac**, A. Moise, T. Malutan, M. Przybylski, A. Pui, Cobalt (II), nickel (II) and copper (II) complexes with cycloimmonium ylides as potential inhibitors for Glutamate Racemase, *Rev. Chim. (Bucharest)*, **64(11)**, (2013), 1301-1306.
41. R. Postolachi, **R. Danac***, N. J. Buurma, A. Pui, M. Balan, S. Shova, C. Delanu, New Cycloimmonium Ylide Ligands and their Palladium (II) Affinities, *RSC Advances*, **3**, (2013), 17260-17270.
42. L. Leontie, **R. Danac**, M. Girtan, A. Carlescu, A.P. Rambu, G.I. Rusu, Electron transport properties of some new 4-*tert*-butylcalix[4]arene derivatives in thin films, *Mater. Chem. Phys.*, **135**, (2012), 123-129.
43. **R. Danac**, L. Leontie, A. Carlescu, G.I. Rusu, DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films, *Mater. Chem. Phys.*, **134**, (2012), 1042-1048.
44. **R. Danac***, R. Rusu, A. Rotaru, A. Pui, S. Sova, New Conjugates of Calix[4]arenes Bearing Bipyridine and Indolizine Heterocycles, *Supramol. Chem.*, **24(6)**, (2012), 424-435.
45. L. Leontie, **R. Danac**, N. Apetroaei, G.I. Rusu, Study of electronic transport properties of some new N-(*p*-R-phenacyl)-1,7-phenanthroline bromides in thin films, *Mater. Chem. Phys.*, **127**, (2011), 471-478.
46. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films, *Synth. Met.*, **160 (23-24)**, (2010), 2526-2533.
47. R. Gradinaru, A. Luca, I. Cretescu, **R. Danac**, Fluorescent conjugates: pH stability, dye-DNA interaction and biological activity, *Rev. Chim. (Bucharest)*, **61(9)**, (2010), 903-906.
48. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, G. I. Rusu, Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties, *Synth. Met.*, **160**, (2010), 1273-1279.
49. M. Dumitras, N. Apostolescu, A. Luca, **R. Danac**, Thermal degradation of some new 7-(4'-pyridyl)-indolizine derivatives, *Acta Chemica Iasi*, **17**, (2009), 209-218.
50. A. Rotaru, I. Druta, E. Avram, **R. Danac***, Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines", *Arkivoc*, **13**, (2009), 287-299.

51. E. van Dijkum, **R. Danac**, D.J. Hughes, R. Wood, A. Rees, B. L. Wilkinson and A. J. Fairbanks, Synthesis of glucose derivatives modified at the 4-OH as potential chain-terminators of cellulose biosynthesis; herbicidal activity of simple monosaccharide derivatives, *Org. Biomol. Chem.*, **7**, (2009), 1097-1105.
52. **R. Danac**, L. Ball, S. J. Gurr and A. J. Fairbanks, Synthesis of UDP-GlcNAc Derivatives Modified at OH-3 as Potential Chain Terminators of Glucan Biosynthesis, *Carbohydr. Res.*, **343**, (2008), 1012-1022.
53. L. Leontie, **R. Danac**, I. Druta and G.I. Rusu, Electronic transport properties of 1-(p-R-phenacyl)-4- [[(1'-ethylcarboxylate)-(3'-p-R'-phenacyl)]-7'-indoliziny] pyridinium bromides in thin films, *Thin Solid Films*, **516(7)**, (2008), 1599-1603.
54. M. Prelipceanu, O. S. Prelipceanu, L. Leontie, **R. Danac**, Photoelectron spectroscopy investigations of pyrrolo[1,2-a][1,10]phenanthroline derivatives, *Phys. Lett. A*, **368(3-4)**, (2007), 331-335.
55. T. Muller, **R. Danac**, L. Ball, S. J. Gurr and A. J. Fairbanks, Synthesis of UDP-GlcNAc Derivatives Modified at OH-4 as Potential Chain Terminators of Chitin Biosynthesis, *Tetrahedron: Asymmetry*, **18**, (2007), 1299-1307.
56. **R. Danac**, L. Ball, S. J. Gurr, T. Muller and A. J. Fairbanks, Carbohydrate Chain Terminators: Rational Design of Novel Carbohydrate-Based Antifungal Agents, *ChemBioChem*, **8**, (2007), 1241-1245.
57. **R. Danac**, T. Daniloaia, M. Ungureanu, I. Druta, Nouveaux dérivés de la 1,7-phénantroline et 4,5-diazafluoren-9-one et leur activité antimicrobienne et antifongique *in vitro*, *An. St. Univ. "Al. I. Cuza" Iasi, s. Chimie*, tom **XV**, nr.1, (2007), 33-36.
58. L. Leontie, **R. Danac**, I. Druta, Electrical conduction mechanism in N-(p-R-phenacyl)-4,5-diazafluorenium-9-one bromides thin films, *Synth. Met.*, **155(2-4)**, (2006), 224-229.
59. L. Leontie, **R. Danac**, Optical properties of some new synthesized organic semiconductors in thin films, *Scripta Materialia*, **54(2)**, (2006), 175-179.
60. L. Leontie, I. Druta, **R. Danac**, and G.I. Rusu, On the electronic transport properties of pyrrolo[1,2-a]phenanthroline derivatives in thin films, *Synth. Met.*, **155(1)**, (2005), 138-145.
61. A. Rotaru, **R. Danac**, I. Druta, A. Vlahovici, Synthesis of fluorescent biindolizines with possible applications in environmental analyses, *Bulletin of the Transilvania University of Brasov, Series D, Special Edition EnvEdu 2005*, (2005), 297-299.
62. L. Leontie, I. Druta, **R. Danac**, M. Prelipceanu, G.I. Rusu, Electrical properties of some new high resistivity organic semiconductors in thin films, *Prog. Org. Coat.*, **54(3)**, (2005), 175-181.
63. A. Rotaru, **R. Danac**, I. Druta, G. Drochioiu, I. Cretescu, Synthesis and biological activity of diquaternary salt derivatives of 4,4'-bipyridil, *Rev. Chim. (Bucharest, Romania)*, **56(2)**, (2005), 179-183.
64. **R. Danac**, M. Constantinescu, A. Rotaru, A. Vlahovici, I. Cretescu, I. Druta, Study of Dipolar Cycloaddition Reaction of 1,10-Phenanthroline Ylides to Activated Alkenes, *Rev. Chim. (Bucharest)*, **56(1)**, (2005), 85-88.
65. **R. Danac**,* M. Constantinescu, A. Rotaru, C. Ghirvu, I. Druta, Synthesis of Novel 4,5-Diazafluoren-9-one Derivatives and Theoretical Study of 3+2 Cycloaddition Reactions, *J. Heterocycl. Chem.*, **41**, (2004), 983-996.
66. A. Rotaru, **R. Danac**, I. Druta, Synthesis of New Non-Symmetrical 7,7'-Bisindolizines by the Direct Reaction of 4,4'-Bipyridinium-Ylides with Dimethyl Acetylenedicarboxylate, *J. Heterocycl. Chem.*, **41**, (2004), 893-897.
67. M. Irimia, G. Lisa, **R. Danac**, N. Aelenei, I. Druta, Physico-Chemical Characterization of Some Diquaternary Salts of 4,4'-Bipyridyl, *Croat. Chem. Acta*, **77(4)**, (2004), 587-591.
68. A. Rotaru, M. Ungureanu, **R. Danac***, A. Poeata, I. Druta, Activité antimicrobienne *in vitro* de nouveaux sels diquaternaires dérivés de la 4,4'-bipyridine, *Ann. Pharm. Fr.*, **62**, (2004), 428-430.

69. L. Leontie, I. Druta, **R. Alupoae**, G. I. Rusu, On the electronic transport in some new synthesized high resistivity organic semiconductors in thin films, *Mat. Sci. Eng.*, **B100**, (2003), 252-258.
70. **R. Danac***, A. Rotaru, G. Drochioiu, I. Druta, Synthesis of novel phenanthroline derivatives by 3+2 dipolar cycloaddition reaction, *J. Heterocycl. Chem.*, **40**, (2003), 283.
71. G. Drochioiu, A. Pui, **R. Danac**, C. Basu, M. Murariu, Improved spectrophotometric assay of cyanide with picric acid and resorcinol, *Rev. Roum. Chim.*, (2003), **48**(8), 601-606.
72. G. Drochioiu, I. Ardeleanu, T. L. Timofte, **R. Danac**, I. Druta, Selective and Sensitive cyanide assay, *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **XI**(1), (2003), 155-160.
73. I. Druta, C. Cuciac, **R. Danac**, E. Avram, A. Rotaru, G. Drochioiu, The phytotoxic effect of some new monoquaternary salts of 4,4'-bipyridyl and 1,10-phenanthroline. *Pakistan J. Appl. Sci.*, **2**(2), (2002), 145-150;
74. I. Druta, **R. Danac**, M. Ungureanu, G. Grosu, D. Drochioiu, Activite antimicrobienne in vitro de nouveaux derives de la 1,10-phenanthroline, *Ann. Pharm. Fr.*, **60**, (2002), 348-351;
75. **R. Danac**, M. Irimia, A. Rotaru, G. Drochioiu, I. Druta, Study of the Basicity of Some 1,10-Phenanthroline Ylides, *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, **X**(2), (2002), 283-286.
76. I. Druta, **R. Danac**, G. Drochioiu, Phytotoxic activity of some new monoquaternary salts derived from 1,10-phenanthroline. *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, **IX**, (2001), 143-148;
77. I. Druta, **R. Danac**, R. Barbieru, D. Tapu, M. Andrei, Monoquaternary salts derivatives from 1,10-phenanthroline *Ann. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, **IX**, (2001), 150-154;
78. A. Vlahovici, M. Andrei, **R. Alupoae**, G. Drochioiu, I. Druta, Photophysics of Some Indolizines, Derivatives from Bipyridil, in Various Media, *Rom. Rep. Phys.*, **35**(9-10), (2001), 687-691.

Lista de participari la evenimente stiintifice:

1. Ciorteanu, R.; Ciobanu, C.; Mangalagiu, V.; Mangalagiu, I.I.; **Danac, R.**, New fused heterocyclic derivatives: synthesis and anticancer activity, *10TH INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH*, August 1 - 3, 2024, LUTSK, UKRAINE, Book of Abstract, pag. 421, **2024** (Oral presentation).
2. Ciorteanu, R.; Ciobanu, C.; Mangalagiu, V.; Mangalagiu, I.I.; **Danac, R.**, SYNTHESIS AND ANTICANCER EVALUATION OF NEW FUSED HETEROCYCLIC DERIVATIVES, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a XV-a, Iași, June 27, 2024, Iași, Romania, Book of Abstract, pag. 12-13, **2024** (Oral presentation).
3. Daniela Filipiuc, Alexandra Birzu, Catalina Ciobanu, Roxana Ciorteanu, Ionel I. Mangalagiu, **Ramona Danac**, Synthesis and anticancer evaluation of new 2,9-disubstituted-1,10-phenanthroline derivatives, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a XV-a, Iași, June 27, 2024, Iași, Romania, Book of Abstract, pag. 30-31, **2024** (Poster).
4. Tecla Dulgheriu, Sebastian Alupoae, Alexandru Rotaru, Monica Sardaru, **Ramona Danac**, Synthesis and Improvement of the properties of supramolecular hydrogels based on guanosine quartets, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a XV-a, Iași, June 27, 2024, Iași, Romania, Book of Abstract, pag 34-35, (Poster).
5. Ashraf Al-Matarneh, A. Danila, **R. Danac**, C. Al-Matarneh, I.I. Mangalagiu, Novel azaheterocyclic derivatives: synthesis and future prospects, Sesiunea de comunicări

- științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a XV-a, Iași, June 27, 2024, Iași, Romania, Book of Abstract, pag. 24-25, (Poster).
6. Ciorteanu, R.; Ciobanu, C.; Antoci, V.; Mangalagiu, V.; Mangalagiu, I.I.; **Danac, R.**, DESIGN, SYNTHESIS AND ANTICANCER POTENTIAL OF NOVEL FUSED HETEROCYCLIC COMPOUNDS, OPEN DOOR TO THE FUTURE SCIENTIFIC COMMUNICATIONS OF YOUNG RESEARCHERS MacroYouth 2024 5th Edition, November 15, 2024, Iasi, Romania, Book of Abstract, pag. 31-32. (Oral presentation). (Poster)
 7. Ciorteanu, R.; Ciobanu, C.; Sardaru, M.; Mangalagiu, V.; Mangalagiu, I.I.; **Danac, R.**, Novel fused pyrrole derivatives: synthesis and anticancer evaluation, IasiCHEM 2024 Conference, 6th Edition, October 31st - November 1st, 2024, Book of Abstract, pag. 33. (Poster)
 8. Ciorteanu, R.; Ciobanu, C.; Mangalagiu, V.; Mangalagiu, I.I.; **Danac, R.**, Design, synthesis and anticancer evaluation of new pyrrolo fused heterocycles, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready For Europe RARE 2024 - 1st Edition, 2 - 13 December 2024, Iasi, Romania, Book of Abstract, pag. 45, 2024 (Oral presentation).
 9. Ciorteanu, R.; Ciobanu, C.; Mangalagiu, I.I.; **Danac, R.**, SYNTHESIS AND ANTICANCER EVALUATION OF AZAINDOLIZINE COMPOUNDS, 11. INTERNATIONAL EUROPEAN CONGRESS ON ADVANCED STUDIES IN BASIC SCIENCES, 11-13 November 2024, Roma, Italy, Abstract in Book of Abstract, pag. 408, 2024 (Oral presentation).
 10. Ciorteanu, R.; Ciobanu, C.; Mangalagiu, I.I.; **Danac, R.**, Exploring new fused heterocycles for anticancer applications, 8th International Virtual Conference on Pharmaceutical Chemistry & Pharmaceutical Chemistry, December 13-14, 2024. (poster presentation)
 11. I.I. Mangalagiu, D. Diaconu, V. Mangalagiu, **R. Danac**, D. Amariuca Mantu, V. Antoci, C. Moldoveanu, G. Zbancioc, Antimicrobial and anticancer activity of some nitrogen heterocycles, IasiChem 6th Edition, 31 Oct – 01 Nov 2024, Iasi, Romania (plenary lecture), Book of Abstract, pag. 2.
 12. V. Antoci, D. Amariuca Mantu, D. Diaconu, **R. Danac**, C.I. Ciobanu, V. Mangalagiu, Ionel I. Mangalagiu, Ultrasound irradiation: application in synthesis of new hybrid azaheterocyclic compounds by *click chemistry*, IasiCHEM 2024 Conference, 6th Edition, October 31st - November 1st, 2024, Book of Abstract, pag. 38, 2024. (Poster)
 13. D. Filipiuc, A. Danila, C.I. Ciobanu, R. Ciorteanu, I.I. Mangalagiu, **R. Danac**, New 1,10-phenanthroline based derivatives: synthesis and biological evaluation, IasiCHEM 2024 Conference, 6th Edition, October 31st - November 1st, 2024, Book of Abstract, pag. 40, 2024. (Poster)
 14. Cristina-Maria AL MATARNEH, Sergiu SHOVA, Alina NICOLESCU, **R. Danac**, Sinteza de noi complecsi de zinc si cupru derivati din liganzi bistriazolici, Conferința științifică națională cu participare internațională „INTEGRARE PRIN CERCETARE ȘI INOVARE”, Chisinau, 7-8 noiembrie 2024. (prezentare orală).
 15. D. Amariuca-Mantu, V. Antoci, **R. Danac**, D. Diaconu, V. Mangalagiu, G. Zbancioc, C. Moldoveanu, I.I. Mangalagiu, AZAHETEROCYCLES: SYNTHESIS, STRUCTURE, APPLICATIONS, 7th Adriatic NMR Conference, Mali Ston, Croatia, June 1-4, 2023. (oral presentation), Book of Abstract, page 42.
 16. R. Ciorteanu, **R. Danac**, M.C. Sardaru, C.I. Ciobanu, I.I. Mangalagiu, Novel Phenstatin analogs with indolizinic structure: synthesis and their anticancer properties, IasiChem 5th Edition, Iasi, Romania, October 26-27, 2023. (Book of Abstract, page 34)(poster).
 17. V. Antoci, D. Amăriucăi-Mantu, D. Diaconu, **R. Danac**, C. Ciobanu, V. Mangalagiu, I. Mangalagiu, Novel hybrid azaheterocyclic compounds through click chemistry, IasiChem 5th Edition, Iasi, Romania, October 26-27, 2023.

- Book of Abstract, page 23 (poster).
18. R. Ciorteanu, M. Sardaru, C. Ciobanu, I. Mangalagiu, **R. Danac**, New mono and bisindolizines: syntheses and anticancer evaluation, INTERNATIONAL SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS, Ankara, Turkey, December 16-17, 2023 (oral online presentation).
Book of Abstract, page 752
 19. R. Ciorteanu, M. Sardaru, V. Antoci, I. I. Mangalagiu, **R. Danac**, Synthesis and anticancer profiling of new indolizine derivatives, 2nd INTERNATIONAL CONGRESS OF FOOD RESEARCHES (ICONFOOD'23), Sivas, Turkey, October 16-18, 2023 (oral online presentation)
Book of Abstract, page 894
 20. V. Mangalagiu, D. Amariuca-Mantu, V. Antoci, D. Diaconu, **R. Danac**, C. Moldoveanu, G. Zbancioc, I.I. Mangalagiu, Ecologically friendly methods used in heterocyclic chemistry, 7th International Conference Ecological and Environmental Chemistry 2022, March 3-4, 2022, Chisinau, Republic of Moldova. (Plenary lecture, PL, pag. 11). EEC-2022 Abstract Book, Ecological and environmental chemistry, Ediția 7, Vol.1, 2022, pag 52.
 21. R. Ciorteanu, **R. Danac**, C. Ciobanu, I.I. Mangalagiu, D. Amariuca-Mantu, Synthesis of new indolizinic derivatives as potential anticancer agents, International Scientific Research Congress-XII, Delhi, India, August 13-15, 2022 (oral online presentation)
Proceedings Book, ISBN 978-625-8323-42-9, pages 653-654.
 22. V. Antoci, D. Amariuca-Mantu, D. Diaconu, **R. Danac**, V. Mangalagiu, I. Mangalagiu, Novel benzo[f]quinoline compounds with vinyl chain: synthesis, characterization and anticancer evaluation, International Scientific Research Congress-XII, Delhi, India, August 13-15, 2022 (oral online presentation).
Proceedings Book, ISBN 978-625-8323-42-9, pages 656-657. R. Ciorteanu, **R. Danac**, V. Antoci, C. Ciobanu, I.I. Mangalagiu, Synthesis of 6, 7 and 8-substituted indolizines as potential anticancer agents, EGE International Congress on Natural & Medical Sciences, Izmir, Turkey, September 02-04, 2022 (oral online presentation).
Proceedings Book, ISBN 978-625-8213-61-4, pages 253-254
 23. R. Ciorteanu, **R. Danac**, C. Ciobanu, V. Antoci, I.I. Mangalagiu, Synthesis of New Fused Pyridines as Potential Anticancer Agents, the XXXVIth National Chemistry Conference, Calimanesti, Valcea, 4-7 October 2022. (oral presentation)
Book of Abstract, page 58.
 24. R. Ciorteanu, C.I. Ciobanu, I.I. Mangalagiu, **R. Danac**, Synthesis of New Indolizinic Derivatives as Potential Antitumor Agents, 7th International New York Conference on Evolving Trends in Interdisciplinary Research&Practices, Manhattan, New York City, October 1-3, 2022 (oral online presentation)
Proceedings Book, ISBN 978-1-955094-30-6, page 795
 25. R. Ciorteanu, C.I. Ciobanu, I.I. Mangalagiu, **R. Danac**, Synthesis and structural characterization of new indolizinic derivatives with potential anticancer properties, 2nd International Symposium on Characterization (ISC'22), Afyonkarahisar, Turkey, September 22-25, 2022 (oral online presentation).
Proceedings Book, page 120
 26. C.M. Al Matarneh, R.M. Amarandi, I. Mangalagiu, **R. Danac**, New Pyrrolo-Fused Heterocycles with Anticancer Properties, SIVAS International Conference on Scientific and Innovation Research, Sivas, Turkey, October 13-15, 2022 (oral online presentation).
Proceedings Book, ISBN 978-625-8246-21-6, page 97
 27. C.M. Al Matarneh, R.M. Amarandi, I. Mangalagiu, **R. Danac**, New Fused (Iso)quinoline Heterocycles as Potential Anticancer Agents, Ahi Evran 2nd International Conference on Scientific Research, Ahi Evran University, October 21-23, 2022 (oral online presentation).
Proceedings Book, ISBN 978-625-8246-37-7, page 807
 28. C.M. Al Matarneh, R.M. Amarandi, I. Mangalagiu, **R. Danac**, Synthesis and anticancer evaluation of new pyrrolo-fused cycloadducts, 7th Asia Pacific, International Modern Sciences Congress, Jakarta, Indonesia, November 4-5, 2022 (oral online presentation).

- Proceedings Book, ISBN 978-625-8246-59-9, page 628
29. D. Amăriucăi-Mantu, V. Antoci, D. Diaconu, R. Danac, C. Ciobanu, V. Mangalagiu, I. Mangalagiu, Anthracene-imidazolium/ benzimidazolium hybrid salts: synthesis, characterization and antimicrobial properties, 7th Asia Pacific, International Modern Sciences Congress, Jakarta, Indonesia, November 4-5, 2022 (oral online presentation). Proceedings Book, ISBN 978-625-8246-59-9, page 633
 30. R. Ciorteanu, C.I. Ciobanu, I.I. Mangalagiu, **R. Danac**, Synthesis and of new fused heterocycles as potential anticancer agents, Sesiunea de comunicari stiintifice a studentilor, masteranzilor si doctoranzilor "Chimia –Frontiera deschisa spre cunoastere", Editia a XIII-a, Iasi, Romania, October 28, 2022. (Book of Abstract, pages 6-7).
 31. V. Antoci, D. Amăriucăi-Mantu, D. Diaconu, L. Oniciuc, **R. Danac**, C. Ciobanu, V. Mangalagiu, I. Mangalagiu, Anticancer Activity of New Hybrid Derivatives with Benzo[f]quinoline Skeleton, *CUKUROVA 9th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE*, Adana, Turcia, October 9-11, 2022 (oral online presentation). (Proceedings Book, page 148)
 32. Ionel I. Mangalagiu, Dorina Amariuca-Mantu, Vasilichia Antoci, **Ramona Danac**, Violeta Mangalagiu, Costel Moldoveanu, Gheorghita Zbancioc. Hybrid five- and six-member ring azaheterocycles: synthesis and applications. *Progress in Organic and Macromolecular Compounds 28-th Ed.*, Iasi, Romania, October 7-9, 2021. (Plenary lecture, PL, pag. 25-26). Book of Abstracts / editors: Marcela MIHAI, Radu-Dan RUSU. ISSN 2810 – 2347 ISSN – L 2810 – 2126.
 33. Vasilichia Antoci, Gheorghita Zbancioc, Liliana Oniciuc, Dorina Amăriucăi-Mantu, Costel Moldoveanu, **Ramona Dănac**, Cătălina Ciobanu, Violeta Mangalagiu, *Mangalagiu, I.I. BENZO[F]QUINOLINIUM SALTS: ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES, New frontiers in natural product chemistry*, June 4-5, 2021, Chişinău, Moldova. (Poster presentation, pag. 21). Book of Abstracts / editors: Aculina Arîcu, Veaceslav Kulciţki; Editura: Institute of Chemistry;
 34. Roxana-Maria Amărandi, Maria-Cristina Al-Matarneh, Lacramioara Popovici, *Mangalagiu, I.I.*, Vasilichia Bejan, Catalina-Ionica Ciobanu, **Ramona Danac**. Pyrrolo-fused Heterocyclic Derivatives: Design, Synthesis and Anticancer Evaluation, *New frontiers in natural product chemistry*, June 4-5, 2021, Chişinău, Moldova. (Poster presentation, pag. 24). Book of Abstracts / editors: Aculina Arîcu, Veaceslav Kulciţki; Editura: Institute of Chemistry; ISBN 978-9975-3336-7-2 (PDF). DOI: 10.19261/nfnpc.2021
 35. Mangalagiu, I.; Antoci, V.; Amariuca-Mantu, D.; Mangalagiu, V.; **Danac, R.**; Moldoveanu, C.; Zbancioc, G.: Azaheterocycles of five and six member ring. Chemistry and applications, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor Chimia – Frontiera deschisa spre cunoastere, 29-30 October 2020, Iasi, Romania, (Conferinta plenara).
 36. Mangalagiu, V.; Cucu, D.; Zbancioc, G.; Moldoveanu, C.; **Danac R.**; Mangalagiu, I.I.: Synthesis, structure and biological activity of new azine derivatives, 7th International Conference on Computational and Experimental Science and Engineering (ICCESN-2020), 21-25 October 2020, ANTALYA-TURKEY, Poster - Abstract No. 157.
 37. Mangalagiu, I.I.; Mangalagiu, V.; Moldoveanu, C.; Zbancioc, Ghe.; **Danac, R.**; Antoci, V. Huisgen 3+2 dipolar cycloaddition, an efficient and a straightforward way to azaheterocycles of potential practical applications. *Journal of Organic & Inorganic Chemistry*, volume 6, pag. 03, 2020. ISSN: 2472-1123. DOI: 10.36648/2472-1123.6.3.4 Organic Chemistry Congress 2020, 3rd International Conference on Organic Chemistry, July 23, 2020, pp.03
 38. Mangalagiu, I.I.; Diaconu, D.; Amariuca-Mantu, D.; Moldoveanu, C.; Zbancioc, Ghe.; **Danac, R.**; Antoci, V.; Mangalagiu, V. New achievements in medicinal chemistry of (di)azole and (di)azine. *Journal of Organic & Inorganic Chemistry*, volume 6, pag. 04,

- 2020.** ISSN: 2472-1123. DOI: 10.36648/2472-1123.6.3.5 Organic Chemistry Congress 2020, 3rd International Conference on Organic Chemistry, July 23,2020, pp.04
39. Mangalagiu, V.; Mangalagiu, I.I.; Moldoveanu, C.; Zbancioc, Ghe.; **Danac, R.** Design, synthesis, structure and biological activity of some fused (di)-azine, *Journal of Organic & Inorganic Chemistry*, volume 6, pag. 05, **2020.** ISSN: 2472-1123. DOI: 10.36648/2472-1123.6.3.6 Organic Chemistry Congress 2020, 3rd International Conference on Organic Chemistry, July 23, 2020, pp.05
 40. R.-M. Pomohaci, C.-M. Al-Matarneh, **R. Danac**, Investigarea determinantilor moleculari ai activității antitumorale pentru noi compuși chinolinici și izochinolinici, Conferintele Institutului Regional de Oncologie Iasi, Confer 2020, 19-22 Noiembrie, Iasi, Romania (prezentare orală).
 41. M.-C. Al-Matarneh, **R. Danac**, R.M. Amarandi, I.I. Mangalagiu, Synthesis and anticancer evaluation of new cyano substituted pyrrolo(iso)quinoline derivatives, Euroasia Congress on Scientific Researches and Recent Trends –VII, 6-8 December, Baku, Azerbaidjian (poster).
 42. M.-C. Al-Matarneh, **R. Danac**, R.M. Amarandi, I.I. Mangalagiu, Novel cyano substituted pyrroloquinoline and pyrroloisoquinoline compounds as potential anticancer agents, 7th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2020), 21-25 October **2020**, Antalya, Turkey, Oral presentation - Abstract No. 151.
 43. **R. Danac**, M.-C. Al-Matarneh, R.M. Amarandi, I.I. Mangalagiu, Design, synthesis, anticancer evaluation and docking of new pyrrolo-fused heterocycles, 7th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2020), 21-25 October **2020**, Antalya, Turkey, Oral presentation - Abstract No. 152
 44. **R. Danac**, M. Sardaru, A. Olaru, C. Al Matarneh, I. I. Mangalagiu, *Synthesis and anticancer evaluation of new fused pyrrolo-heterocyclic compounds*, 2nd Middle East Pharmacy and Pharmaceutical Conference, 9-10 December 2019, Dubai, Emiratale Arabe Unite (Poster presentation) <https://pharma.pharmaceuticalconferences.com/scientific-program>
 45. V. Antoci, D. Amariuca-Mantu, V. Mangalagiu, **R. Danac**, I.I. Mangalagiu, *Design, synthesis, and anticancer evaluation of fused 1,2-diazine derivatives*, 2nd Molecules Medicinal Chemistry Symposium (MMCS2019), 15 – 17 May 2019, Barcelona, Spain. P14, pag. 159 (Poster presentation).
 46. I.I. Mangalagiu, D. Amariuca-Mantu, V. Antoci, G. Zbancioc, C. Moldoveanu, D. Cucu, **R. Danac**, V. Mangalagiu, *Process for obtaining a novel class of anthracene-imidazole compounds with antituberculosis activity*, The 23rd International Exhibition of Inventions - “INVENTICA 2019”, June 26-28, 2019. Iași, România. P130, pag. 167 (Poster presentation. ISBN 1844-7880 www.ini.tuiasi.ro
 47. V. Antoci, D. Amariuca-Mantu, V. Mangalagiu, **R. Danac**, I.I. Mangalagiu, C. Moldoveanu, G. Zbancioc, I.I. Mangalagiu, Monoheteroatomic azaheterocycles: medicinal chemistry applications, International Conference Achievements and perspectives of modern chemistry, October 9-11, 2019, Chisinau, Republica Moldova.
 48. M.C. Sardaru, **R. Danac**, I. Mangalagiu, C.I. Ciobanu, *Synthesis and anticancer evaluation of new indolizines derivatives*, Sesiunea de comunicari stiintifice a studentilor, masteranzilor si doctoranzilor “Chimia –Frontiera deschisa spre cunoastere”, Editia a X-a, June 20-21, 2019.
 49. V. Antoci, D. Amariuca-Mantu, V. Mangalagiu, **R. Danac**, C. Moldoveanu, G. Zbancioc, I.I. Mangalagiu, *Five and six member ring nitrogen heterocyclic: chemistry and practical applications*, IasiChem 3rd Edition, 2019, 31st October-01st November 2019, Iasi, Romania (oral communication)
 50. C.-S. Ion, **R. Danac**, M.-D. Barboiu, *Ionic channels involved in biomimetic processes*, IasiChem 3rd Edition, 2019, 31st October-01st November 2019, Iasi, Romania (poster)

51. C. Jegu, M. Sardaru, C. Ciobanu, **R. Danac**, *Synthesis of new 1,2,4-triazole based derivatives*, IasiChem 3rd Edition, 2019, 31st October-01st November 2019, Iasi, Romania (poster)
52. M.-C. Sardaru, **R. Danac**, C. Ciobanu, I.I. Mangalagiu, *Synthesis, structure and properties of new bisindolizine derivatives*, IasiChem 3rd Edition, 2019, 31st October-01st November 2019, Iasi, Romania (poster)
53. M.C. Sardaru, I.I. Mangalagiu, **R. Danac**, V. Mangalagiu, *Synthesis of new aza-heterocyclic compounds designed as quadruplex DNA ligands and their anticancer activity*, IasiChem 2018 Chemistry Conference, Iasi, 25-26 October 2018.
54. C. Gherasim, A. Airinei, R. Tigoianu, A. Craciun, **R. Danac**, D.L. Isac, *Photophysical properties of some isoquinoline derivatives*, IasiChem 2018 Chemistry Conference, Iasi, 25-26 October 2018.
55. C.M. Al Matarneh, **R. Danac**, M.O. Apostu, I.I. Mangalagiu, *Synthesis and structure of new pyrrolo[1,2-a]quinoline and pyrrolo[2,1-a]isoquinoline derivatives*, IasiChem 2018 Chemistry Conference, Iasi, 25-26 October 2018.
56. M.C. Sardaru, M. Sobaru, C. Ciobanu, **R. Danac**, *Synthesis and structure of new 7,7'-(ethene-1,2-diyl)bisindolizine derivatives*, 35th Romanian Chemistry Conference, Caciulata, 3-5 October 2018.
57. L. Popovici, R. Amarandi, A.M. Craciun, I.I. Mangalagiu, **R. Danac**, *Synthesis, molecular modelling and anticancer evaluation of new pyrrolo[1,2-b]pyridazine and pyrrolo[2,1-a]phthalazine based derivatives*, 35-th Romanian Chemistry Conference, Caciulata, 3-5 October 2018.
58. A.M. Craciun, M. Pinteala, **R. Danac**, I.I. Mangalagiu, *The in vitro release of a drug with anticancer activity from xerogels based on chitosan*, 35-th Romanian Chemistry Conference, Caciulata, 3-5 October 2018.
59. A.M. Olaru, A. Rotaru, I.I. Mangalagiu, **R. Danac**, *Synthesis and anticancer evaluation of new 2,9-disubstituted-1,10-phenanthroline derivatives with potential G-quadruplex-DNA stabilization properties*, 22nd IUPAC International Conference on Organic Synthesis (22-ICOS), Florence, 15-21 September 2018.
60. C.M. Al-Matarneh, L. Popovici, **R. Danac**, I.I. Mangalagiu, *New pyrrolo-fused heterocycles: synthesis and biological evaluation*, 22nd IUPAC International Conference on Organic Synthesis (22-ICOS), Florence, 15-21 September 2018.
61. M.C. Sardaru, I.I. Mangalagiu, **R. Danac**, C.I. Ciobanu, *Pyrrolo-fused heterocyclic compounds designed as quadruplex DNA ligands: synthesis and anticancer evaluation*, 22nd IUPAC International Conference on Organic Synthesis (22-ICOS), Florence, 15-21 September 2018.
62. M.C. Sardaru, I.I. Mangalagiu, **R. Danac**, C.I. Ciobanu, M.O. Apostu, *Synthesis and anticancer evaluation of new tetrazoles derivatives*, Chemistry Conference for Young Scientists ChemCys, Blankenberge 21-23 February 2018.
63. **R. Danac**, L. Popovici, I.I. Mangalagiu, *Synthesis and anticancer evaluation of new heterocyclic compounds designed as Phenstatin analogues*, 4th European Organic Chemistry Congress, London 01-03 March 2018.
64. I.I. Mangalagiu, D. Mantu, A. Amariuca, V. Mangalagiu, **R. Danac**, C. Moldoveanu, G. Zbancioc, *Azine, diazine and diazols: Chemistry and applications*, 4th European Organic Chemistry Congress, London 01-03 March 2018.
65. D. Mantu, S. Cojean, V. Vasilache, **R. Danac**, C. Moldoveanu, G. Zbancioc, P. M. Loiseau, I.I. Mangalagiu, *Azaheterocycles Derivatives with Antimycobacterial, Antileishmanial and*

Anticancer Activity, 4^{eme} Colloque Franco-Roumaine de Chimie Medicinale, Iasi, 05-07 Octobre 2017.

66. L. Popovici, I.I. Mangalagiu, **R. Danac**, *Synthesis and anticancer evaluation of new azaindolizines*, 4^{eme} Colloque Franco-Roumaine de Chimie Medicinale, Iasi, 05-07 Octobre 2017.
67. A.M. Olaru, **R. Danac**, I.I. Mangalagiu, *Synthesis and antimycobacterial activity of some new monoindolizine mono-salt based on 4,4'-bipyridine skeleton*, 4^{eme} Colloque Franco-Roumaine de Chimie Medicinale, Iasi, 05-07 Octobre 2017.
68. A.M. Olaru, I. Mangalagiu, **R. Danac**, *Synthesis and anticancer activity of some new monoindolizine mono-salt based on 4,4'-bipyridine skeleton*, IasiChem 2017 Chemistry Conference, Iasi, 26-28 October 2017.
69. M.C. Sardaru, G. Pricope, C. Cojocaru, **R. Danac**, I. Mangalagiu, A. Rotaru, *Novel pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles*, IasiChem 2017 Chemistry Conference, Iasi, 26-28 October 2017.
70. L. Popovici, **R. Danac**, I. Mangalagiu, *Synthesis and anticancer evaluation of new pyrrolo-heterocyclic compounds*, IasiChem 2017 Chemistry Conference, Iasi, 26-28 October 2017.
71. **R. Danac**, L. Leontie, A. Carlescu, C. Doroftei, G.G. Rusu, V. Tiron, O. Susu, S. Gurlui, M. Girtan, *Synthesis and electric properties of some new lower-rim substituted calixarenes derivatives in thin films*, the 16th International Conference on Global Research and Education, September 25-28, 2017, Iasi, Romania.
72. A. Olaru, **R. Danac**, I. Mangalagiu, C. I. Ciobanu, *Synthesis and antimycobacterial evaluation of new indolizine derivatives*, Scientific Conference with International Participation of PhD Students, ``Contemporary trends of science development: vision of young researchers``, Chisinau, 25 Mai 2016.
73. A. Olaru, **R. Danac**, I.I. Mangalagiu, C.I. Ciobanu, *Synthesis and antimycobacterial properties of some new fused 4,4'-bipyridine derivatives*, the XXXIVth National Chemistry Conference, Calimanesti, Valcea, 4-7 October 2016 (oral communication).
74. A. Olaru, C. I. Ciobanu, I. Mangalagiu, **R. Danac**, *New 4,4'-bipyridine derivatives: synthesis and antimycobacterial activity*, Faculty of Chemistry Conference „University Days” Iasi, 27-28 October 2016.
75. L. Popovici, N.L. Marangoci, **R. Danac**, C. Cojocaru, I. Mangalagiu, A. Rotaru, *Pyridyl-indolizine derivatives as DNA binders and pH-sensible fluorescent dyes*, Faculty of Chemistry Conference „University Days” Iasi, October 2016.
76. M. C. Sardaru, **R. Danac**, C. I. Ciobanu, M. O. Apostu, *Synthesis, structure and evaluation of potential anticancer activity of new tetrazoles derivatives*, Faculty of Chemistry Conference „University Days” Iasi, 27-28 October 2016.
77. C. M. Al-Matarneh, **R. Danac**, M. O. Apostu, I. I. Mangalagiu, *Reactions of ethyl cyanoformate with cycloimmonium salts and their ylides: a direct pathway to fused or substituted azaheterocycles*, the XXXIVth National Chemistry Conference, Calimanesti, Valcea, 4-7 October 2016.
78. C. M. Al-Matarneh, **R. Danac**, M. O. Apostu, I. I. Mangalagiu, *Interesting behaviour of 2-amino-2-oxoethyl phenanthroline ylides in 3+2 cycloaddition to activated alkynes and alkenes*, Faculty of Chemistry Conference „University Days” Iasi, 27-28 October 2016.
79. L. Popovici, **R. Danac**, I. I. Mangalagiu, *Synthesis of New Fluorescent Indolizine Derivatives Bearing 1,2,3-Triazoles with Potential Sensor Applications*, XVIII-th

Conference "Physical Methods in Coordination and Supramolecular Chemistry", October 8-9, 2015, Chişinău, Republic Moldova.

80. M. C. Al-Matarneh, **R. Danac**, M. O. Apostu, I.I. Mangalagiu, Synthesis and structure of new pyrrolo[1,2-a][1,10]phenanthroline derivatives and α -monosubstituted 1,10-phenanthrolines, 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), 2-5 September 2015, Sibiu, Romania.
81. A. Olaru, **R. Danac**, I. I. Mangalagiu, Synthesis of new 1,10-phenanthroline derivatives bearing 1,2,3-triazoles and their anticancer evaluation, "13th International Congress of Young Chemists", 07-11.10.2015, Cracow, Poland.
82. A. Olaru, **R. Danac**, A. Pui, I. I. Mangalagiu, Synthesis of new 1,10-phenanthroline derivatives and their chelating properties, International Conference of Young Researchers "New trends in Environmental and Materials Engineering", 21-23 October 2015, Galati, Romania.
83. M. C. Al-Matarneh, **R. Danac**, M. O. Apostu, I. I. Mangalagiu, Synthesis, structure and anticancer evaluation of new γ -cyano-substituted phenanthrolines, Faculty of Chemistry Conference „University Days” Iasi, 29-31 October 2015.
84. L. Popovici, I. I. Mangalagiu, **R. Danac**, Synthesis and anticancer evaluation of new (aza)indolizines, Faculty of Chemistry Conference „University Days” Iasi, 29-31 October 2015.
85. A. Olaru, C. Filip, M. Apostu, **R. Danac**, Synthesis and structure of new compounds with 1,10-phenanthroline and 2,2'-bipyridine skeletons, Faculty of Chemistry Conference, „University Days” Iasi, 30 October-1 November 2014.
86. C. Al Matarneh, **R. Danac**, L. Leontie, F. Tudorache, I. Petrila, I. Mangalagiu, Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films, 2nd International Conference on Chemical Engineering-ICCE 2014, Iasi, 5-8 November 2014.
87. M. C. Al-Matarneh, A. Chirciu, M. Apostu, **R. Danac**, Synthesis and structure of new 1,10-phenanthroline derivatives, Faculty of Chemistry Conference, „University Days” Iasi, 30 October-1 November 2014.
88. M.C. Al-Matarneh, **R. Danac**, I. Mangalagiu, Synthesis and antimycobacterial properties of new derivatives of 1,7-phenanthroline, 3rd French-Romanian Colloquium on Medicinal Chemistry, Iasi, 30-31 October 2014. (comunicare orală)
89. M. C. Al-Matarneh, I. Mangalagiu, **R. Danac**, Synthesis and structure of new fused polycyclic indolizines, XXXIII Chemistry National Conference, Calimanesti, Valcea, 1-3 October 2014.
90. L. Leontie, C. Doroftei, C. Al Matarneh, **R. Danac**, E. Luchian, Electron transport properties of new pyrrolo [1,2-i][1,7]-phenanthroline derivatives in thin films, MSCMP 2014 - 7th International Conference on Materials Science and Condensed Matter Physics, Chisinau, 16-19 September 2014.
91. C. Al Matarneh, **R. Danac**, L. Leontie, C. Doroftei, I. Mangalagiu, Synthesis and electron transport properties of new pyrrolo [1,2-i][1,7]-phenanthroline derivatives in thin films, 8^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA), Montpellier, France, 15-17 September 2014.
92. M.C. Al-Matarneh, **R. Danac**, I. Mangalagiu, Synthesis and properties of new pyrrolo[1,2-i][1,7]phenanthroline derivatives, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, 5th Edition, Iasi, 27 June 2014.
93. C. Al Matarneh, **R. Danac**, L. Leontie, F. Tudorache I. Petrila, I. Mangalagiu, Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films, International Conference "Chimia 2014", Constanta, Mai 2014.
94. R. M. Amarandi, C. L. Maniu, **R. Danac**, A. Pui, Substrate preference of serotonin receptors through in silico docking experiments, Scientific Conference „University Days”, October 31-November 2, 2013, Iasi, Romania.

95. M.C. Al-Matarneh, T. Daniloaia, **R. Danac**, Synthesis of new pyrrolo[1,2-i][1,7] phenanthroline derivatives , Scientific Conference „University Days”, October 31-November 2, 2013, Iasi, Romania.
96. **R. Danac**, I. Mangalagiu, Antituberculosis Activity of New Indolizinylpyridinium Quaternary Salts, EURO Invent (European Exhibition of Creativity and Innovation), 9-11 May 2013, Iasi, Romania
97. R. Postolachi, A. Pui, **R. Danac**, N. Niklaas, J. Buurma, Complexation of 4-(4'-pyridyl)pyridinium disubstituted monoylides with palladium (II), Scientific Conference „University Days”, October 25-26, 2012, Iasi, Romania.
98. R. Postolachi, A. Pui, **R. Danac**, C. Rimbu, G. Drochioiu, Biological activity for some palladium (II) complexes, 2ème Colloque Franco-Roumain de Chimie Médicinale, 03-05 October 2012, Iasi, Romania. (poster)
99. L. Leontie, **R. Danac**, M. Girtan, M. Prelipceanu, A. Graur, A. Carlescu, G. I. Rusu, Newly synthesized stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films with semiconductor properties, 9th International Conference on Physics of Advanced Materials, ICPAM-9, 20-23 September 2012, Iasi, Romania; (Topic 11: Thin Films and Nanostructures for Modern Electronics, work P1, Abstract Book p. 133 (poster)).
100. R. Postolachi, A. Pui, **R. Danac**, N. Niklaas, J. Buurma, New Palladium(II) Complexes with N- Ylide Ligands, International Conference: Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania.
101. **R. Danac**, R. Rusu, A. Carlescu, A. Pui, L. Leontie, Synthesis and properties of some new lower rim modified 4-*tert*-butylcalix[4]arenes, Scientific Conference „University Days”, October 28, 2011, Iasi, Romania (P19).
102. **R. Danac**, L. Leontie, R. Rusu, A. Carlescu, Synthesis and electron transport properties of some new 4-*tert*-butylcalix[4]arene derivatives, Twelfth Tetrahedron Symposium (Challenges in Organic and Bioorganic Chemistry), 21-24 June 2011, Sitges, Spain (Book of Abstracts, P1.073).
103. **R. Danac**, R. Rusu, A. Carlescu, A. Pui, L. Leontie, Synthesis and properties of some new lower rim modified 4-*tert*-butylcalix[4]arenes, 11th International Conference on Calixarenes, 26-29 June 2011, Tarragona, Spain (Book of Abstracts, P15, p.99).
104. **R. Danac**, R. Postolachi, A. Pui, New N-ylides and Their Metal Complexes as Potential Inhibitors for Glutamate Racemase, XIVth Conference on Heterocycles in Bioorganic Chemistry, September 4-8, 2011, Brno, Czech Republic (Book of Abstracts, P6).
105. **R. Danac**, A. Luca, R. Rusu, R. Gradinaru, Fluorescent conjugates: pH stability, dye-DNA interaction and biological activity, A XXXI-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE, Ramnicu Valcea, 06-08 octombrie 2010
106. **R. Danac**, A. Luca, R. Rusu, Synthesis and characterization of new *tert*-butylcalix[4]arene derivatives, Chemical Engineering Faculty Days, VIIth Edition, November 17-19, 2010, Iasi, Romania. (P-S1-16)
107. **R. Danac**, D. Gherca, R. Gradinaru, A. Pui, Cobalt and Copper coordination complexes of some new *tert*-butylcalix[4]arene derivatives, Chemical Engineering Faculty Days, VIIth Edition, November 17-19, 2010, Iasi, Romania. (P-S1-17)
108. A. Luca, R. Gradinaru, M. Mihasan, **R. Danac**, Fluorescent conjugates: pH stability, dye-DNA interaction and biological activity, Scientific Conference „University Days”, October 30-31, 2009, Iasi, Romania.
109. M. Dumitras, N. Apostolescu, A. Luca, **R. Danac**, Thermal degradation of some new 7-(4'-pyridyl)-indolizine derivatives, Scientific Conference „University Days”, October 30-31, 2009, Iasi, Romania.
110. G. Drochioiu, S. Jurcoane, M. Murariu, **R. Danac**, R. Gradinaru, Biodegradation of some dinitrophenyl derivatives used as herbicides and metabolic inhibitors, 4th European Bioremediation Conference, September 3-6, 2008, Chania, Crete, Greece, (Book of Abstracts, p. 15).

111. L. Leontie, **R. Danac**, I. Druta, G.I. Rusu, Electronic transport properties of 1-(p-R-phenacyl)-4-[[1'-ethylcarboxylate)-(3'-p-R'-phenacyl)]-7'-indoliziny]pyridinium bromides in thin films, E-MRS Spring Meeting, May 29-June 2, 2006, Nice, France (Book of Abstracts, p.41).
112. M. Prelipceanu, L. Leontie, **R. Danac**, O.S. Prelipceanu, Organic Light-Emitting Devices Based on New Pyrrolo[1,2-a][1,10]Phenanthroline Derivatives and Poly(p-Phenylenevinylene), Romanian Conference on Advanced Materials, September 11-14, 2006, Bucharest-Magurele, Romania, (Abstract Book, p. 68).
113. **R. Danac**, T. Muller, L. Ball, S. Gurr, A.J. Fairbanks, Synthesis of Chain Terminating Carbohydrates as Potential Inhibitors of Chitin Biosynthesis, XXIIIrd International Carbohydrate Symposium, July 23-28, 2006, Whistler, Canada (Abstract Book, p.151).
114. L. Leontie, **R. Danac**, Optical properties of N-(p-R-phenacyl)-1,10-phenanthroline bromides in thin films, International Conference on Fundamental and Applied Research in Physics FARPhys-2005, October 24-29 2005, Iasi, Romania.
115. L. Leontie, **R. Danac**, I. Druta, V. Pohoata, Electrical properties of some new pyridinium monoquaternary salts derivatives in thin films, International Conference on Fundamental and Applied Research in Physics FARPhys-2005, October 24-29 2005, Iasi, Romania.
116. **R. Danac**, T. Daniloaia, M. Ungureanu, A. Rotaru, I. Druta, Synthesis of new 1,7-phenanthroline and 4,5-diazofluoren-9-one derivatives and their *in vitro* antibacterial and antifungal activities, The 12th Session of Scientific Communications of Institute de Macromolecular Chemistry „Petru Poni” Iasi, October 6-8, 2005, Iasi, Romania, (Abstract Book, p.25).
117. A. Rotaru, **R. Danac**, I. Druta, A. Vlahovici, Synthesis of fluorescent biindolizines with possible applications in environmental analyses, EnvEdu 2005-Trends in Environmental Education, 8-10 September 2005, Brasov, Romania, (Abstract Book p.76).
118. **R. Danac**, L. Leontie, M. Irimia, I. Druta, Synthesis of new 1,10-phenanthroline derivatives and their electrical properties, SFC Eurochem Nancy-2005, August 28-September 1, 2005, Nancy, France.
119. L. Leontie, I. Druta, **R. Danac**, G.I. Rusu, Electrical properties of some new high resistivity organic semiconductors in thin films, E-MRS Spring Meeting May 31-June 3, 2005, Strasbourg, France.
120. M. Irimia, **R. Danac**, G. Carja, N. Aelenei, I. Druta, The Acido-Basic Behaviour of Some Biquaternary Salts of 4,4'-Bipyridine, Scientific Conference „University Days”, 29-30 October 2004, Iasi, Romania
121. **R. Danac**, G. Lisa, M. Irimia, N. Hurduc, I. Druta – The Thermal Behavior and Characterization of Some 1,10-Phenanthroline Salts and Corresponding Ylides, Scientific Conference „University Days”, 29-30 October 2004, Iasi, Romania
122. L. Leontie, **R. Danac**, I. Druta, G.I. Rusu – Electronic Transport Properties of Pyrrolo[1,2-a][1,10]Phenanthroline Derivatives, in Thin Films, The 5th International Balkan Workshop of Applied Physics, 5-7 July 2004, Constanta, Romania
123. **R. Danac**, A. Rotaru, G. Drochioiu, A. Pui, I. Druta – Synthesis and Characterization of Novel Derivatives of 4,5-Diazafluoren-9-one, The 1st International Conference of The Moldavian Chemical Society, 6-8 October 2003, Chisinau, Rep.Moldova. (Abstracts of Communications, paper PP 097, p. 163).
124. L. Leontie, I. Druta, **R. Danac**, G.I. Rusu – On the DC Conduction Mechanism of New Synthesized Organic Salts in Thin Films, 1st Nanoforum Workshop Nanomaterials and Applications, 5-7 October 2003, Sinaia, Romania.
125. L. Leontie, I. Druta, **R. Alupoae**, G. I. Rusu, C. Podaru – On the DC Conduction Mechanism in Some New High Resistivity Organic Salts in Thin Films, The Fourth International Edition of Romanian Conference on Advanced Materials: ROCAM 2003, 15-

- 18 Septembrie 2003, Constanta, Romania. (Abstract Book (Ed. Bucharest Univ.), poster PO 1S050).
126. L. Leontie, M. Caraman, **R. Alupoae**, G. I. Rusu – Optical properties of a new organic semiconductor N-(p-R-phenacyl)-1,10-phenanthroline bromides, Fifth General Conference of the Balkan Physical Union, 25-29 august 2003, Vrnjacka Banja, Serbia and Montenegro; paper SP06 – 069, (Abstract Book, p. 141);
 127. M. Irimia, I. Druta, M. Aelenei, G. Lisa, **R. Danac** – Synthesis and Physico-Chemical Characterization of Some 4,4'-Bipyridyl Derivatives, The 3rd Conference of Faculty of Chemical Industry, Iasi 13-15 November, 2002;
 128. L. Leontie, **R. Alupoae**, G. I. Rusu – On the mechanism of electrical conduction in some new synthesized organic salts in thin films, E-MRS Spring Meeting 10th – 13th June, 2003, Strasbourg, France;
 129. T. L. Timofte, **R. Danac**, I. Ardeleanu, G. Drochioiu – Selective and Sensitive Methods for Cyanide Determination, Scientific Conference „University Days”, 1-2 November 2002, Iasi, Romania
 130. **R. Danac**, Al. Rotaru, I. Druta – Synthesis of New 1,10-Phenanthroline Derivatives by 3+2 Dipolar Cycloaddition, Scientific Conference „University Days”, 1-2 November 2002, Iasi, Romania
 131. **R. Danac**, M. Ungureanu, A. Rotaru, G. Drochioiu, I. Druta – Activité antimicrobienne et antifongique *in vitro* de nouveaux dérivés de la 1,10-phenanthroline, Deuxième Colloque Franco-Roumain de Chimie Appliquée, 10-12 Octobre 2002, Bacau, Roumanie;
 132. G. Drochioiu, I. Mangalagiu, **R. Danac**, A. Rotaru, I. Druta – Une nouvelle réaction de la ninydrine utilisée pour le dosage des traces de cyanure dans l'environnement, Deuxième Colloque Franco-Roumain de Chimie Appliquée, 10-12 Octobre 2002, Bacau, Roumanie;
 133. **R. Danac**, M. Rusu, I. Salaoru, I. Druta, G. Rusu – On the Electrical Conductivity of Some New Organic Semiconductors in Thin Films, National Physics Conference, Iasi, 18-20 October 2001.

Lista cartilor publicate:

1. **Ramona Danac**, Mihaela Roman, Problems of Organic Structural Analysis, Sedcomlibris, Iasi, 2006. (ISBN: 973-670-156-5).
2. Ionel Mangalagiu, **Ramona Danac**, Costel Moldoveanu, Gheorghita Zbancioc, Judiciary Chemistry and Toxicology. Judiciary Separatology, „AIT –SRL Laboratory” Ed., Bucuresti **2011**. (217 pag.) (ISBN: 978-606-8363-09-7x2).
3. Roxana-Maria Amarandi, Maria Cristina Al-Matarneh, **Ramona Danac**, Alcaloizi indolici naturali, Editura Universitatii „Alexandru Ioan Cuza” Iasi, **2017** (172 pag.) (ISBN: 978-606-714-401-7).
4. **Ramona Danac**, Dorina Amariuca-Mantu, Vasilichia Antoci, Gheorghita Zbancioc, Violeta Mangalagiu, Ionel I. Mangalagiu, Microwave assisted reactions for synthesis of bioactive azaheterocycles:, capitol de carte in: *Current Advances in Chemistry and Biochemistry*, vol. 3, Book Publisher International, **2021**, 17-50. (ISSN: 978-93-90768-91-2 (eBook))
5. D. Amariuca-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, I. Mangalagiu, **R. Danac***, Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, in *Heterocyclic Anticancer Agents*, Ed. Bimal Krishna Banik and Bubun Banerjee, De Gruyter, Berlin/Boston, **2022**, 185-247. (ISBN: 978-3-11-073926-8).

Proiecte de cercetare nationale:

1. Research team member: PN-III-P4-ID-PCE-2020-0371, Contract de finanțare nr. PCE 115 din 11/02/2021, <https://teclu.chem.uaic.ro/antimheteco/reports/2021-report/>, Towards the development of next generation of antimicrobials agents with hybrid azaheterocycle skeleton using eco-friendly methods, ANTIM-HET-ECO, Director de Proiect: Prof. dr. Ionel MANGALAGIU (Membri implicați în proiect: Simona Cristina Dunca, Gheorghiță Zbancioc, Violeta Mangalagiu, Vasilichia Antoci, Ramona Danac, Dorina Amăriucăi-Mantu, **Dumitrelea Diaconu**, Cristina Ion, Roxana Ciorteanu,). Valoare proiect anul 2021: 597737,00 Lei.
2. Project manager for PNII, MEC-CNCSIS code: IDEI_2023/2008-2011, Project title: Synthesis of new substituted calixarenes containing bipyridines and phenanthrolines derivatives and their properties and potential applications. (grant value: 100000EUR)
3. Research team member for PN-II-Idei, MEC-CNCSIS code: IDEI_2095/2008-2011, Project title: Intramolecular interactions in pseudogeminal substituted [2.2]-paracyclophanes, Project manager: conf.dr. Lucian Birsă.
4. Research team member for PN-II-Idei, MEC-CNCSIS code: IDEI_2643/2008-2011, Project title: Synthesis and potential applications of new phenotiazine derivatives, Project manager: lect.dr. Dalila Belei.
5. Research team member: Microbiological Membranes and Biocompatible Synthetic Polymers with Potential Applications to Grant PPNII CNMP 4300/2008, CONTRACT 32-173/2008, M MEMBRANES AND BIOCOMPATIBLE SYNTHETIC POLYMERS WITH POTENTIAL APPLICATIONS TO RELEASING HEAVY AND RADIOACTIVE METALS FROM THE ENVIRONMENT. PROJECT MANAGER: PROF DR. GABI DROCHIOIU.
6. Project manager for Grant TD no. 3 CNCSIS 172 (2005-2006) Project title: Synthesis of New Phenanthroline and Bipyridine Derivatives and Their Biological, Electrical and Optical Properties (grant value: 20000 RON).
7. Research team member: Grant A, CNCSIS 97/2003-2004 Project title: "Cyanide type waste products: characterization, detection, decontamination and their impact to the biostructure of living organisms"-project manager: dr. Gabi Drochioiu.
8. Research team member: Grant A, CNCSIS 566/2002-2003 Project title: "Cyanide type waste products: characterization, detection, decontamination and their impact to the biostructure of living organisms"-project manager: dr. Gabi Drochioiu.
9. Research team member: Grant CNCSIS 154, 1999-2002 "Researches in the indolizines and azaindolizines field. Synthesis, structure, properties, biological activity" –project manager: dr. Ioan Druta.

Proiecte de cercetare internationale:

1. PI for Intra-european Marie Curie Fellowship, contract MEIF-CT-2005-022646, 2005-2007 – "New Inhibitors of Bacterial and Fungal Cell Wall Biosynthesis", Oxford University, UK (grant value: 229000 euro)
2. Research team member: Grant bilateral Romania – Moldova, grant nr. 31BM/15.09.2016, 2016-2017, Titlu: Sinteza dirijată și studiul unor complexe chirali conținând liganzi terpeno-heterociclici, Finantator: Guvernul Moldovei și Guvernul României (ANCS, PN-II, Modul III), Directori: conf.dr. Costel Moldoveanu, România/ CP I.dr. Aculina Aracu, Academy of Science of Rep. Moldova (Valoare 2016: 15.000 Lei, Valoare 2017: 15.000 Lei).
3. Research team member: Grant bilateral Romania – Moldova, grant nr. 682/2013, perioada: 2013-2014. Project title: Synthesis of new biological active compounds with terpenic structural units, Funded by UEFISCDI, Ministry of Education in Romania and Government

of Moldova, Directori de proiect: Conf. dr. Gheorghiță ZBANCIOC Universitatea Alexandru Ioan Cuza Iasi / CP I. dr. Alexandru Ciocârlan, Academia de Stiinta a Moldovei. (Valoarea grantului: 29.000 RON).

4. Research team member: Grant bilateral Romania – Moldova, grant nr. 418/02.06.2010, Project title: Biologically active compounds with terpenoid and azaheterocycle skeleton through conventional and nonconventional methods, Finantator: Guvernul Moldovei si Guvernul Romaniei (ANCS, PN-II, Modul III), Directori: prof.dr. Ionel Mangalagiu, Romania/ CP I.dr. Aculina Aracu, Academy of Science of Rep. Moldova. (Valoare 2010: 13.135 Euro, Valoare 2011: 13.135 Euro).
5. Research team member: World Bank Grant type C, no. 27423/23.02.2000, code CNCSU/CNIFS 109, "Researches in the field of cycloimmonium ylides (nitrogen-ylides). synthesis, structure, reactivity and applications", Project manager: dr. Ionel Mangalagiu.

Alte Proiecte:

1. Expert dezvoltarea carierei in cadrul proiectului ACCESS cod CNFIS-FDI-2017-0316. Identificarea si analiza asteptarilor angajatorilor si absolventilor Universitatii „Alexandru Ioan Cuza” din Iasi (UAIC) privind accesul si integrarea pe piata muncii (iulie-decembrie 2017).
2. Expert pe termen lung in cadrul proiectului: POSDRU/161/2.1/G/141661. „Facilitarea inserției pe piața muncii a viitorilor absolvenți de chimie” (2014-2015).
3. Expert pe termen scurt in proiectul POSDRU/86/1.2/S/56283 “Managementul comunicarii cu alumni pentru institutii de invatamant superior din Romania” (2013).
4. Expert pe termen scurt in cadrul proiectului POSDRU/159/1.5/S/ 137750, Programe doctorale și postdoctorale - suport pentru creșterea competitivității cercetării în domeniul Științelor exacte (2014).

Brevete:

1. Mangalagiu, I.I.; Amăriucăi-Mantu, D.; Antoci, V.; Zbancioc, Ghe.; Moldoveanu, C.; Cucu, D.; **Danac, R.**; Mangalagiu, V.: Process for obtaining a novel class of anthracene-imidazole compounds with antituberculosis activity/Procedeu pentru obținerea unei noi clase de compuși antracen-imidazolici cu activitate antituberculoasă, patent no. RO134192-A0/2020, Oficiul de Stat pentru Invenții și Mărci, Property Rights Owner: Universitatea „Alexandru Ioan Cuza” din Iași, România.

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