CURRICULUM VITAE

Name: Ramona **Surname**: DANAC
Citizenship: Romanian;
Address: Iasi, Romania;
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Education:

07/04/2025	Defense of the *Habilitation Thesis*
Thesis title:	Functionalized Organic Scaffolds: from Small Molecules to Macrocycles
	Award of the Habilitation Certificate by Ministerial Order No. 6770/25.11.2025.
09.2012–12.2012	DAAD Research Stage for Academics and Researchers, Karlsruhe Institute of Technology, Karlsruhe, Germany,
Project title:	Rigid Star-Shaped Molecules as Supported Homogeneous Catalysts
2005 – 2007	Marie Curie Fellow, (2 years MEIF-CT-2005-022646, 2005-2007) Chemistry Research Laboratory, University of Oxford, Oxford, UK,
Project title:	New Inhibitors of Bacterial and Fungal Cell Wall Biosynthesis
1999 - 2003	Ph. D. Organic Chemistry Organic Chemistry and Biochemistry Department Faculty of Chemistry “Al. I. Cuza” University, Iasi, Romania
Supervisor:	Prof. Ioan Druta
Thesis title:	Researches in the Field of 1,10-Phenanthroline
1997 – 1999	M.Sc., Heterocyclic Chemistry and Biochemistry Organic Chemistry and Biochemistry Department Faculty of Chemistry “Alexandru Ioan Cuza” University, Iasi, Romania
Supervisor:	Prof. Valeriu Sunel
Thesis title:	Nitrogen Yperites
1993 – 1997	B.Sc., Department of Chemistry-Physics Faculty of Chemistry “Alexandru Ioan Cuza” University of Iasi, Romania
1989 -1993	Medical High School, Iasi, Romania

Professional Experience

2020 – to date Professor, Chemistry Department, University "Alexandru Ioan Cuza", Iasi, Romania;

2013 – 2020 Associate professor, Chemistry Department, University "Alexandru Ioan Cuza", Iasi, Romania;

2006 – 2013 Lecturer, Chemistry Department, University "Alexandru Ioan Cuza", Iasi, Romania;

2003 – 2006 Research Assistant Department of Organic Chemistry and Biochemistry, University "Al. I. Cuza", Iasi, Romania.

2001 – 2003 Preparation Assistant Department of Organic Chemistry and Biochemistry, University " Alexandru Ioan Cuza", Iasi, Romania.

Scientific interest:

- Organic chemistry;
- Structural organic analysis;
- Heterocyclic chemistry;
- Medicinal chemistry;
- Organic semiconductors;
- Fluorescent materials;
- Supramolecular chemistry.

Summary of qualifications:

- Synthesis and characterization of organic compounds;
- Teaching lectures and labs: Organic chemistry; Heterocyclic chemistry; Advances Organic • Synthesis; Structural Analysis of Organic Compounds; Fragrances, Flavoring Compounds and Food Additives.
- Supervising the activity of undergraduate, master and PhD students in Organic Chemistry laboratories.
- Developed skills in organic synthesis and characterization of organic compounds, biological testing.
- Interdisciplinary researcher with a broad range of skills that transcend traditional subdisciplines of chemistry.
- Good computer skills: OS Windows, Microsoft Office, ChemOffice.
- Multilingual: Romanian, English, French.

Scientific contribution:

- 78 scientific papers;
- over 100 papers presented at national and international conferences/events;
- 5 book chapter /books co-author;
- 1 patent;

• project manager or PI of 3 research projects and research member in other research projects;
• long-term expert or short-term expert for institutional projects;
• Editor in Chief of Acta Chemica Iasi journal from 2017;
• Reviewer for: Journal of Enzyme Inhibition and Medicinal Chemistry, Tetrahedron, RSC Advances, Biomolecules, Antioxidants, Medicinal Chemistry, Organic&Biorganic Chemistry, Medicinal Chemistry Research, Arabian Journal of Chemistry, Letters in Drug Design and Discovery, Pharmaceuticals, Marine Drugs, Minireviews in Medicinal Chemistry, etc.

Selected Publications:

1. R. Ciorteanu, C.I. Ciobanu, N. Cibotariu, S. Shova, V. Antoci, I. I. Mangalagiu, **R. Danac**[*], Functionalized Indolizines as Potential Anticancer Agents: Synthetic, Biological and In Silico Investigations, *Int. J. Mol. Sci.*, (2025), **26(17)**, 8368.
2. C. Moldoveanu, I. I. Mangalagiu, G. Zbancioc[*], **R. Danac**[*], G. Tataringa, A. M. Zbancioc, Anticancer Potential of Azatetracyclic Derivatives: In Vitro Screening and Selective Cytotoxicity of Azide and Monobrominated Compounds, *Molecules*, (2025), **30(3)**, 702.
3. A. Al-Matarneh, N. Simionescu; A. Nicolescu, N. Cibotariu, R. Danac, M. C. Al-Matarneh, I. I. Mangalagiu, Pyrrolo-Fused Phenanthridines as Potential Anticancer Agents: Synthesis, Prediction, and Biological Evaluation, *J. Biochem. Mol. Toxicol.*,(2025), **39(9)**, e70443.
4. C. M. Al Matarneh, A. Nicolescu[*], S. Shova, M. Apostu, R. Puf, F. Mocci, A. Laaksonen, I. I. Mangalagiu, **R. Danac**[*], Revisiting Fused-Pyrrolo-1,10-Phenanthroline Derivatives: Novel Transformations and Stability Studies, *ChemistryOpen*, (2025), **14(7)**, e202400365.
5. 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.
6. 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.
7. M.-C. Sardaru, C.-M. Al Matarneh, N. Simionescu, I.I. Mangalagiu, M. Pinteala, **R. Danac**, New Monoquaternary Salts of N-Heterocycles: Synthesis and Antitumor Assesment, *Rev. Roum. Chim*., (2024), **69(1-2)**, 63-74.
8. 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.
9. L. Oniciuc, D. Amariucai-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.
10. 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.
11. 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.
12. D. Amariucai-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.
13. 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.

14. 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.
15. 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.
16. 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.
17. 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.
18. M.-C. Sardaru, O. Carp, E.-L. Ursu, A.-M. Craciun, C. Cojocaru, M. Silion, 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.
19. 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*., (2020), **310**, 113196.
20. D. Amariucai-Mantu, V. Mangalagiu, R. Danac, I.I. Mangalagiu, Microwave assisted reactions of azaheterocycles for medicinal chemistry applications, *Molecules*, (2020), 25(3), 716.
21. **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*., (2020), **1207**, 12747.
22. 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*, (2020), **25**, 527.
23. 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 Chemia*, **LXIV(3)**, (2019), 67-80.
24. 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.
25. L. Leontie, **R. Danac**, A. Carlescu, C. Doroftei, G.G. Rusu, V. Tiron, S. Gurlui, O. Susu, Electric and optical Properties of some new funtional lower-rim-substituted calixarene derivatives in thin films, *Appl. Phys. A*, **124**, (2018), 355.
26. 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.
27. 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-phenanthrolinium ylides to activated alkynes and alkenes, *C. R. Chimie*, **21(1)** (2018), 1-8.
28. 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.
29. 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.

30. 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.
31. **R. Danac**, L. Leontie, A. Carlescu, S. Shova, V. Tiron, G. G. Rusu, F. Iacomi, S. Gurlui, O. Șușu, 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.
32. C.M. Al Matarneh, M.O. Apostu, I.I. Mangalagiu, **R. Danac**, Reactions of ethyl cyanoformate with cycloimmonium salts: a direct pathway to fused or substituted azaheterocycles, *Tetrahedron*, **72**, (2016), 4230-4238.
33. 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.
34. 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.
35. R. Postolache, R. Danac, A. Pui, New Coordinative Compounds with 4-(4'-pyridyl)pyridinium Disubstituted Monoylides, *Croat.Chem. Acta*, **88(3)**, (2015), 207-211.
36. **R. Danac**, C. M. Al Matarneh, S. Shova, T. Daniloaia, M. Balan, I.I. Mangalagiu, New indolizines with phenanthroline skeleton: synthesis, structure, antimycobacterial and anticancer evaluation, *Bioorg. Med. Chem.*, **23**, (2015), 2318-2327.
37. R. Rusu, A. Szumna, N. Rosu, C. Dumea, **R. Danac**, New Triazole Appended *tert*-Butyl Calix[4]arene Conjugates: Synthesis, Hg^{2+} Binding Studies, *Tetrahedron*, **71**, (2015), 2922-2926.
38. **R. Danac**, T. Daniloaia, V. Antoci, V. Vasilache, I. I. Mangalagiu, Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with *p-halo*-benzoyl Skeleton. Part V, *Lett. Drug Des. Discov.*, **12**, (2015), 14-17.
39. **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.
40. C. Rimbu, **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.
41. **R. Danac**, I. Mangalagiu, Antimycobacterial activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III, *Eur. J. Med. Chem.*, **74**, (2014), 664-670.
42. 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.
43. 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, *Materials Chemistry and Physics*, **135**, (2012), 123-129.
44. **R. Danac**, L. Leontie, A. Carlescu, G.I. Rusu, DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films, *Materials Chemistry and Physics*, **134**, (2012), 1042-1048.
45. **R. Danac**, R. Rusu, A. Rotaru, A. Pui, S. Sova, New Conjugates of Calix[4]arenes Bearing Bipyridine and Indolizine Heterocycles, *Supramolecular Chemistry*, **24(6)**, (2012), 424-435.
46. L. Leontie, **R. Danac**, N. Apetroaei, G.I. Rusu, Study of electronic transport properties of some new N-(p-R-phenacyl)-1,7-phenanthrolinium bromides in thin films, *Materials Chemistry and Physics*, **127**, (2011), 471-478.
47. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films, *Synthetic Metals*, **160 (23-24)**, (2010), 2526-2533.
48. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, G. I. Rusu, Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties, *Synthetic Metals*, **160**, (2010), 1273-1279.

49. A. Rotaru, I. Druta, E. Avram, **R. Danac**, Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines", *Arkivoc*, 13, (2009), 287-299.
50. 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, *Organic & Biomolecular Chemistry*, **7**, (2009), 1097-1105.
51. **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, *Carboydr. Res*., 343, (2008), 1012-1022.
52. 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'-indolizinyl}pyridinium bromides in thin films, *Thin Solid Films*, **516(7)**, (2008), 1599-1603.
53. M. Prelipceanu, O. S. Prelipceanu, L. Leontie, **R. Danac**, Photoelectron spectroscopy investigations of pyrrolo[1,2-a][1,10]phenanthroline derivatives, *Physics Letters A*, **368(3-4)**, (2007), 331-335.
54. 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.
55. **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.
56. L. Leontie, **R. Danac**, I. Druta, Electrical conduction mechanism in N-(*p*-R-phenacyl)-4,5-diazafluorenium-9-one bromides thin films, *Synthetic Metals*, **155(2-4)**, (2006), 224-229. L. Leontie, **R. Danac**, Optical properties of some new synthesized organic semiconductors in thin films, *Scripta Materialia*, **54(2)**, (2006), 175-179.
57. 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, *Synthetic Metals*, **155(1)**, (2005), 138-145. L. Leontie, I. Druta, **R. Danac**, M. Prelipceanu, G.I. Rusu, Electrical properties of some new high resistivity organic semiconductors in thin films, *Progress in Organic Coatings*, **54(3)**, (2005), 175-181.
58. **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), 983-896.
59. 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.
60. 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.
61. 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.
62. **R. Danac**, A. Rotaru, G. Drochioiu, I. Druta, Synthesis of novel phenanthroline derivatives by 3+2 dipolar cycloadition reaction, *J. Heterocycl. Chem*., **40**, (2003), 283.

List of Proceedings:

1. V. Antoci, D. Amariucai-Mantu, V. Mangalagiu, **R. Danac**, I.I. Mangalagiu, Design, synthesis, and anticancer evaluation of fused 1,2-diazine derivatives, *Proceedings*, 2019, 22(1), 26. https://doi.org/10.3390/proceedings2019022026

List of published books/ book chapters:

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 pages) (ISBN: 978-606-8363-09-7x2).
3. Roxana-Maria Amarandi, Maria Cristina Al-Matarneh, **Ramona Danac**, Natural indolic alkaloids, Editura Universitatii „Alexandru Ioan Cuza" Iasi, **2017** (172 pages) (ISBN: 978-606-714-401-7).
4. **Ramona Danac**, Dorina Amariucai-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. Amariucai-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).
6. Violeta Mangalagiu, **Ramona Danac**, Anda-Mihaela Olaru, Dumitrela Diaconu, Ionel I. Mangalagiu, Antimycobacterial Activity of Nitrogen Heterocycles Compounds with Indolizine Skeleton, in Chemistry and Biochemistry: Research Progress Vol. 1, Ed. Oscar Jaime Restrepo Baena, BP International, London, **2025**, 160–188. (ISBN 978-93-49238-76-3 (Print). ISBN 978-93-49238-38-1 (eBook)). https://doi.org/10.9734/bpi/cbrp/v1/3855

List of editorials:

1. A. Mermer, I.E. Orhan, G. Ye, N. A. Kumar, R. Danac, Editorial: Five-membered ring heterocyclic compounds as anticancer drug candidates, *Front. Chem*., (2025), **13**, 1599140. https://doi.org/10.3389/fchem.2025.1599140

Patents:

1. Mangalagiu, I.I.; Amăriucăi-Mantu, D.; Antoci, V.; Zbancioc, G.; Moldoveanu, C.; Cucu, D.; Dănac, R.; Mangalagiu, V.: Process for obtaining a novel class of anthracene-imidazole compounds with antitubeculosis activity/Procedeu pentru obţinerea unei noi clase de compuşi antracen-imidazolici cu activitate antituberculoasă, patent no. RO134192-A0/2020, Oficiul de Stat pentru Invenţii şi Mărci, Property Rights Owner: Universitatea „Alexandru Ioan Cuza" din Iaşi, România

16.02.2026

Prof. Dr. Ramona Danac