



## Curriculum vitae

### INFORMAȚII PERSONALE

#### RICA BOSCENCU

Universitatea de Medicină și Farmacie "Carol Davila", Facultatea de Farmacie, București

### EXPERIENȚA PROFESIONALĂ

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#### 2013–Prezent **Profesor universitar**

Facultatea de Farmacie, Universitatea de Medicină și Farmacie "Carol Davila", București

#### Activitati si responsabilitati principale

#### **Activitate didactică**

- organizarea și susținerea cursului de Chimie Generala și Anorganica pentru studenții anului I ai Facultății de Farmacie, București,
- coordonarea studenților anului I în cadrul lucrărilor de laborator incluse în programa analitică a disciplinei de Chimie Generală și Anorganică,
- evaluarea studenților privind însușirea noțiunilor prezentate în cadrul orelor de curs, seminar și lucrări practice,
- elaborarea de materiale didactice,
- coordonarea doctoranzilor în realizarea tezelor de doctorat în vederea obținerii titlului de doctor în științe farmaceutice,
- membru în comisii pentru susținerea examenului de abilitare, susținerea examenului de admitere la doctorat, examinarea candidaților pentru ocuparea de posturi didactice, susținerea și evaluarea lucrărilor de licență, a examenului de admitere la Facultatea de Farmacie, UMF Carol Davila.

**Activitate științifică** orientată spre dezvoltarea de noi sisteme destinate diagnozei și terapiei tumorilor, o abordare teranostică prin valorificarea potențialului biomedical, a versatilității nanoparticulelor și a porfirinelor fluorescente cu rol de fotosensibilizatori; activitate de cercetare științifică bazată pe colaborarea interdisciplinară cu colective de cercetători de la:

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Centrul de Chimie Fizica Moleculara al Institutului de Nanotehnologii (Lisabona), Universitatea din Madrid, Dokumar (Turcia), Institutul Politehnic Portalegre, Institutul Național de Cercetare Dezvoltare in Domeniul Patologiei si Stiintelor Biomedicale “Victor Babes” (Bucuresti), Institutul de Chimie Fizică al Academiei Române, S.C. Biotechnos (Bucuresti).

Director al proiectelor internationale ERA.NET, programul HORIZON 2020:

✓ *Advanced theranostic approach in cancer combining photodynamic therapy and nanoparticles*, cu perioada de desfasurare 2016–2019.

✓ *Tetrapyrrole nanostructures towards fluorescent molecular markers for biomedicine*, cu perioada de desfasurare 2010-2013.

### 2006–2013 Conferentiar universitar

Facultatea de Farmacie, Universitatea de Medicină și Farmacie “Carol Davila”, București

Activitati si  
responsabilitati  
principale

#### **Activitate didactică**

- organizarea, susținerea cursurilor si coordonarea lucrarilor de laborator pentru studentii anului I ai Facultatii de Farmacie, București,
- evaluarea studentilor privind insusirea notiunilor prezentate in cadrul orelor de curs, seminar si lucrari practice,
- elaborarea de materiale didactice,
- coordonarea unor lucrări de licență a studentilor farmacisti,
- susținerea de cursuri postuniversitare adresate farmaciștilor,
- membru in comisii pentru ocuparea de posturi didactice, susținere și evaluarea lucrărilor de licenta, a examenului de admitere la Facultatea de Farmacie, UMF Carol Davila.

**Activitate științifică** in domeniul sintezei si evaluarii unor noi structuri chimice cu aplicabilitate in domeniul biomedical, activitate desfasurata in vederea realizarii obiectivelor unor proiecte de cercetare castigate prin competitie la nivel national si international.

Director al proiectelor de cercetare:

✓ *Tetrapyrrole nanostructures towards fluorescent molecular markers for biomedicine*, proiect international ERA.NET (2010-2013).

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✓ *In vitro* evaluation at the cellular level of certain polifunctional heterocyclic systems with potential biomedical applications, proiect PNII (Parteneriate in Domeniile Prioritare) desfasurat in perioada 2007-2010.

Membru in colectivul de cercetare al proiectului:

✓ *New nucleoside analogues potential active for cancer therapy-from synthesis to cellular and molecular targets*, proiect PNII (Parteneriate in Domeniile Prioritare) desfasurat in perioada 2007-2010.

## 2002–2006 Șef de lucrări

Facultatea de Farmacie, Universitatea de Medicină și Farmacie “Carol Davila”, București

Activitati si  
responsabilitati  
principale

**Activitate didactică** prin: susținere de cursuri, coordonare lucrari de laborator, evaluare studenti, elaborare materiale didactice (curs, lucrari de laborator), coordonare lucrări de licență a studentilor farmacisti, participare ca membru in comisii pentru examenul de admitere, examenul de licenta, examene pentru ocuparea de posturi didactice in Facultatea de Farmacie, UMF Carol Davila.

**Activitate științifică** in domeniul sintezei si evaluarii structurale si functionale a unor noi compusi anorganici cu aplicabilitate in domeniul biomedical.

Responsabil din partea UMFCFCD pentru proiectul national:

✓ *The study of the structure and properties of some tetrapyrrolic meso-substituted compounds*, proiect MEC-CNCSIS, 2005-2007.

## 1998–2002 Asistent universitar

Facultatea de Farmacie, Universitatea de Medicină și Farmacie “Carol Davila”, București

Activitati si  
responsabilitati  
principale

**Activitate didactică** prin indrumarea studentilor in cadrul orelor de lucrari practice, coautor la elaborarea de materiale didactice, membru în Comisia pentru examenul de admitere la Facultatea de Farmacie.

**Activitate științifică** in domeniul obtinerii si caracterizarii de noi compusi anorganici cu aplicatii biomedicale.

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**1993–1998 Chimist**

Institutul de Cercetari Chimice Bucuresti

Activitati si  
responsabilitati  
principale

**Activitate științifică** bazata pe studiul sintezei unor compusi macrociclici cu aplicatii biomedicale. Participarea in calitate de responsabil de proiect (6) sau membru in colectiv (10) , la realizarea obiectivelor unor contracte de cercetare stiintifica.

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**EDUCAȚIE ȘI FORMARE**

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**Martie 2013 Abilitare pentru conducere de doctorat in domeniul Stiinte Farmaceutice** (Ordinul Ministrului Educatiei Nationale nr. 4104 MD/5.07.2013).

Teza de abilitare: *"Contributions in the field of the mesoporphyrinic complexes with biomedical applications"*

**1996 - 2002 Doctor în Chimie** (Ordinul Ministrului Educatiei si Cercetarii nr.4198/29.07.2002).

Teza de doctorat: *„Combinatii complexe cu liganzi macrociclici tetrapirolici cu potentiale aplicatii biomedicale“*

**2002 –2005 Diploma de licență în Farmacie**

Facultatea de Farmacie, Universitatea de Medicină și Farmacie “Carol Davila”, București

**1988 – 1993 Diploma de licență în Chimie**

Facultatea de Chimie, Universitatea București

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**COMPETENȚE PERSONALE**

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Limbi străine	Înțelegere		Vorbire		Scriere
	Ascultare	Citare	Participare la conversație	Discurs oral	
Engleză	C1	C1	C1	C1	C1

Competențe și  
abilități sociale

Abilități de comunicare, de lucru în echipă (colaborare și capacitate adecvată de comunicare cu studenții, menținerea unui climat optim de lucru) dobândite pe parcursul celor peste 27 de ani de activitate didactica și științifică. Abilitati de prezentare dobândite de-a lungul anilor de activitate academică, didactică (cursuri, prelegeri, activități practice) dar și prin numeroasele prezentări susținute în cadrul manifestărilor științifice.

Competențe și aptitudini organizatorice

Abilități în managementul activității de cercetare:

- experiență în managementul de proiect – director al proiectelor internaționale de tip ERA NET (2010-2013, 2016-2019), director de proiect în cadrul programului național Parteneriate PNII (2007-2010), responsabil pentru alte 7 proiecte de cercetare desfășurate în perioada 1994-2007, membru în colectivele de cercetare a 11 proiecte de cercetare științifică;
- conducător de doctorat, coordonator al unor lucrări de licență a studenților farmacisti, a unor lucrări prezentate în cadrul Sesiunilor Științifice Studentești

## Informații suplimentare

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Premii obținute

- premiul acordat de UEFISCDI în cadrul programului „*Premierea rezultatelor cercetării*”, sesiunea decembrie 2014, pentru obținerea atestatului de abilitare (Ordinul Ministrului Educației Naționale nr. 4104 MD/5.07.2013), în urma susținerii tezei de abilitare cu titlul: “*Contributions in the field of the mesoporphyrinic complexes with biomedical applications*”
- 14 premii acordate de UEFISCDI în cadrul programului „*Premierea rezultatelor cercetării*” pentru următoarele lucrări:
  - ✓ *New A<sub>3</sub>B porphyrins as potențial candidates for theranostic. Synthesis and photochemical behaviour*, **R. Boscencu**, R. P. Socoteanu, G. Manda, N. Radulea, M. Anastasescu, A. Gama, I. Ferreira Machado, L. F. Vieira Ferreira, *Dyes and Pigments*, 160, 410-417, 2019.
  - ✓ *Atomic force microscopy and dark-toxicity pattern of unsymmetrical metallated porphyrins M(II)P-type as theranostics agents*, R. P. Socoteanu, M. Anastasescu, **R. Boscencu**, C. Constantin, M. Neagu, *Materials Science & Engineering B*, 245 85–94, 2019.
  - ✓ *Tetrapyrrolic compound with theranostic applications and obtaining process*, **R. Boscencu**, G. Manda, R. P. Socoteanu, M. E. Hinescu, N. Radulea, I. Neagoe, L. F. Vieira Ferreira Patent no. 131946/2019.
  - ✓ *Synthesis, characterization and antitumor activity of two new dipyrrolium ylide based lanthanide(III) complexes*, A.Cârâc, **R. Boscencu**, R.M. Dinică, J.F.Guerreiro, F.Silva, F.Marques, M.P.Cabral Campello, C.Moise, O.Brîncoveanu, M.Enăchescu, G. Cârâc, A. Tăbăcaru, *Inorganica Chimica Acta*, 480, 83-90, 2018.

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- ✓ *Studies on the synthesis, photophysical and biological evaluation of some unsymmetrical meso-tetrasubstituted phenyl porphyrins*, **R. Boscencu**, G. Manda, N. Radulea, R. P. Socoteanu, L. C. Ceafalan, I. V. Neagoe, I. F. Machado, S. H. Basaga, L. F. V. Ferreira, *Molecules*, 22, 1815, doi:10.3390/molecules22111815, 2017.
- ✓ *Synthesis, spectral analysis and preliminary in vitro evaluation of some tetrapyrrolic complexes with 3d metal ions*, R. Socoteanu, G. Manda, **R. Boscencu**, G. Vasiliu, A. S. Oliveira, *Molecules*, 20, 15488-15499, 2015.
- ✓ *Aggregation behavior of some asymmetric porphyrins vs. basic biological tests response*, R. Socoteanu, M. Anastasescu, A. S. Oliveira, G. Dobrescu, **R. Boscencu**, C. Constantin, *International Journal of Photoenergy*, Volume 2015, <http://dx.doi.org/10.1155/2015/302587>, 2015.
- ✓ *AFM imaging, fractal analysis and in vitro cytotoxicity evaluation of Zn(II) vs. Cu(II) porphyrins*, R. Socoteanu, M. Anastasescu, G. Dobrescu, **R. Boscencu**, G. Vasiliu, C. Constantin, *Chaos Solitons and Fractals*, 77, 304–309, 2015.
- ✓ *Synthesis, Photophysical and Cytotoxicity Evaluation of A<sub>3</sub>B Type Mesoporphyrinic Compounds*, L. F. Vieira Ferreira, D. P. Ferreira, A. S. Oliveira, **R. Boscencu**, R. Socoteanu, M. Ilie, C. Constantin, M. Neagu, *Dyes and Pigments* 95, 296-303, 2012.
- ✓ *Asymmetrically substituted porphyrin derivative and process for obtaining the same*. **R. Boscencu**, D. Licsandru, V. Nacea, Patent no. 122094 B1/2008.
- ✓ *Synthesis and spectral evaluation of some unsymmetrical mesoporphyrinic complexes*, **R. Boscencu**, A. S. Oliveira, D. P. Ferreira and L. F. V. Ferreira, *Int. J. Mol. Sci.*, 13, 8112-8125, 2012.
- ✓ *Spectroscopic Behavior of Some A<sub>3</sub>B Type Tetrapyrrolic Complexes in Several Organic Solvents and Micellar Media*, **R. Boscencu**, M. Ilie, R. Socoteanu., *Int. J. Mol. Sci.*, 12, 5552-5564, 2011.
- ✓ *Synthesis and characterisation of some new unsymmetrically-substituted mesoporphyrinic mono-hydroxyphenyl complexes of Cu(II)*, **R. Boscencu**, R. Socoteanu, A. Sousa Oliveira, L.F. Vieira Ferreira, V. Nacea, G. Patrinoiu, *Polish J. Chem.*, 82, 509-521, 2008.
- ✓ *Studies on Zn(II) monohydroxyphenyl mesoporphyrinic complexes: Synthesis and characterization*, **R. Boscencu**, R. Socoteanu, A. Sousa Oliveira, L.F. Vieira Ferreira, *Journal of the Serbian Chemical Society*, 73(7):713-726, 2008.

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- Activitatea publicistică** (Anexa 1):
- 7 cărți de specialitate și un capitol de carte publicat într-o editura internațională
  - 7 brevete de invenție
  - 63 articole in extenso publicate in reviste din fluxul stiintific international principal; 54 articole in reviste indexate ISI: *Current Pharmaceutical Design* (I.F.=2,208), *Materials Science & Engineering* (I.F.=4,706), *Dyes and Pigments* (I.F.=4,613), *International Journal Molecular Science* (I.F.=4,556), *Molecules* (I.F.=3,267), *Journal of Photochemistry and Photobiology* (I.F.=3,306), *Inorganica Chimica Acta* (I.F.=2,304), *International Journal of Photoenergy* (I.F.=1,547), *Chemical Physics* (I.F. = 1,771), *Revista de Chimie* (I.F.=1,755).
  - 44 lucrari comunicate la manifestari stiintifice nationale si internationale

## ANEXA 1

### A. Carti si capitole in carti

1. **R. Boscencu**, V. Nacea, *Chimie Anorganica Descriptiva*, Ed. Universitara „Carol Davila”, Bucuresti, 2013, ISBN 978-973-708-674-7.
2. R. P. Socoteanu, **R. Boscencu**, A. Hirtopeanu, G. Manda, A. S. Oliveira, M. Ilie, L. F. Vieira Ferreira - *Trends in Interdisciplinary Studies Revealing Porphyrinic Compounds Multivalency Towards Biomedical Application*, in *Biomedical Engineering - From Theory to Applications*, Reza Fazel (Ed.), InTech Open, August 2011, Chapter 15, 355-390, ISBN 978-953-307-637-9.
3. V. Nacea, **R. Boscencu**: *Chimie Anorganica. Baze teoretice*, Ed. Universitara „Carol Davila”, Bucuresti, 2010, ISBN 978-973-708-463-7.
4. **R. Boscencu**, *Contributii în domeniul combinatiilor complexe cu liganzi macrociclici cu potentiale aplicatii biomedicale*, Ed.Tehnoplast, Bucuresti, 2005, ISBN-97386802-6-3.
5. V. Nacea, **R. Boscencu**, *Chimie Anorganica-Lucrari practice*, Ed.Tehnoplast, Bucuresti, 2005, ISBN-97386802-5-5.
6. V. Nacea, **R. Boscencu**, *Chimie Anorganica (curs-vol.II)*; Ed.Tehnoplast, Bucuresti, 2001, ISBN-973-98254-9-4.
7. V. Nacea, **R. Boscencu**, *Chimie Anorganica (curs-vol.I)*; Ed.Tehnoplast, Bucuresti, 2000, ISBN-973-98253-9-7.
8. V. Nacea, **R. Boscencu**, *Chimie Anorganica (curs-vol.I)*; Ed.Tehnoplast, Bucuresti, 1998, ISBN-973-98254-1-9.

## B. Brevete de inventie

1. **R. Boscencu**, D. Licsandru, V. Nacea, „*Derivat de porfirina substituit asimetric si procedeu de obtinere*”, Brevet nr. 122094 B1/2008.
2. **R. Boscencu**, R. Socoteanu, V. Nacea, C. Constantin, G. Manda, M. Neagu, M. Ilie, D.L. Baconi, A.S. Oliveira, L.F. Vieira Ferreira, „*Compus tetrapirolic nesimetric substituit-procedeu de obtinere și evaluare biologică la nivel celular*”. Brevet nr.123419 B1/2012.
3. **R. Boscencu**, R. Socoteanu, C. Constantin, M. Neagu, G. Manda, M. Ilie, V. Nacea, C.E. Gird, A.S. Oliveira, L.F. Vieira Ferreira, „*Compus porfirinic nesimetric substituit, ca agent de fotosensibilizare, utilizat in diagnosticul cancerului si procedeu de preparare a acestuia*”, Brevet nr. 126761 B1/2014.
4. R. Socoteanu, **R. Boscencu**, V. Nacea, C. Constantin, G. Manda, M. Neagu, M. Ilie, A.S. Oliveira, L.F. Vieira Ferreira, „*Compus porfirinic bio-functionalizat*”, Brevet nr.125018 B1/2015.
5. **R. Boscencu**, G. Manda, R. P. Socoteanu, M. E. Hinescu, N. Radulea, I. V. Neagoe, L. F. Vieira Ferreira, *Compus tetrapirolic cu aplicații in teranostica si procedeu de obtinere a acestuia*, Brevet nr. 131946/2019
6. **R. Boscencu**, G. Manda, R. P. Socoteanu, M. E. Hinescu, I. V. Neagoe, L. Olariu, B. Dumitriu, *Derivat porfirinic pentru utilizare in teranostica*, Cerere de brevet nr. a 2017 01030/5.12.2017.
7. **R. Boscencu**, G. Manda, L. Olariu, I. V. Neagoe, R. P. Socoteanu, M. E. Hinescu, L.F. Vieira Ferreira, A. Cuadrado, H. Basaga, *Derivat tetrapirolic destinat terapiei fotodinamice antitumorale si procedeu de obtinere a acestuia*, Cerere de brevet nr. a 2019 00799/2019.

## C. Articole in extenso publicate in reviste din fluxul stiintific international principal

1. R. P. Socoteanu, **R. Boscencu**, G. Manda, M. Anastasescu, I. V. Neagoe, I. F. Machado, O. Dinca, A. Bucur, L.F. Vieira Ferreira, *Morphologic evaluation of some promising A<sub>3</sub>B porphyrinic type compounds designed for theranostic applications in cancer*, Chemical Physics, 544, 111115, 2021.
2. E.R. Chiriac, C. L. Chițescu, C. Sandru, E.I. Geană, M. Lupoae, M. Dobre, D. Borda, C.E. Gird, **R. Boscencu**, *Comparative Study of the Bioactive Properties and Elemental Composition of Red Clover (*Trifolium pratense*) and Alfalfa (*Medicago sativa*) Sprouts during Germination*, Appl. Sci., 10, 7249, <https://doi.org/10.3390/app10207249>, 2020.



3. L. F. Vieira Ferreira, I. Ferreira Machado, A. Gama, F. Lochte, R. Socoteanu, **R. Boscencu**, *Surface photochemical studies of nano-hybrids of A3B porphyrins and Fe3O4 silica-coated nanoparticles*, Journal of Photochemistry and Photobiology A: Chemistry, 387, 112152, 10.1016/j.jphotochem.2019.112152, 2020.
4. E. R. Chiriac, C. L. Chitescu, D. Borda, M. Lupoae, C. E. Gird, E. I. Geană, G.V. Blaga, **R. Boscencu**, *Comparison of the Polyphenolic Profile of Medicago sativa L. and Trifolium pratense L. Sprouts in Different Germination Stages Using the UHPLC-Q Exactive Hybrid Quadrupole Orbitrap High-Resolution Mass Spectrometry*, Molecules, 25, 2321, doi:10.3390/molecules25102321, 2020.
5. R. Socoteanu, M. Anastasescu, **R. Boscencu**, C. Constantin, M. Neagu, *Atomic force microscopy and dark-toxicity pattern of unsymmetrical metallated porphyrins M(II)P-type as theranostics agents*, Materials Science & Engineering B, 245, 85–94, <https://doi.org/10.1016/j.mseb.2019.05.012>, 2019.
6. N. Radulea, **R. Boscencu**, R. Socoteanu, G. Manda, I. V. Neagoe, *The effect of some amphiphilic porphyrins on the transmembrane potential of cultured I929 cells*, Rev. Chim., 70, 4, 1288-1292, 2019.
7. L. F. Vieira Ferreira, I. Ferreira Machado, A. Gama, R. P. Socoteanu, **R. Boscencu**, G. Manda, R. C. Calhelha, I. C. F. R. Ferreira, *Photochemical/photocytotoxicity studies of new tetrapyrrolic structures as potential candidates for cancer theranostics*, Current Drug Discovery Technologies, <https://doi.org/10.2174/1570163816666190411100919>, 16 (1), 2019.
8. **R. Boscencu**, R. P. Socoteanu, G. Manda, N. Radulea, M. Anastasescu, A. Gama, I. Ferreira Machado, L. F. Vieira Ferreira, *New A<sub>3</sub>B porphyrins as potential candidates for theranostic. Synthesis and photochemical behaviour*, Dyes and Pigments, 160, 410-417, <https://doi.org/10.1016/j.dyepig.2018.08.028>, 2019.
9. G. Manda, M. E. Hinescu, I. V. Neagoe, L.F.V. Ferreira, **R. Boscencu**, P. Vasos, S. H. Basaga, A. Cuadrado, *Emerging Therapeutic Targets in Oncologic Photodynamic Therapy*, Current Pharmaceutical Design, 24 (44), 5268-5295, <https://doi.org/10.2174/1381612825666190122163832>, 2018.
10. A. Cârâc, **R. Boscencu**, R. M. Dinică, J. F. Guerreiro, F. Silva, F. Marques, M. P. Cabral Campello, C. Moise, O. Brîncoveanu, M. Enăchescu, G. Cârâc, A. Tăbăcaru,

*Synthesis, characterization and antitumor activity of two new dipyrindinium ylide based lanthanide(III) complexes*, Inorganica Chimica Acta, 480, 83-90, 2018.

**11. R. Boscencu**, G. Manda, N. Radulea, R.P.Socoteanu, L. C. Ceafalan, I. V. Neagoe, I. F. Machado, S. H. Basaga, L. F. V. Ferreira, *Studies on the synthesis, photophysical and biological evaluation of some unsymmetrical meso-tetrasubstituted phenyl porphyrins*, Molecules, 22, 1815, doi:10.3390/molecules22111815, 2017.

**12** S.G. Bungău, D. M.Țiț, L. Copolovici, **R. Boscencu**, G. Cioca, D. Copolovici, *New method for simultaneous determination of ascorbic and acetylsalicylic acids in effervescent tablets*, Rev. Chim., 68, 11, 2495-2498, 2017.

**13.** A. Cârâc, **R. Boscencu**, G. Cârâc, S.G. Bungau, *Spectral study of some lanthanides complexes with quaternary pyridinium ligands*, Rev. Chim., 68, 10, 2265-2269, 2017.

**14.** A. Carac, **R. Boscencu**, A. V. Dediu , S. G. Bungau , R. M. Dinica, *Solvent effects on the spectral and electrochemical properties of some pyridinium quaternary compounds*, Rev. Chim., 68, 7, 1423-1428, 2017.

**15.** D. Copolovici, S. Bungau, **R. Boscencu**, D. M. Tit, L. Copolovici, *The fatty acids composition and antioxidant activity of walnut cold press oil*, Rev. Chim., 68, 3, 507-509, 2017.

**16.** A. Cârâc, **R. Boscencu**, S. Patriche, R. M. Dinica, G. Cârâc, C. E. Gird, *Antioxidant and Antimicrobial Potential of Extracts from Aloe vera Leaves*, Rev. Chim., 67, 4, 654-658, 2016.

**17.** R. Socoteanu, G. Manda, **R. Boscencu**, G. Vasiliu, A. S. Oliveira, *Synthesis, spectral analysis and preliminary in vitro evaluation of some tetrapyrrolic complexes with 3d metal ions*, Molecules, 20, 15488-15499, 2015.

**18.** R. Socoteanu, M. Anastasescu, A. S. Oliveira, G. Dobrescu, **R. Boscencu**, C. Constantin, *Aggregation behavior of some asymmetric porphyrins vs. basic biological tests response*, International Journal of Photoenergy, Volume 2015, Article ID 302587, <http://dx.doi.org/10.1155/2015/302587>, 11 pages, 2015.

**19.** R. Socoteanu, M. Anastasescu, G. Dobrescu, **R. Boscencu**, G. Vasiliu, C. Constantin, *AFM imaging, fractal analysis and in vitro cytotoxicity evaluation of Zn(II) vs.Cu(II)porphyrins*, Chaos, Solitons and Fractals, 77, 304–309, 2015.

20. A. Cârâc, **R. Boscencu**, R. M. Dinică, G. Cârâc, *Electrochemical behaviour of the new heterocyclic pyridinium ligands*, *Studia UBB Chemia*, LX, 3, 99-109, 2015.
21. A. Cârâc, E. Moroşan, A. Ioniţă, **R. Boscencu**, G. Cârâc, *Efficacy of combined CHAp and Lanthanum carbonate in therapy for hyperphosphatemia*, *International Journal of Medical, Health, Biomedical and Pharmaceutical Engineering* Vol:9, 2, 208-211, 2015.
22. **R. Boscencu**, R. Socoteanu, G. Vasiliu, V. Nacea, *Synthesis under solvent free conditions of some Unsymmetrically substituted porphyrinic compounds*, *Revista de Chimie*, 65, 8, 888-891, 2014.
23. G. Vasiliu, **R. Boscencu**, R. Socoteanu, V. Nacea, *Complex combinations of some transition metals with new unsymmetrical porphyrins*, *Revista de Chimie*, 65, 9, 998-1001, 2014.
24. G. Vasiliu, **R. Boscencu**, R. Socoteanu, V. Nacea, *Spectral evaluation of some unsymmetrical mesoporphyrinic compounds in interaction with micellar media*, *Revista de Chimie*, 65, 10, 1182-1185, 2014.
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**Prof. Dr. Rica Boscencu**