

PERSONAL INFORMATION


Lavinia Liliana Ruta

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Sex F | Date of birth 08/06/1978 | Nationality Romanian

WORK EXPERIENCE

2019-onwards

Lecturer

 University of Bucharest, Panduri Street, No. 90-92, Bucharest, www.unibuc.ro

Teaching and research in national and international projects

Education, Academic

2021-2023

Expert chemist

DDS Diagnostic SRL, Vulcan Judetu 7, Bucharest

Research in molecular biology

Academic

2004-2019:

Junior assistant, Professor assistant

 University of Bucharest, Panduri Street, No. 90-92, Bucharest, www.unibuc.ro

Teaching and research in national and international projects

Education, Academic

2011-2013

Pharmacist

SC Eliflor SERV SRL, Tudor Vladimirescu Street, no. 1, Domnesti

2001-2009

AD DamiMar SRL, 1 Colentina Street, Bucharest, Romania

People's health care and aid

Medical, commercial

EDUCATION AND TRAINING

2005-2014

Doctor of Chemistry

EQF Level 8

Name and type of organisation

University of Bucharest, Faculty of Chemistry, Dept. of Organic Chemistry, Biochemistry and Catalysis

Principal subjects skills covered

Thesis Title: Molecular mechanism involved in metallic ions bioaccumulation

2002-2004

Master of Science in Physical Chemistry and Applied Radiochemistry

EQF Level 7

Name and type of organisation

University of Bucharest, Faculty of Chemistry, Dept. of Physical Chemistry

Principal subjects skills covered

Thesis Title: Stabilization of low-density polyethylene using amine antioxidants by gamma radiation exposure. Practical research that contributes directly to the analysis of an amine antioxidant (Tinuvin 123)

1998-2002

Bachelor of Science

EQF Level 6

Name and type of organisation

University of Bucharest, Faculty of Chemistry

Principal subjects skills covered Radiochemistry, Ionization Radiations, Environmental Radioactivity, Radiochemical techniques

1996-2001

Bachelor of Science

EQF Level 6

Name and type of organisation
Principal subjects skills covered

Carol Davila University of Medicine and Pharmacy, Bucharest, Faculty of Pharmacy
Pharmacology, Pharmacognosy, Botanic, Pharmaceutical Physic, Cellular and Molecular Biology, Biochemistry, Pathology, Pharmaceutical Techniques, Toxicology, Immunology, Clinic Biochemistry

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
French	A1/A2	A1/A2	A1/A2	A1/A2	A1/A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Highly adaptable professional with strong technical knowledge and a consistent record of more than 10 years' experience in pharma markets, understanding business goals and bringing charisma and personal skills to meet those needs efficiently and effectively.

University lecturer

Courses taught at the Faculty of Chemistry, UB

1. Pharmacology and toxicology 2020-2024 (Bachelor's degree in Medicinal and Pharmaceutical Chemistry)
2. Metabolism and metabolites 2019-2024 (Bachelor's degree in Pharmaceutical Chemistry)
3. Medical biochemistry 2020-2024 (Master's degree in Medicinal and Cosmetic Chemistry)
4. Special chapters in medical biochemistry 2022-2024 (Master's degree in Biomolecules)

Courses taught in the ERASMUS+ program

5. Yeast cells - a tool for chemogenomics screening, BTU, Bursa, Turkey, 2023
6. Yeast cell engineering for heavy metal hyperaccumulation, BTU, Bursa, Turkey, 2023
7. *Saccharomyces cerevisiae* - old concepts and new questions, AUT, Thessaloniki, Greece, 2021
8. Coffee and caffeine, AUT, Thessaloniki, Greece, 2021
9. Engineering yeast cells to hyperaccumulate heavy metals, UG, Gdansk, Poland, 2019

CIVIS programs

- Humanities within Medicine and Health, UNIL, *Lausanne, Switzerland*, BIP Program 2025
- Maternal and neonatal vaccination, WITS, Johannesburg, South Africa, BIP Program 2025
- Experimental Models in Molecular Biomedicine, UAM, Madrid, Spain, BIP Program 2023, 2024, 2025
- Natural products: Applications, Formulations, NKUA, Athens, Greece, BIP Program Formulations, 2024
- From medicinal plants to drug products, NKUA, Athens, Greece, BIP Program, 2023, 2024
- Food chemistry, nutrition and health, circular economy and future food sustainability, Webinar, 2022
- Current progress in the development of novel antimicrobials, Webinar, 2022
- Workshop on traditional medicines: A sustainable lifestyle towards climate change, NKUA, Athens, Greece, Workshop 2022
- Summer school on natural drug products, NKUA, Athens, Greece, 2022

Organisational/managerial skills

Coordinator, on behalf of UB, of the EUROPEAN MASTER CIVIS program ***Drug development: from natural products to formulations and applications***
Coordinating Bachelor and Master Thesis since 2005 (>25), organizing seminars, laboratory works, and courses for students,
Secretary of the Biomolecules master's program within the Faculty of Chemistry, University of Bucharest.

Technical skills and competences

Techniques of cellular biology, recombinant DNA technology, PCR analysis, techniques of immobilization of biomolecules on the solid supports and physical characterization of this supports, standard techniques of yeast genetics, synthesis and purification of organic compounds, synthesis and purification of organic compounds, pharmaceutical manufacturing and technology, experimental protocols for developing microarray technology with clinical application in allergy disease, molecular and bioinformatics approaches to engineer yeast designed to hyperaccumulate heavy metals without interfering with the normal metabolism, maintaining the biologic resources (cell lines, plasmids, reagents, etc.), obtaining and characterisation of hydrogels membranes.

Professional competences

Primarily responsible for all drug distribution and control activities from the assigned pharmacy area. Evaluates, processes, and monitors physician orders for patient medications and other pharmaceutical supplies, serves as a reliable source of drug information, maintains computer records and patient profiles, and interacts with patients/families to provide medication counselling. Responsible for the safe, accurate dispensing of pharmaceuticals, in accordance with applicable laws which promote pharmaceutical care in the interest of positive patient outcomes. Monitoring drug therapy for contraindications, incompatibilities, allergies, and dosing errors. This includes monitoring dosing for patients based on age and renal function. Providing current drug information which includes a thorough understanding of new medications, dosage requirements, indications, contraindications, pharmacology, pharmacokinetics, side effects and adverse reactions and precautions. Assisting in drug inventory maintenance, assisting in quality improvement activities and directs pharmacy technicians in their daily activities. Supervising pharmacy technician functions and checking the accuracy of technician distribution functions in order to assist and/or fill-in when workload dictates. Participates in the training of new employees.

Teaching experience

Maintaining subject matter currency; Developing and revising curriculum, including curriculum delivered via different modalities; Using multimedia technologies and dedicate programs; Assessing student learning and program level outcomes; Collegial participation in departmental and discipline-specific professional activities in an environment that promotes innovation, teaching; Working with college committees and other organizations and involving in co-curricular and extra-curricular activities; Assessing student learning outcomes and active participation in training and mentoring of graduate students.

Digital competence

Information processing	Communication	SELF-ASSESSMENT			Problem solving
		Content creation	Safety		
PROFICIENT USER	PROFICIENT USER	PROFICIENT USER	INDEPENDENT USER	INDEPENDENT USER	
<ul style="list-style-type: none"> Very good command of Microsoft Office™ tools - Word, Excel, PowerPoint Very good command of Adobe Professional and Origin™ applications, Biorender, ChemDraw Very good knowledge of using the internet, search engines, social networks and other web resources Developed ability to use Google products: Docs, Calendar, Analytics, App Engine, Scholar. 					

Driving licence

B licence driving

ADDITIONAL INFORMATION

Publications

1. Gogianu LI, **Ruta LL**, Popa CV, Ghenea S, Farcasanu IC. KCS1 and VIP1, the genes encoding yeast phosphoinositol pyrophosphate synthases, are required for Ca²⁺-mediated response to dimethylsulfoxide (DMSO). *FEBS Open Bio*. 2025 Apr 11
2. Gogianu LI, **Ruta LL**, Farcasanu IC. Shedding Light on Calcium Dynamics in the Budding Yeast: A Review on Calcium Monitoring with Recombinant Aequorin. *Molecules*. 2024; 29(23):5627.
3. Gogianu LI, **Ruta LL**, Farcasanu IC, Kcs1 and Vip1: The Key Enzymes behind Inositol Pyrophosphate Signaling in *Saccharomyces cerevisiae*. *Biomolecules* **2024**, 14, 152.
4. Stan D, **Ruta LL**, Bocancia-Mateescu L-A, Mirica A-C, Stan D, Micutz M, Brincoveanu O, Enciu A-M, Codrici E, Popescu ID, et al. Formulation and Comprehensive Evaluation of Biohybrid Hydrogel Membranes Containing Doxycycline or Silver Nanoparticles. *Pharmaceutics*. 2023; 15(12):2696.
5. New Heterocyclic Compounds from Oxazol-5(4H)-one and 1,2,4-Triazin-6(5H)-one Classes: Synthesis, Characterization and Toxicity Evaluation. SF Barbuceanu, EV Rosca, TV Apostol, LI Socea, C Draghici, IC Farcasanu IC, **LL Ruta**, GM Nitulescu, L Isculescu, EM Pahontu, et al. *Molecules*.; 28(12):4834, 2023
6. Exploring the Impact of Alginate—PVA Ratio and the Addition of Bioactive Substances on the Performance of Hybrid Hydrogel Membranes as Potential Wound Dressings, D Stan, E Codrici, AM Enciu, E Olewnik-Kruszkowska, G Gavril, **LL Ruta**, C Moldovan, O Brincoveanu, LA Bocancia-Mateescu, AC Mirica, et al., *Gels*. 9(6):476, 2023
7. Nanobodies as Diagnostic and Therapeutic Tools for Cardiovascular Diseases (CVDs). LA Bocancia-Mateescu, D Stan, AC Mirica, MG Ghita, D Stan, **LL Ruta**. *Pharmaceutics*.; 16(6):863, 2023
8. Enantiomeric pairs of copper(ii) complexes with tridentate Schiff bases derived from R- and S-methionine: the role of decorating organic groups of the ligand in crystal packing and biological activity, C Maxim, CD Ene, I Nicolau, **LL Ruta**, IC Farcasanu - *Dalton Transactions*, 51, 18383-18399, 2022
9. Insights into Structure and Biological Activity of Copper(II) and Zinc(II) Complexes with Triazolopyrimidine Ligands, A Argaseala, C Maxim, M Badea L Ioniță, MC Chifiriuc, AM Rostas, M Bacalum, M Răileanu, **LL Ruta**, IC Farcașanu et al. *Molecules*.; 27(3):765, 2022
10. Antiproliferative and antibacterial properties of biocompatible copper (II) complexes bearing chelating N,N-heterocycle ligands and potential mechanisms of action, R Olar, M Badea, M Bacalum, M Răileanu, **LL Ruta**, IC Farcașanu, AM Rostas, ID Vlaicu, M Popa, MC Chifiriuc, *Biometals* 34, 1155–1172, 2021.
11. Biological Activity of Triazolopyrimidine Copper(II) Complexes Modulated by an Auxiliary N-N-Chelating Heterocycle Ligands, **LL Ruta**, IC Farcasanu, M Bacalum, M Răileanu, A M Rostas, C Daniliuc, MC Chifiriuc, L Măruțescu, M Popa, M Badea, EE Iorgulescu, R Olar, *Molecules* 26 (22) 6772, 2021
12. *Saccharomyces cerevisiae* Concentrates Subtoxic Copper onto Cell Wall from Solid Media Containing Reducing Sugars as Carbon Source, **LL Ruta**, IC Farcasanu, *Bioengineering* 8 (3), 36, 2021
13. Coffee and Yeasts: From Flavor to Biotechnology, LL Ruta, IC Farcasanu, *Fermentation* 7 (1), 9, 2021
14. Interaction between Polyphenolic Antioxidants and *Saccharomyces cerevisiae* Cells Defective in Heavy Metal Transport across the Plasma Membrane, **LL Ruta**, IC Farcasanu, *Biomolecules* 10 (11), 1512, 2020
15. *Saccharomyces cerevisiae* cells lacking transcription factors Skn7 or Yap1 exhibit different susceptibility to cyanidin, **LL Ruta**, E Oprea, CV Popa, IC Farcasanu, *Helvion* 6 (10), e05352, 2020
16. *Saccharomyces cerevisiae* and caffeine implications on the eukaryotic cell, **LL Ruta**, IC Farcasanu, *Nutrients* 12 (8), 2440, 2020
17. Insight on spectral, thermal and biological behaviour of some Cu (II) complexes with saturated pentaazamacrocyclic ligands bearing amino acid residues, R Olar, E Pătrașcu, M Badea, N Čelan Korošič, R Cerc Korošec, **LL Ruta**, IC Farcașanu, MN Grecu, G Guillaumet, *Journal of Thermal Analysis and Calorimetry*, 1-12, 2020
18. Cytotoxicity of Oleandrin Is Mediated by Calcium Influx and by Increased Manganese Uptake in *Saccharomyces cerevisiae* Cells, **LL Ruta**, CV Popa, IC Farcasanu, *Molecules*, 25 (18), 4259
19. Copper (II) complexes with mixed heterocycle ligands as promising antibacterial and antitumor species, A M Rostas, M Badea, **LL Ruta**, IC Farcasanu, C Maxim, MC Chifiriuc, M Popa, M Luca, N Celan Korosin, R Cerc Korosec, M Bacalum, M Raileanu, R Olar, *Molecules* 25 (17), 3777
20. Cobalt removal by *Saccharomyces cerevisiae* cells expressing *Arabidopsis thaliana* metallothioneins AtMT4a and AtMT4b, **Ruta LL**, Martin EC, Petrescu AJ, Farcasanu IF, *IJASEAT*, 7 (4), 45-50, 2019
21. Heavy metal accumulation by *Saccharomyces cerevisiae* cells expressing Cup1 cystein rich oligopeptides targeted to the inner face of plasma membrane, Farcasanu IF, Neagoe AD, **Ruta LL**, *IJASEAT*, 7 (4), 39-44, 2019
22. Anthocyanins and Anthocyanin - Derived Products in Yeast-Fermented Beverages. **Ruta LL**, Farcasanu IC, *Antioxidants*, 8, 182, 2019
23. Dietary Anthocyanins and Stroke: A Review of Pharmacokinetic and Pharmacodynamic Studies, Manolescu BN, Oprea E, Mișitelu M, **Ruta LL**, Farcasanu, IC, *Nutrients*, 11, 1479, 2019
24. Manganese suppresses the haploinsufficiency of heterozygous trpy1Δ/TRPY1 *Saccharomyces cerevisiae* Cells and stimulates the TRPY1-dependent release of vacuolar Ca²⁺ under H₂O₂ stress, **Ruta LL**, Nicolau I, Popa CV, Farcasanu IC, *Cells*, 8(2),79, 2019
25. Accumulation of Ag(I) by *Saccharomyces cerevisiae* Cells Expressing Plant Metallothioneins, **Ruta LL**, Banu M, Neagoe AD, Kissen R, Bones AM, Farcasanu IF, *Cells*, 7 (266): 1-14, 2018
26. Epigallocatechin-3-O-gallate, the main green tea component, is toxic to *Saccharomyces cerevisiae* cells lacking the Fet3/Ftr1, **Ruta LL**, Popa CV, Nicolau I, Farcasanu IC, *Food Chemistry*, 266: 292-298, 2018

27. Anchoring plant metallothioneins to the inner face of the plasma membrane of *Saccharomyces cerevisiae* cells leads to heavy metal accumulation, **Ruta LL**, Lin YF; Kissen R, Nicolau I, Neagoe AD, Ghenea S, Bones AM, Farcasanu IC, *Plos One*, 12,5: 1-19, 2017
28. Heavy metal accumulation by *Saccharomyces cerevisiae* cells armed with metal binding hexapeptides targeted to the inner face of the plasma membrane, **Ruta LL**, Kissen R, Nicolau I, Neagoe AD, Petrescu AJ, Bones AM, Farcasanu IC, *Applied Microbiology and Biotechnology*, 101, 14: 5749-5763, 2017
29. Calcium signaling and copper toxicity in *Saccharomyces cerevisiae* cells, **Ruta LL**, Popa CV, Nicolau I, Farcasanu IC, *Environmental Science and Pollution Research*, 23(24):24514-24526, 2016
30. Calcium signaling mediates the response to copper toxicity in *Saccharomyces cerevisiae* cells, **Ruta LL**, Nicolau I, Farcasanu IC, *Yeast*, 32: S225-S226, 2015
31. Interaction between lanthanide ions and *Saccharomyces cerevisiae* cells, Ene, CD; **Ruta LL**, Nicolau I, et al., *Journal of Biological Inorganic Chemistry*, 20,7: 1097-1107, 2015
32. *KCS1* and *VIP1*, two genes encoding the yeast inositol hexakisphosphate kinases, are required for the Ca^{2+} -mediated response to dimethylsulfoxide (DMSO), Farcasanu IC, Popa CV, **Ruta LL**, *Yeast*, 32, S8, 2015
33. Calcium signaling mediates the response to cadmium toxicity in *Saccharomyces cerevisiae* cells, **Ruta LL**, Popa V.C., Nicolau I., Danet A.F., Iordache V., Neagoe ADD., Farcasanu IC, *FEBS Letters*, 588, 3202–3212, 2014
34. *Vaccinium corymbosum* L. (blueberry) extracts exhibit protective action against cadmium toxicity in *Saccharomyces cerevisiae* cells, Oprea E, **Ruta LL**, Nicolau I, Popa CV, Neagoe AD, Farcasanu IC, *Food Chemistry*, 152:516-21, 2014
35. Optical manipulation of *Saccharomyces cerevisiae* cells reveals that green light protection against UV irradiation is favoured by low Ca^{2+} and requires intact UPR pathway, Farcasanu IC, Mitrica R, Cristache L, Nicolau I, **Ruta LL**, Pislaru L, Comorosan S, *FEBS Letters*, 587 (21): 3514-3521, 2013
36. The dual action of epigallocatechin gallate (EGCG), the main constituent of green tea, against the deleterious effects of visible light and singlet oxygen-generating conditions as seen in yeast cells, Mitrica R, Dumitru I, **Ruta LL**, Ofiteru AM, Farcasanu IC, *Molecules*, 17(9):10355-10369, 2012
37. Overexpression of the *PHO84* gene causes heavy metal accumulation and induces Ire1p-dependent unfolded protein response in *Saccharomyces cerevisiae* cells, Ofiteru A.M. & **Ruta LL**, Rotaru C, Dumitru I, Ene C, Neagoe AD, Farcasanu IC, *Applied microbiology and biotechnology*, 94(2):425-435, 2012
38. Exogenous oxidative stress induces Ca^{2+} release in the yeast *Saccharomyces cerevisiae*, Popa C, Dumitru I, **Ruta LL**, Danet AF, Farcasanu IC, *FEBS Journal*, 277 (19):4027–4038, 2010
39. Study of CRP immobilization on nanostructured silicon, Simion M, **Ruta LL**, Matache M, Kleps I, Miu M, Paraschivescu CC, Brăgaru A, Ignat T, *Material Science and Engineering*, 169 (1,3): 67–72, 2010
40. Removing heavy metals from synthetic effluents using “kamikaze” *Saccharomyces cerevisiae* cells, **Ruta L**, Paraschivescu C, Matache M, Avramescu S, Farcasanu IC, *Applied microbiology and biotechnology*, 85 (3): 763-771, 2010
41. Characterization of self-assembled monolayers (SAMs) on silicon substrate comparative with polymer substrate for *Escherichia coli* O157:H7 detection, Moldovan C; Mihăilescu C; Stan D; **Ruta L**, Iosub R, Gavrilă R, Munizer P, Schiopu V, *Applied Surface Science*, 255 (22): 8953-8959, 2009
42. Porous Silicon Used As Support for Protein Microarray, Simion M, **Ruta L**, Mihailescu C, Kleps I, Bragaru A, Miu M, Ignat T, Baciul I, *Superlattices and Microstructures*, 46 (1-2):69-76, 2009
43. Porous/Gold surface Preparation for Protein Microarray Applications, Simion M, **Ruta L**, Kleps I, Stan D, Bragaru A, Miu, Ignat T, Dinescu A, Matache M, *Romjst*, 12 (2), 385–393, 2009
44. Convenient preparation of unsymmetrical 2,5-disubstituted 1,3,4-oxadiazoles promoted by Dess-Martin reagent, Dobrota C, Paraschivescu CC, Dumitru I, Matache M, Baciul I, **Ruta LL**, *Tetrahedron Letters*, 50 (17): 1886-188, 2009
45. Determination of diosmin in pharmaceutical formulations using Fourier transform infrared spectrophotometry. Bunaciu AA, Udristoiu GE, **Ruta L** et al., *Saudi Pharmaceutical Journal*, 17(4): 303-6, 2009
46. Synthesis of fused dihydro-pyrimido[4,3-d]coumarins using Biginelli multicomponent reaction as key step, Matache M, Dobrota C, Bogdan ND, Dumitru I, **Ruta L** et al., *Tetrahedron*, 65(31): 5949-5957, 2009
47. Synthesis of new substituted indan-1,3-diones, Stan D, Matache M, **Ruta L** et al., *Revista De Chimie*, 60 (9): 876-879, 2009
48. Manipulation of Ni^{2+} tolerance of *Sacchchromyces cerevisiae* cells: a primary step to bioremediation by removal and recovery of Ni^{2+} from contaminated waters, Farcasanu IC, Paraschivescu C, **Ruta L**, Oprea E, Avramescu S, *Revue Roumaine de Chimie*, 53(8), 647–651, 2008
49. Characterization of *Sacchchromyces cerevisiae* mutants resistant to high concentrations of Co^{2+} : A primary step to bioremediation by removal and recovery of Co^{2+} from contaminated waters, Farcasanu IC, Oprea E, Paraschivescu C, **Ruta L**, Avramescu S, *Revista de Chimie*, 59 (9), 1041-1045, 2008
50. New non-symmetrical 2,5-disubstituted 1,3,4-oxadiazoles bearing a benzo[β] thiophene moiety, Paraschivescu CC, Dumitrascu F, Draghici C, **Ruta L**, Matache M, Baciul I, Dobrota C, *Arkivoc*, 198-206, 2008

Conferences

1. Selection of GFP and mCherry nanobodies using the YSD method, **Ruta LL**, Farcasanu IC, poster, 48th Annual Conference on yeast, 14-17 May 2024, Smolenice, Slovakia
2. Exploring Metal-Binding Hexatriacontahexapeptide Tags for Protein Modification, Farcasanu IC, Ruta LL, poster, 48th Annual Conference on yeast, 14-17 May, 2024, Smolenice, Slovakia
3. Yeast surface display platform for the selection of GFP and mCherry nanobodies-**LL Ruta**, IC Farcasanu, oral presentation, XXVII Biochemistry Congress, 10-14 september 2023, Stary Smokovek, Slovakia
4. Hexatriacontapeptides designed as metal-binding tags, Farcasanu IC, Martin E, **Ruta LL**, oral presentation, XXVII Biochemistry Congress, 10-14 september 2023, Stary Smokovek, Slovakia
5. Synthesis, characterization and toxicity assessment against *Saccharomyces cerevisiae* of some new compounds from oxazol-5-(4H)-ones and 1,2,4-triazin-6(5H)-ones classes, EV Rosca, IC Farcasanu, **LL Ruta**, TV Apostol, L Iscrulescu, C Draghici, F Barbuceanu, S Baraitareanu, SF Barbuceanu, 21st Romanian International Conference on Chemistry and Chemical Engineering, September 4-7, 2019, Constanta - Mamaia, Romania
6. A chemogenomic screen reveals YPL257W as a pleiotropic determinant of polyphenol and heavy metal resistance in *Saccharomyces cerevisiae*, Nicolau I, **Ruta LL**, Farcasanu IC, 6th International Synthetic & Systems Biology Summer School, 22-26.07.2019, Pisa, Italia
7. Decorated apatitic materials: synthesis, characterization and potential application, Brazdis RI, Fierascu RC, Farcasanu IC, **Ruta LL**, Ditu LM, Sutan AN, Nicolae CA, Raditoiu V, Somoghi R, Soare CL, Priorities of Chemistry for a Sustainable Development, 15th Edition, Bucharest, Romania, 30 Oct.- 1 Nov 2019
8. Heavy metal accumulation by *Saccharomyces cerevisiae* cells expressing Cup1cystein-rich oligopeptides targeted to the inner face of the plasma membrane, Farcasanu IC, Neagoe AD, **Ruta LL**, International Conference on Chemical and Environmental Science, Beijing, China, 29 -30 August 2019.
9. Cobalt removal by *Saccharomyces cerevisiae* cells expressing *Arabidopsis Thaliana* metallothioneins at MT4A and at MT4B, **Ruta LL**, Martin EC, Petrescu AJ, Farcasanu IC, International Conference on Chemical and Environmental Science, Beijing, China, 29 -30 August 2019.
10. Synthesis, characterization, and evaluation of cytotoxic, phytotoxic and antimicrobial properties of decorated apatitic materials, Brazdis RI, **Ruta LL**, Farcasanu IC, Fierascu RC, Ditu LM, Sutan AN, Soare CL, Current trends in natural sciences, International Symposium, Pitești, Romania, 18 – 20 April 2019
11. Calcium mediated response to Cd²⁺ and Cu²⁺ stress in *Saccharomyces cerevisiae* cells, **Ruta LL**, Popa CV, Farcasanu IC. 28th International Conference on Yeast Genetics and Molecular Biology (ICYGMB), Prague, Czech Republic, August 27 – September 1, 2017
12. Determination of chitin in the cell wall of *Saccharomyces cerevisiae* by fluorescence spectroscopy, Dahham A, Popa CV, **Ruta LL**, Farcasanu IC, International Symposium Chemistry Priorities for Sustainable Development, Ed. XIII, 25-27 October 2017, Bucharest, Romania
13. Biological synthesis of silver nanoparticles using *Saccharomyces cerevisiae* cells expressing plant metallothioneins, **Ruta LL**, Banu M, Lin YF, Kissen R, Bones AM, Farcasanu IC, Norwegian Plant Biology, Trondheim, Norway, 15-17 June 2016
14. Molecular aspects of Ln³⁺ toxicity revealed through a genome-wide screen in *Saccharomyces cerevisiae*, **Ruta LL**, Ene CD, Nicolau I, Neagoe AD, Farcasanu IC, PYFF6 - 6th Conference on Physiology of Yeasts and Filamentous Fungi, Lisbon, Portugal, 10-15 July 2016
15. Calcium signaling mediates the response to copper toxicity in *Saccharomyces cerevisiae* cells, **Ruta LL**, Nicolau I, Farcasanu IC, 27^o International conference on yeast genetics and molecular biology, Levico Terme, TRENTO, Italy, 6-12 Sept. 2015
16. Targeting metal-binding oligopeptides to the inner face of the plasma membrane in *Saccharomyces cerevisiae* cells, Farcasanu IC, **Ruta LL**, Nicolau I, Neagoe AD, International Specialized Symposium on Yeasts (ISSY), Perugia, Italy, 13–17 Sept. 2015
17. Structural, functional and phylogenetic approach to the study of YAP family proteinase, Ofiteru AM, **Ruta LL**, Farcasanu IC, Annual International Conference on Cellular and Molecular Biotechnologies for Medical Applications, published in Romanian Journal of Biochemistry, Volume 49, Supplement, 2012, Romanian Academy, Bucharest, Romania, 13-14 September 2012
18. Effect of *PHO84* overexpression on heavy metal accumulation in overexpression on heavy metal accumulation in *Saccharomyces cerevisiae* cells, Ofiteru AM, Ene CD, **Ruta LL**, Farcasanu I, resume published in "10e rencontre Levures Modèles & Outils"; Congrès Levures Modèles et Outils, Toulouse, Toulouse, France, 2-4 April 2012
19. Evaluation of the interface between a nanostructured surface and proteins using microarray technology, Simion M, Matache M, Miu M, **Ruta LL**, Bragaru A, E-MRS, Spring Meeting, Strasbourg, France, 7-11 June 2010
20. Synthesis of new selective estrogen receptor modulators (SERMs), Paraschivescu CC, Bogdan ND, Matache M, Nedelcu M, Chiric C, **Ruta LL**, Dumitru I, Farcasanu IC, Funeriu DP, ICOSECs, Bucharest Romania, 15-17 Sept. 2010
21. Evaluation of porous silicon as a functional surface for protein arrays, Simion M, **Ruta LL**, Matache M, Miu M, Bragaru A, Cortoian L, Kleps I, 7th International Conference - Porous semiconductors - Science and technology, Valencia, Spain, 14 - 19 Mar. 2010

22. Laser scanning calibration for porous silicon substrate useful in microarray applications, Simion M, Kleps I, **Ruta LL**, Lazar L, Bragaru A, Miu M, Baciu I, 32 th International Semiconductor Conference – CAS, Sinaia, Romania, 12-14 Oct. 2009
23. Biohybrid surface microfabrication for optimal detection of CRP, Simion M, **Ruta LL**, Kleps I, Miu M, Paraschivescu C, Ignat T, Bragaru A, E-MRS, Spring Meeting, Strasbourg France, 8 -12 June 2009
24. Study of CRP immobilization on nanostructured silicon, **Ruta LL**, Simion M, Kleps I, Miu M, Matache M, Ignat T, Bragaru A, E-MRS Spring Meeting, Strasbourg France, 8-12 June 2009
25. Porous Silicon Layer For Protein Immobilization, Simion M, Miu M, Kleps I, Bragaru A, Ignat T, **Ruta LL**, Baciu I, Mihailescu C, Stan D, First International Conference on Multifunctional, Hybrid and Nanomaterials, Tours, France, 15-19 Mar. 2009
26. Biohybrid surface preparation for protein/DNA microarray applications, Simion M, **Ruta LL**, Kleps I, Miu M, Mihailescu C, Ignat T, Bragaru A, E-MRS Spring Meeting, Strasbourg France, 26-30 May 2008
27. Nano Porous Silicon Used As Support for Protein Microarray, Simion M, Kleps I, Bragaru A, Miu M, **Ruta L**, Mihailescu C, Stan D, NanoSea 2008, Second International Conference on Nanostructures Self-Assembly, Rome, Italy, 7-10 July 2008
28. Microarray imaging from artifacts to standardisation, Kleps I, Simion M, Bragaru A, Miu M, Ignat T, **Ruta L**, Mihailescu C, 17th International Laser Physics Workshop, Trondheim Norvegia, 30 June-4 July 2008
29. Laser scanning calibration for porous silicon substrate used in microarray technology, Simion M, Kleps I, Bragaru A, Miu M, Ignat T, **Ruta LL**, 17th International Laser Physics Workshop, Trondheim (Norvegia), 30 June-4 July 2008
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