

PERSONAL INFORMATION

Farcașanu Ileana Cornelia



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Sex **F** | Date of birth 25/07/1960, | Nationality Romanian

WORK EXPERIENCE

2024-ongoing

Professor

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

Teaching and research

Faculty of Chemistry, Department of Anorganic, Organic Chemistry, Biochemistry and Catalysis.

2006-2024

Associated professor

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

Teaching and research

Faculty of Chemistry, Department of Organic Chemistry

1991-2006

Lecturer, Professor assistant

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

Teaching and research

Faculty of Chemistry, Department of Organic Chemistry

2005

Invited researcher

Research

Hiroshima University, Graduate School of Advanced Sciences of Matter, Department of Molecular Biotechnology (Japan)

2002-2003

Postdoctoral research assistant

Research

Molecular studies of mechanisms involved in regulation of tolerance to sodium and heavy metals in *Arabidopsis thaliana*

University of Glasgow, Institute of Biology and Life Science (IBLS), Department of Biochemistry and Molecular Biology (UK)

1999-2001

Postdoctoral researcher

Research

Molecular mechanisms involved in the unfolded protein response in yeast and mammalian cells

Employed by the Japan Science and Technology Corporation (JST) at Nara Institute of Science and Technology (NAIST), Japan

1990-2001

Professor's assistant

Teaching and research

Faculty of Chemistry, Department of Organic Chemistry

1985-1990

Researcher

Research

The National Institute of Oncology, Bucharest, Romania

EDUCATION AND TRAINING

1996-1999 Doctor of Engineering

EQF
Level
8

Name and type of organisation	Hiroshima University, Graduate School of Engineering, Department of Fermentation Technology, Japan, Funded by The Ministry of Culture and Education in Japan (Monbusho)
Principal subjects skills covered	Molecular biology, Biotechnology, Biochemistry

1994-1996 Master of Engineering

EQF
Level
8

Name and type of organisation	Hiroshima University, Graduate School of Engineering, Department of Fermentation Technology, Japan, Funded by The Ministry of Culture and Education in Japan (Monbusho)
Principal subjects skills covered	Molecular biology, Biotechnology, Biochemistry

1979-1984 Master of Science

EQF
Level
17

Name and type of organisation	Polytechnic University of Bucharest, Faculty of Technological Chemistry, Department of Biochemistry
Principal subjects skills covered	Biochemistry

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B2	B2	B2

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

EXPERTISE FIELD

- ☐ Biochemistry and Molecular Biology
- ☐ Yeast Genetics (*Saccharomyces cerevisiae*)
- ☐ Molecular Mechanisms of Cellular Stress Response
- ☐ Chemogenomic Screenings
- ☐ Bioremediation

EXTRACURRICULAR ACTIVITIES

Activities for improving the faculty visibility (Chimia prieten sau dușman, Noaptea cercetătorilor, Student pentru o zi, Zilele Porților Deschise).

MENTOR OF STUDENTS

- ☐ Bachelor- 12 students (last 5 years)
- ☐ Master of Science-10 students (last 5 years)

Courses:

Undergraduate: General Biochemistry, Biochemistry and Molecular Biology, Cell Biology, Biochemistry of Nucleic Acids, Recombinant DNA Technology

Master: Advanced Biochemistry, Clinical Biochemistry, Highthroughput Screening Techniques

- ☐ Coordinator of Master's program (Biomolecule), member of PhD committees.

VARIA

- Editorial Activity-Reviewer for specialized journals: PLOS ONE, Current Microbiology, Applied Microbiology and Biotechnology, Applied Energy, Molecules, Food Chemistry, Pakistan Journal of Pharmaceutical Sciences, Revue Roumaine de Chimie, Romanian Journal of Biochemistry
- Independent evaluator for Horizon 2020, FP7, and national competitions
- Member of doctoral committees (over 30 national and 12 international evaluations)
- Founding member of the Interdisciplinary Doctoral School at the University of Bucharest
- Director of the Center for Applied Organic Chemistry, affiliated with the Faculty of Chemistry, University of Bucharest.

ISI PUBLICATIONS

1. Gogianu, L. I., Ruta, L. L., Popa, C. V., Ghenea, S., & Farcasanu, I. C. (2025, April 11). KCS1 and VIP1, the genes encoding yeast phosphoinositol pyrophosphate synthases, are required for Ca^{2+} -mediated response to dimethylsulfoxide (DMSO). FEBS Open Bio. Advance online publication. <https://doi.org/10.1002/2211-5463.70039>
2. Gogianu, L. I., Ruta, L. L., & Farcasanu, I. C. (2024). Shedding light on calcium dynamics in the budding yeast: A review on calcium monitoring with recombinant aequorin. *Molecules*, 29(23), Article 5627. <https://doi.org/10.3390/molecules29235627>
3. Gogianu, L. I., Ruta, L. L., & Farcasanu, I. C. (2024). Kcs1 and Vip1: The key enzymes behind inositol pyrophosphate signaling in *Saccharomyces cerevisiae*. *Biomolecules*, 14(2), 152. <https://doi.org/10.3390/biom14020152>
4. Maxim, C., Ene, C. D., Nicolau, I., Ruta, L. L., & Farcasanu, I. C. (2022). 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. *Dalton Transactions*, 51, 18383–18399. <https://doi.org/10.1039/D2DT02620A>
5. Argăseală, A., Maxim, C., Badea, M., Ioniță, L., Chifiriuc, M. C., Rostas, A. M., Bacalum, M., Răileanu, M., Ruță, L. L., Farcășanu, I. C., Iorgulescu, E. E., & Olar, R. (2022). *Insights into structure and biological activity of Copper(II) and Zinc(II) complexes with triazolopyrimidine ligands*. *Molecules*, 27(3), 765. <https://doi.org/10.3390/molecules27030765>
6. Olar, R., Badea, M., Bacalum, M., Răileanu, M., Ruta, L. L., Farcasanu, I. C., Rostas, A. M., Vlaicu, I. D., Popa, M., Chifiriuc, M. C. (2021). Antiproliferative and antibacterial properties of biocompatible Copper(II) complexes bearing chelating N,N-heterocycle ligands and potential mechanisms of action. *Biometals*, 34(5), 1155–1172. <https://doi.org/10.1007/s10534-021-00334-9>
7. Ruta, L. L., Farcasanu, I. C., Bacalum, M., Răileanu, M., Rostas, A. M., Daniliuc, C., Chifiriuc, M. C., Măruțescu, L., Popa, M., Badea, M., Iorgulescu, E. E., & Olar, R. (2021). Biological activity of triazolopyrimidine Copper(II) complexes modulated by an auxiliary N-N-chelating heterocycle ligands. *Molecules*, 26(22), 6772. <https://doi.org/10.3390/molecules26226772>
8. Ruta, L. L., & Farcasanu, I. C. (2021). *Saccharomyces cerevisiae concentrates subtoxic copper onto cell wall from solid media containing reducing sugars as carbon source*. *Bioengineering*, 8(3), 36. <https://doi.org/10.3390/bioengineering8030036>
9. Ruta, L. L., & Farcasanu, I. C. (2021). *Coffee and yeasts: From flavor to biotechnology*. *Fermentation*, 7(1), 9. <https://doi.org/10.3390/fermentation7010009>
10. Ruta, L. L., & Farcasanu, I. C. (2020). *Interaction between polyphenolic antioxidants and Saccharomyces cerevisiae cells defective in heavy metal transport across the plasma membrane*. *Biomolecules*, 10(11), 1512. <https://doi.org/10.3390/biom10111512>
11. Ruta, L. L., Oprea, E., Popa, C. V., & Farcasanu, I. C. (2020). *Saccharomyces cerevisiae cells lacking transcription factors Skn7 or Yap1 exhibit different susceptibility to cyanidin*. *Heliyon*, 6(10), e05352. <https://doi.org/10.1016/j.heliyon.2020.e05352>
12. Ruta, L. L., & Farcasanu, I. C. (2020). *Saccharomyces cerevisiae and caffeine implications on the eukaryotic cell*. *Nutrients*, 12(8), 2440. <https://doi.org/10.3390/nu12082440>
13. Ruta, L. L., Popa, C. V., & Farcasanu, I. C. (2020). *Cytotoxicity of oleandrin is mediated by calcium influx and by increased manganese uptake in Saccharomyces cerevisiae cells*. *Molecules*, 25(18), 4259. <https://doi.org/10.3390/molecules25184259>

BREVETS

Roșca EV., Barbuceanu SF, Apostol TV, Manda G, Draghici C, Farcasanu IC, Neagoe IV, Surcel M, Ruta LL, Nitulescu GM, Barbuceanu F, Iscrulescu L, Dinu Parvu CE, Fluorescent, non-cytotoxic 4-(4-(dialkylamino)benzylidene)oxazol-5(4H)-one derivatives with biomedical applications containing an arylsulfonylphenyl radical in the 2-position, Invention patent, RO 134761/30.12.2020.

CHAPTER OF BOOKS

- Oprea, E., Ruta, L. L., & Farcasanu, I. C. (2019). Pharmacological aspects and health impact of sports and energy drinks. In Sports and Energy Drinks. <https://doi.org/10.1016/B978-0-12-815851-7.00003-6>
- Farcasanu, I. C., Popa, C. V., & Ruta, L. L. (2018). Calcium and cell response to heavy metals: Can yeast provide an answer? In Calcium and Signal Transduction. <https://doi.org/10.5772/intechopen.78941>
- Farcasanu, I. C., & Ruta, L. L. (2017). Metallothioneins, *Saccharomyces cerevisiae*, and heavy metals: A biotechnology triad? In Old Yeasts - New Questions. <https://doi.org/10.5772/intechopen.70340>
- I.C. Fărcășanu, M. Matache, *Saccharomyces Cerevisiae's* Three B-s: Baker, Brewery and Bioremediation, in Bioremediation, Editor: A.C. Mason, 2012, Nova Science Publishers, 335
- I.C. Fărcășanu, M. Matache, V. Iordache, A. Neagoe, Hyperaccumulation: a key to heavy metal bioremediation, Soil Biology, 31 (Bio-Geo Interactions in Metal-Contaminated Soils), 2012, 251.

BOOKS

Dictionary of specific terms from areas related to chemistry, Cercasov C, Lazar V, Oprea E, Popa CV, Farcasanu IC, Balotescu MC, Paraschivescu CC, Ruta LL, Ed. Univ. din Bucuresti, ISBN 978-973-737-214-7, 200 pages, 2006

PROJECTS (last 10 years)

Institutional projects - 1 project
National Projects – 1 project as team leader, 1 project as team member
International projects- 2 projects as team member