

Lista de lucrări_Farcașanu Ileana Cornelia

a) Articole indexate ISI

(AC, autor de corespondență; AP, prim autor; FI = Factor de Impact)

1. Gogianu LI, Ruta LL, Popa CV, Ghenea S, **Farcașanu IC**. *KCS1* and *VIP1*, the genes encoding yeast phosphoinositol pyrophosphate synthases, are required for Ca²⁺-mediated response to dimethylsulfoxide (DMSO). *FEBS Open Bio*, 15, 1113-1123 (2025), **AC; FI = 2,3**
2. Gogianu LI, Ruta LL, **Farcașanu IC**. Shedding light on calcium dynamics in the budding yeast: A review on calcium monitoring with recombinant aequorin. *Molecules*, 29, 5627 (2024). **AC; FI = 4,6**
3. Gogianu LI, Ruta LL, **Farcașanu IC**. Kcs1 and Vip1: The key enzymes behind inositol pyrophosphate signaling in *Saccharomyces cerevisiae*. *Biomolecules*, 14, 152 (2024). doi: 10.3390/biom14020152. **AC; FI = 5,5**
4. Ciobanu LT, Bînzari V, Dima S-O, **Farcașanu IC**, Oancea F, Constantinescu-Aruxandei D. The clothes matter—exploiting agronomical functions of trichogenic selenium nanoparticles sharing activities with biological systems wherein (were) formed. *Agronomy*, 14, 190 (2024). doi: 10.3390/agronomy14010190. **FI = 3,7**
5. Ciobanu LT, Constantinescu-Aruxandei D, Tritean N, Lupu C, Negrilă RN, **Farcașanu IC**, Oancea F. Valorization of spent brewer's yeast bioactive components via an optimized ultrasonication process. *Fermentation*, 11, 9 (2023). doi: 10.3390/fermentation9110952. **AC; FI = 3,7**
6. Barbuțeanu SF, Rosca EV, Apostol TV, Socea LI, Draghici C, **Farcașanu IC**, Ruta LL, Nitulescu GM, Iscrulescu L, Pahontu EM, Boscencu R, Saramet G, Olaru OT. New heterocyclic compounds from oxazol-5(4H)-one and 1,2,4-triazin-6(5H)-one classes: Synthesis, characterization and toxicity evaluation. *Molecules*, 28, 4834 (2023). doi: 10.3390/molecules28124834. **FI = 4,6**
7. Maxim C, Ene CD, Nicolau I, Ruta LL, Farcașanu IC. 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 Trans* 51,18383-18399 (2022) doi: 10.1039/d2dt02620a. **AC; FI = 4**
8. Argășeală A, Maxim C, Badea M, Ioniță L, Chifiriuc MC, Rostas AM, Bacalum M, Răileanu M, Ruță LL, Farcașanu IC, Iorgulescu EE, Olar R. Insights into structure and biological activity of copper(II) and zinc(II) complexes with triazolopyrimidine ligands. *Molecules*, 27, 765. doi: 10.3390/molecules27030765. **FI = 4,6**
9. Ruta LL, **Farcașanu IC**, Bacalum M, Răileanu M, Rostas AM, Daniliuc C, Chifiriuc MC, Măruțescu L, Popa M, Badea M, Iorgulescu EE, Olar R. Biological activity of triazolopyrimidine copper(II) complexes modulated by an auxiliary N-N-chelating heterocycle ligands. *Molecules*, 26, 6772 (2021). doi: 10.3390/molecules26226772. **FI = 4,92**
10. Olar R, Badea M, Bacalum M, Răileanu M, Ruță LL, **Farcașanu IC**, Rostas AM, Vlaicu ID, Popa M, Chifiriuc MC. Antiproliferative and antibacterial properties of biocompatible copper(II) complexes bearing chelating N,N-heterocycle ligands and potential

- mechanisms of action. *Biometals*, 34, 1155-1172. doi: 10.1007/s10534-021-00334-9. **FI = 3,5**
11. Ruta LL, **Farcasanu IC**. *Saccharomyces cerevisiae* concentrates subtoxic copper onto cell wall from solid media containing reducing sugars as carbon source. *Bioengineering (Basel)*, 8, 36 (2021). doi: 10.3390/bioengineering8030036. **AC; FI = 5**
 12. Ruta LL, **Farcasanu IC**. Coffee and yeast: from flavor to biotechnology. *Fermentation*, 7, 9 (2021). doi: 10.3390/fermentation7010009. **AC; FI = 5,12**
 13. Ruta LL, **Farcasanu IC**. Interaction between polyphenolic antioxidants and *Saccharomyces cerevisiae* cells defective in heavy metal transport across the plasma membrane. *Biomolecules*, 10, 1512 (2020). doi: 10.3390/biom10111512. **AC; FI = 4,87**
 14. Ruta LL, Oprea E, Popa CV, Farcasanu IC. *Saccharomyces cerevisiae* cells lacking transcription factors Skn7 or Yap1 exhibit different susceptibility to cyanidin. *Heliyon*, 6, e05352. doi: 10.1016/j.heliyon.2020.e05352. **AC; FI = 2,6**
 15. Rostas AM, Badea M, Ruta LL, **Farcasanu IC**, Maxim C, Chifiriuc MC, Popa M, Luca M, Celan Korosin N, Cerc Korosec R, Bacalum M, Raileanu M, Olar R. Copper(II) complexes with mixed heterocycle ligands as promising antibacterial and antitumor species. *Molecules*, 25, 3777 (2020). doi: 10.3390/molecules25173777. **FI = 4,41**
 16. Ruta LL, Popa CV, **Farcasanu IC**. Cytotoxicity of oleandrin is mediated by calcium influx and by increased manganese uptake in *Saccharomyces cerevisiae* cells. *Molecules*, 25, 4259 (2020). doi: 10.3390/molecules25184259. **AC; FI = 4,41**
 17. Ruta LL, **Farcasanu IC**. *Saccharomyces cerevisiae* and caffeine implications on the eukaryotic cell. *Nutrients*, 12, 2440 (2020). doi: 10.3390/nu12082440. **AC; FI = 5,71**
 18. Patrascu E, Badea M, Korosin NC, Korosec RC, Ruta LL, **Farcasanu IC**, Grecu MN, Guillaumet G, Olar R. Insight on spectral, thermal and biological behaviour of some Cu(II) complexes with saturated pentaazamacrocyclic ligands bearing amino acid residues. *J Therm Anal Calor*, 143, 173-184 (2021). doi: 10.1007/s10973-020-09259-w. **FI = 4,75**
 19. Coman AG, Paun A, Popescu CC, Hădade ND, Hanganu A, Chiritoiu G, **Farcasanu IC**, Matache M. A novel adaptive fluorescent probe for cell labelling. *Bioorg Chem*, 92, 103295 (2019). doi: 10.1016/j.bioorg.2019.103295. **AC; FI = 4,83**
 20. Manolescu BN, Oprea E, Mititelu M, Ruta LL, Farcasanu IC. Dietary anthocyanins and stroke: a review of pharmacokinetic and pharmacodynamic studies. *Nutrients*, 28, 1479 (2019). doi: 10.3390/nu11071479. **AC; FI = 4,54**
 21. Ruta LL, **Farcasanu IC**. Anthocyanins and anthocyanin-derived products in yeast-fermented beverages. *Antioxidants (Basel)*, 8, 182 (2019). doi: 10.3390/antiox8060182. **AC; FI = 5**
 22. Banu M, Simion M, Kusko M, **Farcasanu IC**. Enhancing the microarray signal detection of single nucleotide polymorphisms (SNPs) by using homemade immobilisation buffers. *Revista de Chimie*, 70, 730-735 (2019). **AC; FI = 1,75**
 23. Ruta LL, Nicolau I, Popa CV, **Farcasanu IC**. Manganese suppresses the haploinsufficiency of heterozygous *trpy1Δ/TRPY1* in *Saccharomyces cerevisiae* cells and stimulates the TRPY1-dependent release of vacuolar Ca²⁺ under H₂O₂ stress. *Cells*, 8, 79 (2019). doi: 10.3390/cells8020079. **AC; FI = 4,36**

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25. Ruta LL, Popa CV, Nicolau I, **Farcasanu IC**. Epigallocatechin-3-*O*-gallate, the main green tea component, is toxic to *Saccharomyces cerevisiae* cells lacking the Fet3/Ftr1. *Food Chem*, 266, 292-298 (2018). doi: 10.1016/j.foodchem.2018.06.029. **AC; FI = 5,39**
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27. Ruta LL, Kissen R, Nicolau I, Neagoe AD, Petrescu AJ, Bones AM, **Farcasanu IC**. Heavy metal accumulation by *Saccharomyces cerevisiae* cells armed with metal binding hexapeptides targeted to the inner face of the plasma membrane. *Appl Microbiol Biotechnol*, 101, 5749-5763 (2017). doi: 10.1007/s00253-017-8335-0. **AC; FI = 3,34**
28. Ruta LL, Lin YF, Kissen R, Nicolau I, Neagoe AD, Ghenea S, Bones AM, **Farcasanu IC**. Anchoring plant metallothioneins to the inner face of the plasma membrane of *Saccharomyces cerevisiae* cells leads to heavy metal accumulation. *PLoS One*, 12, e0178393 (2017). doi: 10.1371/journal.pone.0178393. eCollection 2017. **AC; FI = 2,76**
29. Banu M, Simion M, Varasteanu P, Savu L, **Farcasanu I**. Microarray and surface plasmon resonance experiments for HPV genotyping on Au-supports. *Romanian Journal of Information Science and Technology*, 20, 426-439 (2017).
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33. Ene CD, Ruta LL, Nicolau I, Popa CV, Iordache V, Neagoe AD, **Farcasanu IC**. Interaction between lanthanide ions and *Saccharomyces cerevisiae* cells. *J Biol Inorg Chem*, 20, 1097-1107 (2015). doi: 10.1007/s00775-015-1291-1. **AC; FI = 2,49**
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 41. Paraschivescu CC, Matache M, Dobrotă C, Nicolescu A, Maxim C, Deleanu C, **Fărcășanu IC**, Hădade ND. Unexpected formation of N-(1-(2-aryl-hydrazono)isoindolin-2-yl)benzamides and their conversion into 1,2-(bis-1,3,4-oxadiazol-2-yl)benzenes. J Org Chem, 78, 2670-2679. doi: 10.1021/jo400023z. **FI = 4,63**
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53. **Farcasanu IC**, Oprea E, Paraschivescu C, Ruta L, Avramescu S. Characterization of *Saccharomyces cerevisiae* mutants resistant to high concentrations of Co²⁺: a primary step to bioremediation by removal and recovery of Co²⁺ from contaminated waters. Revista de Chimie, 59, 1041-1045 (2008). **AP; AC; FI = 0,38**
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b) Articole ISI de tip *Proceedings*

62. Banu M, Simion M, Savu L, **Farcasanu IC**. Optimization of detection parameters on microarray Au-support for genotyping HPV strains. 2017 International Semiconductor Conference (CAS), 40th Edition, Page 59-62. **AC**
63. Ruta LL, Popa CV, Nicolau I, **Farcasanu IC**. Calcium signaling and copper toxicity in *Saccharomyces cerevisiae* cells. Environ Sci Pollut Res Int, 23, 24514-24526 (2016). doi: 10.1007/s11356-016-6666-5. **AC, FI 2,74**
64. Manolescu BN, Oprea E, **Farcasanu IC**, Berteanu M, Cercasov C. Homocysteine and vitamin therapy in stroke prevention and treatment: a review. Acta Biochim Pol, 57, 467-477 (2010). **FI 1,23**
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c) Articole BDI

1. Berghea EC, Popa LO, Dutescu MI, Meirosu M, **Farcasanu IC**, Berghea F, Bara C, Popa OM. Association of leukotriene C4 synthase A-444C polymorphism with asthma and asthma phenotypes in Romanian population. Maedica (Bucur), 10, 91-96 (2015).
2. **Farcasanu IC**, Nishiyama F, and Miyakawa T: Particle-induced X-ray emission (PIXE): a tool for multielement analysis in the yeast cells. Analele Universității din București, Seria de Chimie, **XIII**, 39-43 (2004).
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4. **Farcasanu IC**, Oprea E: Ethanol Extracts of *Salvia officinalis* exhibit antifungal properties against *Saccharomyces cerevisiae* cells. Analele Universității din București, Seria de Chimie, **XV** (2006).

d) Teza de doctorat

“Studies on the regulatory mechanisms of cellular homeostasis of the essential trace element manganese in yeast”. Hiroshima University, Japan (1999).

e) Cărți

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3. Cercasov C, Popa V, Oprea E, **Fărcășanu IC**. Compuși naturali cu acțiune terapeutică, Partea aIIa, Editura Universității din București (2009) ISBN 973737435-5

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f) Capitole în cărți

1. Oprea E, Ruta LL, **Farcasanu IC**. Pharmacological aspects and health impact of sports and energy drinks. In: *Sports and Energy Drinks*. Volume 10: The Science of Beverages, pp. 65-129 (2019). doi: 10.1016/B978-0-12-815851-7.00003-6
2. **Farcasanu IC**, Popa CV, Ruta LL. Calcium and cell response to heavy metals: can yeast provide an answer? In: Calcium and Signal Transduction, InTechOpen pp. 23-41 (2018). doi: 10.5772/intechopen.78941
3. **Farcasanu IC**, Ruta LL. Metallothioneins, *Saccharomyces cerevisiae*, and heavy metals: A biotechnology triad? In: Old Yeasts - New Questions, InTechOpen (2017). doi: 10.5772/intechopen.70340
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7. **Farcasanu IC**, Matache M. *Sacchomyces cerevisiae*'s three B-s: Bakery, Brewery, Bioremediation. In: *Bioremediation: Biotechnology, Engineering and Environmental Management* (Editor Alexander C. Mason), Nova Publishers, ISBN: 978-1-61122-730-7, (2012).