

Listă lucrări Brînza Ion:

2025:

1. Chititala, R. D., Lungu, I. I., Mitran, A.-M., Mita-Baciu, I., **Brinza, I.**, Mircea, C., Nistor, A., Hancianu, M., Iliescu, R., Hritcu, L., & Cioanca, O. (2025). *Eco-Friendly Synthesis of Silver Nanoparticles Using *Lespedeza capitata* Extract: Antioxidant and Anti-Inflammatory Properties in Zebrafish (*Danio rerio*)*. International Journal of Molecular Sciences, 26(21), 10693. <https://doi.org/10.3390/ijms262110693> IF: 4.9 | AIS: 0.71
2. **Brinza, I.**, Boiangiu, R. S., Bagci, E., Todirascu-Ciornea, E., Hritcu, L., & Dumitru, G. (2025). *Melissa officinalis* essential oil modulates oxidative balance, cholinergic activity, and cognitive performance in a scopolamine-induced zebrafish model: implications for neuroprotective strategies in cognitive disorders. Scientific Reports, 15, 38171. <https://doi.org/10.1038/s41598-025-22125-9> IF 3.9 | AIS: 1.07
3. **Brinza, I.**, Oresanya, I. O., Erdogan Orhan, I., Gok, H. N., Hritcu, L., & Boiangiu, R. S. (2025). *Mechanisms Underlying the Cognitive Benefits of *Solanum macrocarpon* Leaf n-Butanol Extract: Acetylcholinesterase Inhibition and Oxidative Stress Modulation*. Plants, 14(21), 3283. <https://doi.org/10.3390/plants14213283> IF: 4.1 | AIS: 0.7
4. Popovici, L.-F., **Brinza, I.**, Oancea, S., & Hritcu, L. (2025). *Chronic Administration of *Calendula officinalis* Ethanolic Extract Mitigates Anxiety-like Behavior and Cognitive Impairment Induced by Acute Scopolamine Exposure in Zebrafish*. Pharmaceuticals, 18(10), 1483. <https://doi.org/10.3390/ph18101483> IF: 4.8 | AIS: 0.872
5. Vamanu, E., Avram, I., Pelinescu, D. R., El-Seedi, H. R., Hritcu, L., **Brinza, I.**, Dinu, L.-D., & Boiangiu, R. S. (2025). *Neurobehavioral Protection by Prebiotic Formulations in a Scopolamine-Induced Cognitive Impaired Zebrafish Model*. Life, 15(8), 1268. <https://doi.org/10.3390/life15081268> IF: 3.4 | AIS: 0.75
6. **Brinza, I.**, Boiangiu, R. S., Todirascu-Ciornea, E., Hritcu, L., & Dumitru, G. (2025). *Foeniculum vulgare* Mill. mitigates scopolamine-induced cognitive deficits via antioxidant and neuroprotective mechanisms in zebrafish. *Molecules*, 30(13), 2858. <https://doi.org/10.3390/molecules30132858> IF: 4.8 | AIS: 0.872
7. **Brinza, I.**, Boiangiu, R. S., Honceriu, I., Budzyńska, B., Skalicka-Woźniak, K., El Sayed, N., & Hritcu, L. (2025). Enhancement of cognitive benefits and anxiolytic effects of scoparone (6,7-dimethoxycoumarin) in a zebrafish (*Danio rerio*) model of scopolamine-induced anxiety and memory impairment. *Pharmacological Research - Natural Products*, 100, 232. <https://doi.org/10.1016/j.prenap.2025.100232>

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8. **Brinza, I.**, Guliev, C., Oresanya, I. O., Gok, H. N., Erdogan Orhan, I., & Hritcu, L. (2025). **Solanum macrocarpon* L. ethanolic leaf extract exhibits neuroprotective and anxiolytic effects in scopolamine-induced amnesic zebrafish model*. *Pharmaceuticals*, 18(5), 706. <https://doi.org/10.3390/ph18050706> IF: 4.8 | AIS: 0.872
9. **Brinza, I.**, Boiangiu, R. S., Honceriu, I., Abd-Alkhalek, A. M., Osman, S. M., Eldahshan, O. A., Todirascu-Ciornea, E., Dumitru, G., & Hritcu, L. (2025). Neuroprotective potential of *Origanum majorana* L. essential oil against scopolamine-induced memory deficits and oxidative stress in a zebrafish model. *Biomolecules*, 15(1), 138. <https://doi.org/10.3390/biom15010138> IF: 4.8 | AIS: 1.152

10. **Brinza I.**, Stache B.A., Mihasan M., Gorgan D.L., El Raey M.A., El-Kashak W., Eldahshan O.A., Hritcu L.*, (2025). Sweroside Modulates Oxidative Stress and Neuroplasticity-Related Gene Expression in Scopolamine-Treated Zebrafish. *In Press. Available online February 06, 2025*. DOI: [10.2174/0118715273345712250119200430](https://doi.org/10.2174/0118715273345712250119200430) IF: 3.0 | AIS: 0.522
11. Popovici, L.-F., **Brinza, I.**, Gatea, F., Badea, G. I., Vamanu, E., Oancea, S., & Hritcu, L. (2025). Enhancement of cognitive benefits and anti-anxiety effects of *Phytolacca americana* fruits in a zebrafish (*Danio rerio*) model of scopolamine-induced memory impairment. *Antioxidants*, 14(1), 97. <https://doi.org/10.3390/antiox14010097> IF: 6.6 | AIS: 1.187

2024:

12. **Brinza, I.**, Boiangiu, R. S., Mihasan, M., Gorgan, D. L., Stache, A. B., Abd-Alkhalek, A. M., El-Nashar, H., Ayoub, I., Mostafa, N., Eldahshan, O. A., et al. (2024). Rhoifolin, baicalein 5,6-dimethyl ether and agathisflavone prevent amnesia induced in scopolamine zebrafish (*Danio rerio*) model by increasing the mRNA expression of *bdnf*, *npv*, *egr-1*, *nrf2a*, and *creb1* genes. *European Journal of Pharmacology*, 177, 013. <https://doi.org/10.1016/j.ejphar.2024.177013> IF: 4.7 | AIS: 0.879
13. **Brinza, I.**, Boiangiu, R. S., Honceriu, I., Abd-Alkhalek, A. M., Eldahshan, O. A., Dumitru, G., Hritcu, L., & Todirascu-Ciornea, E. (2024). Investigating the potential of essential oils from *Citrus reticulata* leaves in mitigating memory decline and oxidative stress in the scopolamine-treated zebrafish model. *Plants*, 13(12), 1648. <https://doi.org/10.3390/plants13121648> IF: 4.5 | AIS: 0.623
14. Bouabdallah, S., **Brinza, I.**, Boiangiu, R. S., Ibrahim, M. H., Honceriu, I., Al-Maktoum, A., Cioanca, O., Hancianu, M., Amin, A., Ben-Attia, M., et al. (2024). The effect of a *Tribulus*-based formulation in alleviating cholinergic system impairment and scopolamine-induced memory loss in zebrafish (*Danio rerio*): Insights from molecular docking and in vitro/in vivo approaches. *Pharmaceuticals*, 17(2), 200. <https://doi.org/10.3390/ph17020200> IF: 4.3 | AIS: 0.723
15. Bouabdallah, S.; Ibrahim, M.H.; **Brinza, I.**; Boiangiu, R.S.; Honceriu, I.; Amin, A.; Ben-Attia, M.; Hritcu, L. (2024) Anxiolytic and Antidepressant Effects of *Tribulus terrestris* Ethanolic Extract in Scopolamine-Induced Amnesia in Zebrafish: Supported by Molecular Docking Investigation Targeting Monoamine Oxidase A. *Pharmaceuticals*, 17, 1208. <https://doi.org/10.3390/ph17091208> IF: 4.3 | AIS: 0.723

2023:

16. Boiangiu, R. S., **Brinza, I.**, Honceriu, I., Mihasan, M., & Hritcu, L. (2023). Insights into pharmacological activities of nicotine and 6-hydroxy-L-nicotine, a bacterial nicotine derivative: A systematic review. *Biomolecules*, 14(1), 23. <https://doi.org/10.3390/biom14010023> IF: 4.8 | AIS: 0.859
17. **Brinza, I.**, Boiangiu, R. S., Cioanca, O., Hancianu, M., Dumitru, G., Hritcu, L., Birsan, G.-C., & Todirascu-Ciornea, E. (2023). Direct evidence for using *Coriandrum sativum* var. *microcarpum* essential oil to ameliorate scopolamine-induced memory impairment and brain oxidative stress in the zebrafish model. *Antioxidants*, 12(8), 1534. <https://doi.org/10.3390/antiox12081534> IF: 7.0 | AIS: 0.946

2022:

18. **Brinza, I.**, El Raey, M. A., El-Kashak, W., Eldahshan, O. A., & Hritcu, L. (2022). Sweroside ameliorated memory deficits in scopolamine-induced zebrafish (*Danio rerio*) model: Involvement of cholinergic system and brain oxidative stress. *Molecules*, 27(18), 5901. <https://doi.org/10.3390/molecules27185901> IF: 4.6 | AIS: 0.660
19. Pecio, L., Kozachok, S., **Brinza, I.**, Boiangiu, R. S., Hritcu, L., Mircea, C., Burlec, A. F., Cioanca, O., Hancianu, M., Wronikowska-Denysiuk, O., et al. (2022). Neuroprotective effect of *Yucca schidigera* Roezl ex Ortgies bark phenolic fractions, yuccaol B and gloriosaol A on scopolamine-induced memory deficits in zebrafish. *Molecules*, 27(12), 3692. <https://doi.org/10.3390/molecules27123692> IF: 4.6 | AIS: 0.660
20. Kamda Damo, J. L., Boiangiu, R. S., **Brinza, I.**, Kenko Djoumessi, L. B., Rebe, R. N., Kamleu, B. N., Guedang, S. D. N., Camdi, G. W., Bouvourné, P., Wado Keugong, E., et al. (2022). Neuroprotective potential of *Guiera senegalensis* (Combretaceae) leaf hydroethanolic extract against cholinergic system dysfunctions and oxidative stress in scopolamine-induced cognitive impairment in zebrafish (*Danio rerio*). *Plants*, 11(9), 1149. <https://doi.org/10.3390/plants11091149> IF: 4.5 | AIS: 0.623

2021:

21. **Brinza, I.**, Ayoub, I. M., Eldahshan, O. A., & Hritcu, L. (2021). Baicalein 5,6-dimethyl ether prevents memory deficits in the scopolamine zebrafish model by regulating cholinergic and antioxidant systems. *Plants*, 10(6), 1245. <https://doi.org/10.3390/plants10061245> IF: 4.658 | AIS: 0.654 |
22. **Brinza, I.**, Boiangiu, R. S., Hancianu, M., Cioanca, O., Erdogan Orhan, I., & Hritcu, L. (2021). Bay leaf (*Laurus nobilis* L.) incense improved scopolamine-induced amnesic rats by restoring cholinergic dysfunction and brain antioxidant status. *Antioxidants*, 10(2), 259. <https://doi.org/10.3390/antiox10020259> IF: 7.675 | AIS: 0.921

2020:

23. **Brinza, I.**, Abd-Alkhalek, A. M., El-Raey, M. A., Boiangiu, R. S., Eldahshan, O. A., & Hritcu, L. (2020). Ameliorative effects of rhoifolin in scopolamine-induced amnesic zebrafish (*Danio rerio*) model. *Antioxidants*, 9(7), 580. <https://doi.org/10.3390/antiox9070580> IF: 6.313 | AIS: 0.910 |
24. Boiangiu, R. S., **Brinza, I.**, Hancianu, M., Erdogan Orhan, I., Eren, G., Gündüz, E., Ertas, H., Hritcu, L., & Cioanca, O. (2020). Cognitive facilitation and antioxidant effects of an essential oil mix on scopolamine-induced amnesia in rats: Molecular modeling of in vitro and in vivo approaches. *Molecules*, 25(7), 1519. <https://doi.org/10.3390/molecules25071519> IF: 4.412 | AIS: 0.694

Lista articolelor publicate în rezumatul conferințelor indexate WOS până la data de 01/12/2025

1. **Brinza, I.**, Boiangiu, R. S., Hritcu, L., Eldahshan, O., Singab, A. N. (2021). Baicalin and Rhoifolin prevents scopolamine-induced memory impairment and brain oxidative stress in zebrafish (*Danio rerio*). *FEBS OPEN BIO*, 11(S1), 205. <https://doi.org/10.1002/1878-0261.13012> IF: 2.3 | JCI: 0.5 | AIS: 0.568
2. **Brinza, I.**, Stache, A. B., Eldahshan, O., Gorgan, L., Mihasan, M., Hritcu, L. (2022). Sweroside supports memory function by increasing mRNA expression of BDNF, CREB, NPY and decreasing

AChE activity and brain oxidative stress in the scopolamine-induced zebrafish model (*Danio rerio*). *FEBS OPEN BIO*, 12(S1), 121. <https://doi.org/10.1002/1878-0261.13211> IF: 2.3 | JCI: 0.5 | AIS: 0.568

3. Honceriu, I., Boiangiu, R. S., **Brinza, I.**, Hritcu, L. (2023). Anti-dementia effects of mansorin A and mansonone G in zebrafish. *FEBS OPEN BIO*, 13(S2), 200. <https://doi.org/10.1002/1878-0261.13412> IF: 2.3 | JCI: 0.5 | AIS: 0.568
4. Hritcu, L., Boiangiu, R. S., Honceriu, I., **Brinza, I.**, Mihasan, M. (2024). 6-Hydroxy-L-nicotine alleviates cognitive impairments in 5XFAD transgenic mice. *FEBS OPEN BIO*, 14(S2), 402-403. <https://doi.org/10.1002/1878-0261.13602> IF: 2.3 | JCI: 0.5 | AIS: 0.568
5. Boiangiu, R. S., **Brinza, I.**, Orhan, I. E., Hritcu, L. (2024). The impact of *Myrtus communis* essential oil on cognition, anxiety and oxidative stress in a zebrafish (*Danio rerio*) model of Alzheimer's disease. *FEBS OPEN BIO*, 14(S2), 366. <https://doi.org/10.1002/1878-0261.13600> IF: 2.3 | JCI: 0.5 | AIS: 0.568
6. Boiangiu, R. S., **Brinza, I.**, Mihasan, M., Hritcu, L. (2024). The biological effects of 6-hydroxy-L-nicotine in various experimental models of dementia: in silico and in vivo study. *FEBS OPEN BIO*, 14(S1), 12-13. <https://doi.org/10.1002/1878-0261.13589> IF: 2.3 | JCI: 0.5 | AIS: 0.568

Lista articolelor publicate în rezumatul conferințelor indexate Google scholar până la data de 01/12/2025

1. **Brînză, I.**, Guliev, C.-I., Oresanya, I. O., Gok, H. N., Erdogan, O. I., Hritcu, L. (2025). Neuroprotective effects of ethanolic extracts from *Solanum macrocarpon* in a zebrafish model of scopolamine-induced Alzheimer's disease-related dementia. *Cells and tissues transplantation. Actualities and perspectives*, 3, 70.
2. Hritcu, L., Boiangiu, R. S., Honceriu, I., **Brînză, I.**, Mihășan, M. (2024). *6-hydroxy-L-nicotine alleviates cognitive impairment in 5XFAD transgenic mice*. *Natural sciences in the dialogue of generations*, 153, 153.
3. Hritcu, L., **Brînză, I.**, Boiangiu, R. S., Todirascu-Ciornea, E. (2024). *Foeniculum vulgare mill. reduces memory impairment in scopolamine zebrafish model*. *Natural sciences in the dialogue of generations*, 154, 154.
4. **Brînză, I.**, Hritcu, L., Tausan, I. (2024). *Neuroprotective potentials of ethanol extracts from Solanum macrocarpon plant*. *Natural sciences in the dialogue of generations*, 150, 150.
5. Boiangiu, R. S., **Brînză, I.**, Hritcu, L. (2024). *Promnesic, anxiolytic and antioxidant effects of myrtus communis essential oil in a zebrafish (Danio rerio) model of dementia*. *Natural sciences in the dialogue of generations*, 134, 134.
6. **Brînză, I.**, Boiangiu, R. S., Dumitru, M. G., Hritcu, L. (2024). *Exploring the therapeutic potential of coriandrum sativum essential oil in mitigating cognitive impairment and oxidative stress: insights from a zebrafish model*. *Natural sciences in the dialogue of generations*, 136, 136.
7. Boiangiu, R. S., **Brînză, I.**, Honceriu, I., Mihășan, M., Hritcu, L. (2023). *Insights into the Brain Effects of a Bacterial Nicotine Derivative–6-Hydroxy-L-Nicotine*.

8. Honceriu, I., **Brînză, I.**, Boianăiu, R. Ș., Hritcu, L. (2023). *Anti-dementia effects of mansorin A, mansonone G, and 6-paradol in zebrafish (Danio rerio)*. Studia Universitatis Babes-Bolyai, Historia Artium, 68(2).
9. **Brînză, I.**, Stache, A. B., Boianăiu, R. Ș., Eldahshan, O., Gorgan, D. L., Mihășan, M., et al. (2023). *Baicalein 5,6-dimethyl ether prevent scopolamine-induced memory impairment in zebrafish by increasing the CREB1 protein level and the mRNA expression of BDNF and CREB1 gene*. Studia Universitatis Babes-Bolyai, Historia Artium, 68(2).
10. Boianăiu, R. Ș., **Brînză, I.**, Mihășan, M., Hritcu, L. (2023). *Biological effects of 6-hydroxy-L-nicotine and cotinine in various experimental models of dementia: in silico and in vivo study*. Turkish Journal of Biochemistry, 48.
11. Birsan, G. C., Dumitru, G., Boianăiu, R. S., Cioanca, O., Hancianu, M., **Brînză, I.**, et al. (2023). *Coriandrum sativum essential oil attenuated scopolamine-induced anxiety in the amnesic zebrafish model*. Scientific committee, 61.
12. **Brînză, I.**, Stache, A. B., Eldahshan, O., Gorgan, L., Mihășan, M., Hritcu, L. (2022). *Sweroside supports memory function by increasing mRNA expression of BDNF, CREB, NPY and decreasing AChE activity and brain oxidative stress in the scopolamine-induced zebrafish*.
13. **Brînză, I.**, Stache, A. B., Eldahshan, O., Gorgan, L., Mihășan, M., Hritcu, L. (2022). *Baicalein prevent scopolamine-induced memory impairment in zebrafish by increasing the CREB protein level and the mRNA expression of BDNF and CREB gene*. Life sciences in the dialogue of generations.
14. **Brînză, I.**, Boianăiu, R. S., Hritcu, L., Eldahshan, O., Singab, A. N. (2021). *Baicalin and Rhoifolin prevents scopolamine-induced memory impairment and brain oxidative stress in zebrafish (Danio rerio)*.
15. **Brînză, I.**, Hritcu, L. (2021). *Quantification of neurotrophin expression in the hippocampus of an oil-treated dementia model volatile Pimpinella peregrina*. International Congress of Geneticists and Breeders.
16. Hritcu, L., **Brînză, I.** (2019). *The impact of agatisflavone on memory processes. Studies on an animal model of dementia*. Life sciences in the dialogue of generations.