

ACTIVITATE ȘTIINȚIFICĂ

Lucrări publicate în reviste internaționale cotate ISI:

1. Ionescu C, Lungu PF, Rarinca V, **Visternicu M**, Ciobica A, Burlui V, Albert C, Nicoara MM, Plavan GI, Novac B, Gurzu B, Tomița DI. *Caffeine toxicity in zebrafish – Neurobehavioral changes, developmental defects, and oxidative stress: A review*. Biomolecules and Biomedicine. 2025 <https://doi.org/10.17305/bb.2025.13383>
2. Burlui E, Albert C, Burlui V, Ciobica A, Dascalescu G, **Visternicu M**, Balmus IM. *Schizophrenia and Oral Health: A Comorbidity Model Integrating Oxidative Stress, Nutrition and Perspectives for Predictive Artificial Intelligence*. BRAIN: Broad Research in Artificial Intelligence & Neuroscience. 2025;16(4).
3. Blendea L, Miler AA, **Visternicu M***, Gotca I, Csabai J, Novac B, Novac O, Trifan A, Timofte DV. *A New Preliminary Model for Studying the Interconnection Between Nutrition and Neuropsychiatric Symptoms: Design and Impact Assessment*. BRAIN. Broad Research in Artificial Intelligence and Neuroscience 16.4 (2025): 436-457.
4. Mavroudis, I., Petridis, F., Franekova, K., **Visternicu, M.**, Rarinca, V., Burlui, V., Ciobica A, Novac B, Dobrin I, Hogas MM, Bovari E, Albert C, Kazis D. *Functional Cognitive Disorder: diagnostic challenges, clinical features, and future directions in a misunderstood condition*. Frontiers in Aging Neuroscience. 2025;17:1665510. <https://doi.org/10.3389/fnagi.2025.1665510>
5. Rarinca V, Nicoara MN, Plavan GI, **Visternicu M**, Ionescu C, Ciobica A. *Behavioral effects of acute exposure of zebrafish (Danio rerio) to arsenic and ampicillin, and the protective role of quercetin*. Present Environment and Sustainable Development. 2025;19(1):1. <https://doi.org/10.47743/pesd2025191003>
6. **Visternicu M**, Săvucă A, Rarinca V, Burlui V, Plavan G, Ionescu C, Ciobica A, Balmus IM, Albert C, Hogas M. *Toxicological Effects of Tartrazine Exposure: A Review of In Vitro and Animal Studies with Human Health Implications*. Toxics. 2025;13(9):771. <https://doi.org/10.3390/toxics13090771>.
7. Rarinca V, Gurzu IL, Nicoara MN, Ciobica A, **Visternicu M**, Ionescu C, Balmus IM, Plavan GI, Todirascu-Ciornea E, Gurzu B. *Neurobehavioral and Oxidative Stress Effects of SiO₂ Nanoparticles in Zebrafish and the Protective Role of N-Acetylcysteine*. Biomedicines. 2025;13(7):1762. <https://doi.org/10.3390/biomedicines13071762>
8. Ionescu C, Rarinca V, **Visternicu M**, Ciobica A, Romila L, Burlui V, Cimpanu M, Novac B, Gurzu B. *Oxidative Stress, Genetic Factors and Behavioral Responses to Chemical Exposure: Insights into Cancer Development in Zebrafish (Danio Rerio)*. Biochemical Genetics. 2025. <https://doi.org/10.1007/s10528-025-11148-6>.
9. Tomaziu-Todosia Anton E, Anton GI, Scripcariu I, Dumitrașcu I, Scripcariu DV, Balmus IM, Ionescu C, **Visternicu M**, Socolov DG. *Oxidative Stress, Inflammation, and Antioxidant Strategies in Cervical Cancer—A Narrative Review*. International Journal of Molecular Sciences. 2025;26(10):4961. <https://doi.org/10.3390/ijms26104961>.
10. Mavroudis I, Chatzikonstantinou S, Petridis F, Kazis D, Kamal F, Diaconu S, **Visternicu M**, Ciobica A, Iordache A, Stadoleanu C, Dacia Petroaie A, Novac B. *Unveiling the*

- Functional Component in Post-Concussive Cognitive Impairment: A Novel Modelling Approach. BRAIN. Broad Research In Artificial Intelligence And Neuroscience. 2025;16(1):83-94. doi:http://dx.doi.org/10.70594/brain/16.1/6.*
11. Miler A, **Visternicu M**, Rarinca V, Stadoleanu C, Ciobica A, Maxim M, Toader M, Timofte D, Knieling A. *The Role of Artificial Intelligence in Bariatric Surgery: Perspectives and Modern Applications. BRAIN. Broad Research in Artificial Intelligence and Neuroscience. 2025;16(1):125-141. doi:http://dx.doi.org/10.70594/brain/16.1/9.*
 12. Rarinca V, Vasile A, **Visternicu M**, Burlui V, Halitchi G, Ciobica A, Singeap AM, Dobrin R, Burlui E, Maftai L, Trifan A. *Relevance of Diet in Schizophrenia: A Review Focusing on Prenatal Nutritional Deficiency, Obesity, Oxidative Stress and Inflammation. Frontiers in Nutrition. 2024;11:1497569.*
 13. **Visternicu M**, Rarinca V, Burlui V, Halitchi G, Ciobică A, Singeap A-M, Dobrin R, Mavroudis I, Trifan A. *Investigating the Impact of Nutrition and Oxidative Stress on Attention Deficit Hyperactivity Disorder. Nutrients. 2024;16(18):3113. https://doi.org/10.3390/nu16183113 .*

Lucrări publicate în reviste BDI

1. **Visternicu M**, Rarinca V, Ionescu C, Dunca A, Burlui V, Ciobica A. *Effects of Artificial Food Colorings on Oral Health and their Clinical Implications. Journal of Medical Dentistry. 2025;29(3):189-192.*
2. Ionescu C, Rarinca V, **Visternicu M**, Ciobica A. *Effects of Mercury Exposure on Zebrafish: Behavioral Changes, Organ Toxicity, and Dental Implications. Journal of Medical Dentistry. 2025;29(3):193-199.*
3. Tirziman BM, Ionescu C, Rarinca V, **Visternicu M**, Dobrojan S, Plavan G, Ciobica A. *Biomedical Insights into Chlorella. Emerging Applications in Oral Health. International Journal of Medical Dentistry. 2025;29(3):204-207*
4. Rarinca V, Ionescu C, **Visternicu M**, Ciobica A. *Antioxidants In Dentistry: Clinical Roles and Therapeutic Perspectives. International Journal of Medical Dentistry. 2025;29(3):209-216.*
5. **Visternicu M**, Rarinca V, Ionescu C, Dunca A, Burlui V, Ciobica A. *A Review of the Link Between Artificial Food Colorings and Attention Deficit Hyperactivity Disorder and Dental Health. International Journal of Medical Dentistry. 2025;29(3):225-230.*
6. Dunca A, **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Ciobica A. *The impact of liver disease on oral health. International Journal of Medical Dentistry. 2025;29(2):129-132.*
7. Ionescu C, **Visternicu M**, Rarinca V, Ciobica A, Dunca A. *Anxiety and depression in the context of dental conditions. Bidirectional connections and clinical implications. International Journal of Medical Dentistry. 2025;29(2):109-113.*
8. Ionescu C, Rarinca V, **Visternicu M**, Burlui V, Ciobica A. *Neuropsychiatric perspectives on the microbiome: Unraveling the complex interactions between chemical substances, probiotics, and mental health. Bulletin of Integrative Psychiatry. 2025;1:77.*

9. Ionescu C, Rarinca V, **Visternicu M**, Ciobica A, Kamal FZ. *The Role of Probiotics in Cancer Prevention: A Mini-Review of Their Mechanisms and Protective Potential*. Annals Series on Biological Sciences. 2025;14(1):253-61.
10. Ionescu C, Savuca A, Rarinca V, **Visternicu M**, Ciobica A, Kamal FZ. *Zebrafish Malformations and Neurobehavioral Effects Induced by Heavy Metals Exposure at Different Developmental Stages a Mini-Review*. Annals Series on Biological Sciences. 2025;14(1):262-74.
11. **Visternicu M**, Rarinca V, Burlui V, Ciobica A. *Evaluation of the Therapeutic Effects of Salvia rosmarinus on Nervous System Disorders*. Journal of Experimental and Molecular Biology. 2025;26(1):101-14.
12. **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Ciobica A. *Sulfonate applications in dentistry*. Innovative materials and functional properties. International Journal of Medical Dentistry. **2025**; 29(1):15-9.
13. **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Ciobica A. *Functional and structural diversity of Mucocutaneous junctions*. International Journal of Medical Dentistry. **2024**; 28(4):354-58.
14. **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Ciobica A. *The role of Salvia rosmarinus in promoting dental health and combating oral diseases*. International Journal of Medical Dentistry. **2024**; 28(4):359-65.
15. Rarinca V, **Visternicu M**, Ionescu C, Ciobica A. *Exploring the neuropsychiatric consequences of methionine exposure: Behavioral and cognitive alterations in zebrafish models*. Bulletin of Integrative Psychiatry. 2024;4(103):63-70.
16. Rarinca V, **Visternicu M**, Ionescu C, Ciobica A, Nicoara M. *Neuropsychiatric impact of antibiotic administration on social behavior in zebrafish: Investigating the antioxidant role of alpha lipoic acid*. Bulletin of Integrative Psychiatry. 2024;4(103):53-62.
17. Duță R, **Visternicu M**, Miler A, Ciobica A. *The impact of vitamin D on psychiatric and physiological mechanisms in the context of epilepsy*. Bulletin of Integrative Psychiatry. 2024;4(103):19-27.
18. Ionescu C, Rarinca V, **Visternicu M**, Ciobica A, Kamal FZ. *Carcinogenic potential of certain chemical agents in zebrafish: a short review*. Annals Series on Biological Sciences. 2024;13(2):101-8.
19. **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Cimpoiesu G, Ciobica A. *Effects of pollution on oral health: types of pollutants and impact on the oral cavity*. Annals Series on Biological Sciences. 2024;13(2):74-83.
20. **Visternicu M**, Rarinca V, Miron I, Kamal FZ, Guenne S, Ciobica A. *Nutritional benefits of chlorophyll and mineral elements in wheatgrass*. Annals Series on Biological Sciences. 2024;13(2):19-37
21. **Visternicu M**, Rarinca V, Burlui V, Ciobica A. *ADHD and dental disease identifying risk factors and methods of prevention*. International Journal of Medical Dentistry. 2024; 28(3):239-47.

22. **Visternicu M**, Rarinca V, Burlui V, Ciobica A. *The role of adipocytes and cytokines in the pathogenesis of periodontal diseases*. International Journal of Medical Dentistry. 2024;28(3):266-8.

Lucrări prezentate la manifestări științifice naționale

1. **Visternicu M**, Ionescu C, Rarinca V, Ciobica A. *The Influence of Environmental Factors on ADHD-Like Behavior in Zebrafish (Danio rerio)*. CONFERINȚA NAȚIONALĂ ȘTIINȚIFICĂ DE TOAMNĂ 2025 a Academiei Oamenilor de Știință din România, Stațiunea Durău, județul Neamț. Știință, Cunoaștere, Creativitate, Spiritualitate. Ediția a II-a Miercuri 17 septembrie 2025 - Vineri 19 septembrie 2025.
2. Rarinca V, Ionescu C, **Visternicu M**, Ciobica A. *Acute antibiotic exposure and impact on social and cognitive behavior in zebrafish (Danio rerio): ecotoxicological implications and perspectives on aquatic environmental health*. CONFERINȚA NAȚIONALĂ ȘTIINȚIFICĂ DE TOAMNĂ 2025 a Academiei Oamenilor de Știință din România, Stațiunea Durău, județul Neamț. Știință, Cunoaștere, Creativitate, Spiritualitate. Ediția a II-a Miercuri 17 septembrie 2025 - Vineri 19 septembrie 2025.
3. Ionescu C, **Visternicu M**, Rarinca V, Ciobica A. *Anxiety-like Behavior and Memory Impairment Following Heavy Metal Exposure in a Zebrafish Model (Danio rerio)*. CONFERINȚA NAȚIONALĂ ȘTIINȚIFICĂ DE TOAMNĂ 2025 a Academiei Oamenilor de Știință din România, Stațiunea Durău, județul Neamț. Știință, Cunoaștere, Creativitate, Spiritualitate. Ediția a II-a Miercuri 17 septembrie 2025 - Vineri 19 septembrie 2025.
4. **Visternicu M**, Savuca A, Ionescu C, Rarinca V, Burlui V, Ciobica A. *Behavioral analysis of toxicity of tartrazine using the Danio rerio animal model*. National Conference with International Participation: Natural Sciences in the Dialogue of Generations – 2025, VIIIth edition. Chisinau, Republic of Moldova.
5. Rarinca V, Ionescu C, **Visternicu M**, Ciobica A, Nicoara MN. *Acute combined exposure to arsenic and ampicillin alters locomotor and social behavior in zebrafish (Danio rerio)*. National Conference with International Participation: Natural Sciences in the Dialogue of Generations – 2025, VIIIth edition. Chisinau, Republic of Moldova.
6. Ionescu C, **Visternicu M**, Rarinca V, Ciobica A, Plavan G, Nicoara MN. *The impact of inorganic arsenic exposure on anxiety-like behavior in zebrafish (Danio rerio)*. National Conference with International Participation: Natural Sciences in the Dialogue of Generations – 2025, VIIIth edition. Chisinau, Republic of Moldova.
7. **Visternicu M**, Săvucă A, Ionescu C, Rarinca V, Plavan G, Nicoară MM, Hritcu LD, Lefter R, Burlui V, Ciobica A. *Preliminary Data Regarding a New Approach for Testing Attention Deficit in Zebrafish Mo/ș.l.dels*. Conferința științifică națională de primăvară. Academia Oamenilor de Știință din România. 23 – 24 mai 2025, București.
8. Ionescu C, **Visternicu M**, Rarinca V, Săvucă A, Ciobica A. *Neurotoxic Effects of Inorganic Arsenic Exposure on Swimming Performance in a Zebrafish Model (Danio rerio)*. Conferința științifică națională de primăvară. Academia Oamenilor de Știință din România. 23 – 24 mai 2025, București
9. Rarinca V, **Visternicu M**, Ionescu C, Ciobica A. *Acute Exposure to Amoxicillin Induces Social and Behavioral Changes in Zebrafish (Danio rerio): An Ecotoxicological*

- Perspective*. Conferința științifică națională de primăvară. Academia Oamenilor de Știință din România. 23 – 24 mai 2025, București.
10. **Visternicu M**, Rarinca V, Ionescu C, Burlui V, Ciobica A. *The influence of food dyes on neurodevelopmental disorders*. Congresul Internațional al Universității „Apollonia” din Iași ”Pregătim viitorul promovând excelența”. Ediția a XXXV-a 27 februarie -1 martie 2025, Iași, Romania.
 11. Ionescu C, **Visternicu M**, Rarinca V, Ciobica A. *Efectele expunerii cronice la arsenic asupra peștilor zebură: implicații neurologice, biochimice și histologice*. Congresul Internațional al Universității „Apollonia” din Iași ”Pregătim viitorul promovând excelența”. Ediția a XXXV-a 27 februarie -1 martie 2025, Iași, Romania.
 12. Rarinca V, **Visternicu M**, Ionescu C, Ciobica A, Burlui V. *Behavioral Impairments in Zebrafish (Danio rerio) Following Acute Mercuric Chloride (HgCl₂) Exposure*. Congresul Internațional al Universității „Apollonia” din Iași ”Pregătim viitorul promovând excelența”. Ediția a XXXV-a 27 februarie -1 martie 2025, Iași, Romania.
 13. **Visternicu M**. *Influența sistemului Renină-angiotensină asupra ADHD: o abordare integrativă asupra neurobiologiei și înțelegerii tulburării*. SESIUNEA ȘTIINȚIFICĂ ANUALĂ 100 de ani de la nașterea Acad. Ioan Hăulică, Iași. 29 octombrie 2024.
 14. **Visternicu M**, Rarinca V, Ciobica A, Burlui V, Lefter R. *Exploring the Complex Interplay Between Irritable Bowel Syndrome, Neuropsychiatry and Oro-maxillo-facial Manifestations*. Scientific Conference - Academy of Romanian Scientists 2024 (May 24rd-25th).
 15. **Visternicu M**, Rarinca V, Ciobica A, Burlui V. *The Influence of ADHD on Oral Hygiene and the Risk of Developing Dental Conditions*. Scientific Conference - Academy of Romanian Scientists 2024, September 23rd-24th.
 16. Burlui E, Ciobica A, Rarinca V, **Visternicu M**, *Innovative Treatments in Mental Illness and Dental Care: A New Era of Integrated Health*. Scientific Conference - Academy of Romanian Scientists 2024, September 23rd-24th.
 17. Rarinca V, **Visternicu M**, Nicoara M, Burlui E, Lefter R, Ciobica A, Ionescu C. *Artificial Intelligence and Zebrafish: Exploring the Impact of Antibiotics*. Scientific Conference - Academy of Romanian Scientists 2024, September 23rd-24th.
 18. **Visternicu M**, Rarinca V, Ciobica A, Burlui V. *Explorarea interacțiunii complicate dintre sindromul intestinului iritabil, neuropsihiatrie și manifestările oro-maxilo-faciale*. Abordări interdisciplinare în bolile funcționale digestive. Zilele academice ieșene. Ediția a XXXIX-a.
 19. **Visternicu M**, Rarinca V, Burlui V, Ciobica A. *The zebrafish: a revolutionary model for applications in dentistry*. Congresului Societății Române de Reabilitare Orală ”Practica digitală în stomatologia actuală”. 7-9 noiembrie 2024.
 20. **Visternicu M**, Rarinca V, Burlui V, Ionescu C, Ciobica A. *Zebrafish: An experimental model for induction and study of ADHD symptoms*. Sesiunea Științifică a Facultății de Biologie. Tendințe în Biologie: de la molecule la sisteme complexe. 25 - 26 octombrie 2024- Facultatea de Biologie, Iași, România
 21. **Visternicu M**, Boz I, Dunca SI. *Testing the Antibacterial Activity of some Rosemary Essential Oils*. Natural Sciences in the Dialogue of Generations (The National

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Lucrări prezentate la manifestări științifice internaționale

1. **Visternicu M**, Ionescu C, Rarinca V, Ciobica A. *Toxicological and Health Implications of Tartrazine (E102) Consumption from Food Products*. ICONFOOD25 4th INTERNATIONAL CONGRESS on FOOD RESEARCHES. October 16-17, 2025.
2. Ionescu C, Rarinca V, **Visternicu M**, Ciobica A. *Caffeine Exposure and its Neurobehavioral Alterations in Zebrafish (Danio rerio)*. ICONFOOD25 4th INTERNATIONAL CONGRESS on FOOD RESEARCHES. October 16-17, 2025.

Data: 12.02.2026

Alsururi Mălina Mihaela

