

LISTĂ DE LUCRĂRI

A. MAXIMUM 10 LUCRĂRI CONSIDERATE RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII:

1. Savuca A, [...], **Balmus IM**. Current aspects on the plastic nano- and microparticles toxicity in zebrafish—focus on the correlation between oxidative stress responses and neurodevelopment. *ANIMALS-BASEL* 2023; 13(11): 1810. Factor de impact (JCR 2022) = 3 (Q1)
2. Kamal FZ, Lefter R, Jaber H, **Balmus I-M**, Ciobica A, Iordache A-C. The role of potential oxidative biomarkers in the prognosis of acute ischemic stroke and the exploration of antioxidants as possible preventive and treatment options. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023; 24(7):6389. Factor de impact (JCR 2022) = 5,6 (Q1)
3. Jijie R, [...], **Balmus IM**, [...]. Zebrafish as a screening model to study the single and joint effects of antibiotics. *PHARMACEUTICALS* 2021; 14(6): 578. Factor de impact (JCR 2021) = 5,215 (Q1)
4. **Balmus IM**, et al. Biomolecules from plant wastes potentially relevant in the management of irritable bowel syndrome and co-occurring symptomatology. *MOLECULES* 2022; 27(8): 2403.
5. Cojocariu RO, **Balmus IM**, et al. *Camelina sativa* methanolic and ethanolic extract potential in alleviating oxidative stress, memory deficits, and affective impairments in stress exposure-based irritable bowel syndrome mouse models. *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*, 2020; 2020: 9510305.
6. Robea MA, **Balmus IM**, et al. Parkinson's disease-induced zebrafish models: focussing on oxidative stress implications and sleep processes. *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*, 2020; 2020: 1370837.
7. **Balmus IM**, Cojocariu RO, et al. Preliminary study on the tears oxidative stress status and sleep disturbances in irritable bowel syndrome patients. *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY* 2020; 2020: 4690713.
8. **Balmus IM**, Alexa AI, et al. Oxidative stress markers dynamics in keratoconus patients' tears before and after corneal collagen crosslinking procedure. *EXPERIMENTAL EYE RESEARCH* 2020; 190: 107897.
9. **Balmus IM**, Strungaru SA, et al. Preliminary data on the interaction between some biometals and oxidative stress status in mild cognitive impairment and Alzheimer's disease patients. *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*, 2017; 2017: 7156928.
10. **Balmus IM**, Ciobica A, et al. Oxidative stress implications in the affective disorders: main biomarkers, animal models relevance, genetic perspectives, and antioxidant approaches. *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY* 2016; 2016: 3975101.

B. TEZA DE DOCTORAT:

"Aspecte genetice, comportamentale și biochimice în studiul bolii Alzheimer pe pacienți umani și modele animale" – susținută public în data de 07.09.2018. Profesor îndrumător: CS I dr. Alin Stelian Ciobică, Școala Doctorală de Biologie.

C. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI:

1. Mavroudis I, **Balmus IM**, Gorgan L, Ciobica A. Chapter 4 – Neuropathology of Concussion, în cartea "Concussion: State of the Art" (Editor Ioannis Mavroudis, Editura Intech Open, London UK), 2023.

D. ARTICOLE/ STUDII PUBLICATE *IN EXTENSO*, în reviste din circuitul științific internațional:

i) Articole/studii științifice publicate în jurnale indexate ISI:

1. Alexa AI, Zamfir CL, Bogdănici CM, Oancea A, Maștaleru A, Abdulan IM, Brănișteanu DC, Ciobică A, **Balmus M**, Stratulat-Alexa T, et al. THE IMPACT OF CHRONIC STRESS ON BEHAVIOR AND BODY MASS IN NEW ANIMAL MODELS. *Brain Sciences*. 2023; 13(10):1492. Factor de impact (JCR 2022) = 3,3 (Q3)
2. Mavroudis I, **Balmus I-M**, Ciobica A, Nicoara MN, Luca AC, Palade DO. THE ROLE OF MICROGLIAL EXOSOMES AND MIR-124-3P IN NEUROINFLAMMATION AND NEURONAL REPAIR AFTER TRAUMATIC BRAIN

INJURY. Life. 2023; 13(9):1924. Factor de impact (JCR 2022) = 3,2 (Q2)

3. Robea MA, **Balmus I-M**, Girleanu I, Huiban L, Muzica C, Ciobica A, Stanciu C, Cimpoesu CD, Trifan A. COAGULATION DYSFUNCTIONS IN NON-ALCOHOLIC FATTY LIVER DISEASE—OXIDATIVE STRESS AND INFLAMMATION RELEVANCE. Medicina. 2023; 59(9):1614. Factor de impact (JCR 2022) = 2,6 (Q3)

4. Nastasa R, Stanciu C, Stratina E, Huiban L, Muzica C, **Balmus IM**, Robea MA, Duta R, Ilie OD, Girleanu I, Zenovia S, Stafie R, Rotaru A, Nemteanu R, Singeap AM, Cojocariu C, Sfarti C, Chiriac S, Gafencu C, Cuciureanu T, Cimpoesu D, Trifan A. PREVALENCE OF LIVER FIBROSIS AND STEATOSIS USING VIBRATION-CONTROLLED TRANSIENT ELASTOGRAPHY IN INDIVIDUALS EMPLOYED IN A NORTH-EASTERN ROMANIAN INDUSTRIAL COMPANY. Medical-Surgical Journal-Revista Medico-Chirurgicala, 2023, 127 (2), 189-197. Factor de impact (JCR 2022) = 0,1 (Q4)

5. Lefter R, **Balmus IM**, Ciobica A, I Antioch, DC Ababei, Bild W, Hritcu LD, Musteata M, Timofte D , Hogas S. CENTRAL AND PERIPHERAL EFFECT OF MPTP VIA DOSE-DEPENDENT MAGNESIUM MODULATION. Acta Endo (Buc) 2023, 19 (1): 36-48. Factor de impact (JCR 2022) = 1 (Q4)

6. Ababei D-C, **Balmus I-M**, Bild W, Ciobica AS, Lefter RM, Rusu R-N, Stanciu GD, Cojocaru S, Hancianu M, Bild V. THE IMPACT OF SOME MODULATORS OF THE RENIN-ANGIOTENSIN SYSTEM ON THE SCOPOLAMINE-INDUCED MEMORY LOSS MICE MODEL. Brain Sciences. 2023; 13(8):1211. Factor de impact (JCR 2022) = 3,3 (Q3)

7. Mavroudis I, Chatzikonstantinou S, Petridis F, Palade OD, Ciobica A, **Balmus I-M**. FUNCTIONAL OVERLAY MODEL OF PERSISTENT POST-CONCUSSION SYNDROME. Brain Sciences. 2023; 13(7):1028. Factor de impact (JCR 2022) = 3,3 (Q3)

8. Lungu PF, Lungu C-M, Ciobică A, **Balmus IM**, Boloş A, Dobrin R, Luca AC. METACOGNITION IN SCHIZOPHRENIA SPECTRUM DISORDERS—CURRENT METHODS AND APPROACHES. Brain Sciences. 2023; 13(7):1004. Factor de impact (JCR 2022) = 3,3 (Q3)

9. Mavroudis I, Ciobica A, Luca AC, **Balmus I-M**. POST-TRAUMATIC HEADACHE: A REVIEW OF PREVALENCE, CLINICAL FEATURES, RISK FACTORS, AND TREATMENT STRATEGIES. Journal of Clinical Medicine. 2023; 12(13):4233. Factor de impact (JCR 2022) = 3,9 (Q2)

10. Mavroudis I, **Balmus I-M**, Ciobica A, Luca A-C, Gorgan DL, Dobrin I, Gurzu IL. A REVIEW OF THE MOST RECENT CLINICAL AND NEUROPATHOLOGICAL CRITERIA FOR CHRONIC TRAUMATIC ENCEPHALOPATHY. Healthcare. 2023; 11(12):1689. Factor de impact (JCR 2022) = 2,8 (Q3)

11. Savuca A, Nicoara MN, Ciobica A, Gorgan DL, Ureche D, **Balmus IM**. CURRENT ASPECTS ON THE PLASTIC NANO- AND MICROPARTICLES TOXICITY IN ZEBRAFISH—FOCUS ON THE CORRELATION BETWEEN OXIDATIVE STRESS RESPONSES AND NEURODEVELOPMENT. Animals. 2023; 13(11):1810. Factor de impact (JCR 2022) = 3 (Q1)

12. Mavroudis I, Petridis F, **Balmus I-M**, Ciobica A, Gorgan DL, Luca AC. REVIEW ON THE ROLE OF SALIVARY BIOMARKERS IN THE DIAGNOSIS OF MILD TRAUMATIC BRAIN INJURY AND POST-CONCUSSION SYNDROME. Diagnostics. 2023; 13(8):1367. Factor de impact (JCR 2022) = 3,6 (Q2)

13. Kamal FZ, Lefter R, Jaber H, **Balmus I-M**, Ciobica A, Iordache A-C. THE ROLE OF POTENTIAL OXIDATIVE BIOMARKERS IN THE PROGNOSIS OF ACUTE ISCHEMIC STROKE AND THE EXPLORATION OF ANTIOXIDANTS AS POSSIBLE PREVENTIVE AND TREATMENT OPTIONS. International Journal of Molecular Sciences. 2023; 24(7):6389. Factor de impact (JCR 2022) = 5,6 (Q1)

14. Palimariciuc M, **Balmus I-M**, Gireadă B, Ciobica A, Chiriță R, Iordache A-C, Apostu M, Dobrin RP. THE QUEST FOR NEURODEGENERATIVE DISEASE TREATMENT—FOCUSING ON ALZHEIMER'S DISEASE PERSONALISED DIETS. Current Issues in Molecular Biology. 2023; 45(2):1519-1535. Factor de impact (JCR 2022) = 3,1 (Q3)

15. Ilie O-D, Duta R, **Balmus I-M**, Savuca A, Petrovici A, Nita I-B, Antoci L-M, Jijie R, Mihai C-T, Ciobica A, et al. ASSESSING THE NEUROTOXICITY OF A SUB-OPTIMAL DOSE OF ROTENONE IN ZEBRAFISH (DANIO RERIO) AND THE POSSIBLE NEUROACTIVE POTENTIAL OF VALPROIC ACID, COMBINATION OF LEVODOPA AND CARBIDOPA, AND LACTIC ACID BACTERIA STRAINS. Antioxidants. 2022; 11(10):2040. Factor de impact (JCR 2022) = 7 (Q1)

16. Mavroudis I, Chatzikonstantinou S, Ciobica A, **Balmus I-M**, Iordache A, Kazis D, Chowdhury R, Luca A-C. A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE GREY MATTER VOLUMETRIC CHANGES IN MILD TRAUMATIC BRAIN INJURIES. Applied Sciences. 2022; 12(19):9954 Factor de impact (JCR 2022) = 2,7 (Q2)

17. Curpân, A.S.; **Balmus, I.-M.**; Dobrin, R.P.; Ciobica, A.; Chele, G.E.; Gorgan, D.L.; Boloş, A. A MINI-REVIEW REGARDING THE MODALITIES TO STUDY NEURODEVELOPMENTAL DISORDERS-LIKE IMPAIRMENTS IN ZEBRAFISH — FOCUSING ON NEUROBEHAVIOURAL AND PSYCHOLOGICAL RESPONSES. BRAIN SCIENCES, Volume 12, Article number 1147, DOI: 10.3390/brainsci12091147, Published AUG 2022 Factor de impact (JCR 2022) = 3,3 (Q3)

18. Mavroudis, I.; **Balmus, I.-M.**; Ciobica, A.; Luca, A.-C.; Chowdhury, R.; Iordache, A.-C.; Gorgan, D.L.; Radu, I. MINI-REVIEW ON THE HARLEQUIN SYNDROME — A RARE DYSAUTONOMIC MANIFESTATION REQUIRING ATTENTION. MEDICINA, Volume 58, Issue 7, Article Number 938, DOI 10.3390/medicina58070938, Published JUL 2022. Factor de impact (JCR 2021) = 2,948 (Q3)

19. **Balmus, IM**; Copolovici, D; Copolovici, L; Ciobica, A; Gorgan, DL. BIOMOLECULES FROM PLANT WASTES POTENTIALLY RELEVANT IN THE MANAGEMENT OF IRRITABLE BOWEL SYNDROME AND CO-OCCURRING

SYMPTOMATOLOGY. MOLECULES Volume 27 Issue 8 Article Number 2403. DOI 10.3390/molecules27082403. Published APR 2022. Factor de impact (JCR 2021) = 4,927 (Q2).

20. Lefter, R; Cojocariu, RO; Ciobica, A*; **Balmus, IM***; Mavroudis, I; Kis, A. INTERACTIONS BETWEEN SLEEP AND EMOTIONS IN HUMANS AND ANIMAL MODELS. MEDICINA-LITHUANIA 2022 Volume 58 Issue 2 Article Number 274. DOI10.3390/medicina58020274. Published FEB 2022. Factor de impact (JCR 2021) = 2,948 (Q3).

21. Mavroudis, I; Kazis, D; Petridis, F; Chatzikonstantinou, S; Karantali, E; Njau, S; Costa, V; Ciobica, A; Trus, C; **Balmus, I**; Baloyannis, S. MORPHOLOGICAL AND MORPHOMETRIC CHANGES IN THE PURKINJE CELLS OF PATIENTS WITH ESSENTIAL TREMOR. EXPERIMENTAL AND THERAPEUTIC MEDICINE 2021 Volume 23 Issue 2 Article Number 167. DOI 10.3892/etm.2021.11090. Published FEB 2022. Factor de impact (JCR 2021) = 2,751 (Q4).

22. Mavroudis, I; Kazis, D; Chowdhury, R; Petridis, F; Costa, V; **Balmus, IM**; Ciobica, A; Luca, AC; Radu, I; Dobrin, RP; Baloyannis, S. POST-CONCUSSION SYNDROME AND CHRONIC TRAUMATIC ENCEPHALOPATHY: NARRATIVE REVIEW ON THE NEUROPATHOLOGY, NEUROIMAGING AND FLUID BIOMARKERS. DIAGNOSTICS Volume 12 Issue 3 Article Number 740. DOI 10.3390/diagnostics12030740. Published MAR 2022. Factor de impact (JCR 2021) = 3,992 (Q2).

23. Ilie, OD; Bolos, A; Nita, IB; Cojocariu, RO; **Balmus, IM**; Ciobica, A; Trus, C; Doroftei, B. PRELIMINARY DATA ON GASTROINTESTINAL DEFICIENCIES INCIDENCE AND THE PREVALENCE OF ANXIETY DURING THE COVID-19 PANDEMIC AMONG THE MEDICAL WORKERS. JOURNAL OF NERVOUS AND MENTAL DISEASE Volume 210 Issue 2 Pages 98-103. DOI 10.1097/NMD.0000000000001445. Published FEB 2022. Factor de impact (JCR 2021) = 1,899 (Q4).

24. Mavroudis, I; Chowdhury, R; Petridis, F; Karantali, E; Chatzikonstantinou, S; **Balmus, IM**; Luca, IS; Ciobica, A; Kazis, D. YKL-40 AS A POTENTIAL BIOMARKER FOR THE DIFFERENTIAL DIAGNOSIS OF ALZHEIMER'S DISEASE. MEDICINA-LITHUANIA Volume 58 Issue 1 Article Number 60. DOI 10.3390/medicina58010060. Published JAN 2022. Factor de impact (JCR 2021) = 2,948 (Q3).

25. Ilie, OD; Paduraru, E; Robea, MA; **Balmus, IM**; Jijie, R; Nicoara, M; Ciobica, A; Nita, IB; Dobrin, R; Doroftei, B. THE POSSIBLE ROLE OF BIFIDOBACTERIUM LONGUM BB536 AND LACTOBACILLUS RHAMNOSUS HN001 ON LOCOMOTOR ACTIVITY AND OXIDATIVE STRESS IN A ROTENONE-INDUCED ZEBRAFISH MODEL OF PARKINSON'S DISEASE. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY Volume 2021 Article Number 9629102. DOI 10.1155/2021/9629102. Published OCT 14 2021. Factor de impact (JCR 2021) = 7,31 (Q2).

26. Doroftei, B; Ilie, OD; **Balmus, IM**; Ciobica, A; Maftei, R; Scripcariu, I; Simionescu, G; Grab, D; Stoian, I; Ilea, C. MOLECULAR AND CLINICAL INSIGHTS ON THE COMPLEX INTERACTION BETWEEN OXIDATIVE STRESS, APOPTOSIS, AND ENDOBIOTA IN THE PATHOGENESIS OF ENDOMETRIOSIS. DIAGNOSTICS Volume 11 Issue 8 Article Number 1434. DOI 10.3390/diagnostics11081434. Published AUG 2021. Factor de impact (JCR 2021) = 3,992 (Q2).

27. Jijie, R; Mihalache, G; **Balmus, IM**; Strungaru, SA; Baltag, ES; Ciobica, A; Nicoara, M; Faggio, C. ZEBRAFISH AS A SCREENING MODEL TO STUDY THE SINGLE AND JOINT EFFECTS OF ANTIBIOTICS. PHARMACEUTICALS Volume 14 Issue 6 Article Number 578. DOI 10.3390/ph14060578. Published JUN 2021. Factor de impact (JCR 2021) = 5,215 (Q1).

28. Cojocariu, RO; **Balmus, IM**; Lefter, R; Hritcu, L; Ababei, DC; Ciobica, A; Copaci, S; Mot, SEL; Copolovici, L; Copolovici, DM; Jurcoane, S. *CAMELINA SATIVA* METHANOLIC AND ETHANOLIC EXTRACT POTENTIAL IN ALLEVIATING OXIDATIVE STRESS, MEMORY DEFICITS, AND AFFECTIVE IMPAIRMENTS IN STRESS EXPOSURE-BASED IRRITABLE BOWEL SYNDROME MOUSE MODELS. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY Volume: 2020 Article Number: 9510305 DOI: 10.1155/2020/9510305 Published: DEC 24 2020. Factor de impact ISI JCR (2020) = 6,543 (Q2) (R.O. Cojocariu and I.M. Balmus equally contributed to this work as first authors.)

29. Cojocariu, RO; **Balmus, IM**; Lefter, R; Ababei, DC; Ciobica, A; Hritcu, L; Kamal, F; Doroftei, B. BEHAVIORAL AND OXIDATIVE STRESS CHANGES IN MICE SUBJECTED TO COMBINATIONS OF MULTIPLE STRESSORS RELEVANT TO IRRITABLE BOWEL SYNDROME. BRAIN SCIENCES Volume: 10 Issue: 11 Article Number: 865 DOI: 10.3390/brainsci10110865 Published: NOV 2020. Factor de impact ISI JCR (2020) = 3,394 (Q3). (R.O. Cojocariu and I.M. Balmus equally contributed to this work as first authors.)

30. Robea, MA; **Balmus, IM**; Ciobica, A; Strungaru, S; Plavan, G; Gorgan, LD; Savuca, A; Nicoara, M. PARKINSON'S DISEASE-INDUCED ZEBRAFISH MODELS: FOCUSING ON OXIDATIVE STRESS IMPLICATIONS AND SLEEP PROCESSES. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, Volume: 2020, Article Number: 1370837, DOI: 10.1155/2020/1370837, Published: AUG 18 2020. Factor de impact ISI JCR (2020) = 6,543 (Q2) (Robea M.-A. and Balmus I.-M. equally contributed to this work as first authors).

31. **Balmus, IM**; Cojocariu, RO; Ciobica, A; Strungaru, S; Strungaru-Jijie, R; Cantemir, A; Galatanu, C; Gorgan, L. PRELIMINARY STUDY ON THE TEARS OXIDATIVE STRESS STATUS AND SLEEP DISTURBANCES IN IRRITABLE BOWEL SYNDROME PATIENTS. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY Volume: 2020 Article Number: 4690713 DOI: 10.1155/2020/4690713 Published: MAY 26 2020. Factor de impact ISI JCR(2020) = 6,543 (Q2)

32. **Balmus, IM**; Ciobica, A; Cojocariu, R; Luca, AC; Gorgan, L. IRRITABLE BOWEL SYNDROME AND NEUROLOGICAL DEFICIENCIES: IS THERE A RELATIONSHIP? THE POSSIBLE RELEVANCE OF THE

OXIDATIVE STRESS STATUS. MEDICINA-LITHUANIA Volume: 56 Issue: 4 Article Number: 175 DOI: 10.3390/medicina56040175 Published: APR 2020. Factor de impact ISI JCR (2020) = 2,43 (Q2)

33. Cojocariu, R; **Balmus, I**; Lefter, R; Hritcu, L; Ababei, D; Ciobica, A; Copaci, S; Copolovici, L; Copolovici, D; Jurcoane, S. BENEFICIAL EFFECTS OF CAMELINA SATIVA OIL ON BEHAVIOURAL (MEMORY, ANXIETY, DEPRESSION AND SOCIAL-RELATED) MANIFESTATIONS AND OXIDATIVE STRESS PARAMETERS IN A MICE MODEL OF IRRITABLE BOWEL SYNDROME. ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 25 Issue: 3 Pages: 1532-1540 DOI: 10.25083/rbl/25.3/1532.1540 Published: MAY-JUN 2020. Factor de impact ISI JCR (2019) = 0,765 (Q4)

34. Sfarti, C; Ciobica, A; **Balmus, IM**; Ilie, OD; Trifan, A; Petrea, O; Cojocariu, C; Girleanu, I; Singeap, AM; Stanciu, C. SYSTEMIC OXIDATIVE STRESS MARKERS IN CIRRHOTIC PATIENTS WITH HEPATIC ENCEPHALOPATHY: POSSIBLE CONNECTIONS WITH SYSTEMIC AMMONIEMIA. MEDICINA-LITHUANIA Volume: 56 Issue: 4 Article Number: 196 DOI: 10.3390/medicina56040196 Published: APR 2020. Factor de impact ISI JCR (2020) = 2,43 (Q2)

35. **Balmus, IM**; Alexa, AI; Ciuntu, RE; Danieleescu, C; Stoica, B; Cojocar, SI; Ciobica, A; Cantemir, A. OXIDATIVE STRESS MARKERS DYNAMICS IN KERATOCONUS PATIENTS' TEARS BEFORE AND AFTER CORNEAL COLLAGEN CROSSLINKING PROCEDURE. EXPERIMENTAL EYE RESEARCH Volume: 190 Article Number: 107897 DOI: 10.1016/j.exer.2019.107897 Published: JAN 2020 (Available online 10 DEC 2019). Factor de impact ISI JCR (2019) = 3,011 (Q1)

36. **Balmus, IM**; Ilie, OD; Ciobica, A; Cojocariu, RO; Stanciu, C; Trifan, A; Cimpeanu, M; Cimpeanu, C; Gorgan, L. IRRITABLE BOWEL SYNDROME BETWEEN MOLECULAR APPROACH AND CLINICAL EXPERTISE-SEARCHING FOR GAP FILLERS IN THE OXIDATIVE STRESS WAY OF THINKING. MEDICINA-LITHUANIA Volume: 56 Issue: 1 Article Number: 38 DOI: 10.3390/medicina56010038 Published: JAN 2020. Factor de impact ISI JCR (2020) = 2,43 (Q2)

37. **Balmus, IM**; Lefter, R; Ciobica, A; Cojocar, S; Guenne, S; Timofte, D; Stanciu, C; Trifan, A; Hritcu, L. PRELIMINARY BIOCHEMICAL DESCRIPTION OF BRAIN OXIDATIVE STRESS STATUS IN IRRITABLE BOWEL SYNDROME CONTENTION-STRESS RAT MODEL. MEDICINA-LITHUANIA Volume: 55 Issue: 12 Article Number: 776 DOI: 10.3390/medicina55120776 Published: DEC 2019. Factor de impact ISI JCR (2019) = 1.205 (Q3)

38. **Balmus, IM**; Robea, M.; Ciobica, A.; Timofte, D. PERCEIVED STRESS AND GASTROINTESTINAL HABITS IN COLLEGE STUDENTS. ACTA ENDOCRINOLOGICA (BUCHAREST). 2019 Apr-Jun;15(2):274-275. Factor de impact ISI JCR (2019) = 0.55 (Q4)

39. **Balmus, IM**; Ciobica, A; Stoica, B; Lefter, R; Cojocar, SI; Reznikov, A. EFFECTS OF OXYTOCIN ADMINISTRATION ON THE OXIDATIVE MARKERS IN THE TEMPORAL LOBE OF AGED RATS. NEUROPHYSIOLOGY JOURNAL (Kiev, Ukraine, ISSN: 1573-9007), Vol. 51, No. 1, January, 2019. Factor de impact ISI JCR (2019) = 0,322 (Q4)

40. Cojocariu, R; Ciobica, A; **Balmus, IM**; Guenne, S; Trifan, A; Stanciu, C; Hrițcu, L; Lefter, R. ANTIOXIDANT CAPACITY AND BEHAVIORAL RELEVANCE OF A POLYPHENOLIC EXTRACT OF CHRYSANTHELLUM AMERICANUM IN A RAT MODEL OF IRRITABLE BOWEL SYNDROME. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY 2019 Aug 14; 2019: 3492767. Factor de impact ISI JCR (2019) = 5,076 (Q2)

41. **Balmus, IM**; Lefter, R; Ciobica, A; Antioch, I; Ababei, D; Dobrin, R. PRELIMINARY DATA ON SOME BEHAVIORAL CHANGES INDUCED BY SHORT-TERM INTRAPERITONEAL OXYTOCIN ADMINISTRATION IN AGED RATS. PSYCHIATRIA DANUBINA Volume 30 Issue 1 Page 91-98 DOI 10.24869/psyd.2018.91. Published 2018 Indexed 2018-04-30. Factor de impact ISI JCR (2018) = 0,683 (Q4)

42. **Balmus, IM**; Strungaru, SA; Ciobica, A; Nicoara, MN; Dobrin, R; Plavan, G; Ștefănescu, C. PRELIMINARY DATA ON THE INTERACTION BETWEEN SOME BIOMETALS AND OXIDATIVE STRESS STATUS IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE PATIENTS. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, 2017; 2017: 7156928. Factor de impact ISI JCR (2017) = 4,936 (Q2)

43. **Balmus, IM**; Strungaru, S.; Nicoara, M.; Plavan, G.; Cojocar, S.A; Simion, L. PRELIMINARY DATA REGARDING THE EFFECTS OF OXYTOCIN ADMINISTRATION ON THE OXIDATIVE STRESS STATUS OF ZEBRAFISH (DANIO RERIO). REVISTA DE CHIMIE (BUCHAREST), 2017 vol. 68, no. 7, pp. 1640-1643. Factor de impact ISI JCR (2017) = 1,412 (Q3).

44. **Balmus, IM**; Ciobica, A. MAIN PLANT EXTRACTS' ACTIVE PROPERTIES EFFECTIVE ON SCOPOLAMINE-INDUCED MEMORY LOSS. AMERICAN JOURNAL OF ALZHEIMER'S DISEASE & OTHER DEMENTIAS 2017; XX(X): 1-11. Factor de impact ISI JCR (2017) = 1,602 (Q4).

45. **Balmus, IM**; Ciobica, A.; Antioch, I.; Dobrin, R.; Timofte, D. OXIDATIVE STRESS IMPLICATIONS IN THE AFFECTIVE DISORDERS: MAIN BIOMARKERS, ANIMAL MODELS RELEVANCE, GENETIC PERSPECTIVES, AND ANTIOXIDANT APPROACHES. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY 2016; 2016: 3975101. Factor de impact ISI JCR (2016) = 4,593 (Q2).

46. **Balmus, IM**; Ciobica, A.; Trifan, A.; Stanciu, C. THE IMPLICATIONS OF OXIDATIVE STRESS AND ANTIOXIDANT THERAPIES IN INFLAMMATORY BOWEL DISEASE: CLINICAL ASPECTS AND ANIMAL MODELS. SAUDI JOURNAL OF GASTROENTEROLOGY 2016;22(1):3-17. Factor de impact ISI JCR (2016) = 1,368 (Q4).

47. **Balmus, IM**; Ciobică, A.; Negura, A.; Negura, L.; Anton, E. BASIC ASPECTS IN SELECTING A SUITABLE TRANSGENIC RODENT MODEL FOR ALZHEIMER'S DISEASE. *PSYCHIATRIA DANUBINA* 2015; Vol. 27, No. 4, pp 338–345. Factor de impact ISI JCR (2015) = 1,879 (Q4).
48. Padurariu, M.; **Balmus, M**; Ciobica, A.; Lefter, R.; Cojocaru, S.; Antioch, I.; Foyet, H.S.; Dobrin, R.; Ababei, D.C.; Bild, V. OXYTOCIN ADMINISTRATION IMPROVES MEMORY, ANXIETY AND SOME OXIDATIVE STRESS PARAMETERS IN A METHIONINE-INDUCED RAT MODEL OF SCHIZOPHRENIA. *FARMACIA* 2018; 66(3): 421-431. Factor de impact ISI JCR (2018) = 1,527 (Q4).
49. Alexa, A.I.; Cantemir, A.; Antioch, I.; **Balmus, IM**; Cojocaru, S.; Gardikiotis, R.; Luca, A.; Filip, M.A.; Ababei, D.C.; Zamfir, C.L. THE DYNAMICS OF THE MAIN OXIDATIVE STRESS CHEMICAL MARKERS IN THE SERUM OF RATS STRESSED BY VARIOUS BEHAVIOURAL TASKS. *REVISTA DE CHIMIE (BUCUREȘTI)*, 2017, vol. 68, No. 2, pp. 350 -353. Factor de impact ISI JCR (2017) = 1,412 (Q3).
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ii) Articole publicate în jurnale indexate BDI sau ISI (fără factor de impact):

1. G. Oprea, M. Ghidersa, **I.M. Balmus**, I.S. Luca, A. Ciobica, S. Guenne, M. Cîmpeanu. METHODOLOGICAL ASPECTS REGARDING THE INTERACTIONS BETWEEN MICROFLORA AND NEUROPSYCHIATRIC/METABOLIC DISORDERS. *Annals Series on Biological Sciences. Academy of Romanian Scientists*, Volume 12, No. 1, 2023, pp. 82 – 94. (indexată ISI, fără factor de impact, Web of Science Core Collection: Emerging Sources Citation Index).
2. I. Mavroudis, **I.M. Balmus**, A. Ciobica. BRAIN FUNCTION: FREE ENERGY, PREDICTIVE PROCESSING AND ACTIVE INFERENCE. *Annals Series on Biological Sciences. Academy of Romanian Scientists*. Volume 12, No. 1, 2023, pp. 108-110. (indexată ISI, fără factor de impact, Web of Science Core Collection: Emerging Sources Citation Index).
3. I. Mavroudis, **I.M. Balmus**, A. Ciobica. MILD TRAUMATIC BRAIN INJURY AND CRIMINAL BEHAVIOR. *Annals Series on Biological Sciences. Academy of Romanian Scientists*, Volume 12, No. 1, 2023, pp. 111-117. (indexată ISI, fără factor de impact, Web of Science Core Collection: Emerging Sources Citation Index).
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5. G. Oprea, M. Ghidersa, **I.M. Balmus**, I. Mavroudis, A. Ciobică, M. Cîmpeanu. AN EDITORIAL VIEW ON RESTORING THE BALANCE OF INTESTINAL MICROBIOTA AND ITS RELEVANCE TO MOST OF THE NEUROPSYCHIATRIC DISORDERS. *Bulletin of Integrative Psychiatry*, March 2023, Year XXIX, No. 1 (96), Pp. 25-33. (indexată Index Copernicus, DOAJ, ERIH Plus)
6. G. Oprea, M. Ghidersa, **I.M. Balmus**, I.S. Luca, A. Ciobică, M. Cîmpeanu. THE IMPLICATIONS OF INTESTINAL MICROFLORA IN THE ONSET OF DIGESTIVE, METABOLIC, AND NEUROPSYCHIATRIC DISORDERS AND THEIR INTERACTIONS. *Bulletin of Integrative Psychiatry*, March 2023, Year XXIX, No. 1 (96), Pp. 35-38. (indexată Index Copernicus, DOAJ, ERIH Plus)
7. **I.M. Balmus**, R. Cojocariu, A. Ciobică, A. Cantemir, C. Gălățanu, C. Stanciu, A. Trifan, L. Gorgan, D. Timofte. VALIDATION OF ROMANIAN VERSION OF VISUAL ANALOGUE SCALE FOR IRRITABLE BOWEL SYNDROME QUESTIONNAIRE (VAS-IBS). *BULLETIN OF INTEGRATIVE PSYCHIATRY*, March 2020, Year XXVI, No. 1 (84), Pag. 63-68 (ISSN 2393 – 2694, indexată Index Copernicus, DOAJ, ERIHPLUS, CEEOL).
8. Guenné, S.; **Balmus, L.M.***; Kiendrebéogo, M.; Ciobica, A.; Lefter, R.; Timofte, D. THE RELEVANCE OF ASTERACEAE FAMILY IN MOST OF THE NEUROPSYCHIATRIC DISORDERS TREATMENT, *INTERNATIONAL JOURNAL OF PHYTOMEDICINE* 8:176-182, 2016 (ISSN 0975-0185, indexată Index Copernicus, Elsevier EMBASE, NLM, CAS, Crossref și altele).
9. **Balmus, I.M.**; Ciobica, A. KEY GENETIC SIMILARITIES AND DIFFERENCES BETWEEN ALZHEIMER'S

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10. **Balmus, I.M.**; Ciobică, A.; Lefter, R.; Timofte, D. CURRENT STATUS OF RESEARCH ON TRANSGENIC ANIMAL MODELS FOR ALZHEIMER'S DISEASE. ANALELE FACULTĂȚII DE BIOLOGIE (SERIA GENETICĂ ȘI BIOLOGIE MOLECULARĂ), Vol. 16, Nr. 1, Pag. 17-26, 2015 (ISSN 1582-3571, indexată DOAJ, Index Copernicus, EBSCO, ProQuest).

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12. **Balmus, I.M.**; Negură, L.; Negură, A.; Ciobică, A.; Timofte, D. CURRENT STATUS OF KNOWLEDGE ON ALZHEIMER'S DISEASE GENETICS. ANALELE FACULTĂȚII DE BIOLOGIE (SERIA GENETICĂ ȘI BIOLOGIE MOLECULARĂ) 2014, Vol. 15, Nr. 4, Pag. 1-8 (ISSN 1582-3571, indexată DOAJ, Index Copernicus, EBSCO, ProQuest).

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16. Mavroudis, I.A.; Dimitrios, K.; Petrides, P.; **Balmus, I.M.**; Padurariu, M.; Ciobica, A. CORTICAL NEURONAL TYPES AND EPILEPSY. ANNALS SERIES ON BIOLOGICAL SCIENCES (Academy Of Romanian Scientists), Volume 6, No. 2, 2017, pp. 111 – 121 (ISSN 2285 – 4177, indexată ISSN, în curs de indexare DOAJ).

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20. Ababei, D.; Lefter, L.; Bild, V.; Antioch, I.; **Balmus, I.**; Ciobica, A.; Timofte, D. PRELIMINARY DATA REGARDING SOME PAIN MANIFESTATIONS IN A MPTP-INDUCED RAT MODEL OF PARKINSON'S DISEASE. MEDICAMENTUL VETERINAR / VETERINARY DRUG 2015, Vol. 9(1), 59-62 (ISSN 1843-9527, indexată Index Copernicus, DOAJ).

21. Lunguleac, T.; **Balmus, I.M.***; Grigorescu, C. OXIDATIVE STRESS IMPLICATIONS IN VARIOUS LUNG DISEASES. FOCUSING ON ONE LUNG VENTILATION. MEDICAL-SURGICAL JOURNAL-REVISTA MEDICO-CHIRURGICALA 2015; 119(3) (ISSN 0048-7848, listată pe Web of Science fără factor de impact, Web of Science Core Collection: Emerging Sources Citation Index).

22. Padurariu, M.; Ciobica, A.; **Balmus, I.M.**; Dobrin, R.; Lefter, R.; Stefanescu, C.; Timofte, D. CURENT ASPECTS REGARDING THE BIOLOGICAL, PSYCHOLOGICAL AND SOCIAL IMPLICATIONS OF OXYTOCIN IN THE AFFECTIVE DISORDERS. ROMANIAN JOURNAL OF PSYCHOPHARMACOLOGY 2014, 14, 180-186 (ISSN 1582-7674, indexată Index Copernicus)

E. ARTICOLE/ STUDII PUBLICATE *IN EXTENSO*, în volumele conferințelor internaționale de specialitate:

1. **Balmus, IM**; Ciobica, A; Cojocariu, R; Gorgan, L; Stanciu, C; Trifan, A. CORRELATIVE STUDIES ON THE BIORELEVANCE OF SMOKING IN GASTROINTESTINAL IRRITABLE BOWEL SYNDROME-LIKE SYMPTOMS. Book Group Author(s): IEEE. 2019 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Book Series: E-Health

and Bioengineering Conference Published: 2019

2. Cojocariu, R; Ciobica, A; **Balmus, IM**; Gorgan, L; Padurariu, M; Stanciu, C; Trifan, A. Some mechanical and computational aspects on the correlations that might exist between irritable bowel syndrome versus sleep patterns and disturbances. Book Group Author(s): IEEE. 2019 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Book Series: E-Health and Bioengineering Conference Published: 2019

3. **Balmus, INM**; Ciobica, A; Cojocariu, R; Gorgan, L; Stanciu, C; Trifan, A. THE POSSIBLE BIORELEVANCE OF ALCOHOL CONSUMPTION IN SOME GASTROINTESTINAL IBS-LIKE SYMPTOMS - CORRELATIVE STUDIES BASED ON SURVEYING. Book Group Author(s): IEEE. 2019 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Book Series: E-Health and Bioengineering Conference Published: 2019

4. **Balmus, IM**; Negură, L.; Negură, A.; Ciobică, A. MODERN GENETIC, BEHAVIOURAL AND BIOCHEMICAL ASPECTS IN STUDYING ALZHEIMER'S DISEASE. Conferința Internațională a Școlilor Doctorale din cadrul Universității „Alexandru Ioan Cuza” din Iași, 16 decembrie 2015, Iași, România, prezentare orală

F. Alte lucrări și contribuții științifice.

i) Abstracte publicate în volumele conferințelor:

1. **Balmus IM**, Ciobica A, Gorgan LD. A POPULATIONAL REVIEW OF THE AMYLOID PRECURSOR PROTEIN GENE MUTATIONS RELEVANT TO ALZHEIMER'S DISEASE. EUROPEAN PSYCHIATRY Volume 64 Page S718-S718 Supplement 1 Special Issue SI Meeting Abstract EPV0333 DOI 10.1192/j.eurpsy.2021.1902. Factor de impact ISI JCR (2021) = 7,15 (Q1)

2. Lefter R, Ciobica A, **Balmus IM**. GASTROINTESTINAL FUNCTIONAL IMPAIRMENTS AND EPILEPSY: SEARCHING THE POSSIBLE CONNECTION MECHANISMS. EUROPEAN PSYCHIATRY Volume 64 Page S411-S411 Supplement 1 Special Issue SI Meeting Abstract EPP0804 DOI 10.1192/j.eurpsy.2021.1098. Factor de impact ISI JCR (2021) = 7,15 (Q1)

3. **Balmus, IM**; Cojocariu, R; Lefter, R; Hritcu, L; Ababei, D; Ciobica, A; Copolovici, D; Copolovici, L; Copaci, S; Jurcoane, S. THE EFFECTS OF CAMELINA SATIVA SEED EXTRACT IN A COMPLEX IRRITABLE BOWEL SYNDROME MICE MODEL, FOCUSING ON PRELIMINARY CORRELATIONS BETWEEN LIPID PEROXIDATION AND BEHAVIORAL PARAMETERS. EUROPEAN PSYCHIATRY Volume: 63 Pages: S433-S434 Supplement: 1 Special Issue: SI Meeting Abstract: EPV0767 Published: JUL 2020. Document Type: Meeting Abstract. Factor de impact ISI JCR (2020) = 5,361 (Q1)

4. **Balmus, IM**; Cojocariu, R.; Ilie, O.; Lefter, R.; Ciobica, A.; Trifan, A.; Stanciu, C. MICROBIOME-DEPENDENT ANTIOXIDANT, GASTROINTESTINAL AND NEUROLOGICAL MODULATION OF IRRITABLE BOWEL SYNDROME SYMPTOMATOLOGY. EUROPEAN PSYCHIATRY Volume 63 Page S434-S434 Published JUL 2020 Document Type: Meeting Abstract. Factor de impact ISI JCR (2020) = 5,361(Q1)

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6. **Balmus, IM**; Ciobica, A.; Lefter, R.; Cojocaru, S. NO CLEAR EFFECTS OF OXYTOCIN IN A RAT EPIGENETIC MODEL OF SCHIZOPHRENIA BASED ON METHIONINE ADMINISTRATION. NEW FRONTIERS IN CHEMISTRY 2017 26 (2), S3_P7-S3_P7 (ISSN 2393-2171).

7. **Balmus, IM**; Ciobica, A; Lefter, R; Cojocaru, S. OXYTOCIN ADMINISTRATION IS REDUCING LIPID PEROXIDATION LEVELS IN AGED RATS. NEW FRONTIERS IN CHEMISTRY 2017 26 (2), S3_P8-S3_P8 (ISSN 2393-2171).

8. Strungaru, S.A.; **Balmus, IM**; Cojocaru, S.; Ciobica, A.; Plavan, G.; Nicoara, M. THE EFFECTS OF BRANCHIAL AND TEGMENTAL EXPOSURE OF ZEBRAFISH TO OXYTOCIN ON THE OXIDATIVE STRESS STATUS. NEW FRONTIERS IN CHEMISTRY 2017, 26 (2), S3_P5-S3_P5 (ISSN 2393-2171).

9. Strungaru, S.A.; **Balmus, IM**; Cojocaru, S.; Ciobica, A.; Plavan, G.; Nicoara, M. INTRAPERITONEAL ADMINISTRATION OF TWO DOSES OF OXYTOCIN IN CARASSIUS AURATUS EXERTS ANTIOXIDANT EFFECTS. NEW FRONTIERS IN CHEMISTRY 2017 26 (2), S3_P6-S3_P6 (ISSN 2393-2171).

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DR. BALMUȘ IOANA – MIRUNA