

LISTA LUCRĂRILOR ȘTIINȚIFICE LUCRĂRI PUBLICATE

ADINA – ELENA AVACOVICI

1. Z. Gârban, G. Daranyi, A. Avacovici, R. Palicica and E. Coveșdean - Homeorezia în complexul materno-fetal la animale de laborator. II. Acțiunea Co și Mn asupra biosintezei DNA hepatic., pp. 111-112, "*Diversitatea dezvoltării organismelor, surse de valorificări biotehnologice și socio-economice*", Vol. Rezumate, Sesiunea Științifică din 31 martie - 1 aprilie 1994, București, Publ. Institutul de Biologia Dezvoltării București, 1994
2. G. Daranyi, A. Avacovici and Z. Gârban - Investigații asupra compoziției și etiopatogeniei litiazelor. XX. Aplicarea spectroscopiei în infraroșu și a termoanalizei în studiul urolitiazelor. pp. 144-149, în "*Realizări tehnice și cultural-științifice pe meleagurile arădene*" Profil știința alimentului, Sesiunea științifică din 5-6 mai 1994, Publ. Universitatea "Aurel Vlaicu" Arad, 1994
3. Z. Gârban, G. Daranyi, E. Șișu, A. Avacovici, Fr. Roncov, V. Precob, I. Gogoasă, D. Rădulescu, M. Vincu, N. Holban and E. Coveșdean - Statusul homeoreziei principalilor metaboliți lipidici în consumul cronic de alcool. Date experimentale. pp. 175-180, în "*Realizări tehnice și cultural-științifice pe meleagurile arădene*" Profil știința alimentului, Sesiunea științifică din 5-6 mai 1994, Publ. Universitatea "Aurel Vlaicu" Arad, 1994
4. Z. Gârban, A. Riviș, V. Precob, D. Gâtlan, A. Avacovici, L. Neamțu and L. Orjanu - The action of alcoholic beverages in occasional and chronic consumption in experimental animals. pp. 155-158, "*Lucrări științifice*", Semicentener U.S.A.B. Timișoara, Ed. Eurobit, Timișoara, 1995
5. Z. Gârban, M. Dumitru, D. Lăcătușu, D. Gâtlan, M. Vincu and A. Avacovici - Investigations concerning the concentration of some metal elements in meat food products. Note II. Analytical aspects, importance for human nutrition, p. 175, în "*Lucrări științifice*", Semicentener 1945-1995 Universitatea de Științe Agricole a Banatului Timișoara, Ed. Eurobit, Timișoara, 1995
6. Z. Gârban, G. Daranyi, T. Nicola, A. Avacovici and M. Nicula - Interaction of deoxyribonucleic acid with noxious compounds present in food for humans. I. Implications of the interaction with organic compounds, p. 179, în "*Lucrări științifice*", Semicentener 1945-1995 Universitatea de Științe Agricole a Banatului Timișoara, Ed. Eurobit, Timișoara, 1995
7. G. Daranyi, G. Sigărtău and A. Avacovici - Investigații asupra compoziției și etiopatogeniei litiazelor. XXIII. Investigarea urolitiazelor oxalice cu ajutorul termoanalizei și spectroscopiei de absorbție atomică. *Zilele Academice Timișene*, Ed. a IV-a; 25-27 mai 1995, Timișoara
8. G. Daranyi, Z. Gârban and A. Avacovici - Investigations on the composition and ethiopathogeny of lithiasis. XXIV. Magnesium and calcium in oxalic and phosphatic urolithiasis. *Magnesium Research Suppl.*, 1995, 8 (1), 21
9. G. Daranyi, S. Jula, Z. Gârban, M. Găvrută, M. Vincu and A. Avacovici - Date preliminare privind concentrația unor elemente metalice din carne, p.25, în "*Al IV-lea Simpozion de Magneziu*", Volum Rezumate, Odorheiu-Secuiesc, 6-8 iulie 1995
10. Z. Gârban, G. Daranyi and A. Avacovici - Interaction of deoxyribonucleic acid with noxious compounds present in food for human. II. Polycyclic aromatic hydrocarbons as environmental pollutants. pp. 631-634, in „*Chemistry and the Environment*”, Vrnjacka Banja-Yugoslavia, September 25-29, 1995 (Eds. Todorovic M., Veselinovic D., Golob A.), Printed by Studio "Jovan", Belgrade, 1995

11. I. Gergen, D. Gâtlan and A. Avacovici - Molybdenum complex capable to reduce in vitro NO_3^- to NO_2^- , pp. 111-112, in *"Metal Elements in Environment, Medicine and Biology"*, Tome I, Timișoara, October 21-23, 1993 (Eds. P. Drăgan, Z. Gârban), Publishing House Mirton, Timișoara, 1995
12. L. Pădeanu, M. Bura, A. Avacovici, S. Acatincăi, L. Csiszter, S.M. Calinovici and E. Coveșdean - The influence of some chelated metals on the bees' viability, pp. 175-178, in *"Metal Elements in Environment, Medicine and Biology"*, Tome I, Timișoara, October 21-23, 1993 (Eds. P. Drăgan, Z. Gârban), Publishing House Mirton, Timișoara, 1995
13. I.A. Riviș, C. Vâlculescu, Z. Gârban, L. Neamțu, C. Nicolescu, H. Branea, L. Coceală and A. Avacovici - Implication of metal elements in the cardiovascular pathology, pp. 197-200, in *"Metal Elements in Environment, Medicine and Biology"*, Tome I, Timișoara, October 21-23, 1993 (Eds. P. Drăgan, Z. Gârban), Publishing House Mirton, Timișoara, 1995
14. Z. Gârban, G. Daranyi, M. Dumitru, M. Vincu, A. Avacovici, B. Kovacsovics and I. Lupșa - Investigations concerning the concentration of some metallic elements in meat food products. Note III. Some metallic bioelements in meat. pp. 532-537, in *"Die biologische Bedeutung der Mengen- und Spurenelemente, 15. Arbeitstagung"* Friedrich Schiller Universität Jena, (Hrsg. M. Anke, et al.), Verlag Harald Schubert, Leipzig, 1995
15. Z. Gârban, G. Daranyi, A. Avacovici, A. Riviș A., E. Coveșdean, L. Șerban, D. Rădulescu and M. Pop - Hidrocarburi aromatice policiclice: structură, contaminare alimente, toxicologie, implicații patogene, Vol. II, pp. 141-146, in *"Proceedings of the Scientific Communications Meeting of Aurel Vlaicu University Arad, 3rd edition, Arad, May 16-17, 1996*
16. V. Precob, Z. Gârban, C. Dogaru, A. Riviș, A. Avacovici, Ș. Găzdoiu, E. Șișu and L. Văcărescu Orjanu - Date biochimice experimentale privind efectul alcoolului asupra metabolizilor lipidici sanguini, Vol. II, pp. 163-166, in *"Proceedings of the Scientific Communication Meeting of Aurel Vlaicu University Arad", 3rd edition, Arad, May 16-17, 1996*
17. Z. Gârban, G. Daranyi, P. Drăgan, G. Sigartău, A. Avacovici and A. Urzică - Investigations on the composition and etiopathogeny of lithiasis. XXVII. Thermal analysis and atomic absorption spectroscopy in the identification of urolithiasis. pp. 307-312, in *"New Perspectives in the Research of Hardly Known Trace Elements"*, (Ed. Pais I.), University Press of U.H.F.S. Budapest, 1996
18. G. Daranyi, P. Drăgan, Z. Gârban, G. Sigartău, A. Avacovici and S. Sarafolean - Research on urolithiasis composition by infrared spectroscopy, thermal analysis and atomic absorption spectroscopy. pp. 139-144, in *"Metal Elements in Environment, Medicine and Biology"*, Tome II (Eds. Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 1996
19. Z. Gârban, T. Nicola, G. Daranyi, A. Avacovici and R. Manu - Interaction between deoxyribonucleic acid and cis-platinum in vitro and in vivo. pp.209-221, in *"Metal Elements in Environment, Medicine and Biology"*, Tome II (Eds. Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 1996
20. A. Lăzureanu, I. Gergen, A. Avacovici and M. Vincu - Effects of molybdenum compounds treatments on the development of some vegetables. pp. 281-286, in *"Metal Elements in Environment, Medicine and Biology"*, Tome II; (Eds. Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 1997
21. I. Modoran, A. Avacovici, P. Roth and Ș. Găzdoiu - Distribution of bioactive elements in the soil and vegetation of town Bistrița (industrial zone). pp. 303-308, in *"Metal Elements in Environment, Medicine and Biology"*, Tome II (Eds. Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 1997

22. Z. Gârban, T. Nicola, G. Daranyi, A. Papadaki, I. Moldovan and A. Avacovici - Specific mechanisms in the interaction of cis-platinum with deoxyribonucleic acid and their pharmacological implications. pp 549-558, in "*International Symposium on Trace Elements in Human-New perspectives*", *Proceedings Book* (Ed. S. Ermidou Pollet), Printed by O. Morogianni, Athens, Greece, 1997
23. Z. Gârban, M. Dumitru, G. Daranyi, A. Avacovici, C. Aumuller, M. Vincu and I. Gergen - Effects of the interaction of deoxyribonucleic acid with Co and Cu ions in vitro and in vivo on materno-fetal complexes. pp. 957-964, in "*Mengen- und Spurenelemente, 17. Arbeitstagung*", Friedrich Schiller Universität Jena (Eds. M. Anke et al.), Verlag Harald Schubert Leipzig, 1997
24. G. Daranyi, Z. Gârban and A. Avacovici - Investigations on the composition and etiopathogeny of lithiasis. XXIX. Metallogram of serum, urine and uroconcrements in the surgically treated kidney stone patients; pp. 143-150, in "*Magnesium and interaction of magnesium with trace elements*" (Ed. A.S. Kiss), Publ. by the Hungarian Chemical Society, Budapest, 1998
25. Z. Gârban, S. Sarafolean, I. Gergen, M. Vincu, A. Avacovici and V. Mircov - Efecte biochimice induse de aluminiu în țesuturi și organe la animale de laborator și la om, in "*Scientific researches: Agroalimentary Processes and Technologies*", Univ. SAMVB, Timișoara, 1998, IV, pp. 203-212
26. Z. Gârban, G. Daranyi, P. Drăgan, A. Avacovici - Metallograms in simple and mixed urolithiasis, *J. Trace Elements Experimental Medicine*, 1998, 11, p. 376
27. Z. Gârban and A. Avacovici - *Experimental data concerning the interaction of deoxyribonucleic acid with some alkaline-earth and trace metal ions studied by the method of circular dichroism*, pp. 119-127, in "New Perspectives in the Research of Hardly Known Trace Elements" (ed. I. Pais) University Press of U.H.F.S. Budapest, Hungary, 1998
28. Z. Gârban and A. Avacovici - Applications of circular dichroism in the study of the interaction between DNA and metal ions of some trace elements, pp. 65-70, in "*Metal Elements in Environment, Medicine and Biology*", Tome III, (Eds. Z. Gârban, P. Drăgan) , Publishing House Eurobit Timișoara , 1998
29. I. Gergen, A. Lăzureanu, A. Avacovici and M. Moldoveanu - *Obtainment of some stable salts of tio- and oxotiomolybdates*, in "Metal Elements in Environment, Medicine and Biology", Tome III, 1998 (Eds. P. Drăgan, Z. Gârban) , Publishing House Eurobit Timișoara
30. Z. Gârban, G. Daranyi, A. Avacovici, I. Moldovan and I. Carțiș - Changes induced in homeostasis by the action of cis-platinum on the materno-fetal complex, in pp.873-880, in "*Mengen- und Spurenelemente, 18. Arbeitstagung*" Friedrich Schiller Universität Jena, (Hrsg. M. Anke, et al.), Verlag Harald Schubert Leipzig, 1998
31. Z. Gârban and A. Avacovici - Experimental data concerning the interaction of DNA with some alkaline-earth and trace metal ions studied by the method of circular dichroism, pp. 119-127 in *New Perspectives in the Research of Hardly Known Trace Elements and the Importance of the Interdisciplinary Cooperation* (Ed. I. Pais), University Press of U.H.F.S: Budapest, 1999
32. Z. Gârban, M. Vincu and A. Avacovici - Importance of nutritional studies concerning the concentration of some metallic bioelements in meat and meat products, pp. 21-28, in "*Food Industry Technologies and Nourishment*", Proceedings and lessons of the International Summer School (Eds. D. Mnerie and D. Țucu), Ed. Orizonturi Universitare, Timișoara, 1999
33. I. Moldovan, Z. Gârban, A. Avacovici, C. Dogaru, M. Vincu and L. Moldovan - Peculiarities of the interaction between cis-platinum and DNA according to the concepts of molecular biology, pp. 18-19, in " *2nd Symposium - Drug research between information and life sciences*" Abstracts Volume, București, 1-3 november, 1999
34. G. Daranyi, A. Avacovici and Z. Gârban - Effects of cyclophosphamide on hepatic DNA related with the embryo-fetal complex, pp. 20-21, " 2nd Symposium - Drug

research between information and life sciences" Abstracts Volume, București, 1-3 november, 1999

35. P. Drăgan, G. Daranyi, V. Bucuraș, A. Avacovici, M. Vincu and Z. Gârban - Profile of metallograms in phosphatic uroconcrements, pp. 888-895 in "*Mengen und Spurenelemente, 19. Arbeitstagung 1999*" Fr. Schiller Univ. Jena (Hrsg. M. Anke et al.), Verlag Harald Schubert, Leipzig, 1999
36. M. Vincu, A. Avacovici, M. Moț, M. Pup and R. Manu - Model experimental pentru investigarea acțiunii unor oligoelemente metalice, *Cercetări Științifice, Procese și Tehnologii Alimentare*, Universitatea S.A.M.V.B. Timișoara, Editura Agroprint, Timișoara, 1999
37. G. Daranyi, M. Vincu, Z. Gârban, A. Avacovici, C. Clep, V. Velcirov, A. Rinovetz and C. Șelaru - Nutritional and pharmacological significance of bioavailability related to biomineral compounds, in *Proceedings of the 9th International Symposium on "Perspective in the research of hardly known trace elements and their role in life processes"*, Szeged, Hungary, May 12, 2000
38. Z. Gârban, I. Moldovan, A. Avacovici and G. Daranyi - Structure-activity relationship in case of interaction between cis-platinum and deoxyribonucleic acid, p.517-522, *Current Problems in Cellular and Molecular Biology* (Eds. C. Crăciun, A. Ardelean), Publishing House Risoprint, Cluj - Napoca, 2000
39. G. Daranyi, Z. Gârban, P. Drăgan, V. Bucuraș, A. Avacovici, M. Popa, M. Vincu - Concentration of magnesium in relation with other metals in serum, urine and uroconcrements of the surgically treated kidney stone patients, p. 163, in "*9th International Magnesium Symposium*", Abstracts Volume, Vichy, France, September 10-15, 2000
40. Z. Gârban, Ș. Holban, I. Moldovan, A. Avacovici and S. Sarafolean - Deoxyribonucleic acid interaction with cis-platinum: evaluative modalities of biochemical and pharmacological mechanisms, pp.141-150, in "*Metal Elements in Environment, Medicine and Biology*", Tome IV (Eds. Z. Gârban, P. Drăgan), Publishing House "Eurobit", Timișoara 2000
41. I. Gogoasă, I. Gergen, P. Negrea, A. Avacovici, M. Vincu, D. Țărău and D. Moigrădean - Study regarding the determination of metallic elements from various sorts of vegetables and fruits by emission and atomic absorption spectrometry, pp. 159-164, in "*Metal Elements in Environment, Medicine and Biology*", Tome IV (Eds. Z. Gârban, P. Drăgan), Publishing House "Eurobit", Timișoara 2000
42. Z. Gârban, I. Cartis, A. Avacovici and I. Moldovan - Comparative aspects between the interactions of deoxyribonucleic acid with some cytostatic drugs. Particularisation for the action of cis-platinum and cyclophosphamide. 1. Investigations in vivo on experimental animals. pp.1118-1125, in "*Mengen- und Spurenelemente, 20. Arbeitstagung 1999*" Friedrich Schiller Universität Jena, (Hrsg. M. Anke, et al.), Verlag Harald Schubert, Leipzig, 2000
43. V. Precob, Z. Gârban, A. Avacovici, G. Daranyi, A. Rinovetz, R.C. Patrascu and S.G. Popescu - Studies concerning the action of the occasionally and chronically consumed alcohol on the protein metabolites of laboratory animals, pp- 40-44, in "*Proceedings of the 8th Symposium on Analytical and Environmental Problems*" (Ed. Z. Galbacs), Published by SZAB, Szeged, Hungary, 2001
44. Z. Gârban, G. Daranyi, Ș. Ehling, A. Avacovici, A.B. Martău and C. Clep - Peculiarities of the structure-activity relationship and toxicological effects of the organochlorinated contaminants, p.19 in "*4th Regional Conference on Environment and Health*" Abstract Volume, Szeged, Hungary, May 9-10, 2002
45. Z. Gârban, I. Moldovan, A. Avacovici, A.B. Martău, D.S. Antal and P. Velcirov - The action of cis-platinum administered to female rats in early pregnancy, pp. 584-588, in "*Mengen- und Spurenelemente, 21 Workshop 2002*" Friedrich Schiller Universität Jena, (Hrsg. M. Anke, et al.), Verlag Harald Schubert, Leipzig, 2002

46. Z. Gârban, A. Avacovici and S. Sarafolean - Research concerning the interaction of deoxyribonucleic acid with magnesium and zinc ions, pp. 169-174, in *"Metal Elements in Environment, Medicine and Biology"*, Tome V, (Eds. Z. Gârban, P. Drăgan) Publishing House "Eurobit", Timișoara, 2002
47. R. Gabruș, A.M. Bodescu and A. Avacovici - Cystine complexes of nickel and manganese ions, pp. 155-158, in *"Metal Elements in Environment, Medicine and Biology"*, Tome V, (Eds. Z. Gârban, P. Drăgan) Publishing House "Eurobit", Timișoara, 2002
48. G. Gârban, V. Precob, Z. Gârban, A. Avacovici, E. Simionică and C. Șelaru - Serum lipid metabolites in alcohol consuming rats, *Central European Journal of Occupational and Environmental Medicine*, 2002, 8 (2-3), pp. 157-161
49. Z. Gârban, A. Avacovici, A.B. Martău, D.S. Antal, M. Vincu - Ahmadi, S.G. Popescu and E. Simionică - Aplicații ale biologiei moleculare în biogeneza unor aditivi alimentari din grupa preparatelor enzimatică, *"Scientific Researches: Agroalimentary Processes and Technologies"*, Univ. S.A.M.V.B., Ed. Agroprint Timișoara, 2002, VIII, pp. 23-32
50. G. Gârban, Z. Gârban, P. Drăgan, A. Avacovici, M. Popa, E. Simionică and S.G. Popescu - Magnesium concentration in purinic uroconcrements, pp. 191-199, in *"Magnesium - Involvements in Biology and Pharmacotherapy"* (Eds. M. Nechifor, P.J. Porr), Casa Cărții de Știință. Cluj - Napoca, 2003
51. Z. Gârban, G. Gârban, A. Avacovici, S.G. Popescu, M. Pup, A.B. Martău, E. Simionică and M. Popa - Magnesium and calcium concentration in simple and mixed oxalic uroconcrements, pp. 200-207, in *"Magnesium - Involvements in Biology and Pharmacotherapy"* (Eds. M. Nechifor, P.J. Porr), Casa Cărții de Știință. Cluj - Napoca, 2003
52. G. Gârban, S.G. Popescu, Z. Gârban, P. Drăgan, I. Ionescu, A.B. Martău and A. Avacovici - Serum and urinary magnesium and calcium concentration in kidney stone patients before and after extracorporeal shockwave lithotripsy treatment, p. 64, in *"8th European Magnesium Congress"* Abstract Volume, Cluj - Napoca, Romania, May 25-28, 2004
53. Z. Gârban and A. Avacovici - Comparative aspects of the interaction of DNA with chemical xenobiotics of the class of polycyclic aromatic hydrocarbons and some metals with toxicogen potential, pp. 1748-1762, in *"Mengen- und Spurenelemente, 22. Arbeitstagung 2004"*, Friedrich Schiller Universität Jena, (Hrsg. M. Anke, et al.), Verlag Harald Schubert, Leipzig, 2004
54. A. Avacovici and Z. Gârban - Peculiarities of the interrelation nutrients - xenobiotics from the point of view of the biochemistry of metabolism and of the patobiochemistry of biotransformation, pp. 139-148, in *"Metal Elements in Environment, Medicine and Biology"*, Tome VI, (Eds. Gârban Z., Drăgan P.) Publishing House "Eurobit", Timișoara, 2004
55. G. Gârban, A. Avacovici, Z. Gârban Z. and V. Bocan - Interaction of some chemical xenobiotics with deoxyribonucleic acid , in *"Proceedings of the 11th Symposium on Analytical and Environmental Protection"* (Ed. Z. Galbacs), Publ. by SZAB Szeged, Hungary, 2004
56. A. Avacovici, Z. Gârban and A. Jompan - Peculiarities of the interrelation nutrients-xenobiotics from the point of view of the biochemistry of metabolism and the patobiochemistry of biotransformations, in *"The 6th Danube-Kris-Mures-Tisa Euroregion Meeting on Environmental Medicine and Health"*, Abstract Volume, October 14-15, 2004, Timișoara, Romania
57. Z. Gârban, A.B. Velcirov, P.R. Velcirov, I. Moldovan, A. Avacovici, M. Ahmadi-Vincu Mirela and G.D. Ghibu - Experimental data concerning the action of cisplatin on metal elements in blood, *"Scientific Research: Agroalimentary Processes and Technologies"*, Universitatea "S.A.M.V.B." Timișoara, Ed. Agroprint Timișoara, 2005, XI(1), pp. 147-152

58. Z. Gârban, A. Avacovici, G. Gârban, G.D. Ghibu, A.B. Martău and C.I. Pop - Theoretical aspects and applicative peculiarities. Note I. General characteristics of biomarkers, "*Scientific researches: Agroalimentary Processes and Technologies*", Universitatea "S.A.M.V.B." Timișoara, Ed. Agroprint Timișoara, 2005, XI(1), pp. 139-146
59. A. Avacovici, G. Gârban, G.D. Ghibu and Z. Gârban - Adducts of deoxyribonucleic acid with polycyclic aromatic hydrocarbons and acridinic derivatives, "*Scientific researches: Agroalimentary Processes and Technologies*", Universitatea "S.A.M.V.B." Timișoara, Ed. Agroprint Timișoara, 2005, XI (1), pp. 129-138
60. A. Avacovici and Z. Gârban - Method of circular dichroism for investigating the interaction between DNA and metals. Note II. Peculiarities of the investigations in the system DNA-metal ions, pp. 799-805, in *Macro and Trace Elements, Mengen- und Spurenelemente*, 23. Workshop 2006, Friedrich Schiller Universität Jena (Hrsg. M. Anke et al.), Verlag Harald Schubert Leipzig, 2006
61. A. Avacovici and Z. Gârban - Method of circular dichroism for investigating the interaction between DNA and metals. Note I. Characteristics of the magneto-chemical investigations in the study of the macromolecule, pp. 806-812 in *Macro and Trace Elements, Mengen- und Spurenelemente*, 23. Workshop 2006, Friedrich Schiller Universität Jena (Hrsg. M. Anke et al.), Verlag Harald Schubert Leipzig, 2006
62. G. Gârban, G.D. Ghibu, Z. Gârban, A. Avacovici, C. Aumüller and A.B. Velcirov - Some comparative aspects regarding xenobiochemistry and the problem of DNA-metal ions and DNA-nitrosamines adducts in biomonitoring, pp. 635-640, in *Macro and Trace Elements, Mengen- und Spurenelemente*, 23. Workshop 2006, Friedrich Schiller Universität Jena (Hrsg. M. Anke et al.), Verlag Harald Schubert Leipzig, 2006
63. A. Avacovici and Z. Gârban - Circular dichroism - theory and applications of the interaction of deoxyribonucleic acid with manganese ions., *Journal of Agroalimentary Processes and Technologies*, 2006, XII (2), pp. 529-534
64. A. Avacovici and Z. Gârban - Short overview on some physico-chemical methods used in the investigation of the interaction between DNA and metallic ions, pp. 69-74, in "*Metal Elements in Environment, Medicine and Biology*", Tome V, (Eds. Z. Gârban, P. Drăgan) Publishing House "Eurobit", Timișoara, 2006
65. A. Avacovici and Z. Gârban Metallograms of uroconcrements with purine composition, pp.45-48, in *Proceedings of the 14th Symposium on Analytical and Environmental Problems*, (Ed. Z. Galbacs) Publ. by SZAB, Szeged, Hungary, 2007
66. A. Avacovici, P. Drăgan and Z. Gârban - Infrared spectroscopy applied in biochemistry: characteristic spectra of some substances present in foods and uroconcrements, *Journal of Agroalimentary Processes and Technologies*, 2008, XIV (2), pp. 367-373
67. G.D. Ghibu, M. Balint, G. Gârban, C. Baltă and A. Avacovici - Dyshomeostatic effects of nitrates on urea in leporides, pp. 166-169, in *Proceedings of the 15th Symposium on Analytical and Environmental Problems*, (Ed. Z. Galbacs) Publ. by SZAB, Szeged, Hungary, 2008
68. C. Baltă, A. Avacovici, C. Petrușe and G.D. Ghibu - Characteristics of biochemical homeostasis in experimental animals: leporides and rats. Preliminary note, pp. 371-375, in *Proceedings of the 15th Symposium on Analytical and Environmental Problems*, (Ed. Z. Galbacs) Publ. by SZAB, Szeged, Hungary, 2008
69. A. Avacovici and Z. Gârban - Infrared spectroscopy applied in biochemistry. Characteristic spectra of basic substances from uroconcrements - preliminary data, pp. 149-153, in *Proceedings of the 15th Symposium on Analytical and Environmental Problems*, (Ed. Z. Galbacs) Publ. by SZAB, Szeged, Hungary, 2008
70. A.T. Bogdan, S. Acatincăi, A. Avacovici and Z. Gârban - Biodiversity and xenobiotics related to foods of animal origin, pp. 217-224, in *Metal Elements in Environment*,

Medicine and Biology, Tome VIII (Eds. I. Silaghi-Dumitrescu, Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 2008

71. A.E. Avacovici and Z. Gârban - Characteristics of the metallogram in cystine urolithiasis - investigation means, pp. 61-66, in *Metal Elements in Environment, Medicine and Biology*, Tome VIII (Eds. I. Silaghi-Dumitrescu, Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 2008
72. A.B. Velciov, P.R. Velciov, G. Gârban, A.E. Avacovici, M. Ahmadi and L. Sayti - In vivo effects of cis-platinum on magnesium levels in blood, muscles and heart samples, pp. 259-264, in *Metal Elements in Environment, Medicine and Biology*, Tome VIII (Eds. I. Silaghi-Dumitrescu, Z. Gârban, P. Drăgan), Publishing House Eurobit, Timișoara, 2008
73. Z. Gârban, G.D. Ghibu, A. Avacovici, C. Baltă, G. Gârban and M.E. Mitroi- Effects of sodium nitrate administration in drinking water of leporides regarding zinc concentration in organs and tissues, pp.43-48, in *Metal Elements in Environment, Medicine and Biology*, Tome IX (Eds. I. Silaghi-Dumitrescu, Z. Gârban), Publishing House „Cluj University Press”, Babeș-Bolyai University Cluj-Napoca, 2009.
74. Z. Gârban, G. Gârban, G.D. Ghibu and A.E. Avacovici - Genic recombination at the interface with xenobiochemistry, pp. 191-194, in “*Proceedings of the 16th Symposium on Analytical and Environmental Problems*” (Ed. Z. Galbács), Publ. by SZAB, Szeged, 2009.
75. Z. Gârban and A. Avacovici - Xenobiochemical interconditioning in re-combinant DNA technology: theoretical and applicative aspects, *Journal of Agroalimentary Processes and Technologies*, 2009, 15 (1), pp. 183-190.
76. Z. Gârban, A.E. Avacovici, G. Gârban, F. Peter F., G.D. Ghibu, M. Botoca and A. Cumpănaș - Purine metabolism dyshomeostasis and the heterogenous nucleation of uroconcrements Note I. Alkaline and alkaline-earth metals in purine urolithiasis, *Studia Universitatis Babeș -Bolyai, Chemia*, 55 (1), pp. 103-114, 2010.
77. Z. Gârban, G.D. Ghibu, C. Baltă, A.E. Avacovici, M.E. Mitroi and L. Miclău - Xenobiochemistry at the interface of packaging materials-food. Note I. Packaging materials and specific interactions in vivo, *Journal of Agroalimentary Processes and Technologies*, Timișoara, 2010, XVI (2), pp. 265-275.
78. G. Gârban, A.E. Avacovici, G.D. Ghibu, M.E. Mitroi, C. Baltă, L. Miclău and Z. Gârban - Homeostasis changes induced by cis-platinum in the serum non-protein nitrogenous metabolites in experimental animals, pp.101-106 in *Metal Elements in Environment, Medicine and Biology*, Tome X (Eds. G. Gârban, R. Silaghi-Dumitrescu, L. Sayti), Publishing House „Eurobit”, Timișoara, 2010.
79. Z. Gârban, G.D. Ghibu, G. Gârban, A.E. Avacovici, C. Baltă and N. Hădărugă - Biogenesis of DNA adducts in the DNA/Mⁿ⁺ systems with implications in nutrition, pathobiochemistry and cytostatic pharmacotherapy, pp.143-158, in *Metal Elements in Environment, Medicine and Biology*, Tome X (Eds. G. Gârban, R. Silaghi-Dumitrescu, L. Sayti), Publishing House „Eurobit”, Timișoara, 2010.
80. G. Gârban, G.D. Ghibu, A.E. Avacovici, C. Baltă, N. Hădărugă, S. Ciurlea, M. Ahmadi-Vincu, A.B. Velciov and Z. Gârban - Animal models used in the investigation of xenobiotics of food interest and pharmaceutical interest, *Journal of Agroalimentary Processes and Technologies*, Timișoara, 2011, XVII (1), pp.98-104.
81. A.E. Avacovici, A. Cumpănaș, L. Anca, G.D. Ghibu, C. Baltă and Z. Gârban - Peculiarities of the metallograms of the uroconcrements with urates and phosphates determined by atomic absorption spectroscopy, pp.72-75, in “*Proceedings of the 17th Symposium on Analytical and Environmental Problems*” (Ed. Z. Galbács), Publ. by SZAB, Szeged, 2011 .

LISTA PUBLICAȚIILOR IN VOLUME

CĂRȚI, TRATATE ȘI CAPITOLE DE CARTE

ADINA – ELENA AVACOVICI

In România

1. **Gârban Z., Avacovici Adina–Elena, Gârban Gabriela, Ahmadi Mirela** – Capitol 2. Investigarea ultrastructurii și bioconstituenților, pp. 77-133, în *Biologie moleculară: Concepte, metode, aplicații* (Gârban Z.), editia 6-a , Editura Solness, Timisoara, 2009 (ISBN 978-973-729-179-0).
2. **Gârban Z., Gârban Gabriela, Mihacea S., Avacovici Adina–Elena** – Capitol 6. Investigarea acizilor nucleici în biologia moleculară, pp. 241-291, în *Biologie moleculară: Concepte, metode, aplicații* (Gârban Z.), editia 6-a , Editura Solness, Timisoara, 2009 (ISBN 978-973-729-179-0).
3. **Gârban Gabriela, Avacovici Adina–Elena, Velciov Ariana-Bianca** – Capitol 7. Recombinarea genică naturală, pp. 291-305, în *Biologie moleculară: Concepte, metode, aplicații* (Gârban Z.), editia 6-a , Editura Solness, Timisoara, 2009 (ISBN 978-973-729-179-0).
4. **Gârban Z., Gârban Gabriela, Avacovici Adina–Elena** – Capitol 11. Aplicații în studiul cronobiochimiei, pp. 415-429, în *Biologie moleculară: Concepte, metode, aplicații* (Gârban Z.), editia 6-a , Editura Solness, Timisoara, 2009 (ISBN 978-973-729-179-0).
5. **Avacovici Adina – Elena, Gârban Zeno** – Biochimie structurală, Editura Eurobit, Timișoara, 2008 (ISBN 978-973-620-367-1).
6. **Davidescu Corneliu, Garban Gabriela, Gergen Iosif, Dragan Simona, Vaszilcsin Nicolae, Avacovici Adina** (editori) – *Metal Elements in Environment, Medicine and Biology*, Tome VIII (Silaghi – Dumitrescu I., Gârban Z., Drăgan P. - Ed. Seriei de Simpozioane), Editura Eurobit, Timișoara, 2008, (ISSN 1583 - 4204)
7. **Ahmadi Mirela, Avacovici Adina-Elena, Precob V., Sarafolean S., Gârban Z.** - *Manual de laborator, Vol. I. Bioconstituenți* – complementar la Biochimie : *Tratat Comprehensiv Vol. I* (VI+96 pag.), Editura Eurobit Timisoara, 2007 (ISBN General : 978-973-620-309-1 ; ISBN Vol. I : 978-973-620-311-4).
8. **Gârban Zeno, Avacovici Adina - Elena** – Capitol 3. Bariere biochimice de interes metabolic, pp. 69-92; în *Biochimie: Tratat Comprehensiv, Vol. III, Metabolisme*, ed.3, Editura Orizonturi Universitare Timișoara, 2005 (ISBN 973 - 638 - 248 - 6)
9. **Gârban Zeno, Avacovici Adina - Elena** – Capitol 8. Metabolisme materiale: căi biochimice interactive, pp. 299-326, în *Biochimie: Tratat Comprehensiv, Vol. III, Metabolisme*, ed.3, Editura Orizonturi Universitare Timișoara, 2005 (ISBN 973 - 638 - 248 - 6)

10. **Gârban Zeno, Avacovici Adina - Elena** - Capitol 3. Bariere biochimice de interes metabolic, pp. 69-92; în *Biochimie: Tratat Comprehensiv, Vol. III, Metabolisme*, ed. 2, Editura Didactică și Pedagogică R.A., București, 2004 (ISBN 973 - 30 - 2599 - 2)
11. **Gârban Zeno, Avacovici Adina - Elena** - Capitol 8. Metabolisme materiale: căi biochimice interactive, pp. 297-324, în *Biochimie: Tratat Comprehensiv, Vol. III, Metabolisme*, ed. 2, Editura Didactică și Pedagogică R.A., București, 2004 (ISBN 973 - 30 - 2599 - 2)
12. **Avacovici Adina, Davidescu Corneliu, Drăgan Simona, Gârban Gabriela, Lăzureanu Aurel, Vaszilcsin Nicolae** (editori) - *Metal Elements in Environment, Medicine and Biology*, Tome VI (Gârban Z., Drăgan P. - Ed. Seriei de Simpozioane), Editura Eurobit, Timișoara, 2004 (ISBN 973 - 620 - 119 - 8; ISSN 1583 - 4204)
13. **Avacovici Adina - Elena, Martău Ariana - Bianca, Gârban Zeno** - Biologie Moleculară - metode specifice și aplicații, Editura Eurobit, Timișoara, 2003 (ISBN 973 - 620 - 089 - 2)

B. În străinătate

1. **Daranyi Gabriela, Gârban Zeno, Avacovici Adina** - Chapter 35 „*Investigations on the composition and etiopathogeny of lithiasis. XXVI. Magnesium and calcium in oxalic and phosphatic lithiasis*”, pp. 225-230, in "Advances in Magnesium Research" (Editor Smetana R.), J. Libbey, London - Paris - Rome - Sidney, 1997 (ISBN 0-86196-555-8)