

## LISTA DE LUCRĂRI ȘTIINȚIFICE

### Titlul cercetării de postdoctorat:

„Un nou sistem dual de micelle polimerice inteligente încărcate cu paclitaxel și acid ursolic pentru tratamentul eficient al cancerului de sân”

**Mentor: Prof. univ. Dr. Anca Hermenean**

### Titlul tezei de doctorat:

„Interacțiunea celulelor metastatice cu vascularizația cerebrală”

**Conducător științific: Prof. Dr. Krizbai Istvan**

### Articole/studii in extenso, publicate în reviste cotate ISI cu factor de impact în calitate de autor principal, autor cu drepturi egale, ultim autor sau autor corespondent:

1. Trotta M.C., **Herman H.**, Ciceu A., Mladin B., Rosu M., Lepre C.C., Russo M., Bácskay I., Fenyvesi F., Marfella R., Hermenean A., Balta C., D'Amico M. **2023**. Chrysin-based supramolecular cyclodextrin-calixarene drug delivery system: a novel approach for attenuating cardiac fibrosis in chronic diabetes *Front. Pharmacol.* 14:1332212. doi: 10.3389/fphar.2023.1332212, IF=5,6 (2022) (Q1 AIS Quartile)
2. Trotta, M. C., **Herman, H.**, Balta, C., Rosu, M., Ciceu, A., Mladin, B., Gesualdo, C., Lepre, C. C., Russo, M., Petrillo, F., Pieretti, G., Simonelli, F., Rossi, S., D'Amico, M., & Hermenean, A. **2023**. Oral Administration of Vitamin D3 Prevents Corneal Damage in a Knock-Out Mouse Model of Sjögren's Syndrome. *Biomedicines*, 11(2), 616. <https://doi.org/10.3390/biomedicines11020616>, IF= 4.7 (2022) (Q2 AIS Quartile)
3. Selaru A., **Herman H.**, Vlasceanu G.M., Dinescu S., Gharbia S., Balta C., Rosu M., Mihali C.V., Ionita M., Serafim A., Iovu H., Hermenean A., Costache M. **2022**. Graphene–Oxide Porous Biopolymer Hybrids Enhance In Vitro Osteogenic Differentiation and Promote Ectopic Osteogenesis In Vivo. *Int. J. Mol. Sci.*, 23, 491. <https://doi.org/10.3390/ijms23010491>, IF= 5,6 (Q2 AIS Quartile)
4. Vicas S.#, Laslo V., Timar A., Balta C., **Herman H.#**, Ciceu A., Gharbia S., Rosu M., Mladin B., Fritea L., Cavalu S., Cotoraci C., Prokisch J., Puschita M., Pop C., Miutescu E., Hermenean A. **2021**. Functional Food Product Based on Nanoselenium-Enriched

- Lactobacillus casei* against Cadmium Kidney Toxicity. *Appl. Sci.*, 11, 4220. <https://doi.org/10.3390/app11094220>, IF=2,838 (Q3 AIS Quartile)
5. Vicas S.#, Laslo V., Timar A.V., Balta C., **Herman H.#**, Ciceu A., Gharbia S., Rosu M., Mladin B., Chiana L., Prokisch J., Puschita M., Miutescu E., Cavalu S., Cotoraci C., Hermenean A. **2021**. Nano Selenium—Enriched Probiotics as Functional Food Products against Cadmium Liver Toxicity, *Materials*, 14, 2257. <https://doi.org/10.3390/ma14092257>, IF=3,748 (Q1 AIS Quartile)
  6. Codreanu A., Balta C., **Herman H.**, Cotoraci C., Mihali C.V., Zurbau N., Zaharia C., Rapa M., Stanescu P., Radu I.C., Vasile E., Lupu G., Galateanu G., Hermenean A. **2020**. Bacterial Cellulose-Modified Polyhydroxyalkanoates Scaffolds Promotes Bone Formation in Critical Size Calvarial Defects in Mice. *Materials*, 13(6), 1433; <https://doi.org/10.3390/ma13061433>, IF=3.623. (Q1 AIS Quartile)
  7. **Herman H.**, Fazakas Cs., Haskó J., Molnár K., Mészáros Á., Nyúl-Tóth Á., Szabó G., Erdélyi F., Ardelean A., Hermenean A., Krizbai I.Á., Wilhelm I. **2019**. Paracellular and transcellular migration of metastatic cells through the cerebral endothelium. *Journal of Cellular and Molecular Medicine*. 23(4):2619-2631. DOI: 10.1111/jcmm.14156, IF=4.486 (Q2 AIS Quartile)
  8. Balta C., **Herman H.**, Rosu M., Cotoraci C., Ivan A., Folk A., Duka R., Dinescu S., Costache M., Petre A., Hermenean A. **2016**. Homeostasis of blood parameters and inflammatory markers analysis during bone defect healing after scaffolds implantation in mice calvaria defects, *Romanian Biotechnological Letters*, 22(6): 12018-12025, IF=0.321 (Q3 AIS Quartile)
  9. **Herman H.**, Onita B., Ardelean G., Ardelean D.P., Craciun C., Ardelean A., Hermenean A. **2016**. Ultrastructural alterations, DNA damage and activation of repair mechanism in liver and kidney of *Leuciscus cephalus (L.)* exposed to heavy metals, *Fresenius Environmental Bulletin*, 5(6): 1920-1926, IF=0,425 (Q3 AIS Quartile)
  10. Sasu A., **Herman H.**, Mariasiu T., Rosu M., Balta C., Anghel N., Miutescu E., Cotoraci C., Hermenean A. **2015**. Protective effects of silymarin on epirubicin - induced mucosal barrier injury of the gastrointestinal tract, *Drug and Chemical Toxicology*, 38(4): 442-451, IF= 1,653 (Q3 AIS Quartile)

**Articole/studii în extenso, publicate în reviste cotate ISI cu factor de impact în calitate de coautor:**

1. Stoica Oprea, A. E., Bîrcă, A. C., Mihaiescu, D. E., Grumezescu, A. M., Fikai, A., **Herman H.**, Cornel, B., Roşu, M., Gharbia, S., Holban, A. M., Vasile, B. Ş., Andronescu, E., & Hermenean, A. **2023**. Biocompatibility and Antimicrobial Profile of Acid Usnic-Loaded Electrospun Recycled Polyethylene Terephthalate (PET)-Magnetite Nanofibers. *Polymers*, 15(15), 3282. <https://doi.org/10.3390/polym15153282>, IF= 5 (2022) (Q1 AIS Quartile)



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3. Bîrcă, A. C., Chircov, C., Niculescu, A. G., **Hildegard, H.**, Baltă, C., Roşu, M., Mladin, B., Gherasim, O., Mihaiescu, D. E., Vasile, B. Ş., Grumezescu, A. M., Andronescu, E., & Hermenean, A. O. **2023**. H<sub>2</sub>O<sub>2</sub>-PLA-(Alg)<sub>2</sub>Ca Hydrogel Enriched in Matrigel® Promotes Diabetic Wound Healing. *Pharmaceutics*, 15(3), 857. <https://doi.org/10.3390/pharmaceutics15030857>, IF= 5.4 (2022) (Q1 AIS Quartile)
4. Gharbia, S., Nazarie, S. R., Dinescu, S., Balta, C., **Herman, H.**, Peteu, V. E., Gherghiceanu, M., Hermenean, A., & Costache, M. **2022**. Adipose-Derived Stem Cells (ADSCs) Supplemented with Hepatocyte Growth Factor (HGF) Attenuate Hepatic Stellate Cell Activation and Liver Fibrosis by Inhibiting the TGF-β/Smad Signaling Pathway in Chemical-Induced Liver Fibrosis Associated with Diabetes. *Cells*, 11(21), 3338. <https://doi.org/10.3390/cells11213338>, IF=6 (Q2 AIS Quartile)
5. Trotta, M. C., Gesualdo, C., **Herman, H.**, Gharbia, S., Balta, C., Lepre, C. C., Russo, M., Ito, A., D'Amico, G., Peluso, L., Panarese, I., Pieretti, G., Ferraro, G., Simonelli, F., D'Amico, M., Rossi, S., & Hermenean, A. **2022**. Systemic Beta-Hydroxybutyrate Affects BDNF and Autophagy into the Retina of Diabetic Mice. *Int J Mol Sci.* 23(17):10184. <https://doi.org/10.3390/ijms231710184>, IF=5.6 (Q2 AIS Quartile)
6. Hermenean, A.; Oatis, D.; **Herman, H.**; Ciceu, A.; D'Amico, G.; Trotta, M.C. **2022**. Galectin 1—A Key Player between Tissue Repair and Fibrosis. *Int. J. Mol. Sci.* 23, 5548. <https://doi.org/10.3390/ijms23105548>, IF= 5.6 (Q2 AIS Quartile)
7. Şerban M.V., Nazarie S.-R., Dinescu S., Radu I.-C., Zaharia C., Istrătoiu E.-A., Tănasă E., **Herman H.**, Gharbia S., Baltă C., Hermenean A., Costache M. **2022**. Silk Proteins Enriched Nanocomposite Hydrogels Based on Modified MMT Clay and Poly (2-hydroxyethyl methacrylate-co-2-acrylamido-2-methylpropane Sulfonic Acid) Display Favorable Properties for Soft Tissue Engineering. *Nanomaterials.* 12, 503. <https://doi.org/10.3390/nano12030503>, IF=5.3 (Q2 AIS Quartile)
8. Gesualdo C., Balta C., Platania C.B.M, Trotta M.C., **Herman H.**, Gharbia S., Rosu M., Petrillo F., Giunta S., Della Corte A., Grieco P., Bellavita R., Simonelli F., D'Amico M., Hermenean A., Rossi S., Bucolo C. **2021**. Fingolimod and Diabetic Retinopathy: A Drug Repurposing Study. *Front. Pharmacol.* 12:718902. doi: 10.3389/fphar.2021.718902 IF= 5.988 (Q1 AIS Quartile)
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- Nanotoxicology*, 15(7):973-994. doi:10.1080/17435390.2021.1943032, IF= 5.881 (Q1 AIS Quartile)
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  11. Cotoraci C., Sasu A., Miutescu E., Iovanescu D., Gharbia S., Ciceu A., **Herman H.**, Hermenean A. **2021**. Immunohistochemical Expression Patterns of Tight Junction Proteins, Pro-Apoptotic and Anti-Apoptotic Factors on Progression of Intestinal Mucositis of Onco-Hematological Patients under Epirubicin-Based Chemotherapy, *Appl. Sci.*, 11, 4710. IF=2.838 (Q3 AIS Quartile)
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  13. Ciceu A., Balta C., **Herman H.**, Gharbia S., Ignat S.R., Dinescu S., Váradi J., Fenyvesi F., Gyöngyösi S., Hermenean A., Costache M. **2021**. Complexation with Random Methyl- $\beta$ -cyclodextrin and (2-Hydroxypropyl)- $\beta$ -cyclodextrin Enhances In Vivo Anti-Fibrotic and Anti-Inflammatory Effects of Chrysin via the Inhibition of NF- $\kappa$ B and TGF- $\beta$ 1/Smad Signaling Pathways and Modulation of Hepatic Pro/Anti-Fibrotic miRNA. *Int. J. Mol. Sci.*, 22, 1869, IF=6.208 (Q2 AIS Quartile)
  14. Stan M.S., Badea S., Hermenean A., **Herman H.**, Trica B., Sbarcea B.G., Dinischiotu A. **2021**. New Insights into the Cell Death Signaling Pathways Triggered by Long-Term Exposure to Silicon-Based Quantum Dots in Human Lung Fibroblasts. *Nanomaterials*, 11, 323. <https://doi.org/10.3390/nano11020323>, IF= 5.719 (Q2 AIS Quartile)
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  17. Vlasceanu G.M., Selaru A., Dinescu S., Balta C., **Herman H.**, Gharbia S., Hermenean A., Ionita M., Costache M. **2020**. Comprehensive Appraisal of Graphene–Oxide Ratio in Porous



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18. Bannuscher A., Hellack B., Bahl A., Laloy J., **Herman H.**, Stan M.S., Dinischiotu A., Giusti A., Krause B.C., Tentschert J., Roşu M., Balta C., Hermenean A., Wiemann M., Luch A., Haase A. **2020**. Metabolomics profiling to investigate nanomaterial toxicity in vitro and in vivo, *Nanotoxicology*, <https://doi.org/10.1080/17435390.2020.1764123>, IF=5.913 (Q1 AIS Quartile)
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  20. Cotoraci CA, Sasu A, Onel AFM, Iovăneşcu D, Miuşescu E, Gharbia S, Ciceu AL, **Herman H.**, Hermenean AO. **2020**. The morphological changes of the colonic goblet cells and mucin profile in oncohematological patients under Epirubicin-based chemotherapy. *Rom J Morphol Embryol*. 61(4):1121-1128. doi: 10.47162/RJME.61.4.14. IF=1.033. (Q3 AIS Quartile)
  21. Váradi J., Hermenean A., Gesztelyi R., Jeney V., Balogh E., Majoros L., Malanga M., Fenyvesi É., Szenté L., Bácskay I., Vecsernyés M., Fehér P., Ujhelyi Z., Vasvári G., Árvai I., Rusznyák Á., Balta C., **Herman H.**, Fenyvesi F. **2019**. Pharmacokinetic Properties of Fluorescently Labelled Hydroxypropyl-Beta-Cyclodextrin. *Biomolecules*, 9(10). pii: E509. DOI: 10.3390/biom9100509, IF= 4.082. (Q2 AIS Quartile)
  22. Stan M.S., Voicu S.N., Caruntu S., Nica I.C., Olah N.K., Burtescu R., Balta C., Rosu M., **Herman H.**, Hermenean A., Dinischiotu A. **2019**. Antioxidant and Anti-Inflammatory Properties of a *Thuja occidentalis* Mother Tincture for the Treatment of Ulcerative Colitis. *Antioxidants*, 8(9). pii: E416. DOI: 10.3390/antiox8090416, IF= 5.014 (Q1 AIS Quartile)
  23. Grumezescu A.M., Stoica A.E., Dima-Bălcescu M.Ş., Chircov C., Gharbia S., Baltă C., Roşu M., **Herman H.**, Holban A.M., Ficai A., Vasile B.S., Andronescu E., Chifiriuc M.C., Hermenean A. **2019**. Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-Infective Therapy. *Journal of Clinical Medicine*, 8(7). pii: E1039. DOI: 10.3390/jcm8071039, IF= 3.303 (Q2 AIS Quartile)
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  25. Badea M.A., Balas M., Hermenean A., Ciceu A., **Herman H.**, Ionita D., Dinischiotu A. **2019**. Influence of matrigel on single and multiple-spheroid cultures in breast cancer research. *SLAS Discovery*, 24(5):563-578. DOI: 10.1177/2472555219834698, IF= 2.195 (Q2 AIS Quartile)

26. Trotta M.C., Maisto R., Guida F., Boccella S., Luongo L., Balta C., D'Amico G., **Herman H.**, Hermenean A., Bucolo C., D'Amico M. **2019**. The activation of retinal HCA2 receptors by systemic beta-hydroxybutyrate inhibits diabetic retinal damage through reduction of endoplasmic reticulum stress and the NLRP3 inflammasome. *PlosOne*, 14(1): e0211005. <https://doi.org/10.1371/journal.pone.0211005>, IF=2.740 (Q2 AIS Quartile)
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29. Anghel N., **Herman H.**, Balta C., Rosu M., Stan M.S., Nita D., Ivan A., Galajda Z., Ardelean A., Dinischiotu A., Hermenean A. **2018**. Acute cardiotoxicity induced by doxorubicin in right ventricle is associated with increase of oxidative stress and apoptosis in rats. *Histology and Histopathology*, 33(4):365-378. doi: 10.14670/HH-11-932., IF=1.777 (Q3 AIS Quartile)
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31. Hermenean A., Gheorghiu G., Stan M.S., **Herman H.**, Onita B., Ardelean D.P., Ardelean A., Braun M., Zsuga M., Keki S., Costache M., Dinischiotu A. **2017**. Biochemical, Histopathological and Molecular Responses in Gills of *Leuciscus cephalus* Exposed to Metals, *Archives of Environmental Contamination and Toxicology*, 73(4), 607-618, IF=2,421 (Q3 AIS Quartile)
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34. Zaulet M., Kevorkian S., Dinescu S., Cotoraci C., Suci M., **Herman H.**, Buburuzan L., Badulescu L., Ardelean A., Hermenean A. **2017**. Protective effects of silymarin against



- Bisphenol A-induced hepatotoxicity in mouse liver, *Experimental and Therapeutic Medicine*, 13: 821-828, 2017, IF=1,410 (Q3 AIS Quartile)
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  36. Nyúl-Tóth Á., Suciú M., Molnár J., Fazakas Cs., Haskó J., **Herman H.**, Farkas A.E., Kaszaki J., Hermenean A., Wilhelm I., Krizbai I.A. **2016**. Differences in the molecular structure of the blood-brain barrier in the cerebral cortex and white matter: an in silico, in vitro and ex vivo study. *American Journal of Physiology. Heart and Circulatory Physiology*. 310 (11): H1702-14. IF=3.348 (Q1 AIS Quartile)
  37. Anghel N., Cotoraci C., Ivan A., Suciú M., **Herman H.**, Balta C., Nicolescu L., Olariu T., Galajda Z., Ardelean A., Hermenean A. **2015**. Chrysin attenuates cardiomyocyte apoptosis and loss of intermediate filaments in a mouse model of mitoxantrone cardiotoxicity, *Histology and Histopathology*, 30 (12), 1465-1475, IF=1,875 (Q2 AIS Quartile)
  38. Balta C., **Herman H.**, Boldura O.M., Gasca I., Rosu M., Ardelean A., Hermenean A. **2015**. Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF- $\beta$ /Smad signaling pathway, *Chemico-Biological Interactions* 240 (2015) 94-101, IF=2.618 (Q2 AIS Quartile)
  39. Haskó J., Fazakas C., Molnár J., Nyúl-Tóth A., **Herman H.**, Hermenean A., Wilhelm I., Persidsky Y., Krizbai I. **2014**. CB<sub>2</sub> Receptor Activation Inhibits Melanoma Cell Transmigration through the Blood-Brain Barrier, *International Journal of Molecular Sciences*, 15: 8063-8074, IF= 2,862 (Q2 AIS Quartile)
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1. Mariasiu T., Ivan A., **Herman H.**, Caruntu S., Hadaruga N., Hermenean A. **2016**. Protective effect of  $\alpha/\beta$ -cyclodextrin nanoencapsulated rutin, quercetin and hesperetin against CCl<sub>4</sub>-induced damage on the Huh7 cells. *Studia Universitatis "Vasile Goldis" Arad, Life Sciences Series*, 26(3): 380-384.
2. Sasu A., **Herman H.**, Folk A., Balta C., Rosu M., Miutescu E., Hermenean A., Cotoraci C. **2016**. Protective effects of sylimarin on epirubicin-induced hepatotoxicity in mice, *Studia Universitatis Vasile Goldis, Seria Stiintele Vietii*, vol 26, issue 3, p 305-316.

3. Sasu A., **Herman H.**, Onita B., Onel M., Ghib-Para C., Miutescu E., Cotoraci C. **2016**. Hematological Toxicity after Epirubicin Therapy and the Influence of Silymarin on the Blood Parameters, *Jurnal Medical Aradean (Arad Medical Journal)*, Vol. XIX, issue 1, pp. 5-11
4. **Herman H.**, Pilat L., Mihali C.V., Popescu C., Turcus V., Ardelean A., Gavril A., Mariasiu T., Popa C., Hermenean A. **2011**. Pharmacology of *Sylibum marianum* and its active constituents. Therapeutic activity – Part 2, *Jurnalul Medical Aradean*, 14(2): 35-40
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**Articole/studii in rezumat, publicate în volumele unor conferințe cotate ISI cu factor de impact:**

1. **Herman H.**, Wilhelm I., Fazakas Cs., Hermenean A., Krizbai I, Assessment of breast cancer and melanoma cells transmigration through blood-brain barrier by electron microscopy. *FEBS Journal*, **2015**, vol. 282, suppl. 1, 256, IF= 4.237
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**Brevete de invenție**

1. Patent national OSIM, Romania – aplicația nr. A/00327, 14.06.2022: "Nanosistem supramolecular "drug delivery" de livrare a flavonoidelor pe bază de derivat de calix[4]arene



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2. Patent national OSIM, Romania – aplicația nr. A/00328, 14.06.2022: “Compoziție fitoterapeutică pe bază de extract gemoterapic de *Corylus avellana* îmbogățit cu nanocomplexe de crisină/ciclodextrine destinat fibrozei hepatice în diabetul zaharat și metodă de obținere a acesteia” Publicat RO-BOPI 10/2022 din 28.10.2022
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