

Lista de publicații – Manuela Banciu

ARTICOLE ÎN REVISTE COTATE ISI, CA AUTOR PRINCIPAL:

1. **Banciu M**, Schiffelers RM, Fens MHAM, Metselaar JM, Storm G. (2006) Anti-angiogenic effects of liposomal prednisolone phosphate on B16 melanoma in mice. *J Control Release*. 113 (1): 1-8 . **FI 2006=4.012**
2. **Banciu M**, Schiffelers RM, Metselaar JM, Storm G (2008) Utility of Targeted Glucocorticoids in Cancer Therapy. *J Liposome Res*. 18 (1): 47-57. **FI 2008=2.089**
3. **Banciu M**, Metselaar JM, Schiffelers RM, Storm G (2008) Antitumor activity of liposomal prednisolone phosphate depends on the presence of functional tumor-associated macrophages in tumor tissue. *Neoplasia*, 10 (2):108-117. **FI 2008= 5.191**
4. **Banciu M**, Fens MHM., Storm G, Schiffelers RM (2008) Antitumor activity and tumor localization of liposomal glucocorticoids in B16 melanoma-bearing mice. *J. Control. Release*, 127 (2):131-136. **FI 2008= 5.690**
5. **Banciu M**, Metselaar JM, Schiffelers RM, Storm G. (2008) Liposomal glucocorticoids as tumor-targeted anti-angiogenic nanomedicine in B16 melanoma-bearing mice, *J. Steroid Biochem. Mol. Biol.* 111(1-2):101-110. **FI 2008= 2.827**
6. **Banciu M**, Schiffelers RM, Storm G (2008) Investigation into the role of tumor-associated macrophages in the antitumor activity of Doxil, *Pharm Res.*, 25 (8): 1948–1955. **FI 2008=4.024**
7. Alupei MC, Licarete E, Cristian FB, **Banciu M**. (2014). Cytotoxicity of lipophilic statins depends on their combined actions on HIF-1 α expression and redox status in B16.F10 murine melanoma cells. *Anticancer Drugs*. 25(4): 393-405. **FI 2014= 1.784**
8. Pap PL, Sesarman A, Vágási CI, Buehler DM, Pătraș L, Versteegh MA, **Banciu M**. (2014). No evidence for parasitism-linked changes in immune function or oxidative physiology over the annual cycle of an avian species. *Physiol Biochem Zool*. 87(5): 729-39. **FI 2014= 2.398**
9. Alupei MC, Licarete E, Patras L, **Banciu M** (2015). Liposomal simvastatin inhibits tumor growth via targeting tumor-associated macrophages-mediated oxidative stress. *Cancer Lett.* 356 (2):946-952. **FI 2015= 5.992**
10. Porfire A., Tomuta I., Muntean D., Luca L., Licarete E., Alupei M.C., Achim M., Vlas L., **Banciu M**. (2015). Optimizing long-circulating liposomes for delivery of simvastatin to C26 colon carcinoma cells. *J Liposome Res*. 25(4):261-269. **FI 2015= 1.797**
11. Licarete E, Sesarman A, **Banciu M**. (2015) Exploitation of pleiotropic actions of statins by using tumour-targeted delivery systems. *J Microencapsul*. 32(7):619-31. **FI 2015= 1.631**
12. Patras L, Sesarman A, Licarete E, Luca L, Alupei MC, Rakosy-Tican E, **Banciu M**. (2016) Dual role of macrophages in the response of C26 colon carcinoma cells to 5-fluorouracil administration. *Oncol Lett*. 12(2):1183-1191. **FI 2016= 1.390**
13. Licarete E, Sesarman A, Rauca VF, Luput L, Patras L, **Banciu M**. (2017). HIF-1 α acts as a molecular target for simvastatin cytotoxicity in B16.F10 melanoma cells cultured under chemically induced hypoxia. *Oncol Lett*. 13(5): 3942-3950. **FI 2017= 1.664**
14. Achim M, Tomuta I, Muntean D, Porfire A, Tefas LR, Patras L, Licarete E, Alupei MC, Vlas L, **Banciu M**. (2017) Optimization and in vitro evaluation of 5-fluorouracil - loaded long - circulating liposomes, *FARMACIA* 65 (1): 82-91. **FI 2017= 1.507**
15. Patras L, Sylvester B, Luput L, Sesarman A, Licarete E, Porfire A, Muntean D, Drotar DM, Rusu AD, Nagy AL, Catoi C, Tomuta I, Vlas L, **Banciu M**, Achim M (2017) Liposomal prednisolone phosphate potentiates the antitumor activity of liposomal 5-fluorouracil in C26 murine colon carcinoma in vivo *Cancer Biol Ther* 18(8): 616-626 (autor corespondent). **FI 2017= 3.373**

16. Luput L, Licarete E, Sesarman A, Patras L, Alupe MC, **Banciu M.** (2017). Tumor-associated macrophages favor C26 murine colon carcinoma cell proliferation in an oxidative stress-dependent manner. *Oncol Rep* 37(4): 2472-2480. **FI 2017=2.976**
17. Sesarman A, Tefas L, Sylvester B, Licarete E, Rauca V, Luput L, Patras L, **Banciu M**, Porfire A (2018) Anti-angiogenic and anti-inflammatory effects of long-circulating liposomes co-encapsulating curcumin and doxorubicin on C26 murine colon cancer cells. *Pharmacol Rep* 70(2): 331-339 (autor corespondent) **FI 2018= 2.761**
18. Luput L, Licarete E, Drotar DM, Nagy AL, Sesarman A, Patras L, Rauca VF, Porfire A, Muntean D, Achim M, Tomuta I, Vlase L, Catoi C, Dragos N, **Banciu M.** (2018). In Vivo Double Targeting of C26 Colon Carcinoma Cells and Microenvironmental Protumor Processes Using Liposomal Simvastatin. *J Cancer* 9(2): 440-449. doi:10.7150/jca.21560. **FI 2018=3.182**
19. Rauca VF, Licarete E, Luput L, Sesarman A, Patras L, Bulzu P, Rakosy-Tican E, **Banciu M** (2018) Combination therapy of simvastatin and 5, 6-dimethylxanthenone-4-acetic acid synergistically suppresses the aggressiveness of B16.F10 melanoma cells, *PLoS ONE* 13(8):e0202827. **FI 2018=2.776**
20. Sesarman A, Tefas L, Sylvester B, Licarete E, Rauca V, Luput L, Patras L, Porav S, **Banciu M**, Porfire A. (2019) Co-delivery of curcumin and doxorubicin in PEGylated liposomes favored the antineoplastic C26 murine colon carcinoma microenvironment. *Drug Deliv Transl Res.* 9 (1): 260-272 (autor corespondent) **FI 2019 = 2.664**
21. Patras L, **Banciu M** (2019) Intercellular Crosstalk Via Extracellular Vesicles in Tumor Milieu as Emerging Therapies for Cancer Progression. *Curr Pharm Des.* 25(17):1980-2006. **FI 2019 = 2.208**
22. Licarete E, Rauca VF, Luput L, Patras L, Sesarman A, **Banciu M.** (2019) The prednisolone phosphate-induced suppression of the angiogenic function of tumor-associated macrophages enhances the antitumor effects of doxorubicin on B16.F10 murine melanoma cells in vitro. *Oncol Rep.* 42(6):2694-2705. **FI 2019= 3. 417.**
23. Luput L, Sesarman A, Porfire A, Achim M, Muntean D, Casian T, Patras L, Rauca VF, Drotar DM, Stejerean I, Tomuta I, Vlase L, Dragos N, Toma VA, Licarete E, **Banciu M.** (2020) Liposomal simvastatin sensitizes C26 murine colon carcinoma to the antitumor effects of liposomal 5-fluorouracil in vivo. *Cancer Sci.* 111(4):1344-1356. **FI 2020=6.716.**
24. Patras L, Fens MHAM, Vader P, Barendrecht A, Sesarman A, **Banciu M**, Schiffelers R.(2020) Normoxic Tumour Extracellular Vesicles Modulate the Response of Hypoxic Cancer and Stromal Cells to Doxorubicin In Vitro *Int J Mol Sci.*;21(17):5951. (autor corespondent) **FI 2020=5.924**
25. Licarete E, Rauca VF, Luput L, Drotar D, Stejerean I, Patras L, Dume B, Toma VA, Porfire A, Gherman C, Sesarman A, Banciu M. (2020) Overcoming Intrinsic Doxorubicin Resistance in Melanoma by Anti-Angiogenic and Anti-Metastatic Effects of Liposomal Prednisolone Phosphate on Tumor Microenvironment. *Int J Mol Sci.* 21(8):2968. **FI 2020=5.924**
26. Rauca VF, Patras L, Luput L, Licarete E, Toma VA, Porfire A, Mot AC, Rakosy-Tican E, Sesarman A, Banciu M. (2021) Remodeling tumor microenvironment by liposomal codelivery of DMXAA and simvastatin inhibits malignant melanoma progression. *Sci Rep.* 11(1):22102. **FI 2021=4.997**
27. Negrea G, Rauca VF, Meszaros MS, Patras L, Luput L, Licarete E, Toma VA, Porfire A, Muntean D, Sesarman A, **Banciu M.** (2022) Active Tumor-Targeting Nano-formulations Containing Simvastatin and Doxorubicin Inhibit Melanoma Growth and Angiogenesis. *Front Pharmacol.* 2022 Apr 5;13:870347 **FI 2022=5.6**
28. Patras L, Ionescu AE, Munteanu C, Hajdu R, Kosa A, Porfire A, Licarete E, Rauca VF, Sesarman A, Luput L, Bulzu P, Chiroi P, Tranca RA, Meszaros MS, Negrea G, Barbu-Tudoran L, Potara M, Szedlacsek S, **Banciu M.** (2022) Trojan horse treatment based on PEG-coated extracellular vesicles to deliver doxorubicin to melanoma in vitro and in vivo. *Cancer Biol Ther.* 2022 Dec 31;23(1):1-16 **FI 2022=3.6**

29. Ranamalla SR, Porfire AS, Tomuță I, **Banciu M. (2022)** An Overview of the Supramolecular Systems for Gene and Drug Delivery in Tissue Regeneration. *Pharmaceutics*. 2022 Aug 18;14(8):1733 **FI 2022=5.4**
30. Sesarman A, Luput L, Rauca VF, Patras L, Licarete E, Meszaros MS, Dume BR, Negrea G, Toma VA, Muntean D, Porfire A, **Banciu M. (2024)** Targeting of M2 macrophages with IL-13-functionalized liposomal prednisolone inhibits melanoma angiogenesis in vivo. *J Liposome Res*. 2024 Feb 20:1-12 **FI 2023=3.6**
31. Dume B, Licarete E, **Banciu M (2024)** Advancing Cancer Treatments: The role of oligonucleotides-based therapies in driving progress, *Molecular Therapy: Nucleic Acid* (2024), <https://doi.org/10.1016/j.omtn.2024.102256> **FI 2023=6.5.**

ARTICOLE ÎN REVISTE COTATE ISI, CA ȘI CONTRIBUTOR:

32. Schiffelers RM, **Banciu M**, Metselaar JM, Storm G. (2006) Therapeutic application of long-circulating liposomal glucocorticoids in auto-immune diseases and cancer. *J Liposome Res*. 16 (3): 185-194. **FI 2006= 1.037**
33. Coimbra M, **Banciu M**, Fens MH, de Smet L, Cabaj M, Metselaar JM, Storm G, Schiffelers RM. (2010) Liposomal pravastatin inhibits tumor growth by targeting cancer-related inflammation. *J Control Release*. 148 (3): 303-310. **FI 2010= 7.164**
34. Lobatto ME, Fayad ZA, Silvera S, Vucic E, Calcagno C, Mani V, Dickson SD, Nicolay K, **Banciu M**, Schiffelers RM, Metselaar JM, van Bloois L, Wu HS, Fallon JT, Rudd JH, Fuster V, Fisher EA, Storm G, Mulder WJ. (2010) Multimodal Clinical Imaging To Longitudinally Assess a Nanomedical Anti-Inflammatory Treatment in Experimental Atherosclerosis. *Mol Pharm*. 7 (6): 2020-2029. **FI 2010= 5.400**
35. Moldovan OT, Levei E, Marin C, **Banciu M**, Banciu HL, Pavelescu C, Brad T, Cimpean M, Meleg I, Iepure S, Povara I. (2011) Spatial distribution patterns of the hyporheic invertebrate communities in a polluted river in Romania, *Hydrobiologia*. 669 (1) : 63-82;2011.
36. Baldea I, Olteanu DE, Bolfa P, Ion RM, Decea N, Cenariu M, **Banciu M**, Sesarman AV, Filip AG. (2015) Efficiency of photodynamic therapy on WM35 melanoma with synthetic porphyrins: Role of chemical structure, intracellular targeting and antioxidant defense. *J Photochem Photobiol B*. 151:142-52. **FI 2015= 3.035**
37. Simon T, Potara M, Gabudean AM, Licarete E, **Banciu M**, Astilean S. (2015) Designing Theranostic Agents Based on Pluronic Stabilized Gold Nanoaggregates Loaded with Methylene Blue for Multimodal Cell Imaging and Enhanced Photodynamic Therapy. *ACS Appl Mater Interfaces*. 7(30):16191-201. **FI 2015= 7.145**
38. Potara M, Bawaskar M, Simon T, Gaikwad S, Licarete E, Ingle A, **Banciu M**, Vulpoi A, Astilean S, Rai M. (2015) Biosynthesized silver nanoparticles performing as biogenic SERS-nanotags for investigation of C26 colon carcinoma cells. *Colloids Surf B Biointerfaces*. 133:296-303. **FI 2015= 3.902**
39. Pap PL, Pătraș L, Osváth G, Buehler DM, Versteegh MA, Sesarman A, **Banciu M**, Vágási CI. (2015) Seasonal Patterns and Relationships among Coccidian Infestations, Measures of Oxidative Physiology, and Immune Function in Free-Living House Sparrows over an Annual Cycle. *Physiol Biochem Zool*. 88(4):395-405. **FI 2015=2.007**
40. Tefas LR, Sylvester B, Tomuta I, Sesarman A, Licarete E, **Banciu M**, Porfire A. (2017) Development of antiproliferative long-circulating liposomes co-encapsulating doxorubicin and curcumin, through the use of a quality-by-design approach. *Drug Des Devel Ther*. 11:1605-1621. **FI 2017=2.935**
41. Popa R, Licarete E, **Banciu M**, Sivestru A (2018) Organoselenium compounds containing pyrazole or phenylthiazole groups. Synthesis, structure, tin(IV) complexes and antiproliferative activity. *Appl. Organomet Chem* 32(4): e4252. **FI 2018 = 3.259**
42. Sylvester B, Porfire A, Muntean DM, Vlase L, Lupuț L, Licarete E, Sesarman A, Alupeș MC, **Banciu M**, Achim M, Tomuță I. (2018) Optimization of prednisolone-loaded long-circulating

- liposomes via application of Quality by Design (QbD) approach. *J Liposome Res* 28(1): 49-61. **FI 2018 = 2.507.**
43. Rauca VF, Vlase L, Casian T, Sesarman A, Gheldiu AM, Mocan A, **Banciu M**, Toiu A (2019) Biologically Active Ajuga Species Extracts Modulate Supportive Processes for Cancer Cell Development, *Front. Pharmacol.*, 10:334. doi: 10.3389/fphar.2019.00334. eCollection 2019. **FI 2018= 3.845**
 44. Sesarman A, Muntean D, Abrudan B, Tefas L, Sylvester B, Licarete E, Rauca V, Luput L, Patras L, **Banciu M**, Vlase L, Porfire A. (2019). Improved pharmacokinetics and reduced side effects of doxorubicin therapy by liposomal co-encapsulation with curcumin *J Liposome Res.* 12:1-10. **FI 2019 = 2.455.**
 45. Vieriu, SM, Somesan, AA, Silvestru, C, Licarete, E, **Banciu, M**, Varga, RA. (2021). Synthesis, structural characterization and in vitro antiproliferative effects of novel organotin(iv) compounds with nicotinate and isonicotinate moieties on carcinoma cells, *New J Chem*; 45 (2): 1020-1028. **FI 2021=3.925.**
 46. Barbălată CI, Porfire AS, Sesarman A, Rauca VF, **Banciu M**, Muntean D, Știufiuc R, Moldovan A, Moldovan C, Tomuță I. (2021) A Screening Study for the Development of Simvastatin-Doxorubicin Liposomes, a Co-Formulation with Future Perspectives in Colon Cancer Therapy. *Pharmaceutics*. 2021 Sep 22;13(10):1526 **FI 2021=6.521**
 47. Popa R, David M, Licarete E, **Banciu M**, Silvestru A (2022) On the coordination behaviour of diorganoselenium ligands based on amino and azole functionalities: silver(I) complexes with relevance for biological applications. *New J Chem*; 46 (48) , 23019-23029, **FI 2022=3.3**
 48. Tefas LR, Toma I, Sesarman A, **Banciu M**, Jurj A, Berindan-Neagoe I, Rus L, Știufiuc R, Tomuta I. Co-delivery of gemcitabine and salinomycin in PEGylated liposomes for enhanced anticancer efficacy against colorectal cancer. *J Liposome Res.* 2023 Dec 15:1-17. **FI 2022=4.4**
 49. Suarasan S, Campu A, Vulpoi A, **Banciu M**, Astilean S (2022) Assessing the Efficiency of Triangular Gold Nanoparticles as NIR Photothermal Agents In Vitro and Melanoma Tumor Model. *Int J Mol Sci.* 2022 Nov 8;23(22):13724 **FI 2022=5.6**
 50. Corjuc L, Pop A, Licarete E, **Banciu M**, Silvestru A. (2024) Silver(I) complexes with diorganochalcogen ligands of type(2-MeC₆H₄CH₂)₂E (E = S, Se). Synthesis, structure and antiproliferative activity. *Inorganica Chim. Acta.* 2024 Volume 565, 24 May 2024, 121972
 51. Tiodar ED, Chiriac CM, Pošćić F, Văcar CL, Balázs ZR, Coman C, Weindorf DC, **Banciu M**, Krämer U & Podar D. (2024) Plant colonizers of a mercury contaminated site: trace metals and associated rhizosphere bacteria. *Plant Soil* <https://doi.org/10.1007/s11104-024-06552-7> **FI 2023=3.9.**
 52. Ranamalla, SR, Tavakoli, S, Porfire, AS, Tefas, LR, **Banciu, M**, Tomuta, I, Varghese, OP (2024) CARBOHYDRATE POLYMERS Volume: 339 Article Number: 122251 <https://doi.org/10.1016/j.carbpol.2024.122251>. **FI 2023=10.7.**

Cluj-Napoca, 10.06.2025

Prof. Dr. Habil. Manuela Banciu:

