

## 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 .
2. **Banciu M**, Schiffelers RM, Metselaar JM, Storm G (2008) Utility of Targeted Glucocorticoids in Cancer Therapy. *J Liposome Res*. 18 (1): 47-57.
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.
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.
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.
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.
7. Alupei MC, Licarete E, Cristian FB, **Banciu M**. (2014). Cytotoxicity of lipophilic statins depends on their combined actions on HIF-1 $\alpha$  expression and redox status in B16.F10 murine melanoma cells. *Anticancer Drugs*. 25(4): 393-405.
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.
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.
10. Porfire A., Tomuta I., Muntean D., Luca L., Licarete E., Alupei M.C., Achim M., Vlase L., **Banciu M**. (2015). Optimizing long-circulating liposomes for delivery of simvastatin to C26 colon carcinoma cells. *J Liposome Res*. 25(4):261-269.
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.
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.
13. Licarete E, Sesarman A, Rauca VF, Luput L, Patras L, **Banciu M**.(2017). HIF-1 $\alpha$  acts as a molecular target for simvastatin cytotoxicity in B16.F10 melanoma cells cultured under chemically induced hypoxia. *Oncol Lett*. 13(5): 3942-3950.
14. Achim M, Tomuta I, Muntean D, Porfire A, Tefas LR, Patras L, Licarete E, Alupei MC, Vlase L, **Banciu M**. (2017) Optimization and in vitro evaluation of 5-fluorouracil - loaded long - circulating liposomes, *FARMACIA* 65 (1): 82-91.
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, Vlase 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).

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16. Luput L, Licarete E, Sesarman A, Patras L, Alupeii 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.
17. Sesarman A, Tefas L, Sylvester B, Licarete E, Rauca V, Luput L, Patras L, **Banciu M,** Porfire A. (2017) Anti-angiogenic and anti-inflammatory effects of long-circulating liposomes co-encapsulating curcumin and doxorubicin on C26 murine colon cancer cells *Pharmacol Rep* (<https://doi.org/10.1016/j.pharep.2017.10.004>) (autor corespondent).
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.

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19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.

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28. 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* (DOI: 10.1002/aoc.4252).
29. Sylvester B, Porfire A, Muntean DM, Vlase L, Lupuț L, Licarete E, Sesarman A, Alupei 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. doi: 10.1080/08982104.2016.1254242.

#### ARTICOLE ÎN REVISTE INDEXATE BDI, CA AUTOR PRINCIPAL:

30. **Banciu M.** (2008) Glucocorticoids- a potential anti-angiogenic cancer therapy, *Studia Univ Babes-Bolyai, Biologia*, 53 (2), 101-114.
31. Alupei MC, Maxim RM, **Banciu M.** (2010) Oxidative stress and inflammation – key players in tumor angiogenesis, *Studia Univ Babes-Bolyai, Biologia*, 55 (1), 111-118.
32. Maxim RM, Alupei MC, Pripon S, **Banciu M.** (2011) Evaluation of the inhibitory effects of statins on blood vessel development – prospects for antiangiogenic therapy of cancer, *Studia Univ Babes-Bolyai, Biologia*, 56 (2), 49-57.
33. Rusu AD, Pătraș L, **Banciu M.** (2015) Overview on Nanoparticulate Formulations for 5-fluorouracil Delivery in Colorectal Cancer Treatment. *Studia Univ Babes-Bolyai, Biologia* 60 (2): 89-96.

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34. Banciu H, Olaru F, Hengst V, **Banciu M**, Petrescu I, Mocanu A, Tarba C, Yupsanis T, Tomoaia-Cotisel M, (2007) Partial biochemical characterization of storage protein from aleurone cells of barley (*Hordeum vulgare* L.). *Studia Univ Babes-Bolyai, Biologia*, 52 (1), 37-45.
35. Achim M., Vlase L., **Banciu M.**, Leucuta S.E., (2007) Paclitaxel-loaded poly(lactic-co-glycolic) nanoparticles. Preparation, characterization and in vitro release *FARMACIA*, vol. 55 (3), 358-365.
36. Olaru, F., Sesărman, A., Banciu, H., **Banciu, M.**, Petrescu, I. (2008) Spectrofluorometric analysis of chicken IgY stability after urea treatment. *Studia Univ Babes-Bolyai, Biologia*, 53 (1), 51-58.
37. Rusu M., Banciu H.L., **Banciu M.**, Brad T., Moldovan. O.T. (2010) Oxidative stress enzymes as biomarkers of heavy metal pollution in interstitial invertebrates. *Studia Univ Babes-Bolyai, Biologia*, 55 (2), 61-66.
38. Rus M., Balacescu L., Tudoran O., Braicu C., Berindan-Neagoe I., Buiga R., Nagy V., Todor N., **Banciu M.**, Dragos N., Balacescu O. (2011) Could HPV high risk genotypes predict the response to the therapy in cervical cancer?. *Annals of RSBC*, 16(2), 121-127.

#### ARTICOLE ÎN ALTE REVISTE, CA AUTOR PRINCIPAL:

39. **Covaciu M**, Negrea A, Olaru F, Bîc V, Petrescu I. (2003) Imunoglobuline din gălbenusul de ou: metode de izolare și purificare”, *Analele Soc Nat Biol Cel*, VIII, 516-522 .
40. **Covaciu M**, Olaru F, Petrescu I. (2004) Ovalbumin Isoforms – Purification and Denaturation / Renaturation Studies, *Analele Șt. Univ. “Al. I. Cuza”- Iași, Secțiunea: Genetică și Biologie Moleculară*, V, 38-43.

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41. **Covaciu M**, Olaru F, Sabou I, Petrescu I.(2004) Studii de fluorescență privind denaturarea/renaturarea chimică a izoformelor de ovalbumină, *Analele Soc Nat Biol Cel*, IX (2),160-166.
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#### **ARTICOLE ÎN ALTE REVISTE, CA ȘI CONTRIBUTOR:**

43. Banciu H, **Banciu M**, Olaru F, Bîc V, Petrescu I. (2005) Biotechnology of chicken eggs: neverending opportunities. *Scripta Ornitol. Romaniae*, Vol. II, 86-103.

#### **Cărți:**

44. **Banciu, M.** "Liposomal Targeting of Glucocorticoids to Inhibit Tumor Angiogenesis" PrintPartners Ipskamp, Enschede, Olanda, 2007, pp 210 (ISBN: 978-90-393-4697-6).

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