**Date pentru pagina web generala a Departamentului, rubrica Personal**

**Manuela Banciu Professor Dr.**

Teaching: Biochemistry, Bionanotechnology

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Web page (***link catre pagina web personala detaliata***)

**Date pentru pagina de web personala detaliata**

**Manuela Banciu Professor Dr.**



**Student courses:**

* Metabolism Biochemistry
* Bionanotechnology
* Mathematics with Applications in Biology

**Research interests:**

1) the investigation of the interplay between tumor-associated macrophages (TAMs) and tumor cells in the modulation of supportive processes for tumor growth;

2) the elucidation of the main molecular mechanisms of the cytotoxicity of small molecule anticancer agents that can be exploited for future tumor-targeted therapies;

3) the development of tumor-targeted therapies by using different TAMs re-education strategies.

Selected publications:

1. **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.
2. 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.
3. 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 (corresponding author).
4. 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 (corresponding author);
5. 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.

**Weblinks of interest:**

* ***CV Europass (in English)***
* ***Personal web page***

<https://tumormicroenvironmenttargeting.wordpress.com>

* **Google Scholar citations:**

<https://scholar.google.ro/citations?user=3GfSa8oAAAAJ&hl=en>

* ***Research group and equipments:***

<http://erris.gov.ro/Molecular-Biology-Lab>

<http://erris.gov.ro/Interdisciplinary-Research-I-2>

* ***Other weblinks of interest for students and visitors***

[***https://www.researchgate.net/profile/Manuela\_Banciu***](https://www.researchgate.net/profile/Manuela_Banciu)

[***https://orcid.org/0000-0003-2556-4008***](https://orcid.org/0000-0003-2556-4008)

[***https://publons.com/researcher/D-6425-2011/***](https://publons.com/researcher/D-6425-2011/)