Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Manuela Banciu Address(es)

E-mail

Teaching and Occupational field research

Work experience

Work experience	
Dates Occupation or position held	Since 2020 Dean - Faculty of Biology and Geology (Babes-Bolyai University, Cluj-Napoca, Romania)
Dates	Since 2020
Occupation or position held	Professor- Biochemistry and Bionanotechnology
Main activities and responsibilities	Teaching and research Babes-Bolyai University
Name and address of employer	Cluj-Napoca, Romania
Dates	2013-2020
Occupation or position held	Associate Professor- Biochemistry, Enzymology
Main activities and responsibilities	
Name and address of employer	Babes-Bolyai University, Cluj-Napoca, Romania
Dates	2009 –2013
Occupation or position held	Lecturer-Biochemistry
Main activities and responsibilities	Teaching and research
Name and address of employer	Babes-Bolyai University, Cluj-Napoca, Romania
Dates	2002 – 2008 Teaching assistant-
Occupation or position held	
Main activities and responsibilities	
Name and address of employer	
Type of business or sector Dates	Academic teaching and research 1997-2002
Occupation or position held	· •
Main activities and responsibilities	•
Name and address of employer	SC Terapia SA, Cluj-Napoca, Romania

Education and training Title of qualification awarded	2018-Habilitation in Biology,	
Name and type of organisation providing education and training	Babes-Bolyai University of Cluj-Napoca	
Title of qualification awarded Name and type of organisation providing education and training	2004-2007 PhD. Pharmaceutical Sciences/ Advanced Drug Delivery and Targeting (Promotor: Prof. D Co-promotor: Prof. Dr. Raymond Schiffelers), Utrecht University, The Netherlands	Dr. Gert Storm,
Title of qualification awarded	2005 Euro PhD, Galenos-Marie-Curie Network Fellow,	
Principal subjects/occupational skills covered	Pharmaceutical Sciences/ Drug Delivery and Targeting	
Name and type of organisation providing education and training	Utrecht University, The Netherlands	
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organisation providing education and training	1998 MSc. Cell and molecular biology, Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania	
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organisation providing education and training	1997 BSc. Biology Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania	
Personal skills and competences Mother tongue(s) Other language(s)	Specify mother tongue Romanian English	

Understanding		Speaking				Writing	
	Listening	Reading	Sp	oken interaction	Spoken production		
	C1	C2		C1		C1	C1

Self-assessment

(*) <u>Common European Framework of Reference for Languages</u>

European level (*)

English

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	Related to laboratory work experience							
competences	Cell and molecular biology techniques (protein microarray, Western Blotting), biochemistry techniques of purification and physico-chemical characterization of proteins (gel chromatography, HPLC,							
Technical skills and competences	electrophoresis, ELISA, spectrophotometry, spectrofluorimetry), drug delivery and targeting techniques: preparation of microparticulate sysems, such as liposomes, flow cytometry, immunocytochemistry, animal cell cultivation etc., practical knowledge of basic and applied microbiology (bacterial cell cultivation and identification). Theoretical and practical knowledge of Biochemistry, Biophysics, Cell and Molecular Biology, Genetics, Microbiology, Pharmacology and Pharmacodynamics, Bionanotechnologies.							
Scientific Expertise	Biochemistry, Drug targeting, Oncology, Pharmacology, Tumor Immunology H-index= 25 (Google Scholar), H-index (Web of Science)= 22, H-index							
	(Scopus)=22							
	https://www.webofscience.com/wos/author/rid/D-6425-2011							
	https://orcid.org/0000-0003-2556-4008							
	https://scholar.google.com/citations?user=3GfSa8oAAAAJ&hl=en							
	Selected publications:							
	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. <i>Neoplasia</i> , 10 (2):108-117.							
	 Banciu M, Fens MHM., Storm G, Schiffelers RM (2008) Antitumor activity and tumor localization of liposomal glucocorticoids in B16 melanoma-bearing mice. <i>J. Control. Release</i>, 127 (2):131-136. Banciu M, Schiffelers RM, Storm G (2008) Investigation into the role of tumor-associated 							
	 macrophages in the antitumor activity of Doxil, <i>Pharm Res.</i>, 25 (8):1948–1955. Banciu, M., Metselaar, J. M., Schiffelers, R. M., Storm, G. (2008) Liposomal glucocorticoids as tumor-targeted anti-angiogenic nanomedicine in B16 melanoma-bearing mice, <i>J. Steroid Biochem. Mol.</i> 							
	 Biol. 111(1-2):101-110 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. 							
	Alupei M.C., Licarete E., Patras L., Banciu M. (2015). Liposomal simvastatin inhibits tumor growth via targeting tumor-associated macrophages-mediated oxidative stress. <i>Cancer Lett.</i> 356(2 Pt B):946-52.							
	Porfire Á., 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):261-9.							
	Licarete E, Sesarman A, Banciu M . (2015). Exploitation of pleiotropic actions of statins by using tumour- targeted delivery systems. <i>J Microencapsul</i> . 32(7):619-31.							
	Luput L, Licarete E, Sesarman A, Patras L, Alupei 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.							
	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)							
	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.							
	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.							
	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 Vesicles in Tumor Milieu as Emerging Therapies for Cancer Progression (2019) Curr Pharm Des. 25(17):1980-2006;							
	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 <i>in vivo. Cancer Sci.</i> 111(4):1344-1356;							

- 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;
- Licarete E, Rauca VF, Luput L, Drotar D, Stejerean I, Patras L, Dume B, Toma VA, Porfire A, Gherman C, Sesarman A, **Banciu M**. Overcoming Intrinsic Doxorubicin Resistance in Melanoma by Anti-Angiogenic and Anti-Metastatic Effects of Liposomal Prednisolone Phosphate on Tumor Microenvironment. Int J Mol Sci. 2020;21(8):2968.
- 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.
- 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.;13:870347.
- 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.; 23(1):1-16.

National projects as director :

- 2011-2013- grant UEFISCDI (Romanian Ministry of Education, Research and Innovation), Project code PN II – RU 387/2010, Contract number 145/2010. Title: Molecular markers –key players in the interaction tumor inflammation-oxidative stress as potential targets for anticancer drug delivery therapy.Total value: 340 000RON.
- 2015-2017- grant UEFISCDI (Romanian Ministry of Education, Research and Innovation), Project code PN-II-RU-TE-2014-4-1191 Contract number 235/2015. Title: Re-education strategies of tumor-associated macrophages-perspective for future combined tumor-targeted therapies. Total value:550 000 RON.
- 2017-2019- grant UEFISCDI (Romanian Ministry of Education, Research and Innovation), Project code PN-III-P4-ID-PCE-2016-0342, Contract number 91/2017. Title: Tumor intercellular communication tools- inspiration for future tumor-targeted therapies (IMITATE) Total value: 850 000 RON

International project as responsible for national partner:

Principal investigator of an international project: 2009-2010-Erasmus Intensive Programme within the European Lifelong Learning Programme. Title: Advanced Drug Delivery of Biotechnological Drugs ADELBIOTECH, code 09_MB_IP_00046, contract no.2009-1172-ERA1007877), Coordinator: University of Camerino, Director: Dr Piera di Martino. Person in charge for Babes-Bolyai University: Manuela Banciu Total value: 45 000 Euro.

Principal investigator of a national project: 2012-2016-grant UEFISCDI: Joint Applied Research Projects, Title: Development and preclinical evaluation of nanoparticulate drug delivery systems for targeted antitumor therapy of colorectal cancer, code PN-II-PT-PCCA-2011-3- 2-1060, contract no.95/2010 Director. Dr Laurian Vlase, University of Medicine and Farmacy "Iuliu Hatieganu", ClujNapoca, person in charge for partner 1 Babes-Bolyai University: Manuela Banciu Total value for partner 1:750000RON

International prize: 2008 - Euro-PhD in Advanced Drug Delivery awarded by Galenos Network in the Pharmaceutical Sciences, within "7th Conference and Workshop on Biological Barriers and Nanomedicine - Advanced Drug Delivery and Predictive non vivo Testing Technologies, Saarbrücken, Germany.

Reviewer for ISI journals:

Journal of Controlled Release, International Journal of Cancer, Advanced Drug Delivery Reviews, Pharmaceutical Research, Journal of Liposome Research, European Journal of Pharmaceutical Sciences, European Journal of Clinical Investigation, Tumor Biology, Current Cancer Drug Targets, Oncology Reports, Plos One, International Journal of Nanomedicine.

Editorial board: Oncology letters, Molecular Medicine Reports, Frontiers in Pharmacology (Topic Editor - Women in Nanomedicine)

International and national collaborations: Raymond Schiffelers (Utrecht Medical Center, The Netherlands); Piera diMartino (University of Camerino, Italy); Ana Melero (University of Valencia, Spain); Mircea Ivan (Indiana University, USA); Adriana Filip, Ioan Tomuta, Alina Porfire, Marcela Achim (Iuliu Hatieganu University of Medicine and Pharmacy, Romania), Stefan Szedlacsek, Cristian Munteanu (Institute of Biochemistry of the Romanian Academy (IBAR), Romania); Simion Astilean, (Institute of Interdisciplinary Research on Bio-Nano-Sciences (ICIBNS), UBB, Romania).

Oral presentations/ invited conferences/ courses abroad (selection):	 2007- Pharmaceutical Sciences World Congress, 22.04-25.04.2007, Amsterdam, The Netherlands; 34th Annual Meeting of Controlled Release Society, 07.07-11.07.2007, Long Beach, California, USA; 3rd Annual Session of International Liposome Society. Liposome Advances. Progress in Drug and Vaccine Delivery, 8.12-11.12.2007, London, UK; 2008- 7th Conference and Workshop on Biological Barriers and Nanomedicine - Advanced Drug Delivery and Predictive non vivo Testing Technologies, 20.02.29.02.2008, Saarbrücken, Germany. 2010- Summer school on Advanced Drug Delivery of Biotechnological Drugs, University of Camerino, 21- 30.06.2010, Camerino, Italy. 2012- 52nd Annual Scientific Conference "A New Approach of the Academic Research in Biology", 11.12- 12.12. 2012, Bucharest, Romania; 2009, 2017, 2018- Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, 2017 (Timisoara), 2018 (Bucharest), Romania; 2018- Biobarriers 2018 12th International Conference and Workshop on Biological Barriers, 27-29 August 2018, Saarbrucken, Germany; 2019- University of Valencia, 21.05-25.05.2019, Valencia, Spain; 2019- 24th World Congress on Advances in Oncology, and 24th International Symposium on Molecular Medicine, 10.10-12.10. 2019, Mystras, Sparta, Greece (Co-chair: Workshop on inflammation: the cornerstone of chronic disease.Alteration of Cellular Microenvironment). 2021-MyCRS Drug Delivery Virtual Seminar-Controlled Release Society, Malaysia Local Chapter. 2022-8th Galenus International Workshop Valencia "The shape of things to come - Drug delivery systems from head to toe", Valencia, Spain. 2023-3rd Edition of the OncoHub Conference, Poiana Brasov, Romania 2023-3rd Edition of the OncoHub Conference "Connecting Scientists & Phycians for next generation cancer management", 20-22 Septembrie 2023, Bucureşti, România.
Mentoring activities:	2008-2022-more than 90 Bachelor and Master degree theses; 7 Doctoral and 2 Postdoctoral research projects.
Other relevant professional experiences	2020-2024-Member of CNATDCU (National Council for the Accreditation of Theses, Diplomas and University Titles)-Biology and Biochemistry Board 2024-2028-Vicepresident of CNATDCU-Biology and Biochemistry Board Since 2008-Nanomedicine Group leader (https://centru3b.centre.ubbcluj.ro/en/nanomedicine-group/)
Date:14.03. 2025	Prof. habil. dr. Manuela Banciu