

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Banciu Manuela**  
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 Nationality Romanian  
 Date of birth 26 May 1974  
 Gender F

### Desired employment / Occupational field

#### Teaching and research

### Work experience

**Dates** Since 2013  
 Occupation or position held Associate Professor  
 Main activities and responsibilities Teaching and research  
 Name and address of employer Babes-Bolyai University of Cluj-Napoca, Romania  
 Type of business or sector Academic teaching and research

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**Dates** 2009 –2013  
 Occupation or position held Lecturer  
 Main activities and responsibilities Teaching and research  
 Name and address of employer Babes-Bolyai University of Cluj-Napoca, Romania  
 Type of business or sector Academic teaching and research

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**Dates** 2002 – 2008  
 Occupation or position held Teaching assistant  
 Main activities and responsibilities Teaching and research  
 Name and address of employer Babes-Bolyai University of Cluj-Napoca, Romania  
 Type of business or sector Academic teaching and research

**Dates** 1997-2002  
 Occupation or position held Biologist  
 Main activities and responsibilities Quality Control of Pharmaceuticals  
 Name and address of employer SC Terapia SA, Cluj-Napoca, Romania  
 Type of business or sector Pharmaceuticals Industry

### Education and training

**Dates**  
 Title of qualification awarded 2004-  
 2007 PhD.  
 Principal subjects/occupational skills covered Pharmaceutical Sciences/ Advanced Drug Delivery and Targeting (Promotor: Prof. Dr. Gert Storm, Co-promotor: Prof. Dr. Raymond Schiffelers)  
 Name and type of organisation providing education and training Utrecht University, The Netherlands  
 Level in national or international classification Top 47 according to Shanghai Ranking 2017

**Dates**  
 Title of qualification awarded 2005  
 Principal subjects/occupational skills covered Euro PhD, Galenos-Marie-Curie Network Fellow  
 Pharmaceutical Sciences/ Drug Delivery and Targeting  
 Name and type of organisation providing education and training Utrecht University, The Netherlands  
 Level in national or international classification Top 47 according to Shanghai Ranking 2017

**Dates**  
 Title of qualification awarded 2004  
 Principal subjects/occupational skills covered Company of Biologists (UK) Fellow  
 Pharmaceutical Sciences/ Drug Delivery and Targeting  
 Name and type of organisation providing education and training Utrecht University, The Netherlands  
 Level in national or international classification Top 47 according to Shanghai Ranking 2017

**Dates**  
 Title of qualification awarded 1998  
 Principal subjects/occupational skills covered MSc.  
 Cell and molecular biology  
 Name and type of organisation providing education and training Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania  
 Level in national or international classification Top 601-700 to Shanghai ranking 2017

**Dates**  
 Title of qualification awarded 1997  
 Principal subjects/occupational skills covered BSc.  
 Biology  
 Faculty of Biology and Geology, Babes-Bolyai University of Cluj-Napoca, Romania  
 Level in national or international classification Top 601-700 to Shanghai ranking 2017

### Personal skills and competences

Mother tongue(s)  
 Other language(s)

Self-assessment  
 European level (\*)

English

Specify mother tongue Romanian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

(\*) [Common European Framework of Reference for Languages](http://www.cerl.eu/Common_European_Framework_of_Reference_for_Languages)

Social skills and competences

Team spirit and good communication skills

Organisational skills and competences Research Grant Manager, 2010 - Present  
Related to laboratory work experience  
Basic knowledge in Windows Office

Technical skills and competences Cell and molecular biology techniques (protein microarray, Western Blotting), biochemistry techniques of purification and physico-chemical characterization of proteins (gel chromatography, HPLC, electrophoresis, ELISA, spectrophotometry, spectrofluorimetry), drug delivery and targeting techniques: preparation of microparticulate systems, 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, Bionanotechnology.

## Annexes

**H-index=11 (Web of Science) ResearcherID: D-6425-2011**

### Selected publications:

- Banciu, M.**, Schiffelers, R. M., Fens, M. H. A. M., Metselaar, J. M., Storm, G. (2006) Anti-angiogenic effects of liposomal prednisolone phosphate on B16 melanoma in mice, *J. Control. Release*. 113 (1): 1-8
- 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.
- 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.
- 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.
- Banciu, M.**, Metselaar, J. M., Schiffelers, R. M., 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
- 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., Cristian F.B., **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.
- Alupei M.C., Licarete E., Patras L., **Banciu M.** (2015). Liposomal simvastatin inhibits tumor growth via targeting tumor-associated macrophages-mediated oxidative stress. *Cancer Lett.* 356(2 Pt B):946-52.
- 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):261-9.
- 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.
- 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 stressdependent 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, 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 (corresponding author)
- Luput L, Licarete E, Drotar DM, Nagy AL, Sesarman A, Patras L, Rauca VF, Porfire A, Muntean D, Achim M, Tomuta I, Vlas 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.

### 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.2009-1IT2-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 Pharmacy "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.

Date:1.03. 2018

**Associate Professor Dr.  
Manuela Banciu**

