



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Emilia Licarete**  
Address 162-168, Calea Turzii street  
Cluj-Napoca, Romania  
Mobile 0040-76 7220579 |  
E-mail(s) [emilia\\_licarete@yahoo.com](mailto:emilia_licarete@yahoo.com)  
Nationality Romanian  
Date of birth 02/01/1985  
Gender Female

### Desired employment / Occupational field **Academic teaching and biomedical research**

Dates	2017-present
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching (Immunology and Haematology) and research (cancer biology, drug targeting)
Name and address of employer	Babes-Bolyai University of Cluj-Napoca
Dates	09/2020-08/2021
Occupation or position held	Post-doctoral researcher
Main activities and responsibilities	Research activity (oncology)
Name and address of employer	Indiana University-Purdue University Indianapolis, USA
Type of business or sector	Academic teaching and Research
Type of business or sector	Academic teaching and Research
Dates	2012-2016
Occupation or position held	Post-doctoral Researcher
Main activities and responsibilities	Research activity on projects regarding autoimmune diseases and cancer
Name and address of employer	Babes-Bolyai University of Cluj-Napoca, Institute for Interdisciplinary Research on Bio-Nano-Sciences Molecular Biology Center, 42 August Treboniu-Laurian Street 400271, Cluj-Napoca ROMANIA
Type of business or sector	Academic teaching and Research
Dates	28/05/2008 - 20/01/2009
Occupation or position held	Biologist
Main activities and responsibilities	Testing raw materials, intermediate products and oral solid products for microbial contamination; testing injectable products, detergents and disinfectants for sterility and the presence of bacterial endotoxins; analysing the test results; validation of methods and equipment.

Name and address of employer Terapia Ranbaxy  
124, Fabricii Street, Cluj-Napoca, Romania

Type of business or sector Pharmaceutics

### Education and training

Dates 2008-2012  
Doctoral fellow at the Department of Biology at the Babes-Bolyai University of Cluj-Napoca, Romania (Supervisor: Prof. Dr. Octavian Popescu).

Dates november 2009-june 2011-research stay at the Department of Dermatology, University of Freiburg, Cassian Sitaru's group

Dates 2007 - 2008  
Title of qualification awarded Master in Cellular Biotransformations  
Principal subjects / occupational skills covered Metabolism investigations regarding the hepatoprotective action of a *Spirulina* extract in ethanol intoxicated rats.

Name and type of organisation providing education and training Babes-Bolyai University of Cluj-Napoca  
1, Kogalniceanu Mihail Street, Cluj-Napoca, Romania

Dates 2003 - 2007  
Title of qualification awarded Bachelor in Biology

Name and type of organisation providing education and training Babes-Bolyai University of Cluj-Napoca  
1, Kogalniceanu Mihail Street, Cluj-Napoca, Romania

### Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **English, French**

Self-assessment <i>European level</i> (*)	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
<b>English</b>	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user
<b>French</b>	B2	Independent user	B2	Independent user	B1	Independent user	B2	Independent user	B2	Independent user

(\*) [Common European Framework of Reference \(CEF\) level](#)

Technical Skills and competences Gene cloning and recombinant protein expression in bacteria and mammalian cells, qRT-PCR, protein microarray, ELISA, Immunofluorescence, Western Blotting, HPLC, preparation of long circulating liposomes for drug targeting, animal cell cultures (isolation, cultivation and maintenance, viability and proliferation assays), handling of laboratory animals (anaesthesia immunization, *ex situ* tumor inoculation, intravenous injections).

Social skills and competences Team spirit and ability to adapt to multicultural environments.

Computer skills and competences Basic knowledge in Microsoft Office™ (Word™ and PowerPoint™), Gimp, Inkscape, Gentle, Open Office.

Hobbies Reading scientific literature and fiction, mountain hiking.

Annexes

List of publications  
List of projects

## List of Publications

### a) Articles published in peer-reviewed journals (indexed in Web of Science Core Collection)

1. Licarete E, Rauca V F, Luput L, Drotar D, Stejerean I, Patras L, Dume B, Toma VA, Porfire A, Gherman C, Sesarman A, and 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.
2. 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**, and Banciu M: **Liposomal simvastatin sensitizes C26 murine colon carcinoma to the antitumor effects of liposomal 5-fluorouracil in vivo**, *Cancer Sci.* 2020 Apr; **111**(4):1344-1356
3. Feraru A, Toth ZR, Magyari K, Pap Z, Todea M, Muresan-Pop M, Vodnar DC, **Licarete E**, Hernadi K, Baia L, **Composites based on silicate bioactive glasses and silver iodide microcrystals for tissue engineering applications**. *J. NON-CRYSTALLINE SOLIDS* 2020, **547**:1
4. **Licarete E**, Rauca V, Luput L, Patras L, Sesarman A, Banciu M: **Prednisolone phosphate-induced suppression of angiogenic function of tumor-associated macrophages enhanced the antitumor activity of doxorubicin on B16.F10 murine melanoma cells in vitro**. *Oncology Reports* 2019, **42**(6):2694-2705.
5. Sesarman A, Muntean D, Abrudan B, Tefas L, Sylvester B, **Licarete E**, Rauca V, Luput L, Patras L, Banciu M, Vlase L, Porfire A: **Improved pharmacokinetics and reduced side effects of doxorubicin therapy by liposomal co-encapsulation with curcumin**. *J Liposome Res.* 2019, **12**:1-10.
6. Zaharie-Butucel D, Potara M, Suarasan S, **Licarete E**, Astilean S: **Efficient combined near-infrared-triggered therapy: Phototherapy over chemotherapy in chitosan-reduced graphene oxide-IR820 dye-doxorubicin nanoplatforms**. *J Colloid Interface Sci* 2019, **552**:218-229.
7. Magyari K, Toth ZR, Pap Z, **Licarete E**, Vodnar DC, Todea M, Gyulavari T, Hernadi, K, Baia I, **Insights into the effect of gold nanospheres, nanotriangles and spherical nanocages on the structural, morphological and biological properties of bioactive glasses**. *J. NON-CRYSTALLINE SOLIDS* 2019, **522**
8. Suarasan S, Craciun AM, **Licarete E**, Focsan M, Magyari K, Astilean S: **Intracellular Dynamic Disentangling of Doxorubicin Release from Luminescent Nanogold Carriers by Fluorescence Lifetime Imaging Microscopy (FLIM) under Two-Photon Excitation**. *ACS Appl Mater Interfaces* 2019, **11**(8):7812-7822.
9. Mester A, Ciobanu L, Taulescu M, Apostu D, Lucaciu O, Filip GA, Feldrihan V, **Licarete E**, Ilea A, Piciu A *et al*: **Periodontal disease may induce liver fibrosis in an experimental study on Wistar rats**. *J Periodontol* 2019.
10. Marza SM, Magyari K, Bogdan S, Moldovan M, Pestean C, Nagy A, Tabaran F, **Licarete E**, Suarasan S, Dreanca A *et al*: **Skin wound regeneration with bioactive glass-gold nanoparticles ointment**. *Biomed Mater* 2019, **14**(2):025011.
11. Hada AM, Potara M, Suarasan S, Vulpoi A, Nagy-Simon T, **Licarete E**, Astilean S: **Fabrication of gold-silver core-shell nanoparticles for performing as ultrabright SERS-nanotags inside human ovarian cancer cells**. *Nanotechnology* 2019, **30**(31):315701.
12. Suarasan S, **Licarete E**, Astilean S, Craciun AM: **Probing cellular uptake and tracking of differently shaped gelatin-coated gold nanoparticles inside of ovarian cancer cells by two-photon excited photoluminescence analyzed by fluorescence lifetime imaging (FLIM)**. *Colloids Surf B Biointerfaces* 2018, **166**:135-143.
13. Sesarman A, Tefas L, Sylvester B, **Licarete E**, Rauca V, Luput L, Patras L, Porav S, Banciu M, Porfire A: **Co-delivery of curcumin and doxorubicin in PEGylated liposomes favored the antineoplastic C26 murine colon carcinoma microenvironment**. *Drug Deliv Transl Res* 2018, **9**(1):260-272.
14. Sesarman A, Tefas L, Sylvester B, **Licarete E**, Rauca V, Luput L, Patras L, Banciu M, Porfire A: **Anti-angiogenic and anti-inflammatory effects of long-circulating liposomes co-encapsulating curcumin and doxorubicin on C26 murine colon cancer cells**. *Pharmacol Rep* 2018, **70**(2):331-339.

15. Rauca VF, Licarete E, Luput L, Sesarman A, Patras L, Bulzu P, Rakosy-Tican E, Banciu M: **Combination therapy of simvastatin and 5, 6-dimethylxanthenone-4-acetic acid synergistically suppresses the aggressiveness of B16.F10 melanoma cells.** *PLoS One* 2018, **13**(8):e0202827.
16. Nagy-Simon T, Potara M, Craciun AM, Licarete E, Astilean S: **IR780-dye loaded gold nanoparticles as new near infrared activatable nanotheranostic agents for simultaneous photodynamic and photothermal therapy and intracellular tracking by surface enhanced resonant Raman scattering imaging.** *J Colloid Interface Sci* 2018, **517**:239-250.
17. Luput L, Licarete E, Drotar DM, Nagy AL, Sesarman A, Patras L, Rauca VF, Porfire A, Muntean D, Achim M *et al*: **In Vivo Double Targeting of C26 Colon Carcinoma Cells and Microenvironmental Protumor Processes Using Liposomal Simvastatin.** *J Cancer* 2018, **9**(2):440-449.
18. Tefas LR, Sylvester B, Tomuta I, Sesarman A, Licarete E, Banciu M, Porfire A: **Development of antiproliferative long-circulating liposomes co-encapsulating doxorubicin and curcumin, through the use of a quality-by-design approach.** *Drug Des Devel Ther* 2017, **11**:1605-1621.
19. Potara M, Nagy-Simon T, Craciun AM, Suarasan S, Licarete E, Imre-Lucaci F, Astilean S: **Carboplatin-Loaded, Raman-Encoded, Chitosan-Coated Silver Nanotriangles as Multimodal Traceable Nanotherapeutic Delivery Systems and pH Reporters inside Human Ovarian Cancer Cells.** *ACS Appl Mater Interfaces* 2017, **9**(38):32565-32576.
20. Patras L, Sylvester B, Luput L, Sesarman A, Licarete E, Porfire A, Muntean D, Drotar DM, Rusu AD, Nagy AL *et al*: **Liposomal prednisolone phosphate potentiates the antitumor activity of liposomal 5-fluorouracil in C26 murine colon carcinoma in vivo.** *Cancer Biol Ther* 2017, **18**(8):616-626.
21. Magyari K, Nagy-Simon T, Vulpoi A, Popescu RA, Licarete E, Stefan R, Hernadi K, Papuc I, Baia L: **Novel bioactive glass-AuNP composites for biomedical applications.** *Mater Sci Eng C Mater Biol Appl* 2017, **76**:752-759.
22. Luput L, Licarete E, Sesarman A, Patras L, Alupei MC, Banciu M: **Tumor-associated macrophages favor C26 murine colon carcinoma cell proliferation in an oxidative stress-dependent manner.** *Oncol Rep* 2017, **37**(4):2472-2480.
23. Licarete E, Sesarman A, Rauca VF, Luput L, Patras L, Banciu M: **HIF-1alpha acts as a molecular target for simvastatin cytotoxicity in B16.F10 melanoma cells cultured under chemically induced hypoxia.** *Oncol Lett* 2017, **13**(5):3942-3950.
24. Sylvester B, Porfire A, Muntean DM, Vlase L, Luput L, Licarete E, Sesarman A, Alupei MC, Banciu M, Achim M *et al*: **Optimization of prednisolone-loaded long-circulating liposomes via application of Quality by Design (QbD) approach.** *J Liposome Res* 2016, **28**(1):49-61.
25. Popescu RA, Magyari K, Vulpoi A, Trandafir DL, Licarete E, Todea M, Stefan R, Voica C, Vodnar DC, Simon S *et al*: **Bioactive and biocompatible copper containing glass-ceramics with remarkable antibacterial properties and high cell viability designed for future in vivo trials.** *Biomater Sci* 2016, **4**(8):1252-1265.
26. Patras L, Sesarman A, Licarete E, Luca L, Alupei MC, Rakosy-Tican E, Banciu M: **Dual role of macrophages in the response of C26 colon carcinoma cells to 5-fluorouracil administration.** *Oncol Lett* 2016, **12**(2):1183-1191.
27. Simon T, Potara M, Gabudean AM, Licarete E, Banciu M, Astilean S: **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* 2015, **7**(30):16191-16201.
28. Potara M, Bawaskar M, Simon T, Gaikwad S, Licarete E, Ingle A, Banciu M, Vulpoi A, Astilean S, Rai M: **Biosynthesized silver nanoparticles performing as biogenic SERS-nanotags for investigation of C26 colon carcinoma cells.** *Colloids Surf B Biointerfaces* 2015, **133**:296-303.
29. Licarete E, Sesarman A, Banciu M: **Exploitation of pleiotropic actions of statins by using tumour-targeted delivery systems.** *J Microencapsul* 2015, **32**(7):619-631.

30. Porfire A, Tomuta I, Muntean D, Luca L, Licarete E, Alupei MC, Achim M, Vlase L, Banciu M: **Optimizing long-circulating liposomes for delivery of simvastatin to C26 colon carcinoma cells.** *J Liposome Res* 2014, **25**(4):261-269.
31. Feldrihan V, Licarete E, Florea F, Cristea V, Popescu O, Sitaru C, Chiriac MT: **IgG antibodies against immunodominant C-terminal epitopes of BP230 do not induce skin blistering in mice.** *Hum Immunol* 2014, **75**(4):354-363.
32. Csorba K, Chiriac MT, Florea F, Ghinia MG, Licarete E, Rados A, Sas A, Vuta V, Sitaru C: **Blister-inducing antibodies target multiple epitopes on collagen VII in mice.** *J Cell Mol Med* 2014, **18**(9):1727-1739.
33. Alupei MC, Licarete E, Patras L, Banciu M: **Liposomal simvastatin inhibits tumor growth via targeting tumor-associated macrophages-mediated oxidative stress.** *Cancer Lett* 2014, **356**(2 Pt B):946-952.
34. Alupei MC, Licarete E, Cristian FB, Banciu M: **Cytotoxicity of lipophilic statins depends on their combined actions on HIF-1alpha expression and redox status in B16.F10 melanoma cells.** *Anticancer Drugs* 2014, **25**(4):393-405.
35. Potara M, Boca S, Licarete E, Damert A, Alupei MC, Chiriac MT, Popescu O, Schmidt U, Astilean S: **Chitosan-coated triangular silver nanoparticles as a novel class of biocompatible, highly sensitive plasmonic platforms for intracellular SERS sensing and imaging.** *Nanoscale* 2013, **5**(13):6013-6022.
36. Chiriac MT, Licarete E, Sas AG, Rados AM, Lupan I, Chiriac AM, Speth H, Pop-Vancia V, Domsa I, Sesarman A *et al*: **Passive transfer of collagen XVII-specific antibodies induces sustained blistering disease in adult mice.** *Orphanet J Rare Dis* 2013, **8**:17.
37. Licarete E, Ganz S, Recknagel MJ, Di Zenzo G, Hashimoto T, Hertl M, Zambruno G, Hundorfean G, Mudter J, Neurath MF *et al*: **Prevalence of collagen VII-specific autoantibodies in patients with autoimmune and inflammatory diseases.** *BMC Immunol* 2012, **13**:16.
38. Nishie W, Lamer S, Schlosser A, Licarete E, Franzke CW, Hofmann SC, Jackow J, Sitaru C, Bruckner-Tuderman L: **Ectodomain shedding generates Neopeptides on collagen XVII, the major autoantigen for bullous pemphigoid.** *J Immunol* 2010, **185**(8):4938-4947.

**b) Articles published in journals indexed in international data bases/B+**

1. Alina Sesărman, Emilia Licarete, **Strategies to Improve the Efficacy of Curcumin in Colorectal Cancer Treatment**, Studia Univ. Babeş-Bolyai, ser. Biologia, 2015, 60 (2):97-111.
2. Emilia Licarete, Cassian Sitaru, Mircea Teodor Chiriac, **Myeloperoxidase but not superoxide dismutase inhibition has a protective effect in the ex vivo model of bullous pemphigoid**, Studia Univ. Babeş-Bolyai, ser. Biologia, 2011, 56 (2):59-71.

**c) Abstracts published in the volumes of national and international conferences**

**A) Oral Presentation**

1. Marius Alupei, Lavinia Luput, Emilia Licarete, Laura Patras, Alina Sesarman, Valentin Florian Rauca, Alina Porfire, Andras-Laszlo Nagy, Manuela Banciu. Long-circulating liposomal simvastatin inhibits tumor growth via targeting cancer microenvironment-mediated processes. **The 12th International Conference and Workshop on Biological Biobarriers**, 27-29 August, 2018, Saarbrücken, Germany.
2. Laura Patras, Bianca Sylvester, Lavinia Luput, Alina Porfire, Alina Sesarman, Emilia Licarete, Dana Muntean, Denise Minerva Drotar, Alexandra Doina Rusu, Nagy-Andras Laszlo, Ioan Tomuta, Laurian Vlase, Marcela Achim, Manuela Banciu. Combination therapy of liposomal prednisolone and 5-fluorouracil exerts strong anti-inflammatory and anti-angiogenic effects on C26 colon carcinoma. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 Iunie 2017, Timișoara, România. Abstract book *New frontiers in chemistry*, 26(2), p. S2\_OP8.

3. Lavinia Luput, **Emilia Licarete**, Denise Minerva Drotar, Andras-Laszlo Nagy, Alina Sesarman, Laura Patras, Valentin Florian Rauca, Alina Porfire, Dana Muntean, Marcela Achim, Ioan Tomuta, Laurian Vlase, Manuela Banciu. Efficacy of the liposomal simvastatin in the colon carcinoma treatment approach. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 Iunie 2017, Timișoara, România. Abstract book *New frontiers in chemistry*, 26(2), p. S2\_OP7.
4. Denise-Minerva Drotar, Ioana Stejerean, Valentin-Florian Rauca, Laura Patras, Lavinia Luput, Alina Sesarman, **Emilia Licarete**, Manuela Banciu. Liposomal prednisolone phosphate enhanced antitumor activity of liposomal doxorubicin in B16.F10 murine melanoma *in vivo*. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 Iunie 2017, Timișoara, România. Abstract book *New frontiers in chemistry*, 26(2), p. S2\_OP4.
5. **Emilia Licarete**, Valentin-Florian Rauca, Alina Sesarman, Laura Patras, Lavinia Luput, Manuela Banciu. A novel combination therapy for the treatment of melanoma by targeting tumor cell proliferation and angiogenesis. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 Iunie 2017, Timișoara, România. Abstract book *New frontiers in chemistry*, 26(2), p. S2\_OP5.
6. Valentin-Florian Rauca, **Emilia Licarete**, Alina Sesarman, Lavinia Luput, Laura Patras, Manuela Banciu. Enhanced antitumor efficacy induced by the coadministration of simvastatin and DMXAA on an *in vitro* melanoma inflammation model. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 Iunie 2017, Timișoara, România. Abstract book *New frontiers in chemistry*, 26(2), p. S2\_OP6.
7. Laura Patras, Alexandra Rusu, Alina Sesarman, **Emilia Licarete**, Lavinia Luca, Bianca Sylvester, Dana Muntean, Marcela Achim, Alina Porfire, Ioan Tomuta, Manuela Banciu. Liposome-encapsulated 5-Fluorouracil and prednisolone: a new therapeutic approach for colorectal cancer treatment. **International Symposium „Young Researchers in BioSciences”**, 22-26 July, 2015, Cluj-Napoca, Romania. Abstract book, p. 14.
8. Laura Patras, Alexandra Rusu, Alina Sesarman, **Emilia Licarete**, Lavinia Luca, Bianca Sylvester, Dana Muntean, Marcela Achim, Alina Porfire, Ioan Tomuta, Manuela Banciu. *In vivo* liposomal delivery of 5-Fluorouracil and prednisolone for colorectal cancer treatment. **7th National Congress with International Participation and 33rd Annual Scientific Session of Romanian Society for Cell Biology**, 11-14 June, 2015, Baia Mare, Romania. *Buletin of Romanian Society for Cell Biology*, 43, p. 45.
9. Lavinia Luca, **Emilia Licarete**, Alina Sesarman, Laura Patras, Manuela Banciu. TAMs induced oxidative stress sustain pro-tumoral processes in C26 colon carcinoma cell. **International Symposium „Young Researchers in BioSciences”**, 22-26 July, 2015, Cluj-Napoca, Romania. Abstract book, p. 16.
10. **Emilia Licarete**, Alina Sesarman, Lavinia Luca, Laura Patras, Manuela Banciu. Simvastatin is a powerful inhibitor of angiogenesis in B16.F10 murine melanoma cells under hypoxic condition. **7th National Congress with International Participation and 33rd Annual Scientific Session of Romanian Society for Cell Biology**, 11-14 June, 2015, Baia Mare, Romania. *Buletin of Romanian Society for Cell Biology*, 43, p. 23.
11. **Emilia Licarete**, Alina Sesarman, Lavinia Luca, Laura Patras, Manuela Banciu. HIF-1 A – the key player in the simvastatin cytotoxicity on B16.F10 murine melanoma cells. **International Conference of the Romanian Society of Biochemistry and Molecular Biology**, 17-18 september 2015, Bucharest, Romania, Book of abstract RSBMB International Conference 2015, p.88.
12. Laura Patras, **Emilia Licarete**, Lavinia Luca, Manuela Banciu. Tumor-associated macrophages are involved in the resistance of C26 colon carcinoma cells to the 5-fluorouracil treatment. **The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology and Workshop “Viral hepatitis from cell culture to clinic”**, 5-6 June, 2014, Băile Felix, Romania, *Romanian Journal of Biochemistry*, 51, Suppl., p. 36.
13. Marius Costel Alupei, **Emilia Licarete**, Laura Patras, Lavinia Luca, Flavia Bianca Cristian, Manuela Banciu. Liposomal statins as promising tumor-targeted nanomedicines. **6th National Congress with International**

**Participation and 32nd Annual Scientific Session of Romanian Society for Cell Biology**, 4-7 June, 2014, Târgu-Mureș, Romania. Buletin of Romanian Society for Cell Biology, 42, p.28.

14. **Emilia Licarete**, Marius Alupei, Laura Patras, Manuela Banciu. The intratumoral macrophages as potential target cell type for the anti-tumor activity of liposomal simvastatin. **The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology (RSBMB)**, 5-6 June, 2014, Băile Felix, Romania. Romanian Journal of Biochemistry, 51, Suppl., p.30.

#### B) POSTER

1. **Emilia Licarete**, Denise Minerva Drotar, Ioana Stejerean, Laura Patras, Valentin Florian Rauca, Lavinia Luput, Alina Sesarman, Manuela Banciu. A novel combination therapy for the treatment of melanoma by co-administration of doxorubicin and prednisolone encapsulated in long-circulating liposomes *in vivo*. **RSBMB International Conference**, 18-20 April, 2018, Bucharest, Romania. Romanian Journal of Biochemistry, poster number 31.
2. Lavinia Luput, **Emilia Licarete**, Valentin Florian Rauca, Alina Sesarman, Laura Patras, Tibor Casian, Denise Minerva Drotar, Alina Porfire, Dana Muntean, Marcela Achim, Ioan Tomuta, Laurian Vlase, Manuela Banciu. Antitumor effects of combined therapy based on the administration of liposomal 5-fluorouracil and liposomal simvastatin on C26 colon carcinoma *in vivo*. **RSBMB International Conference**, 18-20 April, 2018, Bucharest, Romania. Romanian Journal of Biochemistry, poster number 32.
3. Alina Sesarman, Lucia Tefas, Bianca Sylvester, **Emilia Licarete**, Valentin Rauca, Lavinia Luput, Laura Patras, Manuela Banciu, Alina Porfire. Passive targeting of colon cancer with curcumin and doxorubicin co-encapsulated in pegylated liposomes. **RSBMB International Conference**, 18-20 April, 2018, Bucharest, Romania. Romanian Journal of Biochemistry, poster number 53.
4. Alina Sesarman, Lucia Tefas, Bianca Sylvester, **Emilia Licarete**, Valentin Rauca, Lavinia Luput, Laura Patras, Manuela Banciu, Alina Porfire. Cytotoxicity of long-circulating liposomes co-encapsulating curcumin and doxorubicin on C26 murine colon cancer cells. **The Annual International Conference of the Romanian Society for Biochemistry and Molecular Biology**, 8-9 June 2017, Timișoara, România. Abstract book New frontiers in chemistry, 26(2), p. S2\_P24.
5. Alina Silvia Porfire, Lavinia Luca, **Emilia Licarete**, Alina Sesarman, Laura Patras, Dana Muntean, Ioan Tomuta, Marcela Achim, Laurian Vlase, Manuela Banciu. Antitumor activity of liposomal simvastatin via enhancement of oxidative stress in tumor environment. **17th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants**, 13-15 June 2016, Paris, France. Journal of International Society of Antioxidants in Nutrition & Health, 1(1).
6. Tefas Lucia, Sesarman Alina, Sylvester Bianca, Porav Sebastian, **Licarete Emilia**, Rauca Valentin, Luput Lavinia, Patras Laura, Banciu Manuela, Porfire Alina. Liposomal co-encapsulation of DOX and CURC: a nanotechnological approach to increase antitumor activity against colon cancer. **Sixth World Conference on physico-chemical methods in drug discovery and development and third World Conference on ADMET and DMPK**. 4-7 September, 2017, Zagreb, Croatia. Book of Abstracts, pag 80. (volumul nu are ISBN)
7. Laura Patras, **Emilia Licarete**, Lavinia Luca, Alina Sesarman, Marius Alupei, Manuela Banciu. Tumor-associated macrophages-driven modulation of 5-fluorouracil effects on C26 colon carcinoma cells. **EACR-AACR-SIC Special Conference: Anticancer Drug Action and Drug Resistance (EAS2015)**, 20-23 June, 2015, Florence, Italy. EAS2015 Proceedings book, p.78, poster number 221.
8. Lavinia Luca, **Emilia Licarete**, Alina Sesarman, Laura Patras, Manuela Banciu. NADPH-Oxidase – key – player in maintaining the oxidative stress induced by tumor-associated macrophages co-cultivated with C26 murine colon carcinoma cells. **International Conference of the Romanian Society of Biochemistry and Molecular**



**Biology** ,17-18 September, 2015, Bucharest, Romania, Book of abstract RSBMB International Conference 2015, p. 90.

9. Lavinia Luca, **Emilia Licarete**, Laura Patras, Alina Sesarman, Manuela Banciu. Molecular mechanisms of oxidative stress induced by interaction between tumor-associated macrophages and C26 murine colon carcinoma cell. **7th National Congress with International Participation and 33rd Annual Scientific Session of Romanian Society for Cell Biology**, 11-14 June, 2015, Baia Mare, Romania. Buletin of Romanian Society for Cell Biology, 43, p. 133.
10. Alina Sesarman, Lavinia Luca, **Emilia Licarete**, Laura Patras, Manuela Banciu. Cytotoxic effects of curcumin and 5-FU on murine colon cancer cells co-cultured with macrophages. **International Conference of the Romanian Society of Biochemistry and Molecular Biology**, 17-18 september 2015, Bucharest, Romania, Book of abstract RSBMB International Conference 2015, p. 95.
11. Alina Sesarman, Lavinia Luca, **Emilia Licarete**, Laura Patras, Manuela Banciu. Curcumin and 5-fluorouracil as modulators of macrophages-tumor cells interaction. **7th National Congress with International Participation and 33rd Annual Scientific Session of Romanian Society for Cell Biology**, 11-14 June, 2015, Baia Mare, Romania. Buletin of Romanian Society for Cell Biology, 43, p. 93.
12. **Emilia Licarete**, Marius Costel Alupei, Laura Patras, Manuela Banciu. The antitumor activity of simvastatin encapsulated in long circulating liposomes is dependent on the intratumoral macrophages. **23rd Biennial Congress of the European Association for Cancer Research (EACR-23)**, 5-8 July, 2014, Munich, Germany, European Journal of Cancer, 50, 5:200-201.
13. Lavinia Luca, **Emilia Licarete**, Laura Patras, Manuela Banciu. Tumor-associated macrophages –inflammation – oxidative stress as potential targets for anticancer therapies. **The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology & Workshop "Viral hepatitis from cell culture to clinic"**, 5-6 June, 2014, Băile Felix, Oradea, Romania, Romanian Journal of Biochemistry, 51, Suppl., p. 31.
14. Valentin-Florian Rauca, **Emilia Licarete**, Manuela Banciu, In vitro cytotoxicity of Simvastatin on B16.F10 murine melanoma cells under hypoxic conditions, The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology & Workshop "Viral hepatitis from cell culture to clinic", 5-6 iunie, 2014, Băile Felix, Oradea, România, Rom. J. Biochem., 51, Suppl., pag. 87 (poster).

**Research projects as a leader:**

**2013-2014** – Young Researcher Grant, financed by Babes-Bolyai University, Cluj-Napoca, code GTC-34033/2013.

Title: **“Novel therapeutic strategies for colon cancer by targeting tumor angiogenesis, inflammation and oxidative stress”**.

**2021-2023**- Research projects to stimulate young independent teams (TE), PN-III-P1-1.1-TE-2019-1320, **“Targeted Hif-1 $\alpha$  gene silencing to improve the antitumor effect of a combination regimen of immunotherapy and chemotherapy in melanoma”**.

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