

CV Teresa Musumeci

Academic position

29th November, 2017 – National Scientific Qualification for Associate Professor.

31th December, 2008 - today: Assistant Professor and Research Scientist in Pharmaceutical Technology at the University of Catania, Department of Drug Sciences.

Educational Qualifications

February, 2006: PhD in Technology of Biological Active Molecule at University of Palermo with a thesis entitled “Anticancers loaded nanoparticles: technological and in vitro evaluation”.

25th October, 2001: Degree in Pharmacy (110/110 cum lode) at University of Catania, Italy.

December, 2001 (II session): Licence to practice Pharmacy

Scientific activity

Main focus of the research activity: (i) New copolymers to obtain colloidal drug carrier; (ii) Thermal analysis to study drug-biomembrane models interaction; (iii) Nanotechnology for anticancer therapy and to obtain brain targeting by intranasal administration.

Co-Author and/or corresponding author in 35 full papers (below paper published from 2014 to 2019). Co-author in book chapters.

She has attended the International and National meetings.

She has reviewed papers for several international journals in the field of Pharmaceutical Technology.

Teaching experience

In August 2016, 2011; 2009; 2008; 20th- 25th August, 2007; 31st July- 7th August, 2006.

Teaching for “General and organic chemistry” (80 students; 40 h);

Centro Orientamento e Formazione (COF); Università of Catania. Via Napoli n. 117 (95127)

In August 2002

Tutor for “General and organic chemistry” (4 x 80 students; 20 h);

Centro Orientamento e Formazione (COF); Università of Catania. Via Napoli n. 117 (95127)

A.A. 2009/2010; 2010/2011; 2012-2013; 2013-2014: Teaching in “Drug Delivery” (part of integrated course of Pharmaceutical Chemistry and Drug Delivery, Dep. of Chemical Science) University of Catania.

A.A. 2013-2014; 2014/2015; 2015/2016; 2016/2017; 2017-2018: Teaching “Laboratory of Pharmaceutical technology” (part of integrated course of Pharmaceutical Technology - 6CFU) DSF. University of Catania.

A.A. 2018-2019: Teaching “Laboratory of Pharmaceutical technology and Pharmaceutical Technology”- 15 CFU) DSF. University of Catania.

From 2001 – today: Supervisor for experimental degree thesis, doctoral thesis; exams committee for Pharmaceutical Technology.

From 2011-today: Teaching for “Quality Assurance System” at “School of Hospital Pharmacy”, University of Catania.

Institutional role: Delegate of Department of Drug Science at CinAP (Centre of assistance for students with disability).

Published papers from 2014 to 2019

1. Musumeci, T., Cupri, S., Bonaccorso, A., Impallomeni, G., Ballistreri, A., Puglisi, G., Pignatello, R. Technology assessment of new biodegradable poly(R-3-hydroxybutyrate-co-1,4-butylene adipate) copolymers for drug delivery (2019) 136 (12), DOI: 10.1002/app.47233
2. Pignatello, R., Pecora, T.M.G., Cutuli, G.G., Catalfo, A., De Guidi, G., Ruozi, B., Tosi, G., Cianciolo, S., Musumeci, T. Antioxidant activity and photostability assessment of trans-resveratrol acrylate microspheres. (2019) 24 (2), pp. 222-234. DOI: 10.1080/10837450.2018.1455697
3. Puglia, C., Santonocito, D., Musumeci, T., Cardile, V., Graziano, A.C.E., Salerno, L., Raciti, G., Crascì, L., Panico, A.M., Puglisi, G. Nanotechnological Approach to Increase the Antioxidant and Cytotoxic Efficacy of Crocin and Crocetin. (2019) 85 (3), pp. 258-265. DOI: 10.1055/a-0732-5757
4. Musumeci, T., Serapide, M.F., Pellitteri, R., Dalpiaz, A., Ferraro, L., Dal Magro, R., Bonaccorso, A., Carbone, C., Veiga, F., Sancini, G., Puglisi, G. Oxcarbazepine free or loaded PLGA nanoparticles as effective intranasal approach to control epileptic seizures in rodents
5. (2018) 133, pp. 309-320. DOI: 10.1016/j.ejpb.2018.11.002
6. Carbone, C., Martins-Gomes, C., Caddeo, C., Silva, A.M., Musumeci, T., Pignatello, R., Puglisi, G., Souto, E.B. Mediterranean essential oils as precious matrix components and active ingredients of lipid nanoparticles. (2018) 548 (1), pp. 217-226. DOI: 10.1016/j.ijpharm.2018.06.064
7. Carbone, C., Martins-Gomes, C., Pepe, V., Silva, A.M., Musumeci, T., Puglisi, G., Furneri, P.M., Souto, E.B. Repurposing itraconazole to the benefit of skin cancer treatment: A combined azole-DDAB nanoencapsulation strategy. (2018) 167, pp. 337-344. DOI: 10.1016/j.colsurfb.2018.04.031
8. Bonaccorso, A., Musumeci, T., Carbone, C., Vicari, L., Lauro, M.R., Puglisi, G. Revisiting the role of sucrose in PLGA-PEG nanocarrier for potential intranasal delivery (2018) 23 (3), pp. 265-274. DOI: 10.1080/10837450.2017.1287731
9. Musumeci, T., Leonardi, A., Bonaccorso, A., Pignatello, R., Puglisi, G. Tangential Flow Filtration Technique: An Overview on Nanomedicine Applications. (2018) 6 (1), pp. 48-60. DOI: 10.2174/2211738506666180306160921
10. Bonaccorso, A., Musumeci, T., Serapide, M.F., Pellitteri, R., Uchegbu, I.F., Puglisi, G.
11. Nose to brain delivery in rats: Effect of surface charge of rhodamine B labeled nanocarriers on brain subregion localization. (2017) 154, pp. 297-306. DOI: 10.1016/j.colsurfb.2017.03.035
12. Bonfanti, R., Musumeci, T., Russo, C., Pellitteri, R. The protective effect of curcumin in Olfactory Ensheathing Cells exposed to hypoxia. (2017) 796, pp. 62-68. DOI: 10.1016/j.ejphar.2016.11.038
13. Pecora, T.M.G., Musumeci, T., Musumeci, L., Fresta, M., Pignatello, R. Evaluation of Eudragit® retard polymers for the microencapsulation of alpha-lipoic acid. (2016) 13 (7), pp. 1165-1175. DOI: 10.2174/1567201812666151016095342
14. Pignatello, R., Musumeci, T., Graziano, A.C.E., Lo Furno, D., Varamini, P., Mansfeld, F.M., Cardile, V., Toth, I. A study on liposomal encapsulation of a lipophilic prodrug of LHRH. (2016) 21 (6), pp. 664-671. DOI: 10.3109/10837450.2015.1041045.

15. Carbone, C., Manno, D., Serra, A., Musumeci, T., Pepe, V., Tisserand, C., Puglisi, G. Innovative hybrid vs polymeric nanocapsules: The influence of the cationic lipid coating on the "4S". (2016) 141, pp. 450-457. DOI: 10.1016/j.colsurfb.2016.02.002
16. Tosi, G., Musumeci, T., Ruozi, B., Carbone, C., Belletti, D., Pignatello, R., Vandelli, M.A., Puglisi, G. The "fate" of polymeric and lipid nanoparticles for brain delivery and targeting: Strategies and mechanism of blood-brain barrier crossing and trafficking into the central nervous system. (2016) 32, pp. 66-76. DOI: 10.1016/j.jddst.2015.07.007
17. Cupri, S., Musumeci, T., Graziano, A.C.E., Caggia, S., Cardile, V., Pignatello, R. Evaluation of amphiphilic PEG derivatives as surface modifiers for the production of stealth liposomes. (2015) 293 (4), pp. 1083-1092. DOI: 10.1007/s00396-014-3465-8.
18. Carbone, C., Musumeci, T., Lauro, M.R., Puglisi, G. Eco-friendly aqueous core surface-modified nanocapsules. (2015) 125, pp. 190-196. DOI: 10.1016/j.colsurfb.2014.11.038
19. Carbone, C., Campisi, A., Manno, D., Serra, A., Spatuzza, M., Musumeci, T., Bonfanti, R., Puglisi, G. The critical role of didodecyldimethylammonium bromide on physico-chemical, technological and biological properties of NLC. (2014) 121, pp. 1-10.
20. Musumeci, T., Pellitteri, R., Spatuzza, M., Puglisi, G. Nose-to-brain delivery: Evaluation of polymeric nanoparticles on olfactory ensheathing cells uptake. (2014) 103 (2), pp. 628-635. DOI: 10.1002/jps.23836.
21. Carbone, C., Campisi, A., Musumeci, T., Raciti, G., Bonfanti, R., Puglisi, G. FA-loaded lipid drug delivery systems: Preparation, characterization and biological studies. (2014) 52 (1), pp. 12-20. DOI: 10.1016/j.ejps.2013.10.003



Catania, 14/03/2019



Teresa Musumeci, PhD

