

Curriculum vitae Agnese Gagliardi



Name: Agnese

Surname: Gagliardi

Nationality: Italian

Date of Birth: January 10, 1987

Place of Birth: Catanzaro, Italy

Current position: Volunteer

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Education and Professional Experience

22-07-2009: Bachelor's Degree in Biotechnology with a votation of 110/110, University of Catanzaro "Magna Græcia" with a thesis entitled "Valutazione cinetica dell'oxcarbamazepina nei pazienti epilettici"

10-11-2015: Master Degree cum laude in Pharmacy, University of Catanzaro "Magna Græcia" with a thesis entitled "*Ideazione e Caratterizzazione di Sistemi Nanoparticellari Rivestiti con Proteine Plasmatiche*"

2016-2019: PhD student in Pharmaceutical Sciences, University of Catanzaro "Magna Græcia";

Sept-Dec 2018: Visiting PhD student in Trinity Translational Medicine Institute (TTMI)/Department of Clinical Medicine, Trinity College Dublin.

April 2020: PhD degree in Pharmaceutical Sciences, University of Catanzaro "Magna Græcia" with a thesis: "GMO nanostructures for anticancer therapy"

Research topics

The research activity is mainly focused on the modulation of the biopharmaceutical properties of anticancer drugs by their encapsulation in biocompatible colloidal systems. Various biomaterials (phospholipids, lipids, polymers, proteins) have been used in order to increase the half-life, therapeutic activity and the efficacious dosage of many antitumor compounds, decreasing their side effects.

Other research interests are based on the drug delivery through skin barrier by using suitable vesicular carriers characterized by high deformable features and/or mucoadhesive properties and on the physico-chemical characterization of protein-based gels through passive and dynamic rheology.

Scientific output

10 research articles and reviews in peer reviewed journals, 1 book chapter, 16 presentations at national and international symposia and congresses (2 oral communication).

Professional Societies

Italian Association of Pharmaceutical Technology and Law (ADRITELF), Italian Chemical Society (SCI), Controlled Release Society (CRS), Società Italiana di Reologia (SIR).

Research grants

2017 – PRIN research grant from MIUR for the project “Tackling biological barriers to antigen delivery by nanotechnological vaccines (NanoTechVax)” (prot. 20173ZECCM_003). Member of Research Unit.

Awards and honors

2016. Winner of “Degree Award 2015” Association of Pharmacists of Catanzaro and University “Magna Graecia” of Catanzaro.

List of publications

1. Iannone M., Mare R, Paolino D, **Gagliardi A**, Froiio F, Cosco D, Fresta M. Characterization and in vitro anticancer properties of chitosan-microencapsulated flavan-3-ols-rich grape seed extracts. *Int J Biol Macromol.*, 2017, 317: 91-9.
2. **Gagliardi A**, Paolino D, Iannone M, Palma E, Fresta M, Cosco D. Sodium deoxycholate-decorated zein nanoparticles for a stable colloidal drug delivery system. *Int J Nanomedicine*, 2018, 13:601-614.
3. Palma E, Pasqua A, **Gagliardi A**, Britti D, Fresta M, Cosco D. Antileishmanial Activity of Amphotericin B-loaded-PLGA Nanoparticles: An Overview. *Materials (Basel)*, 2018, 11:1167.
4. Froiio F., **Gagliardi A.**, Fresta M., Cosco D., Paolino D. Phytosomes as Useful Drug Delivery Systems for Cosmeceutical Application. *Novel Drug Delivery Systems for Phytoconstituents*, 2019, 105.
5. **Gagliardi A**, Bonacci S, Paolino D, Celia C, Procopio A, Fresta M, Cosco D. Paclitaxel-loaded sodium deoxycholate-stabilized zein nanoparticles: characterization and in vitro cytotoxicity. *Heliyon*, 2019 9: e02422.
6. Venuti V, Crupi V, Fazio B, Majolino D, Acri G, Testagrossa B, Stancanelli R, De Gaetano F, **Gagliardi A**, Paolino D, Floresta G, Pistarà V, Rescifina A, Ventura C.A. Physicochemical

Characterization and Antioxidant Activity Evaluation of Idebenone/Hydroxypropyl- β -Cyclodextrin Inclusion Complex. *Biomolecules*, 2019, 9:531.

7. Ceniti, C, Froiio, F, **Gagliardi A**, Britti, D, Paolino, D., Costanzo N. Observations on passive microrheology for monitoring fermentation process in yogurt. *International Dairy Journal*, 2019, 102: 104604.

8. Molinaro R, **Gagliardi A**, Mancuso A, Cosco D, Casettari L, Donatella Paolino. Development and In Vivo Evaluation of Multidrug Ultradeformable Vesicles for the Treatment of Skin Inflammation. *Pharmaceutics*, 2019, 11: E644.

9. **Gagliardi A.**, Froiio F., Salvatici M.C., Paolino D., Fresta M., Cosco D. Characterization and refinement of zein-based gels. *Food Hydrocolloids*. 2020, 101:105555.

10. Voci S., **Gagliardi A.**, Fresta M., Cosco D. Antitumor features of vegetal protein-based nanotherapeutics. *Pharmaceutics*, 2020 12: E65.

11. **Gagliardi A.**, Voci S., Fresta M., Paolino D., Cosco D. Influence of Various Model Compounds on the Rheological Properties of Zein-Based Gels. *Molecules*, 2020, 25(14):3174.