

Dr. Barbara Vigani

Curriculum Vitae

Place and date of birth: Seriate (BG), 16/09/1989

Nationality: Italian

Foreign Languages: English

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EDUCATION

July 2013: graduation cum laude in Pharmacy, University of Pavia, Italy;

December 2013: qualification to practice the profession of pharmacist, University of Pavia, Italy;

February 2017: PhD degree in Chemical and Pharmaceutical Sciences, University of Pavia, Italy.

POSITION AND EMPLOYMENT

April 2017 – *to date*: Postdoctoral Researcher (supervised by Prof. Silvia Rossi), Biopharmaceutics and Formulation Development Lab, Department of Drug Sciences, University of Pavia, Italy.

RESEARCH OUTPUT SUMMARY AND MATRICES from Scopus as of July 6th 2018:

19 documents, h-index: 4

The current research activities focus on the development of therapeutic platforms for the treatment of spinal cord injuries (SCI) and the management of skin and mucosal lesions. She is currently involved in a research project with the purpose of developing a drug delivery system for the highly potent and selective sigma 1 receptor-agonist RC33, based on electrospun alginate-based fibers, to be locally implanted at the site of SCI. Moreover, she is currently interested in developing mucoadhesive and *in situ* gelling formulations for the treatment of mucosal lesions, in particular those associated to vaginal candidosis and to oral mucositis induced by radio and chemotherapies.

PRIZES AND AKNOWELEDGEMENT

Best poster presentation award “ *In situ* gel forming vehicle for the delivery of *Lactobacillus gasseri* into vaginal cavity,” 2nd classified, 11th AltUN Annual Meeting, 11-12th May 2017

SELECTED TEN PUBLICATIONS

1. **Vigani B**, Mastracci L, Grillo F, Perteghella S, Preda S, Crivelli B, Antonioli B, Galuzzi M, Tosca MC, Marazzi M, Torre ML, Chlapanidas T. Local biological effects of adipose stromal vascular fraction

- delivery systems after subcutaneous implantation in a murine model. *Journal of Bioactive and Compatible Polymers* (2016); 31 (6): 600-612.
2. Faccendini A, **Vigani B**, Rossi S, Sandri G, Bonferoni MC, Caramella CM, Ferrari F. Nanofiber scaffolds as drug delivery systems to bridge spinal cord injury. *Pharmaceuticals* (2017); 10 (3): pii: E63. doi: 10.3390/ph10030063.2.
 3. Rossi S, **Vigani B**, Puccio A, Bonferoni MC, Sandri G, Ferrari F. Chitosan ascorbate nanoparticles for the vaginal delivery of antibiotic drugs in atrophic vaginitis. *Marine Drugs* (2017); 15 (10): pii: E319. doi: 10.3390/md15100319.
 4. **Vigani B**, Rossi S, Sandri G, Bonferoni MC, Ferrari F. Design and criteria of electrospun fibrous scaffolds for the treatment of spinal cord injury. *Neural Regenerative Research* (2017); 12 (11): 1786-1790.
 5. Saporito F, Sandri G, Bonferoni MC, Rossi S, Boselli C, Icaro Cornaglia A, Mannucci B, Grisoli P, **Vigani B**, Ferrari F. Essential oil-loaded lipid nanoparticles for wound healing. *International Journal of Nanomedicine* (2017); 13:175-186.
 6. Bonferoni MC, Sandri G, Rossi S, Dellera E, Invernizzi A, Boselli C, Cornaglia AI, Del Fante C, Perotti C, **Vigani B**, Riva F, Caramella C, Ferrari F. Association of alpha tocopherol and Ag sulfadiazine chitosan oleate nanocarriers in bioactive dressings supporting platelet lysate application to skin wounds. *Marine Drugs* (2018); 16 (2): pii: E56. doi: 10.3390/md16020056.
 7. Bonferoni MC, Riva F, Invernizzi A, Dellera E, Sandri G, Rossi S, Marrubini G, Bruni G, **Vigani B**, Caramella C, Ferrari F. Alpha tocopherol loaded chitosan oleate nanoemulsions for wound healing. Evaluation on cell lines and ex vivo human biopsies, and stabilization in spray dried Trojan microparticles. *European Journal of Pharmaceutics and Biopharmaceutics* (2018); 123: 31-41.
 8. Saporito F, Sandri G, Bonferoni MC, Rossi S, Malavasi L, Del Fante C, **Vigani B**, Black L, Ferrari F. Electrospun gelatin-chondroitin sulfate scaffolds loaded with platelet lysate promote immature cardiomyocyte proliferation. *Polymers* (2018); 19 (2): pii: E208. doi: 10.3390/polym10020208.
 9. Rossi S, Mori M, **Vigani B**, Bonferoni MC, Sandri G, Riva F, Caramella C, Ferrari F. A novel dressing for the combined delivery of platelet lysate and vancomycin hydrochloride to chronic skin ulcers: Hyaluronic acid particles in alginate matrices. *European Journal of Pharmaceutical Sciences* (2018); 118: 87-95.
 10. Rossi S, **Vigani B**, Bonferoni MC, Sandri G, Caramella C, Ferrari F. Rheological analysis and mucoadhesion: A 30 year-old and still active combination. *Journal of Pharmaceutical and Biomedical Analysis* (2018); 156: 232-238.