



Personal information

Name: Marco Biondi
Location: Napoli, IT
AICAT member since: 2016



Position: Researcher of Pharmaceutical Technology (CHIM/09)

Affiliation: Dipartimento di Farmacia, Università degli Studi di Napoli Federico II, Via D. Montesano 49, 80131, Napoli



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ResearcherID

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Education and positions: Degree in Chemical Engineering, University of Naples; PhD in Biomaterials (17th cycle); Researcher in Pharmaceutical and technological applications of chemistry (CHIM/09). Qualification as an Associate Professor.

Main fields of interest: Design and production of biocompatible micro- and nanosystems for controlled drug delivery, based on polyesters, zeolites, amphiphilic polymers, polysaccharides, phospholipids. Diffusion studies of proteins and nanodevices. Drug release and structural device assessment. Thermal properties of the produced micro-nanosystems.

Methods: Differential Scanning Calorimetry (DSC), analytical techniques (spectrophotometry, spectrofluorimetry, HPLC), confocal microscopy, fluid bed reactor.

Professional activities: Member of the Editorial Board of The Open Biotechnology Journal.

Publication record (as of March 2019): 30 peer-reviewed papers, two book chapters, citations >700, *h*-index: 14

Equipments: DSC Q20 (TA Instruments), HPLC and UV apparatus (Shimadzu), Master sizer (Malvern Instruments).

5 most important publications:

Biondi, M., Ungaro, F., Quaglia, F., Netti, P.A. Controlled drug delivery in tissue engineering (2008); *Advanced Drug Delivery Reviews* 60, 229-242; DOI: 10.1016/j.addr.2007.08.038

Mayol, L., Biondi, M., Quaglia, F., Fusco, S., Borzacchiello, A., Ambrosio, L., La Rotonda, M.I. Injectable thermally responsive mucoadhesive gel for sustained protein delivery (2011); *Biomacromolecules* 12, 28-33; DOI: 10.1021/bm1008958.

Miro, A., D'Angelo, I., Nappi, A., La Manna, P., Biondi, M., Mayol, L., Musto, P., Russo, R., La Rotonda, M.I., Ungaro, F., Quaglia, F. Engineering poly(ethylene oxide) buccal films with cyclodextrin: A novel role for an old excipient? (2013); *International Journal of Pharmaceutics* 452, 283-291; DOI: 10.1016/j.ijpharm.2013.05.030

Biondi, M., Fusco, S., Lewis, A.L., Netti, P.A. New insights into the mechanisms of the interactions between doxorubicin and the ion-exchange hydrogel DC bead™ for Use in Transarterial Chemoembolization (TACE) (2012); *Journal of Biomaterials Science, Polymer Edition* 23, 333-354; DOI: 10.1163/092050610X551934

Biondi, M., Guarnieri, D., Yu, H., Belli, V., Netti, P.A. Sub-100 nm biodegradable nanoparticles: In vitro release features and toxicity testing in 2D and 3D cell cultures (2013); *Nanotechnology* 24, 45101; DOI: 10.1088/0957-4484/24/4/045101