

PERSONAL INFORMATION Alessandra Maroni

POSITION Research Fellow, Academic discipline CHIM/09 - Pharmaceutical and Technological Applications of Chemistry, Department of Pharmaceutical Sciences (DISFARM), University of Milan.

WORK EXPERIENCE

- 2002-2019** Research Fellow, Academic discipline CHIM/09, DISFARM, University of Milan.
- 1999-2002** Contract lecturer in the Industrial Pharmacy degree programme and in the Hospital Pharmacy Specialization School, University of Milan.
- 1997-2000** Ph.D. student in Medicinal Chemistry, University of Milan.
- 1996-1997** Scholarship holder funded by Professional Association of Pharmacists of the Province of Varese at the University of Milan.

EDUCATION AND TRAINING

- 2000** Ph.D. in Medicinal Chemistry, University of Milan.
- 1995** Professional practice qualification as a pharmacist, University of Milan.
- 1994** Graduation in Pharmacy *cum laude*, University of Milan.
- 1986** Classical high school diploma, Liceo Ginnasio E. Cairoli, University of Milan.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	Listening
English	Advanced	Advanced	Advanced	Advanced	Advanced
German	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Franch	Basic	Basic	Basic	Basic	Basic

Digital skills

AUTOVALUTAZIONE				
Information processing	Communication	Content creation	Safety	Problem solving
Intermediate	Intermediate	Intermediate	Basic	Basic

Driving licence B

ADDITIONAL INFORMATION

Publications	Co-author of over 60 publications including journal articles, book chapters and patent applications, and of more than 100 conference communications.
Conferences, Seminars, courses	Invited speaker at national and international conferences and in workshops. Member of the scientific and/or organizing committee of seminars and workshops. Lecturer in a 2nd level vocational master programme and in continuing education courses.
Research activity	Study and development of drug delivery systems intended for the oral route of administration.
Editorial activity	Member of the Editorial Advisory Board of Journal of Pharmaceutical Sciences (Elsevier, Amsterdam, NL). Peer reviewer for the main journals in the field.
Teaching and mentoring	Appointed lecturer of pharmaceutical technology practicals, Degree programme in Pharmacy. Lecturer for seminars in the pharmaceutical technology area. Member of examination boards for pharmaceutical technology classes. Supervisor and co-supervisor of graduation theses. Supervisor of doctoral dissertations.
Academic duties	Member of the academic board of the Ph.D. programme in Pharmaceutical Sciences. Member of the teaching committee of the Ph.D. programme in Pharmaceutical Sciences. Member of the examination board of public competition for admission to Ph.D. programme in Pharmaceutical Sciences. Member of the re-examination committee of the Degree programme in Pharmacy. Member of the supervisory board for practical tests of State Exams for professional practice qualification as a pharmacist.
Honours and awards	Award winner as the co-author of conference communications and journal articles. Recipient of "Fondo per il Finanziamento delle Attività Base di Ricerca" (FFABR 2017). Recipient of "Transition Grant - Horizon 2020, Linea A1_B. Progetto Italia per l'Europa", University of Milan. Invited co-author of "Principi di Tecnologia Farmaceutica, 2° Edizione" (744 pages), P. Colombo et al. Editors, Casa Editrice Ambrosiana (Zanichelli), Rozzano, 2015, ISBN 978-8808-18672-0. Invited co-author of "Encyclopedia of Pharmaceutical Science and Technology, Fourth Edition" (6 volumes, 4296 pages), J. Swarbrick Ed., CRC Press, Taylor & Francis Group, New York, US-NY, 2013, ISBN 9781841848198.
Memberships	Member of the scientific societies Associazione Farmaceutici dell'Industria (AFI), Associazione Docenti e Ricercatori Italiani di Tecnologie e Legislazione Farmaceutiche (ADRITELF), Società Chimica Italiana (SCI). Controlled Release Society Italy Local Chapter (CRS Italy Chpt). Enrolled in Professional Association of Pharmacists of the Province of Varese.
Certifications	Zertifikat Deutsch als Fremdsprache, Goethe Institut.

ANNEXES

List of publications.

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

Milan, March 1st 2019



Publications 2009-2019 (source: Scopus)

Effect of polyethylene glycol content and molar mass on injection molding of hydroxypropyl methylcellulose acetate succinate-based gastroresistant capsular devices for oral drug delivery. Briatico-Vangosa, F., Melocchi, A., Uboldi, M., Gazzaniga, A., Zema, L., Maroni, A. *Polymers* 11, 517, 2019.

Retentive device for intravesical drug delivery based on water-induced shape memory response of poly(vinyl alcohol): design concept and 4D printing feasibility. Melocchi, A., Inverardi, N., Uboldi, M., Baldi, F., Maroni, A., Pandini, S., Briatico-Vangosa, F., Zema, L., Gazzaniga, A. *International Journal of Pharmaceutics* 559, 299-311, 2019.

Novel hydrophilic matrix system with non-uniform drug distribution for zero-order release kinetics. Cerea, M., Maroni, A., Palugan, L., Bellini, M., Foppoli, A., Melocchi, A., Zema, L., Gazzaniga, A., *Journal of Controlled Release* 287, 247-256, 2018.

Assessment of hot-processability and performance of ethylcellulose-based materials for injection-molded prolonged-release systems: an investigational approach. Casati, F., Briatico-Vangosa, F., Baldi, F., Melocchi, A., Maroni, A., Gazzaniga, A., Zema, L. *International Journal of Pharmaceutics* 548, 400-407, 2018.

- Industrial development of a 3D-printed nutraceutical delivery platform in the form of a multicompartiment HPC capsule. Melocchi, A., Parietti, F., Maccagnan, S., Orteni, M.A., Antenucci, S., Briatico-Vangosa, F., Maroni, A. *AAPS PharmSciTech* 19, 3343-3354, 2018.

- 3D printed multi-compartment capsular devices for two-pulse oral drug delivery. Maroni, A., Melocchi, A., Parietti, F., Foppoli, A.A., Zema, L., Gazzaniga, A. *Journal of Controlled Release* 268, 10-18, 2017.

- Dry coating of solid dosage forms: an overview of processes and applications. Foppoli, A.A., Maroni, A., Cerea, M., Zema, L., Gazzaniga, A. *Drug Development and Industrial Pharmacy* 43, 1919-1931, 2017.

- Enteric coatings for colonic drug delivery: state of the art. Maroni, A., Moutaharrik, S., Zema, L., Gazzaniga, A. *Expert Opinion on Drug Delivery* 14, 1027-1029, 2017.

- Three-Dimensional Printing of Medicinal Products and the Challenge of Personalized Therapy. Zema, L., Melocchi, A., Maroni, A., Gazzaniga, A. *Journal of Pharmaceutical Sciences* 106, 1697-1705, 2017.

- In vitro and in vivo evaluation of an oral multiple-unit formulation for colonic delivery of insulin. Maroni, A., Del Curto, M.D., Salmaso, S., Zema, L., Melocchi, A., Caliceti, P., Gazzaniga, A. *European Journal of Pharmaceutics and Biopharmaceutics* 108, 76-82, 2016.

- Hot-melt extruded filaments based on pharmaceutical grade polymers for 3D printing by fused deposition modeling. Melocchi, A., Parietti, F., Maroni, A., Foppoli, A., Gazzaniga, A., Zema, L. *International Journal of Pharmaceutics* 509, 255-263, 2016.

- Erodible drug delivery systems for time-controlled release into the gastrointestinal tract. Maroni, A., Zema, L., Cerea, M., Foppoli, A., Palugan, L., Gazzaniga, A. *Journal of Drug Delivery Science and Technology* 32, 229-235, 2016.

- 3D printing by fused deposition modeling (FDM) of a swellable/erodible capsular device for oral pulsatile release of drugs. Melocchi, A., Parietti, F., Loreti, G., Maroni, A., Gazzaniga, A., Zema, L. *Journal of Drug Delivery Science and Technology* 30, 360-367, 2015.

- Evaluation of hot-melt extrusion and injection molding for continuous manufacturing of immediate-release tablets. Melocchi, A., Loreti, G., Del Curto, M.D., Maroni, A., Gazzaniga, A., Zema, L. *Journal of Pharmaceutical Sciences* 104, 1971-1980, 2015.

- Enteric-coating of pulsatile-release HPC capsules prepared by injection molding. Macchi, E., Zema, L., Maroni, A., Gazzaniga, A., Felton, L.A. *European Journal of Pharmaceutical Sciences* 70, 1-11, 2015.

- Coated pellets for oral colon delivery. Palugan, L., Cerea, M., Zema, L., Gazzaniga, A., Maroni, A. *Journal of Drug Delivery Science and Technology* 25, 1-15, 2015.

- Evaluation of hot-melt extrusion technique in the preparation of HPC matrices for prolonged release. Loreti, G., Maroni, A., Del Curto, M.D., Melocchi, A., Gazzaniga, A., Zema, L. *European Journal of Pharmaceutical Sciences* 52, 77-85, 2014.
- Erodible time-dependent colon delivery systems with improved efficiency in delaying the onset of drug release. Del Curto, M.D., Palugan, L., Foppoli, A., Zema, L., Gazzaniga, A., Maroni, A. *Journal of Pharmaceutical Sciences* 103, 3585-3593, 2014.
- Film coatings for oral colon delivery. Maroni, A., Del Curto, M.D., Zema, L., Foppoli, A., Gazzaniga, A. *International Journal of Pharmaceutics* 457, 372-394, 2013.
- Film coatings for oral pulsatile release. Maroni, A., Zema, L., Loreti, G., Palugan, L., Gazzaniga, A. *International Journal of Pharmaceutics* 457, 362-371, 2013.
- Injection-molded capsular device for oral pulsatile release: Development of a novel mold. Zema, L., Loreti, G., Macchi, E., Foppoli, A., Maroni, A., Gazzaniga, A. *Journal of Pharmaceutical Sciences* 102, 489-499, 2013.
- Polymeric coatings for a multiple-unit pulsatile delivery system: Preliminary study on free and applied films. Maroni, A., Del Curto, M.D., Cerea, M., Zema, L., Foppoli, A., Gazzaniga, A. *International Journal of Pharmaceutics* 440, 256-263, 2013.
- Gastroresistant capsular device prepared by injection molding. Zema, L., Loreti, G., Melocchi, A., Maroni, A., Palugan, L., Gazzaniga, A. *International Journal of Pharmaceutics* 440, 264-272, 2013.
- Injection Molding and its application to drug delivery. Zema, L., Loreti, G., Melocchi, A., Maroni, A., Gazzaniga, A. *Journal of Controlled Release* 159, 324-331, 2012.
- Oral colon delivery of insulin with the aid of functional adjuvants. Maroni, A., Zema, L., Del Curto, M.D., Foppoli, A., Gazzaniga, A. *Advanced Drug Delivery Reviews* 64, 540-556, 2012.
- Oral delivery system for two-pulse colonic release of protein drugs and protease inhibitor/absorption enhancer compounds. Del Curto, M.D., Maroni, A., Palugan, L., Zema, L., Gazzaniga, A., Sangalli, M.E. *Journal of Pharmaceutical Sciences* 100, 3251-3259, 2011.
- A novel injection-molded capsular device for oral pulsatile delivery based on swellable/erodible polymers. Gazzaniga, A., Cerea, M., Cozzi, A., Foppoli, A., Maroni, A., Zema, L. *AAPS PharmSciTech* 12, 295-303, 2011.
- Oral pulsatile delivery: Rationale and chronopharmaceutical formulations. Maroni, A., Zema, L., Curto, M.D., Loreti, G., Gazzaniga, A. *International Journal of Pharmaceutics* 398, 1-8, 2010.
- Active packaging for topical cosmetic/drug products: A hot-melt extruded preservative delivery device. Zema, L., Sangalli, M.E., Maroni, A., Foppoli, A., Bettero, A., Gazzaniga, A. *European Journal of Pharmaceutics and Biopharmaceutics* 75, 291-296, 2010.
- Dehydration kinetics of theophylline-7-acetic acid monohydrate. Foppoli, A., Zema, L., Maroni, A., Sangalli, M.E., Caira, M.R., Gazzaniga, A. *Journal of Thermal Analysis and Calorimetry* 99, 649-654, 2010.
- Preparation and evaluation of an oral delivery system for time-dependent colon release of insulin and selected protease inhibitor and absorption enhancer compounds. Del Curto, M.D., Maroni, A., Foppoli, A., Zema, L., Gazzaniga, A., Sangalli, M.E. *Journal of Pharmaceutical Sciences* 98, 4661-4669, 2009.
- Chronopic™ Technology. Sangalli, M.E., Maroni, A., Zema, L., Cerea, M., Gazzaniga, A. In: *Chronopharmaceutics: Science and Technology for Biological Rhythm-Guided Therapy and Prevention of Diseases*, Youan, B.B.C. Ed., John Wiley&Sons, Hoboken, New Jersey, pp. 145-163, 2009.
- Feasibility, stability and release performance of a time-dependent insulin delivery system intended for oral colon release. Maroni, A., Curto, M.D., Serratori, M., Zema, L., Foppoli, A., Gazzaniga, A., Sangalli, M.E. *European Journal of Pharmaceutics and Biopharmaceutics* 72, 246-251, 2009.