

Gelmi Maria Luisa  
Full professor in Organic Chemistry



Degree in Chemistry, University of Milan (1981)  
PhD in Organic Chemistry at University of Milan (1988)  
PhD in Medicinal Chemistry at University of Milan (1990)

- 1990: Research Assistant, Faculty of Pharmacy, University of Milan
- 2000: Associate Professor of Organic Chemistry, Faculty of Pharmacy, University of Milan
- 2005: Full Professor of Organic Chemistry, Faculty of Pharmacy, University of Milan
- 2006-2012: Erasmus coordinator for Faculty of Pharmacy of University of Milano
- 2012-17 Vice-head of the Department of Pharmaceutical Sciences (DISFARM)
- Since 2013 Chairman of Pharmaceutical Chemistry and Technology Course
- Since 2014 Director of the Interuniversity Centre on Pericyclic Reactions and Synthesis of Hetero- and Carbocyclic Systems
- since 2017 Member of the scientific board of Italian Peptide Science
- 2014-19 PI Marie Curie Moglynet EU-project <http://www.moglynet.com/website/>

1. R. Bucci, A. Contini, F. Clerici, S. Pellegrino, M. L. Gelmi "From glucose to enantiopure morpholino  $\beta$ -amino acid: a new tool for stabilizing  $\gamma$ -turns in peptides" *Org. Chem. Front.* **2019**, *6*, 972-982
2. R. Bucci, S. Giofr , F. Clerici, A. Contini, A. Pinto, E. Erba, R. Soave, S. Pellegrino, M.L. Gelmi "Tetrahydro-4H-(pyrrolo[3,4-d]isoxazol-3-yl)methanamine: a bicyclic diamino scaffold stabilizing parallel turn conformations" *J. Org. Chem.* **2018**, *83*, 11493-11501
3. Raffaella Bucci, Priyadip Das, Filomena Iannuzzi, Marco Feligioni, Raffaella Gandolfi, Maria Luisa Gelmi, Meital Reches, Sara Pellegrino "Self-assembly of an amphipathic  $\alpha\alpha\beta$ -tripeptide into cationic spherical particles for intracellular delivery" *Org. Biomol. Chem.*, **2017**, *15*, 6773-6779
4. Bucci, A. Bonetti, F. Clerici, A. Contini, D. Nava, S. Pellegrino, D. Tessaro, M. L. Gelmi "Tandem Tetrahydroisoquinoline-4-carboxylic Acid/ $\beta$ -Alanine as a New Construct Able To Induce a Flexible Turn" *Chem. Eur. J.* **2017**, *23*, 10822-10831
5. S. Pellegrino, N. Tonali, E. Erba, J. Kaffy, M. Taverna, A. Contini, M. Taylor, D. Allsop, M. L. Gelmi, S. Onger  "  $\beta$ -Hairpin mimics containing a piperidine-pyrrolidine scaffold modulate the  $\beta$ -amyloid aggregation process preserving the monomer species" *Chemical Science*, **2017**, *8*, 1295-1302
6. I. Gori, A.; Wang, Ching-I. A.; Harvey, P. J.; Rosengren, K. J.; Bhola, R. F.; Gelmi, M. L.; Longhi, R.; Christie, Macdonald J.; Lewis, R. J.; Alewood, P. F.; et al "Stabilization of the Cysteine-Rich Conotoxin MrIA by Using a 1,2,3-Triazole as a Disulfide Bond Mimetic" *Angew. Chem., Intern. Ed.* **2015**, *54*, 1361-1364
7. A. Bonetti, S. Pellegrino, P. Das, S. Yuran, R. Bucci, N. Ferri, F. Meneghetti, C. Castellano, M. Reches, M. L. Gelmi "Dipeptide Nanotubes Containing Unnatural Fluorine-Substituted  $\beta$ -2,3-Diaryl amino Acid and L-Alanine as Candidates for Biomedical Applications" *Org. Lett.* **2015**, *17*, 4468-4471

The main research fields in organic chemistry are focused on: i) diastereo- and enantioselective syntheses of non proteinogenic amino acids; ii) synthesis of peptides and peptidomimetics and applications in biological field and nanomaterials; iii) synthesis of heterocyclic compounds; iv) semi-syntheses of natural compounds.

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<https://users.unimi.it/apisgroup/>  
<http://www.moglynet.com/website/> <https://users.unimi.it/cirp/>