

FEDERICA COMPOSTELLA

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PERSONAL INFORMATION

University of Milan
 Department of Medical Biotechnology and Translational Medicine
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 ORCID ID: 0000-0003-4721-0358


WORK EXPERIENCE
From 2002 Assistant Professor in Biochemistry

University of Milan
 Department of Medical Biotechnology and Translational Medicine

- Coordination and development of research activities on synthetic compounds relevant in the biological field, with particular reference to saccharides, glycolipids and glycoconjugates
- Faculty in “Chemistry and Introductory Biochemistry” at the International Medical School (Courses: “Fundamentals of Basic Sciences” and “Functions”)
- Delegate of the Department of Medical Biotechnology and Translational Medicine for International and Mobility Programs
- Erasmus project coordinator for Medical Biotechnology Students
- From 2002 to 2014 faculty in Biochemistry at the Nursing Bachelor Degree, University of Milan

From Sept 1997 to Aug 2002 Technician with research assistant activity

University of Milan
 Department of Medical Chemistry and Biochemistry

- Experimental research activity on the synthesis of organic compounds and saccharides

From Mar 1997 to Aug 1997 Research fellowship - EU contract UE-FAIR-CT96-1080

University of Milan
 Department of Agroalimentary and Molecular Sciences

- Research activity: “Optimization of the Maillard reaction. A way to improve quality and safety of thermally processed foods”

From Nov 1994 to Feb 1997 Research fellowships and contracts (Chemical and Pharmaceutical companies)

University of Milan
 Department of Chemistry and Industrial Chemistry

- Synthesis of compounds of pharmaceutical interest

EDUCATION AND TRAINING
Nov 1997 State certification license for qualified chemist

Nov 1997 **Laurea degree in Chemistry (Organic Chemistry)**

University of Milan

- Degree in Organic Chemistry (supervisor: Prof. S. Maiorana)

July 1988 **High School Diploma**

Liceo Classico Primo Levi, San Donato Milanese

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s): English: fluent

Communication skills Good communication skills and teamwork capacities, gained through 25 years of experience in experimental research in collaboration with national and international partners

Organisational/managerial skills

- Leader and coordinator of the research activities of the group (students, post-docs, fellows,..)
- Degree and PhD theses supervisor
- Erasmus coordinator for medical biotechnology students: orientation and counselor activity

Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

- good command of office suite
- good command of tools for NMR experiments (XWIN-NMR and MesTReC)

Main research activities The research activity is mainly addressed to the synthesis of glycoconjugates of biological interest. The main research topics are:

- Synthesis of oligosaccharide analogues with potential immunological activity (bacterial capsular polysaccharide fragments) for the development of synthetic vaccines.
- Synthesis of ceramides, glycosylceramides and their analogues for the study of the activation of the immune system and the elucidation of biochemical pathways.
- Synthesis of saccharides for the study of altered biochemical pathways

Research projects are in collaboration with national and international partners (Basel University Hospital, The Ottawa Hospital, CIGbiomaGUNE-San Sebastian, Eijkman Institute-Jakarta), and have been funded by the University of Milan, the Italian Ministry of Research and national funding agencies.

ADDITIONAL INFORMATION

- Publications** Author of 46 publications on peer-reviewed international journals (H-index = 15), and 82 conference proceedings with some oral communications.
The list of publications is available at:
https://air.unimi.it/browse?type=author&authority=rp02842&sort_by=2&order=DESC#.XLWi6ugzaUk
or at:
<https://orcid.org/0000-0003-4721-0358>
- Memberships** Member of the Italian Society of Biochemistry, the Italian Chemical Society (SCI) and the Group of Carbohydrate Chemistry of the SCI
- Referee activity** Editorial board member of *The Open Biochemistry Journal*
Referee of scientific papers for journals with impact factor in the field of bioorganic chemistry
Reviewer of PhD theses

Milano, 15 Aprile 2019