

CURRICULUM VITAE

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CAREER DETAILS

June 2022 – today **Researcher, National Research Council of Italy, Institute of Chemistry of Organometallic Compounds, Italy**

December 2020 – May 2022 **Technologist at the Chemical department, University of Florence, Italy**

- Mother and Infant dyads: Lowering the impact of endocrine disrupting Chemicals in milk for a Healthy Life
- Study of the levels of EDCs in the artificial milk present on the market and in its containers, and development of policies to reduce ED contaminants.

December 2017 – 2020 **Research collaboration contract at the Chemical department, University of Florence, Italy**

- Development of new technologies for monitoring anti-drug immunity .
- Design, synthesis and characterization of modified bioactive molecules for the study of binding interactions

March 2014 – November 2017 **Research collaboration contract at the Interdepartmental Laboratory of Peptide & Protein Chemistry and Biology, NeuroFarBa, University of Florence, Italy**

- Synthesis, scale-up, purification, and characterization of modified bioactive peptides
- Binding interaction studies (surface plasmon resonance, ELISA) and screening of new lead compounds for diagnosis of autoimmune diseases based on modified glycopeptides
- Set-up of new diagnostic test in autoimmune diseases

Jan 2012-Jan2014 **Researcher at Toscana Biomarkers S.r.l. (Siena), Italy**

- Scientific and technical research following an established program and pre-fissed objectives.
- Synthesis, purification and screening of peptides as farmaceutical/diagnostic compounds in accordance with GLP.

July 2011-Dec 2011 **Post-Doc Researcher at “Ecole Normale Superieure” Department of Chemistry (Paris), France**

- Set-up of new electrochemical detection systems applied to peptide-antibody detection.

June 2007-June 2011 **Research collaboration contract at the Interdepartmental Laboratory of Peptide & Protein Chemistry and Biology, Department of Chemistry, University of Florence, Italy**

- Synthesis, scale-up, purification, and characterization of modified amino acids and bioactive peptides
- Set-up of optical (surface plasmon resonance, optical tweezers) and electrochemical (cyclic voltammetry, faradic impedance) techniques for diagnosis of autoimmune diseases based on modified glycopeptides
- Screening of new lead compounds by immunoenzymatic and optical techniques

Jan 2006-June 2007 **Fellowship at Consorzio per lo Sviluppo dei Sistemi a Grande Interfase (CSGI), Florence, Italy**

- Synthesis and electrochemical study of glycopeptides in model membrane systems
- Synthesis of electrochemical probes for peptide-antibody interaction studies

- Nov-Dec 2005** **Research collaboration contract at the Interdepartmental Laboratory of Peptide & Protein Chemistry and Biology, Department of Chemistry, University of Florence, Italy**
- Study of glycopeptides in biomimetic membranes by electrochemical techniques

EDUCATION

- February 2009** **PhD in Chemical Sciences** at the University of Florence (Italy).
- June 2005** **Master Degree in Chemical Sciences** at the University of Burgos (Spain)
- Oct 2004** **Erasmus mobility fellowship, University of Florence (Italy)**

PUBLICATIONS

- 1 Patent
- 43 International reviewed papers
- 9 Proceedings of international peptide congress
- 3 Oral Communications to international congress
- 34 Poster communication to national and international congress

PARTECIPATION TO INTERNATIONAL CONGRESS

- 2006** International Workshop in “Expression, structure and function of membrane proteins”. 18-22 June, Firenze (Italy).
- 2006** XXII Congresso Nazionale della Società Chimica Italiana SCI 2006, 10-15 September, Firenze (Italy).
- 2007** XIX International Symposium on Bioelectrochemistry and Bioenergetics, BES 2007, 1-4 April, Toulouse (France).
- 2007** 20th American Peptide Society Symposium, 20th APS, 26-30 June, Montreal (Canada).
- 2007** Four International Symposium on Combinatorial Sciences in Biology, Chemistry, Catalysts and Materials, Eurocombi 4, July 15-18, Firenze (Italy).
- 2008** 30th European Peptide Symposium, 30th EPS, 31 August-5 September, Helsinki (Finland).
- 2010** 31st European Peptide Symposium, 31st EPS, 5-9 September, Copenhagen (Denmark).
- 2010** 1st Italy-Australia Peptide Symposium on Biomolecules for Diagnostics & Therapeutics, 10-12 September, Prato (Italy).
- 2011** 2nd International Microwave-assisted organic and peptide synthesis symposium, MAOPS2, 27-29 April, Firenze (Italy).
- 2014** 33th European Peptide Symposium, 33th EPS 31 Agosto - 5 September, Sofia (Bulgaria).
- 2015** 4th Israel- Italy Meeting in Autoimmunity and Autoinflammation, 27-28 September, Siena (Italy).
- 2016** 1st MS Peptide Day, 10-12 February, Firenze (Italy).
- 2018** 16th Naples Workshop on bioactive peptides, 7-9 June 2018, Napoli, Italy.
- 2020** 3 rd National Meeting of Italian Peptide Society, 12 December 2020, Roma, Italy.
- 2021** 4 rd National Meeting of Italian Peptide Society, 13 November 2020, online and Firenze, Italy.
- 2022** 36th European Peptide Symposium & 12 International Peptide Symposium, August 28-September 2, Sitges, Spain.

RESEARCH PROJECT PARTECIPATION

- Italian project: Ministero Università PRIN 2003/04 (UR Papini/Brandi): framed as student in formation ERASMUS in the Department of Organic Chemistry "Ugo Schiff".
- Italian Project: Ministero Università PRIN 2008/09 (UR Papini): 14 months of research.
- European Framework Program FP7. Grant agreement numero HEALTH-F2-2010-260338 (Prog. ALLFUN)
- European Framework Program FP7 Bando SMEs 2012 (Prog. GAPAIID)
- Tuscany Region Project / European Committee EcoReLabel POR FESR Toscana 2014-2020
- European LIFE Project MILCH: LIFE18 ENV/IT/000460

CONGRESS & ADVANCES COURSE ORGANIZATION

2014: Member of the organizing comitee for the Course "Peptides in Paris 2014" (PIPS 2014). 8-10 october 2014 @PeptLabUCP, sito Neuville di Cergy-Pontoise University (France).

2016: Member of the organizing comitee of the congress "1st MS Peptide Day". 10-12 Febrbrary 2016, Firenze (Italy).

REVIEWER ACTIVITY FOR INTERNATIONAL PEER-REVIEWED JOURNALS

Scientific Reports (Nature Research Journals), Bioanalysis (Future Science), Protein & Peptide Letters (Bentham Science), Journal of Peptide Science (Wiley), International Journal of Molecular Sciences (MDPI), Sensors (MDPI), Biosensors (MDPI), Vaccines (MDPI), Microorganism (MDPI), Antibodies (MDPI)