

CURRICULUM VITAE

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CAREER DETAILS

December 2020 – today **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

40 International reviewed papers

9 Proceedings of international peptide congress

3 Oral Communications to international congress

34 Poster communication to national and international congress

1 Application Note

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.

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)

INTERNATIONAL COLLABORATIONS

Prof. S. Jugè. Institut de Chimie Moleculaire (ICMUB, UMR CNRS 5260), University of Burgundy, France

Prof. F. Burlina e S. Lavielle. Laboratory of BioMolecules, UPMC- CNRS-ENS, Paris, France

Prof. C. Selmi. University of Milan Clinical Immunology, Humanitas Clinical and Research Center and University of California, USA

Prof. A.M. D'Ursi. Department of Pharmaceutical Sciences, University of Salerno, Italy

Prof. A. Carotenuto. Department of Pharmaceutical and Toxicological Chemistry, University of Naples "Federico II," Napoli, Italy

Prof. J. Hayek. Child Neuropsychiatry Unit, University Hospital AOUS of Siena, Italy

Prof. C. De Felice. Neonatal Intensive Care Unit, University Hospital AOUS of Siena, Italy

Prof. C. Amatore, C. Sella and L. Thouin. Ecole Normale Supérieure, Département de Chimie,UMR CNRS-ENS-UPMC 8640 PASTEUR, Paris, France.

Prof. A. Calabrò and D. Renzi. Dipartimento di Scienze Biomediche, Sperimentali e Cliniche Mario Serio;. Università di Firenze, Italy

Prof. R. Cimaz and Prof. G. Simonini, Rheumathology unit, AOU Meyer, Firenze, Italy

Prof. I. Guryanov, St. Petersburg State University, Russia

Dott. V. BresciaMorra, Federico II University, Napoles, Italy

Prof. A. Lapolla and P. Traldi, University of Padova, Italy

Prof. J.M. Mallet, École Normale Supérieure, PSL University, Sorbonne Université, CNRS, Paris, France