



CURRICULUM VITAE

Name: **Chiara Testa**
Address: piazza Leopoldo 3, 50134, Florence (FI)
Citizenship: Italian
Place and date of birth: Florence (Italy) 05/08/1981

EDUCATION AND TRAINING

02 July 2000: High school license at the Liceo Classico Dante, Florence (Italy). Vote 90/100.

28 February 2006: Basic Degree in Chemistry, University of Florence (Italy).

Subject: “*N-galactosylation of an universal scaffold with β -hairpin structure to study autoimmune response in Rheumatoid Arthritis*”.

Supervisors: Prof. A.M. Papini (Department of Chemistry “Ugo Schiff”, University of Florence, Sesto Fiorentino (FI), Italy). Vote 110/110 +Lode

25 July 2008: Master degree in Chemistry of biological molecules, University of Florence (Italy)

Subject: “*Synthesis and detection of DEHP metabolites in human urine and activation studies of CYP350A4*”.

Supervisors: Prof. A.M. Papini. (Department of Chemistry “Ugo Schiff”, University of Florence, Sesto Fiorentino (FI), Italy).Vote 110/110 +Lode.

October 2008-October 2011: PhD co-tutored between the University of Florence (Italy) and the University of Cergy -Pontoise (France).

PhD Thesis entitled: “*Non conventional synthetic strategies of stapled peptides: modulation of secondary structures to optimise biological recognition*”

Supervisors: Prof. A.M. Papini. (Department of Chemistry “Ugo Schiff”, University of Florence, Sesto Fiorentino (FI), Italy; Laboratoire PeptLab-SOSCO –Université de Cergy-Pontoise Neuville-sur-Oise, Cergy-Pontoise, France); Prof. P. Rovero (Department of Pharmaceutical Science, Polo Scientifico e Tecnologico, University of Florence, Sesto

Fiorentino (FI), Italy); Prof. Nadège Germain (Laboratoire PeptLab-SOSCO –Université de Cergy-Pontoise Neuville-sur-Oise, Cergy-Pontoise, France).

Thesis discussed on March 26th 2012.

July 2009: abilitation for the Chemist Profession.

PERSONAL SKILLS AND COMPETENCES

Research expertise:

Organic synthesis. Solid-phase peptide synthesis following strategies in batch and by continuous flow methods, using manual, semiautomatic and automatic synthesizers. Development of peptide-based drugs.

Synthesis of unnatural amino acids and modified peptides. Click Chemistry. Optimization of synthetic protocol for the synthesis of difficult sequences. Microwave assisted techniques. Characterization and purification techniques. Diagnostics, specific knowledge the synthesis of organic or peptide biomarkers. Analytical methods: HPLC, UPLC, LC-MS, MS (ESI, APCI), NMR, UV, IR.

Environmental medicine: synthesis of metabolites that can be used as standards in quantitative analyses. Clinical analysis, in particular research of metabolites in urines; test ELISA and research of antibody autoimmunity diseases.

Fields of interest

Diagnostics. Biomarkers. Bioorganic chemistry of peptides and proteins. Synthetic & semi-synthetic strategies of co- or post-translationally modified proteins.

Study of metabolic disease and research of Endocrine disruptors chemicals.

Congress participations

April 2010 "Probes for peptide science: design and methodological development" 8 and 9 April 2010, Université Pierre et Marie Curie Les Cordeliers Paris, France.

September 2010 31st European Peptide Symposium, 31st EPS, Copenhagen (Denmark), 5-9 September 2010.

April 2011 2nd International Microwave-Assisted Organic and Peptide Synthesis Symposium, MAOPS2, Firenze, April 27-29, 2011

Poster communications at congress

C Testa, F Nuti, M Scrima, AM D'Ursi, N Lubin Germain, M Chorev, P Rovero, AM Papini. "Probing the Bioactive Conformation of melanocortin like peptide by Click Reaction".

Congress: Probes for peptide science: design and methodological development, April 8-9, 2010, Paris; Abstract P28

C. Testa, F. Nuti, M. Scrima, A. M. D'Ursi, N. L. Germain, M. Chorev, P. Rovero, A. M. Papini. "Stabilization of β turn conformation in melanocortin like peptide by click reaction".

Congress: 31st European Peptide Symposium, 31st EPS, Copenhagen (Denmark), 5-9 September 2010. Abstract p. P472

F. Rizzolo, **C. Testa**, M. Chorev, M. Chelli, P. Rovero, A. M. Papini. "Conventional and microwave-assisted SPPS approach: a comparative study of PTHrP(1-34)NH₂ synthesis".

Congress: 31st European Peptide Symposium, 31st EPS, Copenhagen (Denmark), 5-9 September 2010. Abstract p. P546

F. Rizzolo, **C. Testa**, D. Lambardi, M. Chorev, M. Chelli, P. Rovero, and A. M. Papini. "Conventional and microwave-assisted SPPS approach: a comparative synthesis of PTHrP(1-34)NH₂".

Congress: 2nd International Microwave-Assisted Organic and Peptide Synthesis Symposium, MAOPS2, Firenze, April 27-29, 2011.

Oral presentation at congress

C. Testa, S. Carganico, F. Nuti, M. Scrima, A. M. D'Ursi, M. L. Dirain, N. Lubin Germain, C. H. Luevano, M. Chorev, P. Rovero, A. M. Papini, Probing the Bioactive Conformation of melanocortin like peptide by Click Reaction, 1st PhD Day, Sesto Fiorentino, Florence (Italy), 22 June 2010

Chiara Testa, Stefano Carganico, Francesca Nuti, Mario Scrima, Anna Maria D'Ursi, Marvin L. Dirain, Nadeje Lubin Germain, Carrie Haskell-Luevano, Michael Chorev, Paolo Rovero, and Anna Maria Papini, "Stabilization of β -turn conformation in melanocortin like peptide by click side chain-to-side chain cyclization "

31st European Peptide Symposium, 31st EPS, Copenhagen (Denmark), 5-9 September 2010. Oral O8

F. Rizzolo, **C. Testa**, M. Chorev, M. Chelli, P. Rovero, A. M. Papini, Conventional and microwave-assisted SPPS of PTHrP(1-34)NH₂ - A comparative study. 2nd International Microwave-Assisted Organic and Peptide Synthesis Symposium, MAOPS2, Florence (Italy), 27-29 April 2011.

M.E. Street, A.M. Papini, **C. Testa**, F. Nuti, E. Grossi, S. Bernasconi, Relationships between urinary concentrations of PhtalOx, obesity and insulin sensitivity in obese children: a pilot study. The Obese Species workshop, Erice Italy 21-26 October 2011

Proceedings of Congress peer reviewed on books

C. Testa, S. Carganico, F. Nuti, M. Scrima, A.M. D'ursi, M. L. Dirain, N. Lubin Germain, C. Haskell Luevano, M.I. Chorev, P. Rovero, A. M. Papini. Stabilization of β -turn conformation in melanocortin like peptide by click side chain-to-side chain cyclization. In: Tales of Peptides Proceedings of the Thirty-First European Peptide Symposium .M. Lebl, M. Meldal, K. J. Jensen, T. Høeg-Jensen European Peptide Society (Eds.), Prompt Scientific Publishing (2010), p 14-15. **ISBN:** 0-9715560-5-9

F. Rizzolo, **C. Testa**, M. Chorev, M. Chelli, P. Rovero, A. M. Papini. Conventional and microwave-assisted SPPS approach: a comparative study of PTHrP(1-34)NH₂ synthesis. In: Tales of Peptides Proceedings of the Thirty-First European Peptide Symposium. M. Lebl, M. Meldal, K. J. Jensen, T. Høeg-Jensen European Peptide Society (Eds.), Prompt Scientific Publishing (2010), p 188-189. **ISBN:** 0-9715560-5-9

Publications

Fabio Rizzolo, **Chiara Testa**, Duccio Lambardi, Michael Chorev, Mario Chelli, Paolo Rovero and Anna Maria Papini 2011. Conventional and microwave-assisted SPPS approach: a comparative synthesis of PTHrP(1-34)NH₂ J. Pept. Sci. , 17: 708–714.

Chiara Testa, Francesca Nuti, Joussef Hayek, Claudio De Felice, Mario Chelli, Paolo Rovero, Giuseppe Latini, and Anna Maria Papini 2012. Association between urinary excretion of di(2-ethylhexyl)phthalate secondary metabolites and Autism Spectrum Disorders in children. ASN neuro, 2012, 4(4):223-229.