



Michele Casoria

Date of birth: 20/01/1996 | **Nationality:** Italian | **Phone:** (+39) 3200884298 (Mobile) | **Email:**

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Address: Via della Lastruccia, 50019, Sesto Fiorentino, Italy (Work)

EDUCATION AND TRAINING

31/10/2021 – CURRENT Sesto Fiorentino, Italy

PHD STUDENT University of Florence

Molecular Dynamics and computational study and bioinformatic approach to synthetic conformational peptide epitopes to disclose molecular mechanism of aberrant immune response in auto-immune diseases.

Address Via della Lastruccia, 13, 50019, Sesto Fiorentino, Italy | **Field of study** Physical Chemistry

01/04/2024 – 31/07/2024 Paris, France

PHD VISITING STUDENT École nationale supérieure de chimie de Paris

09/01/2018 – 21/09/2021 Sesto Fiorentino (FI), Italy

MASTER DEGREE IN CHEMISTRY LM-57 University of Florence

Address Via della Lastruccia, 13 -, 50019, Sesto Fiorentino (FI), Italy | **Field of study** Synthesis, Structure and properties of organic compounds |

Final grade 110/110 cum laude | **Number of credits** 120 | **Thesis** SYNTHESIS AND BIOLOGICAL EVALUATION OF CELL-PENETRATING PEPTIDES

07/04/2021 – 31/07/2021 Cologne, Germany

MASTER'S INTERNSHIP University of Cologne, Institute for Biochemistry - Germany

Preparation by Solid-phase peptides Synthesis a series of Cell-penetrating peptides

Peptides analyze by HPLC, IR and Mass.

CD spectroscopy to get insights into secondary structure formation.

Peptides evaluation of antimicrobial activity by INT-Assay with gram-positive and gram-negative bacteria, calculation of MIC by fitting curve dose-response.

Haemolysis assay with human red blood cells.

Cytotoxicity Assay with tumor and non-tumor cells.

Measur of intracellular uptake using Flow-Citometry and Fluorescence Microscopy.

Prof. AnnaMaria Papini (supervisor) at University of Florence

Prof. Ines Neundorf (Co-rapporteur) at University of Cologne

Address Zülpicher Str. 47a, 50674, Cologne, Germany | **Field of study** Peptide Chemistry, Chemical Biology, | **Level in EQF** EQF level 1 |

Number of credits 30 + 6 | **Thesis** Synthesis and biological evaluation of Cell-penetrating Peptides

31/08/2014 – 21/02/2018 Fisciano (SA), Italy

BACHELOR'S DEGREE IN CHEMISTRY L-27 University of Salerno, Department of Chemistry and Biology A. Zambelli

Address Via Giovanni Paolo II, 132, 84084, Fisciano (SA), Italy | **Field of study** Chemistry | **Final grade** 110/110

31/08/2018 – 30/11/2018 Fisciano (SA), Italy

BACHELOR TRAINING University of Salerno

Synthesis of five new cyclic peptoids containing (2S,4R)-4-hydroxyproline (Hyp) residues using a mixed "submonomer/monomer" approach.

Alkali metal cation affinities and ion transport activities were assessed by experimental (NMR and HPTS assay in liposomes).

Address Via Giovanni Paolo II, 132, 84084, Fisciano (SA), Italy | **Field of study** Peptide Chemistry | **Final grade** Bachelor Degree |

Thesis Synthesis of five new cyclic peptoids containing (2S,4R)-4-hydroxyproline (Hyp) residues

Link <https://pubs.rsc.org/ja/content/articlelanding/2018/ob/c8ob01522h#divAbstract>

31/08/2010 – 05/01/2014 Sarno (SA), Italy

SECONDARY SCHOOL DIPLOMA IN CHEMISTRY I.T.I. E. Fermi

Address Via Roma, 26, 84087, Sarno (SA), Italy | **Field of study** Chemistry | **Final grade** 90/100

PUBLICATIONS

2022

[From a Bioinformatic Approach to Synthetic Conformational Peptide Epitopes to Disclose Molecular Mechanism of Aberrant Glucosylation in Multiple Sclerosis](#)

Michele Casoria, Paolo Rovero, Gianni Cardini, Marina Macchiagodena, Anna Maria Papini, Claudia Andreini, Marco Pagliai.

Proceedings of the 36 th European Peptide Symposium, European Peptide Society, 2022

2023

[Upgrading of the general AMBER force field 2 for fluorinated alcohol biosolvents: A validation for water solutions and melittin solvation](#)

J. Pep. Sci, 2023 e3543

M. Casoria, M. Macchiagodena, P. Rovero, C. Andreini, A. M. Papini, G. Cardini, M. Pagliai

CONFERENCES & SEMINARS

11/02/2024 – 16/02/2024 Ventura, California, United States

Gordon Research Conference on Chemistry and Biology of Peptides

10/02/2024 – 11/02/2024 Ventura, California, United States

Gordon Research Seminar on Chemistry and Biology of Peptides

23/09/2023 – 23/09/2023 Florence, Italy

Scientific day dedicated to young researchers of ItPS

Oral presentation: Bringing Immunology into the Realm of Chemistry: Structural and dynamic properties of TCR-peptide-MHC complex.

20/09/2023 – 22/09/2023 Pisa, Italy

VIII Congresso Nazionale della Divisione di Chimica Teorica e Computazionale della SCI

Oral Presentation: Structural properties of N-glycosylated Proteins

28/08/2022 – 02/09/2022 Sitges, Spain.

36th European Peptide Symposium (EPS) and 12th International Peptide Symposium (IPS).

Poster presentation: From a bioinformatic approach to synthetic conformational peptide epitopes to disclose molecular mechanism of aberrant glucosylation in multiple sclerosis.

15/06/2022 – 15/06/2022 Naples, Italy.

4th National Congress of Italian Peptide Society (ItPS)

Oral presentation: Molecular Dynamic approach on synthetic conformational peptides to detect epitopes in autoimmune disease.

08/04/2022 – 08/04/2022 Florence, Italy

WORKSHOP DELLA DIVISIONE DI CHIMICA TEORICA E COMPUTAZIONALE

Oral presentation: From a bioinformatic approach to synthetic conformational peptide epitopes to disclose molecular mechanism of aberrant immune response in auto-immune diseases.

14/12/2021 – 14/12/2021 Florence, Italy

Workshop Ms Hybrids 2021

No scientific contribution

12/12/2020 – 12/12/2020 on-line

3rd National conference of Italian Society of Peptides (ItPS)

No scientific contribution

WORK EXPERIENCE

30/06/2018 – 30/09/2018 Naples, Italy

TECHNICAL QUALITY ASSURANCE LA VERA NAPOLI SOC. COOP. AGR., CERCOLA (ITALY)

Tomato juice management and control officer for filling liquid (pH and °Brix correction);
Pasteurizer management and control operator (time check and temperatures according to specifications) verification F100;
Employee at management and control of net weights and filling weights (Drained);

Box crimping control by projector dedicated software;
Finished product inspector (net weights and drained, pH, ° Brix, various defects); Mold quantity control officer Howard.

30/06/2012 – 30/09/2016 Naples, Italy

TECHNICAL QUALITY ASSURANCE FRANZESE S.P.A., PALMA CAMPANIA (ITALY)

Tomato juice management and control officer for filling liquid (pH and ° Brix correction);
Pasteurizer management and control operator (time check and temperatures according to specifications) verification F100;
Employee at management and control of net weights and filling weights (Drained);
Box crimping control by projector dedicated software;
Finished product inspector (net weights and drained, pH, ° Brix, various defects); Mold quantity control officer Howard

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | OriginPro | Python Language - Basic knowledge

● DRIVING LICENCE

Driving Licence: B