

Dr Claudia Bello

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Date and Place of birth: 10.05.1979 Bern (CH)

Nationality: Italian

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• ACTUAL POSITION

- 03.2020 - Associate Professor, Department of Chemistry, Interdepartmental Research Unit of Peptide and Protein Chemistry and Biology, University of Florence, Italy
- 03.2017- Visiting scientist and lecturer, Institute of Biological Chemistry, Faculty of Chemistry, University of Vienna, Austria.

• RESEARCH EXPERIENCE

- 03.2017- 02.2020 Assistant Professor tenure track (RTD-b), **Rita Levi Montalcini Program for young researchers**, Department of Chemistry, Laboratory of Peptide and Protein Chemistry and Biology-PeptLab, University of Florence, Italy
- 12.2012-02.2017 Senior Researcher, Faculty of Chemistry, Institut für Biologische Chemie, University of Vienna, Austria.
- 12.2012-12.2016 Visitor scientist (periodic short stays) at the Structural and Computational Biology Unit, Biomolecular Networks group (Dr A.-C. Gavin), EMBL-Heidelberg, Germany
- 12.2010-11.2012 Postdoc (**A. von Humboldt research fellowship**) Department of Chemistry, Protein Chemistry group, Technische Universität München, Germany and structural and Computational Biology Unit, (Gavin group), EMBL-Heidelberg, Germany.
- 08.2009-07.2010 Postdoc EPFL **Inngrant** of VPIV /EPFL (with the aim to further develop my projet and founding a start-up). Institut de Sciences et Ingénierie Chimique (ISIC), Laboratoire de Glycochimie et Synthèse Asymétrique (LGSA), Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
- 10.2004 -12.2004 Internship at CarboGen AG (Aarau, CH), supervisors: Dr Markus Juza e Prof Ornella Azzolina. "Systematic Development of an Enantioselective HPLC Separation of Intermediates Based on Phenyl butyric acid and a Method for their Synthesis"

• HABILITATION

- 2018-2024 Abilitazione Scientifica Nazionale per la seconda fascia (habilitation to associate professor, organic chemistry sector, from the Italian Ministry of Education)
- 2016-2020 «Qualification aux fonctions de Maitres de Conférence des Universités Françaises » from the french CNU (Conseil National des Universités)

• EDUCATION

- 2009 **PhD** in Chemistry and Chemical Engineering, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland. Supervisor: Prof Pierre Vogel. Evaluation: excellent *This work has been awarded with a grant (Inngrant, 100,000 CHF) for its innovative potential. My results have been used as preliminary data in the application for the project PANACREAS FP7-2007-2013, n° HEALTH-F2-2011-256986, funded with 2,965,207 €.*

- 2006 **DEA** (Diplôme d'Etudes Approfondies) multinational de chimie moléculaire, Ecole Polytechnique, Palaiseau, France.
- 2005 **2nd Level University Master Degree** (post-Laurea degree providing a higher level of specialization) in "Drug Design and Development", University of Pavia, Italy
- 2003 **Laurea** (degree after 5 years studies) in Chemistry, 110/110 e lode (summa cum laude), University of Basilicata, Italy

• HONORS/AWARDS/ACTIVITIES

- 2023- Secretary and treasurer of the Tuscany section of the Italian Chemical Society
Member of the organizing committee of the regional final of the annual "Giochi della Chimica", a national chemistry competition for high school students.
- 2023- Member of the Review Group of the bachelor program in Sustainable Business for Societal Challenges, School of Economy and Management, University of Florence.
- 2022- "Delegato all'orientamento" for the School of Mathematical, Physical and Natural Sciences of the University of Florence.
- 2022- Treasurer and member of the executive committee of the Italian Peptide Society
- 2021- International Mobility representative for the curriculum "Biomolecolare" of the Bachelor Program in Biotechnology.
- 2021 and 2022 President of the committee for the "Esami di Stato", that is the exams for the professional habilitation in Chemistry.
- 2021- Member of "Comitato della didattica" of the Bachelor program in Biotechnology, University of Florence.
- 2019-2020 Member of the "Giunta" of the Department of Chemistry, University of Florence.
- 2019-2020 Member of the Councils of the School of Mathematical, Physical and Natural Sciences of the University of Florence.
- 2019-2020 Member of the Councils of the School of Human Health Science of the University of Florence.
- 2019- "Delegato all'orientamento" for the Bachelor program in Chemistry, School of Mathematical, Physical and Natural Sciences of the University of Florence.
- 2017 **Rita Levi Montalcini Program for Young Researchers** (Call 2014) recipient, total funding: 222,373.66 €
- 2013 **Two prizes** "Best poster presentation": «5th Chemical Protein Synthesis Meeting », Vienna and « 3rd Austrian Peptide Symposium », Graz
- 2012 **Two travel grants**, participation to the « 21st national meeting on medicinal chemistry » in Palermo, Italy and to the « 32nd European Peptide Symposium », Athens, Greece.
- 2010 –2012 **A. von Humboldt research fellowship** for postdoctoral researchers. Total funding: 80,000 €
- 2009 **EPFL Innogrant** from the Vice-Presidency for Innovation of the EPFL, total funding: 100,000 €. I was in the shortlist of the "Venture leaders 2010" prize.
- 2004 **Fellowship** EU-Regional Operational Program

• TEACHING ACTIVITY

- 2024- Lecturer of the course "**Organic Chemistry II**" for bachelor students in exchange from USA, ISI Florence, 3 ECTS (course held in English)

- 2023- Lecturer of the course “**Sustainable, Environmental Chemistry and Technology for Circular Economy (with Lab)**” of the Bachelor program in Sustainable Business for Societal Challenges, School of Economy and Management, University of Florence, 3 ECTS (total ECTS: 12, shared course). (course held in English). Reference lecturer for chemistry (CHIM/06) for the bachelor program.
- 2021- Responsible lecturer of the course “**Environmental Chemistry**” of the Master program in Natural Sciences (Corso di laurea magistrale in Scienze della Natura e dell’Uomo), School of Mathematical, Physical and Natural Sciences, University of Florence, 6 ECTS.
- 23.04.2021 and 22.04.2022 Invited lecturer for the “Master di II livello” in Drug Design and Development of the University of Pavia, Italy. Lecture title: An emerging class of pharmaceuticals: peptides in medicine.
- 2019- Lecturer of the course of “**Methods of Structural Investigation in Organic Chemistry**” of the Master program in Chemistry (corso di laurea magistrale in Scienze Chimiche, curriculum “Sintesi, struttura e proprietà dai composti organici”), School of Mathematical, Physical and Natural Sciences, University of Florence, 2ECTS (total ECTS: 6, shared course).
- 2018- Responsible lecturer of the course “**Biorganic Chemistry**” of the Bachelor program in Biotechnology (corso di laurea in Biotecnologie), School of Human Health Science, University of Florence, 6 ECTS.
- 2017 (SS) Lecturer of the course of “**NMR Spectroscopy in Organic Chemistry**” of the Master program in Chemistry (corso di laurea magistrale in Scienze Chimiche, curriculum “Sintesi, struttura e proprietà dai composti organici), School of Mathematical, Physical and Natural Sciences, University of Florence, 2ECTS (total ECTS: 6, shared course).
- 2017 (WS) Responsible lecturer of the course “**Biotransformations in Organic Chemistry**” of the Master program in Chemistry (corso di laurea magistrale in Scienze Chimiche, curriculum “Sintesi, struttura e proprietà dai composti organici), School of Mathematical, Physical and Natural Sciences, University of Florence, 6 ECTS.
- 2013- Responsible lecturer of the course “**Chemical Biology**” of the Master in Chemistry and PhD School, University of Vienna 1.5 ECTS (total ECTS: 3, shared course).
- 2012-2016 co-organizer of the practical courses “**Biological Chemistry**” and “**Peptide and Protein Chemistry**”, University of Vienna.
- 2005-2007 Theoretical and practical **teaching assistant** (chemistry) for first- and second-year chemistry, biology and medicine students. ISIC-EPFL

• SUPERVISION OF UNDERGRADUATE AND GRADUATE STUDENTS

- 2022- Cosupervision of Sara Aquilia, PhD student in Chemical Sciences (PON “research and innovation 2014-2020” fellowship)
- 2020-2021 Supervisor of an Erasmus Student during her final experimental work (Spanish TFG)
- 2020-2021 Supervisor of 3 bachelor theses in Biotechnology.
- 2019 Supervisor of Maximilian Schrems during his research stay at the University of Florence (Fellowship from the University of Vienna “Kurzfristige wissenschaftliche Auslandsstipendien (KWA, short-term grant abroad)” for PhD students)

2018-2019	Supervisor of Emanuele Piemontese in his Master thesis in Pharmaceutical Chemistry, University of Florence
2017-2018	Cosupervisor of F. Borri and of G. Burresti in their Master theses respectively in Chemistry and in Pharmaceutical Chemistry, University of Florence
03.2016-	Cosupervisor of A. Schmid and of M. Schrems, PhD students in the group of Biological Chemistry (Prof C. Becker) at the University of Vienna
2014-2015	Cosupervisor of I. Saccone (PhD student at the University of Naples) during her six months stay at the University of Vienna. In collaboration with University of Naples "Federico II"
2008-2017	Cosupervisor of 2 Master students in Chemistry at the University of Vienna (<u>07.2015 - 04.2017</u> , supervisor Prof C. Becker), and of 2 Master students in Chemistry at EPFL (<u>2008-2009</u> , supervisor prof P. Vogel).
2006 –2017	Cosupervisor of more than 15 students individual internship in the laboratory (3-8 weeks internship) and of 4 students during their bachelor theses. EPFL, TUM and University of Vienna.

- **MEMBER OF COMMITTEE**

06.2024	Member of the committee for the PhD defense (Doctoral school in Chemical and Pharmaceutical Sciences) of Giorgia Vinciarelli, University of Siena (IT)
05.2023	Member of the committee for the PhD defense (Doctoral school in Chemical Sciences) of Debora Pratesi e Jacopo Tricomi, University of Florence (IT)
01.2023	Member of the evaluation committee for the PhD defense (Doctoral school in chemistry) of Simone Fratta, University of Sevilla (ES)
06.2022	Member of the evaluation committee for the PhD defense (Doctoral school in chemistry) of Lukas Kerul, University of Vienna (AT)

- **PARTICIPATION IN PROJECTS**

2020-2021	Title: Application-oriented development of Carbonic Anhydrase-containing Materials for in situ pH modulation: CA pH/CO ₂ bio-controller materials. _CAMbio-pH. Progetti competitivi per Ricercatori a Tempo Determinato (RTD) dell'Università di Firenze (Competitive projects for RTD of the University of Florence), Call 2019. Role: participant (PI: Fabrizio Carta).
03.2017-03.2020	Title: Deciphering O- and N-Glycosylation by Generating Access to Complex Homogeneously Glycosylated Peptides and Proteins. Rita Levi Montalcini Program for young researchers (call 2014), Italian Ministry of Education. Role: PI
2010-2012	Title: Synthesis and application of homogeneous proteins with multiple posttranslational modifications. (2010) Funded by A. von Humboldt foundation (DE). Role: PI
2009-2010	Title: Anti-cancer agents. (2009) Funded by VPIV EPFL (CH). Role: PI
2007-2013	Title: Pancreas FP7 2007-2013. Funded by the European Commission. Role: participant (PI: Pierre Vogel)
2006-2007	Title: TrioH FP6-LIFESCIHEALTH. Funded by the European Commission. Role: participant (PI: Pierre Vogel)

- **SCIENTIFIC SOCIETIES MEMBERSHIP**

SCI "Italian Chemical Society", ItPS "Italian Peptide Society", GDCh "German Chemical Society", EPS "European Peptide Society", AtPS "Austrian Peptide Society", APS "American Peptide Society".

- **PAST and PRESENT COLLABORATIONS**

- Prof Christian F. W. Becker, Institute of Biological Chemistry, University of Vienna, Austria.
- Prof Kelly Moremen, Complex Carbohydrate Research Center, The University of Georgia, USA
- Prof Faustino Mollinedo, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain.
- Prof Inmaculada Robina, Department of Organic Chemistry, University of Sevilla, Spain.

- **LANGUAGES**

Italian: Mother tongue. English and French: fluent, excellent comprehension, excellent written level.
German: very good spoken level, excellent comprehension, good written level.

- **EVENT ORGANIZATION AND MANAGEMENT**

- Organization of the “Giornata Scientifica ItPS dedicata ai soci giovani” 2023, a one-day symposium of the Italian Peptide Society. (23rd September 2023)
- Coorganization of the “muv-science at its best”, final event of the mentoring program for women in science muv7 of the University of Vienna (June 2016)
- Chair person at the IV National congress of the Italian Peptide Society, 15th June 2022

- **COURSES ATTENDANCE**

- Mentoring program for women in science, cycle muv7 (2014-2016), of the University of Vienna. Mentor: Prof Renée Schroeder, MFPL, University of Vienna.
- “8th Swiss Course on Medicinal Chemistry”, 12-17 Oct 2008, Leysin, Switzerland.
- CUSO Summer School, 2-6 Sept 2007, Villars, Switzerland.

Publications: **33** publications in peer-review scientific journals, 2 proceedings, 3 patent applications. (H-Index: 13, citations: 548. Source: Scopus)

Presentations: **24** oral presentations (5 invited), and **28** poster presentations in international conferences/meetings.

Autorizzo al trattamento dei miei dati personali ai sensi del D.Lgs. 196/2003 (Codice in materia di protezione dei dati personali) e del REG.UE 2016/679

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