

Curriculum Vitae Dr. Simona Maria Monti

Positions and Employment

2020 - Present	Elected Member at the IBB-CNR Institute Council, Naples, Italy
2020 - Present	Senior Researcher at the Institute of Biostructures and Bioimaging (IBB), National Research Council Naples, Italy
2001 - 2020	Researcher at the Biocrystallography Center, National Research Council Naples, Italy
1994-1997	PhD University Federico II of Naples, Italy
1993	M.D. University Federico II of Naples, Italy

Project Reviewer

2022	Rapporteur 2 of Marie Curie research projects upon request of Research Executive Agency (REA) of the European Community.
2022	Reviewer of Marie Curie research projects upon request of Research Executive Agency (REA) of the European Community.
2021	Reviewer of Marie Curie research projects upon request of Research Executive Agency (REA) of the European Community.
2021	External Reviewer ANVUR for VQR 2015-19
2020	Reviewer of Marie Curie research projects upon request of Research Executive Agency (REA) of the European Community.
2018	External Reviewer for the Italian Ministry of Education and Research MIUR (Ministero dell'Istruzione, Università e Ricerca) for research projects evaluation of a research project
2017	External Reviewer for the Italian Ministry of Education and Research MIUR (Ministero dell'Istruzione, Università e Ricerca) for research projects evaluation of a research project
2016	External Reviewer for the German Research Foundation, Chemistry and Engineering Sciences

Editorial Activities

2022-present	Topic Editor of Research Topic entitled "Emerging Advancements in the Carbonic Anhydrase Field" on Frontiers in Molecular Bioscience (CiteScore 4.8)
2022- Present	Editorial Board of Structural Biology (specialty section of Frontiers in Molecular Biosciences and Frontiers in Cell and Developmental Biology, IF. 6.113)
2022- Present	Associate Editor of Frontiers in Chemistry and Frontiers in Molecular Biosciences (section Protein Biochemistry for Basic and Applied Sciences, IF. 6.113).
2022-Present	Guest Editor of topical Collection entitled "Intrinsically Disordered Proteins" on Biomolecules (MDPI, IF. 4.694)
2022-Present	Guest Editor of Special Issue entitled "Metallo-Enzymes as Drug Targets" on Biology (MDPI, IF. 5.079)
2020 -2022	Guest Editor of Special Issue on Biomolecules (MDPI, IF. 4.694) entitled "The Amazing World of IDPs in Human Diseases" second volume
2019 -2020	Guest Editor of Special Issue on Biomolecules (MDPI, IF. 4.694) entitled "The Amazing World of IDPs in Human Diseases"
2019-Present	Editorial Board Member of Biomolecules (MDPI, IF. 4.694)
2019-Present	Editorial Board Member of Scientific Report area Chemical Biology, (Springer Nature, IF: 4.5)
2018 -2019	Guest Editor of Special Issue on Oxidative Medicine and Cellular Longevity", (Hindawi, IF. 4.936), entitled: "Role of antioxidants in the protection from aging-related diseases"
2017- Present	Regional Board Member of The Open Biochemistry Journal", (Bentham Open ISSN: 1874-091X)
2016- 2017	Guest Editor of Special Issue on Current Topics in Medicinal Chemistry" (Bentham, IF. 3.402), entitled "Bacterial zinc-enzymes as drug targets
2001-Present	<i>Ad hoc</i> reviewer for several research journals The Journal of Physiology, Biochimie, Bioorganic & Medicinal Chemistry, Bioorganic & Medicinal Chemistry Letters, Journal of Enzyme Inhibition and Medicinal Chemistry, Current Pharmaceutical drug design, Current

Medicinal Chemistry, Proteins, Preparative Biochemistry & Biotechnology, Food Chemistry, Metabolites, Bioorganic chemistry, Biomolecules etc.

Other Experience and Professional Memberships

2023-present	Advisory Board member of PhD “Scienze e Ingegneria per l’Ambiente e la Sostenibilità” of Università degli Studi della Campania “L. Vanvitelli
2023	Member of the Award Committee of the Best Poster presentation at “The 12h International Conference on Carbonic Anhydrases: emerging advancements in the field”, Napoli (Italia) 5-7 luglio 2023
2023	Chairman of “The 12h International Conference on Carbonic Anhydrases: emerging advancements in the field”, Napoli (Italia) 5-7 luglio 2023
2023-present	National qualification for full professor in: Fundamentals of Chemical Sciences and Inorganic Systems. ASN21 (code 03/B1), Italy
2022-present	Responsible for the Proper Management of Hazardous and Non-Hazardous Special Waste for Lab 19 IBB-CNR.
2022	Chairman at PhD days Università della Campania, Molecular Life Science, section Structure and Functions of Biomolecules, 6 October 2022
2022	Member of the Award Committee of the Best Poster presentation at SIB, 26 October 2022
2018-2022	Responsible for Safety lab BM, IBB-CNR
2014 - Present	National qualification for full professor in General and Clinic Biochemistry ASN2013 and ASN21 (code 05/E1), Italy
2008	Chairman of 11th Naples workshop on bioactive peptides – new frontiers in the search of bioactive molecules, from peptides to drugs
2006	Chairman of 10th Naples workshop on bioactive peptides – Conformation activity relationships in peptides and interactions with biomolecules: the legacy of Murray Goodman.
2001-Present	IBB Committee Member for the evaluation and purchase of important scientific instruments (such as, LC-MS, HP centrifuges, DLS, spectrofluorometer, and so on)
2001-Present	IBB Committee President or Member for postdoc research grants
2001-Present	IBB Committee President or Member for graduate research grants

Organization of National and International Conferences

2023	Chair of 12th International Conference on Carbonic Anhydrase, 5-7 July 2023, Naples (Italy)
2023	Chair of the International Advisory Committee of International Conference on Advances in Biosciences and Biotechnology 2023 (ICABB-23), entitled “Innovative Advancements in Biotechnology and Bioinformatics”, 18 th - 20 th January, 2023 at Jaypee Institute of Information Technology in Noida (India)
2022	Member of the organizing committee of the national conference “Meeting Sezione SIB Campania 2022” 26 October 2022
2013	Member of the organizing and scientific committee of the international conference “2 nd CA satellite meeting” Naples 23-25/10/2013.

Speaker at International and National Conference

2023	ADVANCES OF HUMAN CARBONIC ANHYDRASE IX STRUCTURE -FUNCTION RELATIONSHIP BY BIOTECHNOLOGICAL TOOLS Keynote Lecture at ICABB-2023, International Conference on Advances in Biosciences and Biotechnology, 18th-20th January, 2023, Department of Biotechnology Jaypee Institute of Information Technology, A-10, Sector-62 NOIDA, India.
2018	PROSYSTEMIN IS AN INTRINSICALLY DISORDERED PROTEIN Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional CINVESTAV – Unidad” Irapuato (Messico) 4 May 2018, invited by Prof J. P Délano Frier
2018	STUDY OF THE EXTRACELLULAR INTERACTOME OF HUMAN CARBONIC ANHYDRASE IX Conclusive meeting: “Interomics- Precision medicine- Cell-based Omics for biomedical research applications” CNR, Rome, 28-30 October 2018
2018	STRUCTURAL AND FUNCTIONAL FEATURES OF AMAZING CA VII "The 11th International Conference on Carbonic Anhydrases” Bucharest, Romania, 28-30 Giugno 2018

2017	INSIGHTS INTO THE PROTEOGLYCAN-LIKE DOMAIN OF CARBONIC ANHYDRASE IX 3rd CA satellite meeting “New Trends in Carbonic Anhydrases' Research” Montecatini Terme (Florence), 24-27 May 2017
2015	CARBONIC ANHYDRASE VII/ CARBONIC ANHYDRASE III AND OXIDATIVE STRESS “The 10th International Conference on Carbonic Anhydrase (CA)” Maastricht, The Netherlands, 20-22 April 2015
2012	FAOX ENZYMES FROM ASPERGILLUS SP AS ENZYMATIC TOOLS FOR PREVENTING AGE FORMATION” “11th Maillard Reaction Symposium” Nancy, France , 16-20 October 2012
2012	CARBONIC ANHYDRASE VII IS S-GLUTHIONILATED WITHOUT LOSS OF CATALYTIC ACTIVITY AND AFFINITY FOR INHIBITORS “The 9th International Conference on Carbonic Anhydrase (CA)” Antalya Turkey, 11-15 April 2012
2011	INSIGHTS INTO HUMAN CARBONIC ANHYDRASE VII” “CA satellite meeting”, Montecatini, Florence, 28 June 2011.
2009	BIOCHEMICAL AND STRUCTURAL CHARACTERIZATION OF HUMAN CARBONIC ANHYDRASE XIII” University of Florence, Chemistry Department, upon invitation of CT Supuran 17 September 2009

Spinoff

2024-present	ImmunoVeg participates to European project HORIZON-MSCA-2022-SE-01 (MSCA Staff Exchanges 2022)
2021-Present	Co-founder of innovative start-up IMMUNOVEG s.r.l.

Patents

2023-present	IT Patent application n. 102023000011208, “Calli vegetali da buccia di mela e loro coltura per la produzione dei fitocomposti florizina ed acido ursolico” 01.06.2023.
2021-present	IT Patent application n. 102021000000785, “Metodo di editazione genetica per incrementare il contenuto di antocianine in cellule di patata”, 18/01/2021.
2021-present	International Patent Application N. PCT/IB2021/056897 29/07/2021 (ITALIA - N. 102020000018811)
2020-Present	IT Patent application n.102020000018811, "Peptidi Biostimolanti e Bioprotettivi e loro impiego in agricoltura"31/07/2020 (granted)
2012- Present	The patent WO2011/048390 has been licensed to Spin-out KESIOS THERAPEUTICS (UK)
2010-Present	International patent: Gadd45Beta targeting agents, WO2011/048390, publication date 28.04.2011, PCT/GB2010/001970.
2009-Present	European patent: Peptide ligands specific to immunoglobulins. Eur. Pat. Appl. (2006), 17 pp. CODEN: EPXXDW EP 1621546 A1 20060201

Honors and Awards

2020	Startup Campania Innovation Awards for ImmunoVeg spin-off innovation
2019-2020	UNINA Highlights on Science “Maleness-on-the-Y (MoY) orchestrates male sex determination in major agricultural fruit fly pests”
2018-2019	Top Cited Article on Medicinal Research Review (Wiley) “Inhibition of Carbonic Anhydrase IX targets primary tumors, metastases, and cancer stem cells: three for the price of one”
2011	CNR fundings award LS training in USA
2009-2010	CNR Highlights “Crystal structure of the catalytic domain of the tumour-associated human Carbonic Anhydrase IX”
2008-2009	CNR Highlights “Crystal structure of the catalytic domain of the tumour-associated human Carbonic Anhydrase IX”

Membership of Scientific Societies

2022- Present	Member, Italian Society of Chemistry (SCI)
2018 - Present	Member, Italian Society of Biochemistry and Molecular Biology (SIB)

Bibliometric indicators related to publications and citations

Author of more than 131 publications in peer reviewed international journal (1994-2024);

h-Index = **45 (Google Scholar)**, citations = 6422 (Google Scholar); or **41 (Scopus)**, citations = 5,135 (Scopus)

<https://orcid.org/0000-0001-9647-7089>

<https://www.scopus.com/authid/detail.uri?authorId=7007008860>

IBB website: <http://www.ibb.cnr.it/?command=viewu&id=425>

Research Project Responsibility

2024-on going One Research Grant as PI from JRU PHEN-ITALY 2024 € 24.750,00

2024-on going One Service Contract PI from Materias S.r.l € 10.000,00

2023-on going Coordinator and PI PRIN 2022 € 231.029,00

2023-on going Joint Polish-Italian Project as PI CNR 2023-2024 € 6.000,00

2022-ongoing CN_2 Agritech funding from PNRR PI for IBB € 200.000,00

2023-2023 One Service Contract as PI from Materias S.r.l € 10.000,00

2020-2020 One Service Contract as PI from Materias S.r.l € 6000,00

2018-2019 One Research Contract as PI from University of Pisa € 2500,00

2007-2013 One Research Grant as PI from Regione Campania € 149.856,45

2012-2015 One Research Grant as Unit PI from PON-MIUR € 40.176,00

2012-2015 One Research Grant as Unit PI from PON-MIUR € 46.176,00

Research Project Partecipation

Participation to more than 32 research projects with national and international partners, among which Regione Campania, University of Florence, CNR, MAE, MIUR, 2 European Projects

Academic Tutoring

Tutor of 8 PhD students (1 Marie Curie)

Correlator of 15 Master's degree students

Scientific Tutor of 2 postDocs

Scientific Tutor of 4 Research grants

Tutor of 3 Training-and-orientation Internship students

Present Research Unit Mentoring

Present- 1 CNR researcher involved in molecular biology, biochemistry, and structural biology.

Present- 1 CNR technologist involved in biochemistry, bioinformatics, and structural biology

Present- 3 PhD students involved in molecular biology, biochemistry, and structural biology