

CV, Costanza Montagna

Personal data

Date of Birth: 05.12.1983

Place of Birth: Rome, Italy

Citizen of Italy, Resident of Italy

Education

Jan 2015: **Ph.D. in Molecular and Cellular Biology**, University of Rome Tor Vergata. Thesis: "Study of the role of S-nitrosoglutathione reductase in skeletal muscle tissue".

Nov 2010: **M.Sc. in Molecular and Cellular Biology**, University of Rome Tor Vergata. Thesis: "Role of PIM1 kinase in ribosomal stress". Receiving grade: 110/110 "with honours"

Current position

October 2023-present: **Researcher (RTD-B)**, Applied Biology – BIO/13 - UniCamillus International University of Health and Medical Sciences, Rome (IT)

October 2023-present: **Didactic Manager**, MSc Human Nutrition Sciences (LM-61) - UniCamillus International University of Health and Medical Sciences, Rome (IT)

Previous positions

2021-2023: **Post doc Fondazione Veronesi**, University of Rome Tor Vergata, Rome (IT)

2017-2021: **Post doc** at the Institute of Sports Medicine Copenhagen, Bispebjerg og Frederiksberg Hospital, Copenhagen (DK)

2015-2017: **Post doc** at the Danish Cancer Society Research Center, Copenhagen, (DK).

2014-2015: **Visiting Ph.D. student**, Danish Cancer Society Research Center, (DK).

2011-2014: **Ph.D. student**, Research Center IRCCS San Raffaele Pisana, Rome, (IT).

Awards

Sept 2023: **Scientist Researcher Award** Fondazione Benefica Katheleen Foreman Casali, IT

Nov 2022: **Post-doctoral Fellowships Award 2023** Fondazione Umberto Veronesi, IT

June 2022: **Poster Award**, VIII workshop on Nitric Oxide and Cancer, Copenhagen, DK

Nov 2021: **Post-doctoral Fellowships Award 2022** Fondazione Umberto Veronesi, IT

Nov 2020: **Post-doctoral Fellowships Award 2021** Fondazione Umberto Veronesi, IT

Dec 2014: **Travel Fellowship Award** of the Danish Cancer Society for the Gordon Research Conferences on Nitric Oxide Signaling and Therapeutics, Ventura, CA

Sept 2013: **Travel Fellowship Award** of the ABCD Society for the ABCD Conference, Ravenna, IT

Teaching

2023-present: **RTD-B – Applied Biology** - Faculty of Medicine and Surgery, degree in Medicine and Surgery (BIO/13, 1 year - 9 CFU, 90 hours of teaching in English), UniCamillus International University of Health and Medical Sciences, Rome (IT)

2018-present: **Adjunct Professor – Applied Biochemistry** - Faculty of Medicine and Surgery, degree course in Biomedical Laboratory Techniques (BIO/12, 1 CFU, 10 hours of teaching in Italian), UniCamillus International University of Health and Medical Sciences, Rome (IT).

2021-present: **Adjunct Professor – Clinical Molecular Biology and Clinical Biochemistry** degree in Human Nutrition (BIO/12, 5 CFU, 15 hours of teaching in Italian), UniCamillus International University of Health and Medical Sciences, Rome (IT).

2021-present: **Adjunct Professor - Molecular Biology** - Faculty of Medicine and Surgery, degree in Medicine and Surgery (BIO/11, II year - 4 CFU, 40 hours of teaching in English), degree in Dentistry and Dental Prosthetics (BIO/11, II year - 2 CFU, 20 hours of teaching in English, course coordinator), UniCamillus International University of Health and Medical Sciences, Rome (IT).

Nov 2020: **Teacher at the PhD course** “Matrix Biology - physiology and function of extracellular matrix”. University of Copenhagen, Copenhagen, (DK).

Academic Appointments

2022/2023: Saint Camillus International University of Health and Medical Sciences”. Rome (IT).

Member of the evaluation Committee for the admission process of the Master Degree program in Human Nutrition Sciences.

Member of the evaluation Committee for the admission process to subsequent years of the Master Degree program in Human Nutrition Sciences.

Member of the University Quality Assurance Group for Master's Degree program in Human Nutrition Sciences.

Member of the Credit Evaluation Committee for pre-enrollment educational activities in the Master Degree program in Human Nutrition Sciences.

Member of the Degree Examination Committee for Biomedical Laboratory Techniques.

Member of the Degree Examination Committee for Human Nutrition Sciences.

Scientific impact

Author **17 publications** (8 as first/co-first author, 2 as corresponding/co-corresponding author)

Total citations: 1438 (Scopus, October 2023)

h-index: 12 (Scopus, October 2023)

total IF: 185,9

average IF: 10,9

Attendance at congresses in the last 5 years

Sept 2023: **Invited Speaker:** “Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory Disorders”, Udine, Italy.

June 2023: **Poster**, Annual Meeting of the Society for Free Radical Research Europe, June 6-9, **2023**, Vienna (AT)

June 2022: **Poster**, VIII workshop on Nitric Oxide and Cancer. Special focus: Metabolism and Aging, Copenhagen (Denmark), 8-10 June, 2022

March 2022: **Selected Speaker**, Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory-related Diseases, Institute of Biomedicine of Seville March 3-5, 2022, Seville, Spain

May 2021: **Selected Speaker**, VII International Workshop on Nitric Oxide and Cancer: Special Focus on the Tumour Microenvironment, Galway, Ireland.

Dec 2020: **Poster**, Lassendagen, Bispebjerg og Frederiksberg Hospital, Copenhagen, Denmark

March 2020: **Selected Speaker**, Danish Society for Matrix Biology annual meeting, Copenhagen, Denmark

Dec 2019: **Selected elevator pitch**, Lassendagen, Bispebjerg og Frederiksberg Hospital, Copenhagen, Denmark

Nov 2019: **Selected elevator pitch**, Basic and Clinical Research in Musculo-Skeletal and Oral Sciences annual meeting, Snekkersten, Denmark

National Academic Qualification as Associate Professor

Academic Fields and Disciplines 05/F1 – Applied Biology (from 04/10/2022 to 04/10/2032)

Academic Fields and Disciplines 05/E1 - Biochemistry (from 04/10/2022 to 04/10/2032)

Certificate

Nov 2017: **Felasa ABD**, Laboratory animal science certificate, Faculty of Health and Medical Science, Copenhagen University, DK

Leave

Nov 2018 - Oct 2019: Maternity leave

Feb 2016 - Dec 2016: Maternity leave

List of publications:

- Rizza S., Di Leo L., Pecorari C., Giglio P., Faienza F, Montagna C, Maiani E., Puglia M, Bosisio F. M., Petersen T.S., Lin L., Rissler V, Salamanca Vilorio J., Luo Y., Papaleo E, De Zio D., Blagoev B., Filomeni G. GSNOR deficiency promotes tumor growth via FAK1 S-nitrosylation. **Cell Rep.** 2023 Jan 18;42(1):111997. **Sixth author (IF 9.995)**
- Montagna C, Svensson R, Bayer M, Rizza S, Yeung C-Y, Filomeni G, Kjaer M. Autophagy guards tendon homeostasis. **Cell Death Dis.** 2022 Apr 23;13(4):402. **First author and corresponding author (IF 9.685)**
- Montagna C and Filomeni G. Looking at denitrosylation to understand the myogenesis gone awry theory of rhabdomyosarcoma. **Nitric Oxide.** 2022 May 1;122-123:1-5.) **First and co-corresponding author (IF: 4,898)**
- Maiani E, Milletti G, Nazio F, Holdgaard SG, Bartkova J, Rizza S, Cianfanelli V, Lorente M, Simoneschi D, Di Marco M, D'Acunzo P, Di Leo L, Rasmussen R, Montagna C, Raciti M, De Stefanis C, Gabicagoeascoa E, Rona G, Salvador N, Pupo E, Merchut-Maya JM, Daniel CJ, Carinci M, Cesarini V, O'sullivan A, Jeong YT, Bordi M, Russo F, Campello S, Gallo A, Filomeni G, Lanzetti L, Sears RC, Hamerlik P, Bartolazzi A, Hynds RE, Pearce DR, Swanton C, Pagano M, Velasco G, Papaleo E, De Zio D, Maya-Mendoza A, Locatelli F, Bartek J, Cecconi F. (2021) AMBRA1 regulates cyclin D to guard S-phase entry and genomic integrity. **Nature.** 2021 Apr;592(7856):799-803. **Thirteen author (IF 69.504)**
- Klionsky DJ et al. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)1. **Autophagy.** 2021 Jan;17(1):1-382. **(IF 16.016)**
- Zhang C., Svensson R.B., Montagna C., Carstensen H., Buhl R., Schoof E.M., Kjaer M., S. Magnusson P., and Yeung C.Y.C. (2020) Comparison of Tenocyte Populations from the Core and Periphery of Equine Tendons. **J. Proteome Res.** August 2020 DOI: 10.1021/acs.jproteome.0c00591. **Third author (IF 5.370)**
- Montagna C, Cirotti C, Rizza S, Filomeni G. (2020) When S-nitrosylation gets to mitochondria: from signaling to age-related diseases. **Antioxid Redox Signal.** 2020 Apr 20;32(12):884-905. **First author (IF 7.468)**
- Montagna C, Rizza S, Cirotti C, Maiani E, Muscaritoli M, Musarò A, Carri MT, Ferraro E, Cecconi F, Filomeni G. (2019) nNOS/GSNOR interaction contributes to skeletal muscle differentiation and homeostasis. **Cell Death Dis.** 2019 May 1;10(5):354. **First author (IF 9.685)**
- Rizza S*, Cardaci S*, Montagna C*, Di Giacomo G., De Zio D., Bordi M., Maiani E., Campello S., Borreca A., Puca A.A., Stamler J.S., Cecconi F., Filomeni G. (2018) S-nitrosylation drives cell senescence and aging in mammals by controlling mitochondrial dynamics and mitophagy. **P.N.A.S.** 115(15):E3388-E3397. ***Shared first-author (IF 12.779)**

- Rizza S., Montagna C., Cardaci S., Maiani E., Di Giacomo G., Sanchez-Quiles V., Blagoev B., Rasola A., De Zio D., Ciriolo M.R., Stamler J.S., Cecconi F. and Filomeni G. (2016). TRAP1 S-nitrosylation due to GSNOR deficiency sensitizes hepatocellular carcinoma cells to SDH-targeting drugs. **Cancer Research**. 76(14):4170-82. **Second author (IF 12.701)**
- Montagna C., Rizza S., Maiani E., Piredda L., Filomeni G., Cecconi F. (2016). To eat, or NOT to eat: S-nitrosylation signaling in autophagy. **FEBS Journal**. 283(21):3857-386. **First author (IF 5.622)**
- Benassi B., Filomeni G., Montagna C., Merla C., Lopresto V., Pinto R., Marino C., Consales C. (2015) Extremely Low Frequency Magnetic Field (ELF-MF) exposure sensitizes SH-SY5Y cells to the pro-parkinson's disease toxin MPP. **Molecular Neurobiology**. 53(6):4247-4260. **Third author (IF 5.686)**
- Rizza S*, Cirotti C*, Montagna C., Cardaci S., Cozzolino M., Carri M.T., Cecconi F., Filomeni G. (2015). S-nitrosoglutathione reductase plays opposite roles in SH-SY5Y models of Parkinson's disease and amyotrophic lateral sclerosis. **Mediators of Inflammation**. 2015:536238. **Second author (IF 4.711)**
- Montagna C., Di Giacomo G., Rizza S., Cardaci S., Ferraro E., Grumati P., De Zio D., Maiani E., Muscoli C., Lauro F., Ilari S., Bernardini S., Cannata S., Gargioli C., Ciriolo MR., Cecconi F., Bonaldo P., Filomeni G. (2014) S-nitrosoglutathione reductase deficiency-induced S-nitrosylation results in neuromuscular dysfunction. **Antioxidants & Redox Signaling**. 21(4):570-87. **First author (IF 7.468) (selected as COVER)**
- Rizza S*, Montagna C*, Di Giacomo G., Cirotti C. and Filomeni G. (2014) S-nitrosation and ubiquitin-proteasome system interplay in neuromuscular disorders. **International Journal of Cell Biology**. 2014:428764. ***Shared first-author**
- Bernardoni P., Fazi B., Costanzi A., Nardacci R., Montagna C., Filomeni G., Ciriolo MR., Piacentini M., Di Sano F. (2013) Reticulon1-C modulates protein disulphide isomerase function. **Cell Death & Disease**. 4:e581. **Fifth author (IF 9.685)**
- Di Giacomo G., Rizza S., Montagna C., and Filomeni G. (2012) Established principles and emerging concepts on the interplay between mitochondrial physiology and S-(de)nitrosylation: Implications in cancer and neurodegeneration. **International Journal of Cell Biology**. 2012:361872. **Third author**

Rome,

02.10.2023

Estanzano Montagna