

INFORMAZIONI PERSONALI

Brigitta Buttari

 New Biomarkers and Clinical Epidemiology Unit
Department of Cardiovascular and Endocrine-metabolic Diseases, and Aging,
Istituto Superiore di Sanità (ISS), Rome, Italy



 [ORCID ID: 0000-0002-0575-4106](#)

| [Nazionalità](#) Italiana

SUMMARY

Senior Researcher at the ISS with a focus on cellular and molecular mechanisms involving reactive oxygen species, chronic inflammation, proteinopathy, and NRF2 in non-communicable diseases. Active in drug development from natural compounds for inflammatory diseases. Author of over 100 peer-reviewed scientific articles. H-index: 32. Full list available via ORCID.

Professional Experience

- (2024–Present) Senior Researcher, ISS, Rome
- (2002–2024) Researcher, ISS, Rome
- (2001–2002) Researcher, Istituto di Ricovero e Cura a Carattere Scientifico Istituti Fisioterapici Ospitalieri, Rome
- (2020–Present) Key roles in COST Actions, national and international research collaborations, teaching, ethics committee, and project planning.

Education

- OCTOBER 27, 2008 PhD in Medical Microbiology and Immunology; Università degli Studi di Roma “Tor Vergata”;
- DECEMBER 5, 2003 Postgraduate Specialization in Applied Biotechnology, Università degli Studi di Roma “La Sapienza”;
- MAY 27, 1999 Degree in Biological Sciences, Università degli Studi di Roma “La Sapienza”;
- JULY 1992 Bachelor degree, Liceo Scientifico Leonardo da Vinci, Sora (FR)

Research Projects

NATIONALLY FUNDED PROJECTS

ISS Funds; The CUORE Project; Sapienza Ateneo Funds, PNRR ISS, PNRR Sapienza.

INTERNATIONAL COLLABORATIONS

Italy-US agreements; MAE-MIUR-Italia-India Joint Research Projects; COST Action CA20121 BenBedPhar; COST ACTION CA21153 AtheroNET.

ONGOING PROJECTS 2024–2026

Identification of target genes and pathways involved in fibrotic MASH, Institute of Biomedicine, University of Barcelona, Spain.

Teaching and Academic Contributions

Invited Lectures **Corso di Alta Formazione in Ozonoterapia**, Sapienza University of Rome

- *Lecture 1*: “Il fattore di trascrizione nucleare NRF2 come regolatore chiave dei meccanismi molecolari alla base della citoprotezione cellulare e dell’adattamento allo stress ossidativo”, January 17, 2025
- *Lecture 2*: “Il ruolo protettivo dell’ozono attraverso NRF2 e la potenzialità terapeutica nella gestione dello stress ossidativo”, January 18, 2025

Teaching Activities

- **Master’s Program in “Stress, Sport and Nutrition”**
Department of Medical and Surgical Sciences and Biotechnology, Sapienza University of Rome
 - Lectures for the course “**Nutraceuticals and Supplements: An Introduction to Pharmacovigilance**” (SSD BIO/15):
 - Academic Year 2016/2024
- **Thesis Supervision**
 - Curricular internship for thesis for the student Mirta Mavilia, from March 1, 2025, to March 31, 2026. Corso di Laurea in Scienze Biologiche, curriculum Genetics and Molecular Biology /Genetica e Biologia Molecolare della Facoltà di Scienze Matematiche, Fisiche e Naturali presso la Sapienza Università di Roma.
 - Curricular internship for thesis for the student Benedetta di Veroli, from October 16, 2022 to December 16, 2023. Corso di Laurea in Scienze Biologiche, curriculum Biomolecolare della Facoltà di Scienze Matematiche, Fisiche e Naturali presso la Sapienza Università di Roma.
 - Supervisor of Dr. Zoe González Carnicero during her “PhD international stay 2022”, September 12-December 22, 2022, ISS, Rome Italy.
 - Supervisor of Dr. Sarmistha Saha, SERB–National Postdoctoral Fellow at the Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, India, within the European Molecular Biology Organization (EMBO) Short-Term Fellowship No. 8142. The fellowship was carried out at the Department of Cardiovascular, Endocrine-metabolic Diseases and Aging, ISS. Rome, August 26-September 30, 2019.
 - PhD supervisor of Dr. Elif Inci Ozturk from Hacettepe University (Ankara, Turkey) during her ERASMUS EXCHANGE. Recipient of the ImmunoTools PhD Award 2013.

- PhD co-supervisor for Dr. Elisa Maggi, enrolled in the PhD program in Experimental Medicine, XXXV cycle, at the Department of Medical and Surgical Sciences and Biotechnology, Sapienza University of Rome (Polo Pontino).
- Thesis advisor for student Elisa Carpico for the thesis project titled: "Role of IL-23 in the progression of carotid atherosclerosis. Academic Year 2017/2018, Faculty of Medicine and Surgery, Polo Pontino, "E" section, Sapienza University of Rome, July 2018.
- Thesis advisor for Dr. Luca Segoni for the thesis project titled: "Pro-inflammatory effect of 7-ketocholesterol on human macrophages polarized in vitro: potential therapeutic target in atherosclerosis. Master's Degree in Biology Applied to Biomedical Research, Sapienza University of Rome, July 2013.
- Thesis advisor for student Luca Segoni for the thesis project titled: "Evaluation of the ability of oxysterols to activate and polarize human macrophages in vitro: possible role in the pathogenesis of atherosclerosis. Bachelor's Degree in Biological Sciences, Sapienza University of Rome, July 2011.

Laboratory Training Activity

*Istituto Superiore di
Sanità, Rome*

- 2022** Supervision and laboratory training for student Elena Monaco, Bachelor's Degree in Pharmaceutical Biotechnology, Sapienza University of Rome. Training focused on acquiring technical-scientific skills in the pharmacological-biological field (3 CFU).
- 2018-2019** Laboratory training for students enrolled in the Degree Program in Pharmaceutical Chemistry and Technology (CTF), Sapienza University of Rome. Activities included preparation and characterization of cell cultures (Course instructor: Prof. L. Saso; 6 hours).
- 2017-2018** Laboratory training for students enrolled in the Degree Program in Pharmaceutical Chemistry and Technology (CTF), Sapienza University of Rome. Activities included preparation and characterization of cell cultures (Course instructor: Prof. L. Saso; 6 hours).
- 2013-2014** ERASMUS Exchange student: Amy Pearce

2012-2013 ERASMUS Exchange PhD student: Elif Inci Ozturk

Ethics committee

2025 Scientific expert on the ISS Commission Board for providing opinions on the admissibility of animal experimentation, based on technical and scientific evaluations in accordance with Article 31, paragraph 3, of Legislative Decree 26/2014, implementing Directive 2010/63/EU.

Professional Memberships

2005–Present Founding Member, Italian Study Group of Biomaterials in Surgery

2009–2010 Member, Italian Society of Biochemistry and Molecular Biology

1999–2015 Member, Italian Society of Immunology, Clinical Immunology and Allergology (1999–2015)

2009–2010 Member, European Federation of Immunological Societies

2005 Member, The Ruggero Ceppellini Advanced School of Immunology

2009–2010 Member, Federation of European Biochemical Societies

2008–2009 Member, European Atherosclerosis Society (EAS)

1999–2004 Member, Italian Group of Cytometry

Publications

Author of over 100 peer-reviewed scientific articles. H-index: 32. Full list available via ORCID

- Buttari B, Recalchi S, Riitano G, Capozzi A, Ucci FM, Manganelli V, Fratini F, Profumo E, Garofalo T, Alessandri C, Misasi R, Conti F, Longo A, Sorice M. Extracellular microvesicles from patients with Rheumatoid arthritis promote dendritic cell activation in vitro. *Front Immunol.* 2025 Mar 5;16:1532114. doi: 10.3389/fimmu.2025.1532114. PMID: 40109338; PMCID: PMC11920144.
- Buttari B, Tramutola A, Rojo AI, Chondrogianni N, Saha S, Berry A, Giona L, Miranda JP, Profumo E, Davinelli S, Daiber A, Cuadrado A, Di Domenico F. Proteostasis Decline and Redox Imbalance in Age-Related Diseases: The Therapeutic Potential of NRF2. *Biomolecules.* 2025 Jan 13;15(1):113. doi: 10.3390/biom15010113. PMID: 39858508; PMCID: PMC11764413.
- Rojo AI, Buttari B, Cadenas S, Carlos AR, Cuadrado A, Falcão AS, López MG, Georgiev MI, Grochot-Przeczek A, Gumeni S, Jiménez-Villegas J, Horbanczuk JO, Konu O, Lastres-Becker I, Levonen AL, Maksimova V, Michaeloudes C, Mihaylova LV, Mickael ME, Milisav I, Miova B, Rada P, Santos M, Seabra MC, Strac DS, Tenreiro S, Trougakos IP, Dinkova-Kostova AT. Corrigendum to "Model organisms for investigating the functional involvement of NRF2 in non-communicable diseases" [*Redox Biol.* 79 (2025) 103464]. *Redox Biol.* 2025 Mar;80:103496. doi: 10.1016/j.redox.2025.103496. Epub 2025 Jan 19. Erratum for: *Redox Biol.* 2025 Feb;79:103464. doi: 10.1016/j.redox.2024.103464. PMID: 39833011; PMCID: PMC11889366.
- Rojo AI, Buttari B, Cadenas S, Carlos AR, Cuadrado A, Falcão AS, López MG, Georgiev MI, Grochot-Przeczek A, Gumeni S, Jiménez-Villegas J, Horbanczuk JO, Konu O, Lastres-Becker I, Levonen AL, Maksimova V, Michaeloudes C, Mihaylova LV, Mickael ME, Milisav I, Miova B, Rada P, Santos M, Seabra MC, Strac DS, Tenreiro S, Trougakos IP, Dinkova-Kostova AT. Model organisms for investigating the functional involvement of NRF2 in non-communicable diseases. *Redox Biol.* 2025 Feb;79:103464. doi:

Il presente curriculum vitae, è redatto ai fini della pubblicazione nella Sezione "Amministrazione trasparente" del sito web istituzionale dell'Ateneo al fine di garantire il rispetto della vigente normativa in materia di tutela dei dati. Il C.V. in versione integrale è conservato presso gli Uffici della Struttura che ha conferito l'incarico. Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

- 10.1016/j.redox.2024.103464. Epub 2024 Dec 16. Erratum in: Redox Biol. 2025 Mar;80:103496. doi: 10.1016/j.redox.2025.103496. PMID: 39709790; PMCID: PMC11733061.
5. Saha S, Buttari B, Saso L. Editorial: Modulation of oxidative stress and inflammation via the NRF2 signaling pathway. Front Pharmacol. 2024 Sep 17;15:1483289. doi: 10.3389/fphar.2024.1483289. PMID: 39359243; PMCID: PMC11445792.
6. Di Veroli B, Bentanachs R, Roglans N, Alegret M, Giona L, Profumo E, Berry A, Saso L, Laguna JC, Buttari B. Sex Differences Affect the NRF2 Signaling Pathway in the Early Phase of Liver Steatosis: A High-Fat-Diet-Fed Rat Model Supplemented with Liquid Fructose. Cells. 2024 Jul 24;13(15):1247. doi: 10.3390/cells13151247. PMID: 39120278; PMCID: PMC11312139.
7. Maccari, S.; Profumo, E.; Saso, L.; Marano, G.; Buttari, B. Propranolol Promotes Monocyte-to-Macrophage Differentiation and Enhances Macrophage Anti-Inflammatory and Antioxidant Activities by NRF2 Activation. Int. J. Mol. Sci. 2024, 25, 3683. <https://doi.org/10.3390/ijms25073683>.
8. Culletta G, Buttari B, Arese M, Brogi S, Almerico AM, Saso L, Tutone M. Natural products as non-covalent and covalent modulators of the KEAP1/NRF2 pathway exerting antioxidant effects. Eur J Med Chem. 2024 Apr 15;270:116355. doi: 10.1016/j.ejmech.2024.116355. Epub 2024 Mar 26. PMID: 38555855.
9. Yaylim İ, Aru M, Farooqi AA, Hakan MT, Buttari B, Arese M, Saso L. Regulation of Nrf2/Keap1 signaling pathway in cancer drug resistance by galectin-1: cellular and molecular implications. Cancer Drug Resist. 2024 Feb 29;7:8. doi: 10.20517/cdr.2023.79. PMID: 38434765; PMCID: PMC10905161.
10. Egbujor MC, Tucci P, Buttari B, Nwobodo DC, Marini P, Saso L. Phenothiazines: Nrf2 activation and antioxidant effects. J Biochem Mol Toxicol. 2024 Mar;38(3):e23661. doi: 10.1002/jbt.23661. PMID: 38369721.
11. Donfrancesco, C.; Buttari, B.; Marcozzi, B.; Sieri, S.; Di Lonardo, A.; Lo Noce, C.; Profumo, E.; Vespasiano, F.; Agnoli, C.; Vannucchi, S.; et al. Nutrition, Physical Activity and Smoking Habit in the Italian General Adult Population: CUORE Project Health Examination Survey 2018–2019. Healthcare 2024, 12, 475. <https://doi.org/10.3390/healthcare12040475>.
12. Ates, I.; Yilmaz, A.D.; Buttari, B.; Arese, M.; Saso, L.; Suzen, S. A Review of the Potential of Nuclear Factor [Erythroid-Derived 2]-like 2 Activation in Autoimmune Diseases. Brain Sci. 2023, 13, 1532. <https://doi.org/10.3390/brainsci13111532>.
13. Sorice M, Profumo E, Capozzi A, Recalchi S, Riitano G, Di Veroli B, Saso L, Buttari B. Oxidative Stress as a Regulatory Checkpoint in the Production of Antiphospholipid Autoantibodies: The Protective Role of NRF2 Pathway. Biomolecules. 2023 Aug 5;13(8):1221. doi: 10.3390/biom13081221. PMID: 37627286; PMCID: PMC10452087.
14. Saha S, Buttari B, Profumo E. Macrotyloma uniflorum extract counteracts oxidative imbalance induced in vitro by sodium oxalate in the rat kidney: In silico prediction of quercetin and kaempferol superiority among fitocomponents. Journal of Biological Regulators and Homeostatic Agents. 07.2023;37(7):3929-3940. doi: 10.23812/j.biol.regul.homeost.agents.20233707.388.
15. Leseva MN, Buttari B, Saso L, Dimitrova PA. Infection Meets Inflammation: N6-Methyladenosine, an Internal Messenger RNA Modification as a Tool for Pharmacological Regulation of Host-Pathogen Interactions. Biomolecules. 2023 Jun 29;13(7):1060. doi: 10.3390/biom13071060. PMID: 37509095; PMCID: PMC10377384.
16. Profumo E, Buttari B, Tosti ME, Salvati B, Capoano R, Riganò R. Increased circulating levels of MIP-1α and CD14 are associated with the presence of severe stenosis and hypoechoic plaques in patients with carotid atherosclerosis. Int J Immunopathol Pharmacol. 2023 Jan-Dec;37:3946320231160411. doi: 10.1177/03946320231160411. PMID: 37478026; PMCID: PMC10363894.
17. Gjorgieva Ackova D, Maksimova V, Smilkov K, Buttari B, Arese M, Saso L. Alkaloids as Natural NRF2 Inhibitors: Chemoprevention and Cytotoxic Action in Cancer. Pharmaceuticals (Basel). 2023 Jun 7;16(6):850. doi: 10.3390/ph16060850. PMID: 37375797; PMCID: PMC10300961.
18. Asaro RJ, Profumo E, Buttari B, Cabrales P. The Double-Edged Sword of Erythrocytes in Health and Disease via Their Adhesiveness. Int J Mol Sci. 2023 Jun 20;24(12):10382. doi: 10.3390/ijms241210382. PMID: 37373527; PMCID: PMC10299353.
19. Buttari B, Arese M, Oberley-Deegan RE, Saso L, Chatterjee A. NRF2: A crucial regulator for mitochondrial metabolic shift and prostate cancer progression. Front Physiol. 2022 Sep 23;13:989793. doi: 10.3389/fphys.2022.989793. PMID: 36213236; PMCID: PMC9540504.
20. Trends of blood pressure, raised blood pressure, hypertension and its control among Italian adults: CUORE Project cross-sectional health examination surveys 1998/2008/2018. BMJ

- open, 2022-11-14 | Journal article DOI: 10.1136/bmjopen-2022-064270 PMID: 36375969, PMC: PMC9664280 CONTRIBUTORS: chiara donfrancesco; Di Lonardo A; Lo Noce C; Buttari B; Profumo E; Francesca Vespasiano; Vannucchi S; Galletti F; Onder G; Gulizia MM et al.
21. Neuropeptide Y Promotes Human M2 Macrophage Polarization and Enhances p62/SQSTM1-Dependent Autophagy and NRF2 Activation. International Journal of Molecular Sciences. 2022-10-27, Journal article, DOI: 10.3390/ijms232113009, CONTRIBUTORS: Elisabetta Profumo; Elisa Maggi; Marzia Arese; Claudio Di Cristofano; Bruno Salvati; Luciano Saso; Rita Businaro; Brigitta Buttari
 22. Nitro-Oxidative Stress and Mitochondrial Dysfunction in Human Cell Lines Exposed to the Environmental Contaminants PFOA and BPA. Frontiers in bioscience (Landmark edition), 2022-10-01 | Journal article, DOI: 10.31083/j.fbi2710292, PMID: 36336871. CONTRIBUTORS: Magnifico MC; Khani M; Sprovera B; Buttari B; Abballe G; Desideri F; Panieri E; luciano saso; Marzia ARESE
 23. An Overview of NRF2-Activating Compounds Bearing α,β -Unsaturated Moiety and Their Antioxidant Effects. International Journal of Molecular Sciences, 2022-07-30 | Journal article, DOI: 10.3390/ijms23158466. CONTRIBUTORS: Melford Chuka Egbujor; Brigitta Buttari; Elisabetta Profumo; Pelin Telkoparan-Akillilar; Luciano Saso
 24. Ribosomopathies and cancer: pharmacological implications. Expert Review of Clinical Pharmacology. 2022-06-03 | Journal article. DOI: 10.1080/17512433.2022.2098110. CONTRIBUTORS: Gazmend Temaj; Sarmistha Saha; Shpend Dragusha; Valon Ejupi; Brigitta Buttari; Elisabetta Profumo; Lule Beqa; Luciano Saso
 25. A Pivotal Role of Nrf2 in Neurodegenerative Disorders: A New Way for Therapeutic Strategies. Pharmaceuticals. 2022-05-31 | Journal article. DOI: 10.3390/ph15060692. CONTRIBUTORS: Sibel Suzen; Paolo Tucci; Elisabetta Profumo; Brigitta Buttari; Luciano Saso
 26. Antioxidant Cardioprotection against Reperfusion Injury: Potential Therapeutic Roles of Resveratrol and Quercetin. Molecules. 2022-04-15 | Journal article. DOI: 10.3390/molecules27082564. CONTRIBUTORS: Ramón Rodrigo; Catalina Retamal; Denisse Schupper; Diego Vergara-Hernández; Sarmistha Saha; Elisabetta Profumo; Brigitta Buttari; Luciano Saso
 27. Trends of overweight, obesity and anthropometric measurements among the adult population in Italy: The CUORE Project health examination surveys 1998, 2008, and 2018. PLOS ONE 2022-03-01, DOI: 10.1371/journal.pone.0264778. CONTRIBUTORS: Chiara Donfrancesco; Martha Asuncion Sánchez-Rodríguez; Elisabetta Profumo; Cinzia Lo Noce; Daniela Minutoli; Anna Di Lonardo; Brigitta Buttari; Francesca Vespasiano; Serena Vannucchi; Ferruccio Galletti et al.
 28. Oxidative Stress and Cancer Heterogeneity Orchestrate NRF2 Roles Relevant for Therapy Response. Molecules. 2022-02-22, DOI: 10.3390/molecules27051468. CONTRIBUTORS: Korajlika Gall Trošelj; Marko Tomljanović; Morana Jaganjac; Tanja Matijević Glavan; Ana Čipak Gašparović; Lidija Milković; Suzana Borović Šunjić; Brigitta Buttari; Elisabetta Profumo; Sarmistha Saha et al.
 29. Sex Hormone-Binding Globulin and Its Association to Cardiovascular Risk Factors in an Italian Adult Population Cohort. Reports. 2022-02-14 | Journal article. DOI: 10.3390/reports5010005. CONTRIBUTORS: Brigitta Buttari; Rachele Riganò; Luigi Palmieri; Cinzia Lo Noce; Stefan Blankenberg; Tanja Zeller; Serena Vannucchi; Anna Di Lonardo; Marco Gabbianelli; Chiara Donfrancesco
 30. Hemorheological profiles and chronic inflammation markers in transfusion-dependent and non-transfusion-dependent thalassemia. Frontiers in molecular biosciences. 2022-01-01 | Journal article. DOI: 10.3389/fmolb.2022.1108896. PMID: 36699704. PMC: PMC9868635. CONTRIBUTORS: Caprari P; Profumo E; Massimi S; Buttari B; Riganò R; Regine V; Gabbianelli M; Rossi S; Risoluti R; Materazzi S et al.
 31. Oxidative Stress in Mucopolysaccharidoses: Pharmacological Implications. Molecules. 2021-09-16 | Journal article. DOI: 10.3390/molecules26185616. CONTRIBUTORS: Karolina Pierzynowska; Lidia Gaffke; Zuzanna Cyske; Grzegorz Węgrzyn; Brigitta Buttari; Elisabetta Profumo; Luciano Saso
 32. The Nrf2 Pathway in Ischemic Stroke: A Review. Molecules. 2021-08-18 | Journal article. DOI: 10.3390/molecules26165001. CONTRIBUTORS: Marcelo Farina; Leonardo Eugênio Vieira; Brigitta Buttari; Elisabetta Profumo; Luciano Saso
 33. Pharmacological Protection against Ischemia-Reperfusion Injury by Regulating the Nrf2-Keap1-ARE Signaling Pathway. Antioxidants. 2021-05-21 | Journal article. DOI: 10.3390/antiox10060823. CONTRIBUTORS: Bercis Imge Ucar; Gulberk Ucar; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso

Il presente curriculum vitae, è redatto ai fini della pubblicazione nella Sezione "Amministrazione trasparente" del sito web istituzionale dell'Ateneo al fine di garantire il rispetto della vigente normativa in materia di tutela dei dati. Il C.V. in versione integrale è conservato presso gli Uffici della Struttura che ha conferito l'incarico. Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

34. Regulatory Role of Nrf2 Signaling Pathway in Wound Healing Process. *Molecules*. 2021-04-21 | Journal article. DOI: 10.3390/molecules26092424. CONTRIBUTORS: Ipek Süntar; Sümeyra Çetinkaya; Emiliano Panieri; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso
35. Activation of Nrf2 signaling pathway by natural and synthetic chalcones: a therapeutic road map for oxidative stress. *Expert Review of Clinical Pharmacology*. 2021-04-03 | Journal article. DOI: 10.1080/17512433.2021.1901578. CONTRIBUTORS: Melford Chuka Egbujor; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso
36. Trend in potassium intake and Na/K ratio in the Italian adult population between the 2008 and 2018 CUORE project surveys. *Nutrition, Metabolism and Cardiovascular Diseases*. 2021-03 | Journal article. DOI: 10.1016/j.numecd.2020.11.015. CONTRIBUTORS: Chiara Donfrancesco; Cinzia Lo Noce; Ornella Russo; Brigitta Buttari; Elisabetta Profumo; Daniela Minutoli; Anna Di Lonardo; Roberto Iacone; Francesca Vespasiano; Serena Vannucchi et al.
37. Trend of salt intake measured by 24-h urine collection in the Italian adult population between the 2008 and 2018 CUORE project surveys. *Nutrition, Metabolism and Cardiovascular Diseases*. 2021-03 | Journal article. DOI: 10.1016/j.numecd.2020.10.017. CONTRIBUTORS: Chiara Donfrancesco; Cinzia Lo Noce; Ornella Russo; Daniela Minutoli; Anna Di Lonardo; Elisabetta Profumo; Brigitta Buttari; Roberto Iacone; Francesca Vespasiano; Serena Vannucchi et al.
38. An Overview of Nrf2 Signaling Pathway and Its Role in Inflammation. *Molecules*. 2020-11-23 | Journal article. DOI: 10.3390/molecules25225474. CONTRIBUTORS: Sarmistha Saha; Brigitta Buttari; Emiliano Panieri; Elisabetta Profumo; Luciano Saso
39. Lupeol Counteracts the Proinflammatory Signalling Triggered in Macrophages by 7-Keto-Cholesterol: New Perspectives in the Therapy of Atherosclerosis. *Oxidative Medicine and Cellular Longevity*. 2020-09-27 | Journal article. DOI: 10.1155/2020/1232816. CONTRIBUTORS: Sarmistha Saha; Elisabetta Profumo; Anna Rita Togna; Rachele Riganò; Luciano Saso; Brigitta Buttari
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42. The Nutraceutical Dehydrozingerone and Its Dimer Counteract Inflammation- and Oxidative Stress-Induced Dysfunction of In Vitro Cultured Human Endothelial Cells: A Novel Perspective for the Prevention and Therapy of Atherosclerosis. *Oxidative Medicine and Cellular Longevity*. 2016 | Journal article. DOI: 10.1155/2016/1246485. CONTRIBUTORS: Elisabetta Profumo; Brigitta Buttari; Daniela D'Arcangelo; Lavinia Tinaburri; Maria Antonietta Dettori; Davide Fabbri; Giovanna Delogu; Rachele Riganò
43. Crosstalk between red blood cells and the immune system and its impact on atherosclerosis. 2015 | Journal article. DOI: 10.1155/2015/616834. PMID: 25722984. PMC: PMC4334626. CONTRIBUTORS: Buttari B; Profumo E; Riganò R
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45. Pleiotropic Effects of Statins in Atherosclerotic Disease: Focus on the Antioxidant Activity of Atorvastatin. *CTMC*. 2014 | Journal article. DOI: 10.2174/1568026614666141203130324. CONTRIBUTORS: Elisabetta Profumo; Brigitta Buttari; Luciano Saso; Rachele Riganò
46. Resveratrol counteracts inflammation in human M1 and M2 macrophages upon challenge with 7-oxo-cholesterol: potential therapeutic implications in atherosclerosis. 2014 | Journal article. DOI: 10.1155/2014/257543. PMID: 24895526. PMC: PMC4034709. CONTRIBUTORS: Buttari B; Profumo E; Segoni L; D'Arcangelo D; Rossi S; Facchiano F; Saso L; Businaro R; Iuliano L; Riganò R
47. Neuropeptide Y induces potent migration of human immature dendritic cells and promotes a Th2 polarization. 2014-07 | Journal article. DOI: 10.1096/fj.13-243485. PMID: 24699455. CONTRIBUTORS: Buttari B; Profumo E; Domenici G; Tagliani A; Ippoliti F; Bonini S; Businaro R; Elenkov I; Riganò R
48. Subclinical atherosclerosis in systemic lupus erythematosus and antiphospholipid syndrome:

- focus on β 2GPI-specific T cell response.2014-03 | Journal article. DOI: 10.1161/ATVBAHA.113.302680. PMID: 24436371. CONTRIBUTORS: Conti F; Spinelli FR; Alessandri C; Pacelli M; Ceccarelli F; Marocchi E; Montali A; Capozzi A; Buttari B; Profumo E et al.
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Chapters of books

- 2023 Saso L, Chakrabarti SS, Bala S, Saha S, Profumo E, **Buttari B**, Chakrabarti S. *Role of Oxidative Stress in the Pathogenesis of Metabolic Syndrome*. In: Mukhopadhyay S, Mondal S (eds.), **Metabolic Syndrome: From Mechanisms to Interventions**, Academic Press, 2023. ISBN: 9780323856584
- 2014 Profumo E, Ludovisi A, **Buttari B**, Gomez Morales MA, Riganò R. *Parasite-Mediated Immune Modulation During the Development of Human Cystic Echinococcosis*. In: **Immune Response to Parasitic Infections, Vol. 2: Immunity to Helminths and Novel Therapeutic Approaches**, Bentham Science Publishers, 2014, pp. 69–91. DOI: 10.2174/9781608059850114020007
- 2008 Profumo E, **Buttari B**, Tosti ME, Scrivo R, Spadaro A, Tesori C, Di Franco M, Riganò R. *Subclinical Atherosclerosis in Patients with Rheumatoid and Psoriatic Arthritis*. In: Vogel FL, Zimmermann LF (eds.), **Autoimmunity: Role, Regulation and Disorders**, Nova Science Publishers, 2008. ISBN: 978-1-60456-833-2

Science Communication & Editorial Contributions

- 2023-2024 Contributor to BenBedPhar COST Action CA20121 Newsletters (2023–2024). Published scientific commentaries highlighting recent findings on NRF2-related mechanisms:

- Propranolol Promotes Monocyte-to-Macrophage Differentiation and Enhances Macrophage Anti-Inflammatory and Antioxidant Activities by NRF2 Activation– April 2024;
 - The Protective Role of NRF2 Pathway in the Antiphospholipid Antibody Syndrome– October 2023
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- 2020 Nrf2 Signaling Pathway – Scholarly Community Encyclopedia (2020), <https://encyclopedia.pub/4279> | Co-authors: Saha S, Panieri E, Profumo E, Saso L
- 2014-2025 Contributing Author on BrainImmune.com – Scientific Commentaries:
- Extracellular Microvesicles from Rheumatoid Arthritis Patients Trigger Dendritic Cell Activation- March 18, 2025
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 - β 2-Adrenergic Receptor Activation Promotes M2 Polarization of Gut Macrophages: How the Brain–Gut Axis Maintains Tissue Homeostasis– Oct 2016
 - New Evidence that Peripheral Nerves Sense Infection and Drive IL-23 Production by Skin Dendritic Cells– Oct 2015
 - A Hierarchical Cytokines Framework defining groups of Chronic Inflammatory Diseases: learning from cytokine-targeted therapies– Jun 2014

Editorial activities

GUEST ASSOCIATE EDITOR

- Environmental Nanotechnology;
- Inflammation Pharmacology (Frontiers)
- Environmental Nanotechnology (Frontiers)

GUEST EDITOR 2016-2023

- A special issue of Journal of Biological Regulators and Homeostatic Agents entitled: “Modulation of Oxidative Stress as a Pharmacological Strategy”, 2023
- A special issue of Oxidative Medicine and Cellular Longevity entitled: “Antioxidant and Immunomodulatory Compounds in Cardiovascular Repair”, 2016

REVIEW EDITOR 2005-PRESENT

- Inflammation Pharmacology (Frontiers)
- Cellular signalling;
- Ecotoxicology and environmental safety;
- Life sciences;
- Molecular immunology;
- Journal of Immunology;
- PlosOne;
- Oxidative Medicine and Cellular Longevity;
- Blood;
- Antioxidants;
- Cells;
- Biomolecules;
- Lifes

Awards and Fellowships

- 2017 *EAS Travel Grant*, to attend the European Atherosclerosis Society Congress (EAS 2017), Prague, Czech Republic, April 23–26
- 2016 *Top Candidate for the MAI Award*, selected for “*Pearls in Autoimmunity*” session at the 10th International Congress on Autoimmunity (Autoimmunity 2016), Leipzig, Germany
- 2015 ImmunoTools Special Award, for innovative research in immunology

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- 2009 FEBS Travel Grant, to attend the IUBMB Advanced Course “Mechanisms and Consequences of Free Radical-Mediated Oxidative Protein Modifications”, Antalya, Turkey
- 2007 EMBO Conference Young Researcher Travel Grant, co-sponsored by the European Network of Immunology Institutes (ENII) and SIICA; Capo Caccia, Italy
- 2006 Travel Grant, 5th International Congress on Autoimmunity, Sorrento, Italy
- 2005 Travel Grant, 4th SIICA National Conference, Brescia, Italy
- 2005 ERAB Young Investigators Award, European Society for Biomedical Research on Alcoholism (ESBRA), Canterbury, UK. Awarded for the project: “Ethanol impairs the maturation and function of monocyte-derived dendritic cells obtained from alcoholics and healthy subjects”
- 2004 International Fellowship, IX European Multicolloquium of Parasitology (EMOP 9), Valencia, Spain. Project: “Maturation of dendritic cell 2 phenotype by Echinococcus granulosus antigens”
- 2000 Travel Grant, Immunobiology of Infectious Diseases Workshop, SIICA, Massa Marittima, Italy

Mother tongue Italian

Other language(s)	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
English	C1	C1	B2	B2	C1
Sostituire con il nome del certificato di lingua acquisito. Inserire il livello, se conosciuto					
French	A1/A2	A1/A2	A1	A1	A1
Sostituire con il nome del certificato di lingua acquisito. Inserire il livello, se conosciuto					

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
[Quadro Comune Europeo di Riferimento delle Lingue](#)

Communication skills ▪ Good communication skills developed as researcher, tutor and speaker within the framework of specific projects

Organisational / managerial skills ▪ Good leadership (responsible for undergraduate and PhD students) and good organisational/managerial skills developed within the framework of specific projects.

Job-related skills ▪ Good experience in molecular and cellular biology basic and clinical research in immunological and cardiovascular field.

Dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".