

Personal identification **Brigitta Buttari**

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Email address brigitta.buttari@iss.it (Professional)

Ordine Nazionale dei Biologi, Elenco Speciale sez. A. Numero iscrizione 018247

AFFILIATION

New Biomarkers and Clinical Epidemiology Unit  
Dept. of Cardiovascular and Endocrine-metabolic Diseases, and  
Aging  
Italian National Institute of Health, Rome, Italy

Professional

2008/09/02 – Current **Researcher**

Participant in the project planning, research activity, data sharing, meeting organization and training activity of the following research projects:

- Membro italiano del Management Committee della BenBedPhar COST Action CA20121 "Bench to bedside transition for pharmacological regulation of NRF2 in noncommunicable diseases". Chair Prof Antonio Cuadraro, Autonomous University of Madrid. La sottoscritta è leader del gruppo di lavoro sulla disseminazione dei dati (WG5) dal 1 ottobre 2021.
- Principal investigator per la proposta progettuale dal titolo "Anti-inflammatory activity of Lupeol and Lupeol loaded nanoparticles to counteract 7-Ketocholesterol-induced oxiaoptophagy in human macrophages: potential therapeutic implications in Atherosclerosis".
- Partecipazione al CRP-ICGEB Research Grant Programme 2021 come collaboratore con la proposta progettuale dal titolo: "New coumarin-modified graphene quantum dots for cancer-targeted drug delivery".
- The CUORE Project: start of the third survey on the general adult population, 2018-2019.
- The CUORE Project population biobank for epidemiological research in Italy, 2008-2019.
- Progetto BEES (BE a citizEn Scientist) – Notte Europea dei Ricercatori Progetto europeo n. MSCA-NIGHT-2018/2019-European Researchers' Night, Istituto Superiore di Sanità, 28 September 2018.
- Miglioramento della valutazione del rischio cardiovascolare: valutazione di biomarcatori determinati nelle coorti afferenti alla biobanca di popolazione dell'Iss dal consorzio europeo BiomarCaRE.: "Sex- and age-specific profile of sex hormone-binding globulin and its association to cardiovascular risk factors in the MATISS cohort from MORGAM and BiomarCaRE international studies 2019-2021. Italian Ministry of Health 2017-2018. Responsabile Dott.ssa S. Giampaoli
- Miglioramento della valutazione del rischio cardiovascolare: valutazione di biomarcatori nelle coorti afferenti alla biobanca di popolazione dell'Iss: "Valutazione dell'associazione tra un pannello di marcatori immunologici ed infiammatori ed eventi cardiovascolari mediante saggio immunoenzimatico multiplexed". Italian Ministry of Health 2018-2019. Responsabile Dott. M. Gabbianelli.
- "Oestrogen receptor gene modulator microRNA-152 gene as possible new marker of high-risk plaques eligible for endarterectomy in patients with carotid atherosclerosis". Ateneo 2019. Responsabile Prof. R. Capoano, Sapienza Università di Roma.
- Serum sex hormones as markers of high-risk plaques eligible for endarterectomy in patients with carotid atherosclerosis: gender differences. Ateneo Fund - Sapienza University of Rome, 2018.
- Blood inflammatory and immunological factors in patients with carotid atherosclerosis: potential new circulating biomarkers associated to the presence of high risk plaques eligible for endarterectomy. Ateneo Fund - Sapienza University of Rome, 2017.
- Carotid atherosclerosis: a multi-parametric approach to identify circulating biomarkers indicating patients with vulnerable plaques eligible for endarterectomy. Ateneo Fund - Sapienza University of Rome, 2016.
- Evaluation of the polyphenolic substance ability to induce autophagy in human macrophages exposed to advanced glycation end products. Ateneo Fund - Sapienza University of Rome, 2016.
- Role of Neuropeptide Y as regulator of macrophage phenotype and functions: a neuroimmune cue in atherosclerosis regression? Immunotools Award 2015.
- Carotid endarterectomy: a multi-parametric approach to identify immunological and inflammatory markers indicating patients at high risk of clinical events. Ateneo Fund - Sapienza University of Rome, 2015.
- Evaluation and pharmacological modulation of the oxidative stress mechanisms involved in different pathological conditions. Ateneo Fund - Sapienza University of Rome, 2015.
- Biomonitoring and toxicity studies of the pollutants in territory of Taranto (South Italy). Italian Ministry of Health, CCM 2013.
- "New therapeutic approaches in the human beta-thalassemia treatment: in vitro and in vivo studies." Rare diseases, Italian Ministry of Health, 2009-present.
- Evaluation of oxidative stress in various pathological conditions and study of possible antioxidant agents. Ateneo Funds - Sapienza University of Rome, 2008-present.
- Study of immunity and infections in immunocompromised hosts for lifestyle: experimental and therapeutic implications evidence. Italy-US agreements, 2009-2011.
- Development of new antioxidant drugs. MAE-MIUR-Italia-India Joint Research Projects, 2007, 2008, 2009, 2010.
- Animal research protocol entitled "Anti-inflammatory properties of pamaparin in the prevention of atherosclerosis". Research Agreement between Sapienza University of Rome and the company ALFA WASSERMAN, 2008-2010.
- Study of autoimmune pathogenetic mechanisms in atherosclerosis and in systemic lupus erythematosus. Italian Ministry of Health, 2006-2009.

### Temporary Staff Researcher

Participant in the project planning, research activity, data sharing, meeting organization and training activity of the following research projects:

Italian National Institute of Health, Rome, Italy

- Marie Curie International Reintegration grant (I.J.E.) within the 6th European Community Framework Program.
- Study of chronic infections and molecular mimicry in autoimmune processes involved in atherosclerosis: new therapeutic strategies. Italian Ministry of Health, 2005-2008.
- Study of the role of toll-like receptors in the maturation of human dendritic cells induced by b2-glycoprotein I and development of in vitro immunomodulatory approaches on dendritic cells for the prevention and treatment of atherosclerosis. Italian Ministry of Health, 2005-2008.
- Study of the role of advanced glycation end products (AGEs) in the autoimmune mechanisms in atherosclerosis associated with diabetes mellitus, especially with regard to women's health in post-menopausal age. Italian Ministry of Health, 2005-2008.
- Molecular mimicry and chronic infections implicated in autoimmune processes of atherosclerosis: new therapeutic strategies. Operative unit within the project "Strategies to use probiotic bacteria, bacterial and parasitic products for the treatment of autoimmune and allergic diseases. Italian Ministry of Health 2005.

### Temporary Staff Researcher

Istituto di Ricovero e Cura a Carattere Scientifico Istituti Fisioterapici Ospitalieri, Rome, Italy. Struttura Complessa Dermatologia Infiammatoria ed Allergologica del Polo Dermatologico San Gallicano

Participant in the research activity, data sharing of the project: "Dermatite da contatto da nichel"  
Responsabile scientifico Dr. B. Santucci 30/6/01 – 30/4/02.

2017-2022

### Lectures in Pharmacovigilance of Nutraceutical Products.

Master's Degree in "Stress, Sport and Nutrition" Sapienza University of Rome.

- Attività di docenza nell'ambito SSD BIO/15 del Master di II livello in "Stress, sport, nutrizione: nuovi approcci diagnostici e terapeutici per wellness, fitness, prevenzione e riabilitazione" organizzato dal Dipartimento di Scienze e Biotecnologie Medico chirurgiche Università degli studi di Roma Sapienza. L'attività didattica ha come oggetto la presentazione di una revisione della letteratura scientifica sull'uso dei principali prodotti nutraceutici e funzionali, loro modalità di preparazione, meccanismo d'azione, ed utilizzo come adiuvanti nelle malattie cardiovascolari ed autoimmuni. A.A. 2022 per un totale di 12 ore.
- Attività di docenza nell'ambito SSD BIO/15 del Master di II livello in "Stress, sport, nutrizione: nuovi approcci diagnostici e terapeutici per wellness, fitness, prevenzione e riabilitazione" organizzato dal Dipartimento di Scienze e Biotecnologie Medico chirurgiche Università degli studi di Roma Sapienza. L'attività didattica ha come oggetto la presentazione di una revisione della letteratura scientifica sull'uso dei principali prodotti nutraceutici e funzionali, loro modalità di preparazione, meccanismo d'azione, ed utilizzo come adiuvanti nelle malattie cardiovascolari ed autoimmuni. A.A. 2021 per un totale di 12 ore.
- Attività di docenza nell'ambito SSD BIO/15 del Master di II livello in "Stress, sport, nutrizione: nuovi approcci diagnostici e terapeutici per wellness, fitness, prevenzione e riabilitazione" organizzato dal Dipartimento di Scienze e Biotecnologie Medico chirurgiche Università degli studi di Roma Sapienza. L'attività didattica ha come oggetto la presentazione di una revisione della letteratura scientifica sull'uso dei principali prodotti nutraceutici e funzionali, loro modalità di preparazione, meccanismo d'azione, ed utilizzo come adiuvanti nelle malattie cardiovascolari ed autoimmuni. A.A. 2020 per un totale di 15 ore.
- Attività di docenza nell'ambito SSD BIO/15 del Master di II livello in "Stress, sport, nutrizione: nuovi approcci diagnostici e terapeutici per wellness, fitness, prevenzione e riabilitazione" organizzato dal Dipartimento di Scienze e Biotecnologie Medico chirurgiche Università degli studi di Roma Sapienza. L'attività didattica ha come oggetto la presentazione di una revisione della letteratura scientifica sull'uso dei principali prodotti nutraceutici e funzionali, loro modalità di preparazione, meccanismo d'azione, ed utilizzo come adiuvanti nelle malattie cardiovascolari ed autoimmuni. A.A. 2018 per un totale di 6 ore.
- Attività di docenza nell'ambito SSD BIO/15 del Master di II livello in "Stress, sport, nutrizione: nuovi approcci diagnostici e terapeutici per wellness, fitness, prevenzione e riabilitazione"

organizzato dal Dipartimento di Scienze e Biotechnologie Medico chirurgiche Università degli studi di Roma Sapienza. L'attività didattica ha come oggetto la presentazione di una revisione della letteratura scientifica sull'uso dei principali prodotti nutraceutici e funzionali, loro modalità di preparazione, meccanismo d'azione, ed utilizzo come adiuvanti nelle malattie cardiovascolari ed autoimmuni. A.A. 2017 per un totale di 6 ore.

#### Laboratory training activity at ISS

- 2022
  - Attività formativa di laboratorio a supporto della formazione degli studenti del corso di Corso di Laurea in Biotechnologie Farmaceutiche, Sapienza Università di Roma, finalizzate all'acquisizione di competenze tecnico-scientifiche nell'ambito Farmaco-biologico: studentessa Elena Monaco, ISS, Roma, 29 marzo 2022 (3CFU).
- 2019
  - Attività formativa di laboratorio a supporto della formazione degli studenti del corso di Laurea in CTF (A.A. 2018/2019), finalizzate all'acquisizione di competenze tecnico-scientifiche nell'ambito bio-medico della preparazione e caratterizzazioni di colture cellulari. Titolare del corso Prof. L. Saso, Università degli studi di Roma Sapienza per un totale di 6 ore.
- 2018
  - Attività formativa di laboratorio a supporto della formazione degli studenti del corso di Laurea in CTF (A.A. 2017/2018), finalizzate all'acquisizione di competenze tecnico-scientifiche nell'ambito bio-medico della preparazione e caratterizzazioni di colture cellulari. Titolare del corso Prof. L. Saso, Università degli studi di Roma Sapienza per un totale di 6 ore.
- 2013/2014  
2012/2013
  - Amy Pearce, ERASMUS EXCHANGE 2013/2014
  - Elif Inci Ozturk, ERASMUS EXCHANGE 2012/2013

#### Supervision

- Tirocinio curriculare per tesi per la studentessa Benedetta di Veroli dal 16 ottobre 2022 al 16 dicembre 2023. Corso di Laurea in Scienze Biologiche, curriculum Biomolecolare della Facoltà di Scienze Matematiche, Fisiche e Naturali presso la Sapienza Università di Roma. L'argomento della tesi: Valutazione del fattore di trascrizione nucleare Nrf2 e degli enzimi citoprotettivi antiossidanti in un modello animale di steatoepatite non alcolica (NASH: Non Alcoholic Steatohepatitis)
- Supervisore della dott.ssa Dr. Zoe González Carnicero "PhD international stay 2022". International Doctoral School of Rey Juan Carlos University. PhD thesis entitled: "Modulation by Nrf2 of IL-1 $\beta$ -induced vascular damage associated with hypertensive pathology, relationship with TLR4" for the PhD Program: Health Sciences, research line "Basic Research in Biomedicine". 12th September 2022 to 22th December 2022, ISS, Rome Italy.
- Supervisore della dott.ssa Sarmistha Saha del SERB- National Post Doctoral Fellow del Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, India, nel programma European Molecular Biology Organization (EMBO) Short-Term Fellowship n. 8142 presso il Dip. Malattie Cardiovascolari, Endocrino-metaboliche e Invecchiamento, ISS. Titolo del progetto: "Evaluation of Lupeol effects on the pro-inflammatory signalling triggered in macrophages by 7-keto-cholesterol: new perspectives in the therapy of atherosclerosis". ISS, Roma 26 agosto-30 settembre 2019.
- PhD supervisor della dott.ssa Elif Inci Ozturk della Hacettepe University (Ankara, Turkey) durante il periodo di ERASMUS EXCHANGE. Titolo del progetto "Role of oxysterols in the macrophage diversity within atherosclerotic plaques", ImmunoTools Award 2013 PhD.
- Dottorato in Medicina Sperimentale XXXV Ciclo. Dottoranda Elisa Maggi Dipartimento di Scienze e Biotechnologie medico-chirurgiche, Università la Sapienza di Roma (Polo Pontino). Titolo del progetto di ricerca: "Ruolo di IL-23 nella placca aterosclerotica." Coordinatore: Prof. Maurizio Sorice, docente guida: Prof.ssa Rita Businaro, correlatore esterno: Dott.ssa Brigitta Buttari.
- Relatore della studentessa Elisa Carpico nel progetto di tesi dal titolo: "Ruolo dell'IL-23 nella progressione dell'aterosclerosi carotidea". A/A 2017/2018. Facoltà di Medicina e Chirurgia Polo Pontino canale "E", Università degli studi di Roma Sapienza, luglio 2018.
- Relatore del dott. Luca Segoni nel progetto di tesi dal titolo: "Effetto pro-infiammatorio del 7-chetosterolo su macrofagi umani polarizzati in vitro: potenziale bersaglio terapeutico nell'aterosclerosi". Corso di Laurea magistrale in Biologia Applicata alla Ricerca Biomedica, Università degli studi di Roma Sapienza, luglio 2013.
- Relatore dello studente Luca Segoni nel progetto di tesi dal titolo " Valutazione della capacità degli oxisteroli di attivare e polarizzare i macrofagi umani in vitro: possibile ruolo nella patogenesi dell'aterosclerosi". Corso di Laurea triennale in Scienze Biologiche, Università degli studi di Roma Sapienza, luglio 2011.

#### Education

- 2003-2008 **Microbiology, Immunology and Infective diseases (Dottorato di Ricerca)**  
 Università degli Studi di Roma Tor Vergata, Italy  
 "Chronic and acute alcohol exposure prevents monocyte-derived dendritic cells from maturing in response to microbial stimuli" (THESIS/DISSERTATION)
- 2000- 2003 **Applied Biotechnology (Postgraduate Certificate)**  
 Università degli Studi di Roma Sapienza, Italy  
 "Phenotypic and functional maturation of dendritic cells induced by carotid atherosclerotic plaque extr vitro model for the study of the immunosuppressive drugs" (THESIS/DISSERTATION)
- 1999/05/27 **Scienze Biologiche (Laurea)**  
 Università degli Studi di Roma Sapienza, Italy
- Bachelor**
- 1992 Liceo Scientifico Leonardo da Vinci, Sora (Italy)

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)

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

**Outputs**

## Publications

More than 80 original *in extenso* articles published on international journals with referees; 3 invited chapter book; her publications gained H-index: 31 (Web of Science).

1. 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.
2. 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.
3. Profumo E, Buttari B, Tosti ME, Salvati B, Capoano R, Riganò R. Increased circulating levels of MIP-1 $\alpha$  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.
4. Gjorgjeva 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.
5. 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.
6. 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.
7. 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.
8. 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
9. 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.fb12710292, PMID: 36336871. CONTRIBUTORS: Magnifico MC; Xhani M; Sprovera B; Buttari B; Abballe G; Desideri F; Panieri E; Luciano Saso; Marzia ARESE
10. An Overview of NRF2-Activating Compounds Bearing  $\alpha,\beta$ -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
11. 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
12. 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
13. 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
14. 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.
15. Oxidative Stress and Cancer Heterogeneity Orchestrate NRF2 Roles Relevant for Therapy Response. *Molecules*. 2022-02-22, DOI: 10.3390/molecules27051468. CONTRIBUTORS: Koraljka 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.
  16. 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
  17. 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.
  18. 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
  19. 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
  20. 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
  21. 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
  22. 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
  23. 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.
  24. 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.
  25. 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
  26. 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
  27. Phenotypical and functional abnormalities of circulating neutrophils in patients with  $\beta$ -thalassemia. *Annals of hematology*. 2020-08 | Journal article. DOI: 10.1007/s00277-020-04213-0. PMID: 32803313. CONTRIBUTORS: Buttari B; Profumo E; Caprari P; Massimi S; Sorrentino F; Maffei L; Gabbianelli M; Riganò R
  28. Oxidative Stress Induces HSP90 Upregulation on the Surface of Primary Human Endothelial Cells: Role of the Antioxidant 7,8-Dihydroxy-4-methylcoumarin in Preventing HSP90

- Exposure to the Immune System. *Oxidative Medicine and Cellular Longevity*. 2018 | Journal article. DOI: 10.1155/2018/2373167. CONTRIBUTORS: Elisabetta Profumo; Brigitta Buttari; Lavinia Tinaburri; Daniela D'Arcangelo; Maurizio Sorice; Antonella Capozzi; Tina Garofalo; Antonio Facchiano; Rita Businaro; Prashant Kumar et al.
29. 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
  30. 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
  31. Antibodies to age- $\beta$ 2 glycoprotein i in patients with antiphospholipid antibody syndrome. 2015-12 | Journal article. DOI: 10.1111/cei.12762. PMID: 26702877. CONTRIBUTORS: Sorice M; Buttari B; Capozzi A; Profumo E; Facchiano F; Truglia S; Recalchi S; Alessandri C; Conti F; Misasi R et al.
  32. 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
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47. Oxidized human beta2-glycoprotein I: its impact on innate immune cells. 2011-12 | DOI: 10.2174/156652411798062377. PMID: 21999151. CONTRIBUTORS: Buttari B; Profumo E; Capozzi A; Sorice M; Riganò R
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#### Scientific contributions on social media/webpage

1. Buttari B. Newsletter Jan 2023. BenBedPhar webpage. <https://benbedphar.org/issue-5-january-2023/> COST Action CA20121 "Bench to bedside transition for pharmacological regulation of NRF2 in noncommunicable diseases. Comments:"NRF2 activation as new tool to repair damaged tissues in cardiovascular ischemic diseases".

2. Saha S, Buttari B, Panieri E, Profumo E, Saso L. Nrf2 Signaling Pathway on E Scholarly Community Encyclopedia 2020 <https://encyclopedia.pub/4279>
3. Buttari B.  $\beta$ 2-Adrenergic Receptor Activation Promotes M2 Polarization of Gut Macrophages: How the Brain–Gut Axis Maintains Tissue Homeostasis. Commentary article on Brainimmune.com, 25th Oct 2016. <http://www.brainimmune.com/%CE%B22-adrenergic-receptor-activation-promotes-m2-polarization-gut-macrophages-brain-gut-axis-maintains-tissue-homeostasis/>
4. Buttari B and Elenkov I. New Evidence that Peripheral Nerves Sense Infection and Drive IL-23 Production by Skin Dendritic Cells. Commentary article on Brainimmune.com, 22th Oct 2015. <http://www.brainimmune.com/new-evidence-that-peripheral-nerves-sense-infection-and-drive-il-23-production-by-skin-dendritic-cells/>
5. Buttari B, Profumo E, Riganò R. A Hierarchical Cytokines Framework defining groups of Chronic Inflammatory Diseases: learning from cytokine-targeted therapies. Commentary article on Brainimmune.com, 1th Jun 2014. <http://www.brainimmune.com/a-hierarchical-cytokines-framework-defining-groups-of-chronic-inflammatory-diseases-learning-from-cytokine-targeted-therapies/>

#### Event organization

2022/10/13 - 2022/10/14

- 3rd BenBedPhar Scientific meeting Bench to Bedside for Pharmacological regulation of NRF2 in no communicable diseases October 13-14, 2022 "Victor Babes" National Institute of Pathology, 99-101 Splaiul Independentei, 050096 Bucharest, Romania

2022/01/11 - 2022/01/12

- BenBedPhar Online Scientific Marathon Meeting <https://benbedphar.org/benbedphar-online-scientific-marathon/>

2022- 2023

Organising Committee High Level webinar series on [antiox.it](http://antiox.it): NRF2 and Neuroinflammation  
 Organising Committee High Level webinar series on [antiox.it](http://antiox.it): NRF2 and System medicine  
 Organising Committee Redox Webinar: NRF2 and vascular diseases  
 Organising Committee Redox Webinar: NRF2 and metabolic diseases  
 Organising Committee Redox Webinar: NRF2 and Cancer  
 Programme committe 3rd BenBedPhar Scientific meeting Bench to Bedside for Pharmacological regulation of NRF2 in no communicable diseases

#### Chapters of book

1. Role of Oxidative Stress in the pathogenesis of Metabolic Syndrome. Luciano Saso, Sankha Shubhra Chakrabarti, Sapna Bala, Sarmistha Saha, Elisabetta Profumo, **Brigitta Buttari**, Sasanka Chakrabarti. In Metabolic Syndrome: From Mechanisms to Interventions. Satinath Mukhopadhyay, Sunetra Mondal. Editore Academic Press, 2023. ISBN 0323856586, 9780323856584
2. Profumo E, **Buttari B**, Tosti ME, Scivo R, Spadaro A, Tesori C, Di Franco M, Riganò R. Subclinical atherosclerosis in patients with rheumatoid and psoriatic arthritis. In: Autoimmunity: Role, Regulation and Disorders (4thQuarter). Editor: FL Vogel and LF Zimmermann, pp. 2008 Nova Science Publishers, Inc. ISBN:978-1-60456-833-2.
3. Profumo E\*, Ludovisi A\*, **Buttari B**, Gomez Morales MA, Riganò. Booktitle "Immune Response to Parasitic Infections". Volume: 2 Immunity to Helminths and Novel Therapeutic Approaches. Title: "Parasite-Mediated Immune Modulation During the Development of Human Cystic Echinococcosis". 2014 Oct; 69-91; Bentham Science Publishers Ltd; DOI: 10.2174/9781608059850114020007. These authors contributed equally.

#### Editorial activities

Reviewer for Journal of Immunology, PlosOne, Oxidative Medicine and Cellular Longevity, Blood, Antioxidants.

2016 Lead Guest Editor for Oxidative Medicine and Cellular Longevity -Special Issue on "Antioxidant and Immunomodulatory Compounds in Cardiovascular Repair"

## Honours and awards

1. 2017 EAS Travel Grant to attend EAS 2017 Prague, Czech Republic, April 23-26.
2. 2016 "PEARLS IN AUTOIMMUNITY: TOP CANDIDATES FOR THE MAI AWARD 2016" 10th International Congress on Autoimmunity (Autoimmunity 2016) Leipzig, Germany, April 6-10, 2016
3. 2015 ImmunoTools special Award 2015
4. 2009 IUBMB Advanced Course on "Mechanisms and Consequences of Free Radical-Mediated Oxidative Protein Modifications", Federation of European Biochemical Societies travel fund, Antalya, Turkey.
5. 2007 EMBO Conference Young Researcher Travel Grant, Co-Sponsored by European Network of Immunology Institute (ENII) and Società italiana di Immunologia, Immunologia Clinica e Allergologia (SIICA); Capo Caccia, Italy.
6. 2006 5th International Congress on Autoimmunity travel grant; Sorrento, Italy.
7. 2005 4th SIICA National Conference travel grant, Società italiana di immunologia, Immunologia Clinica e Allergologia (SIICA); Brescia, Italy.
8. 2005 ERAB Young Investigators Award elected by the European Research Advisory Board of European Society for Biomedical Research on Alcoholism (ESBRA); Canterbury, UK. Award given to reward quality and innovation of basic scientific research as principal investigator in the project entitled: "Ethanol impair the maturation and function of monocyte-derived dendritic cells obtained from alcoholics and healthy subjects".
9. 2004 IX European Multicolloquium of Parasitology- EMOP 9 International Fellowship for the project entitled: "Maturation of dendritic cell 2 phenotype by Echinococcus granulosus antigens"; Valencia, Spain.
10. 2000 Immunobiology of Infectious Diseases workshop travel grant, Società italiana di immunologia, Immunologia Clinica e Allergologia (SIICA); Massa Marittima, Italy.

## Memberships

Member of the "Società italiana di immunologia, Immunologia Clinica e Allergologia"; 1999-2015  
Member of European Federation of Immunological Societies; 2009-2010  
Member of The Ruggero Ceppellini Advanced School of Immunology; 2005  
Member of the "Società Italiana di Biochimica e Biologia Molecolare"; 2009-2010.  
Member of the European Biochemical Societies; 2009-2010  
Member of the European Atherosclerosis Society (EAS); 2008-2009  
Member of Italian group of Cytometry; 1999-2004.  
Founding member of the Italian Study Group of Biomaterials in Surgery; 2005-Present

## Additional documents

-dichiarazione sostitutiva di certificazione del diploma di laurea;  
- dichiarazione sostitutiva di certificazione del titolo di dottore di ricerca;  
- dichiarazione sostitutiva di certificazione o dell'atto di notorietà di tutti i titoli scientifici che ritiene valutabili ai fini della procedura di valutazione comparativa.  
Elenco titoli e pubblicazioni  
- Documento di identità;

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".

la sottoscritta dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data

Roma, 30 agosto 2023