



Curriculum Vitae

Brigitta Buttari

I am a researcher at Istituto Superiore di Sanità (ISS- Italian National Institute of Health), Dept. of Cardiovascular and Endocrine-metabolic Diseases, and Aging, in Rome, Italy. I have graduated and post-graduated at Sapienza University of Rome where I was able to get a solid knowledge in the field of biology, biotechnology and immunology. Soon after I got to enter a PhD program in Medical Microbiology and Immunology at Tor Vergata University of Rome. I spent this period of formation in the Immune-Mediated Diseases unit at ISS, where I learned more about immunology, oxidative stress in chronic inflammatory diseases and studied how certain oxidative modifications on endogenous molecules may affect the biology of human immune cells. My main research interest is focused on basic and translational research in the field of age-related diseases as atherosclerosis, a chronic and inflammatory condition characterized by accumulation of proinflammatory macrophages in the intima of the arterial wall. A special research interest refers to study the functional spectrum of macrophage polarization state and how to modulate that by tuning the M1/ M2 macrophage balance towards an anti-inflammatory and reparative profile. I am seeking for natural compounds that may act as oxidative stress and autophagy/apoptosis regulators through modulation of the Keap1-Nrf2-ARE signalling pathway and thus may use on human and murine immune cell models. The main techniques used are cell culture techniques, flow cytometry, immunochemical and immunoenzymatic techniques and immunofluorescence microscopy. My future is open and right now, I enjoy looking for new technologies and framework where to share knowledge and resources. I am always curious and therefore I would like to get an opportunity to share my research program and to empower my career prospects.

Identification

Author identifiers

Ciência ID

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Knowledge fields

Medical and Health Sciences - Basic Medicine - Immunology

Education

	Degree	Classification
2003 - 2008 Concluded	Microbiology, Immunology and Infective diseases (Dottorato di Ricerca)	
	Università degli Studi di Roma Tor Vergata, Italy <i>"Chronic and acute alcohol exposure prevents monocyte-derived dendritic cells from maturing in response to microbial stimuli" (THESIS/DISSERTATION)</i>	
2000 - 2003 Concluded	Applied Biotechnology (Postgraduate Certificate)	
	Università degli Studi di Roma La Sapienza, Italy <i>"Phenotypic and functional maturation of dendritic cells induced by carotid atherosclerotic plaque extracts: in vitro model for the study of the immunosuppressive drugs" (THESIS/DISSERTATION)</i>	
1999/05/27 Concluded	Scienze Biologiche (Laurea)	
	Università degli Studi di Roma La Sapienza, Italy <i>"Cytokine gene expression in peripheral blood mononuclear cells (PBMC) from patients with pharmacologically treated cystic echinococcosis." (THESIS/DISSERTATION)</i>	
1992 Concluded	Liceo Scientifico (Bachelor)	
	Liceo Leonardo da Vinci, Italy	

Affiliation

Science

Category	Employer
Host institution/organization	

Projects

Grant

	Designation	Funders
2021/06 - Current	Oestrogen receptor gene modulator microRNA-152 gene as possible new marker of high-risk plaques eligible for endarterectomy in patients with carotid atherosclerosis 0000 Università degli Studi di Roma La Sapienza, Italy	Ongoing
2019 - Current	Serum sex hormones as markers of high-risk plaques eligible for endarterectomy in patients with carotid atherosclerosis: gender differences 0000 Università degli Studi di Roma La Sapienza, Italy	Ongoing
2018 - Current	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 0000 Researcher Università degli Studi di Roma La Sapienza, Italy	Concluded
2017 - Current	Carotid atherosclerosis: a multi-parametric approach to identify circulating biomarkers indicating patients with vulnerable plaques eligible for endarterectomy 0000 Researcher Università degli Studi di Roma La Sapienza, Italy	Concluded
2017 - Current	Valutazione e modulazione dei fattori di stress ossidativi implicati in differenti condizioni patologiche 0000 Researcher Università degli Studi di Roma La Sapienza, Italy	Concluded

2017 - Current	Evaluation of the polyphenolic substance ability to induce autophagy in human macrophages exposed to advanced glycation end products 0000 Researcher Università degli Studi di Roma La Sapienza, Italy Italian National Institute of Health, Italy	Concluded
2016 - Current	Attività anti-infiammatoria di composti polifenolici nelle malattie cronico-degenerative 0000 Researcher Italian National Institute of Health, Italy	Concluded
2016 - Current	Carotid endarterectomy: a multi-parametric approach to identify immunological and inflammatory markers indicating patients at high risk of clinical events 0000 Researcher Università degli Studi di Roma La Sapienza, Italy Italian National Institute of Health, Italy	Concluded
2016 - Current	Valutazione e modulazione farmacologica dei meccanismi di stress ossidativo coinvolti in differenti condizioni patologiche 0000 Researcher Italian National Institute of Health, Italy	Concluded
2016 - Current	Attività anti-infiammatoria di composti polifenolici nelle malattie cronico-degenerative C26A15FHES Researcher Italian National Institute of Health, Italy	Concluded
2015 - Current	Ruolo gerarchico di classi di citochine nelle malattie infiammatorie croniche: asse IL-23-IL-17 nella patologia aterosclerotica 0000 Researcher	
2013 - Current	Studi di biomonitoraggio e tossicità degli inquinanti presenti nel territorio di Taranto" -Caratterizzazione del potenziale immunotossico e pro-infiammatorio del materiale particellare aerodisperso (PM10) nella città di Taranto in prossimità dello stabilim 0000 Researcher Italian National Institute of Health, Italy	Concluded

2011 - Current	Evaluation of oxidative stress in various pathological conditions and study of possible antioxidant agents 0000 Researcher Italian National Institute of Health, Italy	Concluded
2010 - Current	Evaluation of oxidative stress in various pathological conditions and study of possible antioxidant agents 0000 Researcher Italian National Institute of Health, Italy	Concluded
2009 - Current	Evaluation of oxidative stress in various pathological conditions and study of possible antioxidant agents 0000 Researcher Italian National Institute of Health, Italy	Concluded
2006 - Current	Marie Curie International Reintegration grant within the 6th European Community Framework Program 0000 Researcher Italian National Institute of Health, Italy	Concluded
2005 - Current	Infezioni croniche e mimetismo molecolare implicati nei processi autoimmuni dell'aterosclerosi: nuove strategie terapeutiche 0000 Researcher	Concluded
2000 - Current	Attività di ricerca e studio della Dermatite da contatto 0000 Researcher	Concluded
2018/01/11 - 2021/01/10	Monitoraggio del consumo medio giornaliero di sodio nella popolazione italiana 3S06 Researcher Italian National Institute of Health, Italy	Concluded
2011/10/25 - 2019	New therapeutic approaches in the human beta-thalassemia treatment: in vitro and in vivo studies RF-ISS-2008-1222648	Concluded

2007 - 2011	Controllo delle infezioni nei soggetti deboli e immunocompromessi-Agenti opportunistici e nuove opportunità di controllo delle infezioni". Linea di ricerca: "Immunità e infezioni nell'ospite immunocompromesso per stile di vita: evidenze sperimentali e implicazioni terapeutiche 0000 Researcher	
2006 - 2010/05/31	Studio di meccanismi patogenetici autoimmuni nell' aterosclerosi e nel lupus eritematoso sistemico 8ABF/2 Italian National Institute of Health, Italy	Concluded
2007 - 2010	Sviluppo di nuovi farmaci antiossidanti 0000 Researcher Università degli Studi di Roma La Sapienza, Italy Italian National Institute of Health, Italy	Concluded
2005 - 2008	Study of chronic infections and molecular mimicry in autoimmune processes involved in atherosclerosis: new therapeutic strategies 0000 Italian National Institute of Health, Italy	Concluded
2005 - 2008	Ruolo dei recettori toll-like nella maturazione delle cellule dendritiche umane indotta dalla b2-glycoproteina I e messa a punto di approcci di immunomodulazione in vitro delle cellule dendritiche per la prevenzione e terapia dell' aterosclerosi 6ACF/6	Concluded
2005 - 2008	Ruolo dei prodotti finali della glicazione avanzata (AGEs) nei meccanismi autoimmuni in corso di aterosclerosi associata a diabete mellito, con particolare riguardo alla salute della donna in età post-menopausa 6AEF1 Researcher	Concluded
2004 - 2006	Woman, health, alcohol: risks and damages from alcohol in different woman ages. The role of abuse markers". Immunological aspects 0000 PhD Student Fellow Italian National Institute of Health, Italy	Concluded

2003 - 2006

Caratterizzazione di risposte cellulari specifiche verso autoantigeni nella lesione aterosclerotica e loro modulazione in vitro mediante cellule dendritiche tollerogeniche

4AM/F6

Concluded

Italian National Institute of Health, Italy

Contract

Designation

Funders

2018/03/17 - Current

Protocollo di sperimentazione animale dal titolo "Proprietà anti-infiammatorie della parnaparina nella prevenzione dell'aterosclerosi

0000

Concluded

Italian National Institute of Health, Italy

Università degli Studi di Roma La Sapienza, Italy

2005 - 2006

Infezioni croniche e mimetismo molecolare implicati nei processi autoimmuni dell'aterosclerosi: nuove strategie terapeutiche

6ACF/6

Concluded

1998 - 1999

Valutazione genotipica di cellule estratte da topi in sperimentazione sia presso l'Università La Sapienza che presso l'Istituto Superiore di Sanità

0000

Concluded

Researcher

Italian National Institute of Health, Italy

Other

Designation

Funders

2021/06 - Current

Lupeol counteracts human macrophage inflammation: potential therapeutic implications in Atherosclerosis

0000

Ongoing

Principal investigator

Italian National Institute of Health, Italy

2015 - Current

Role of Neuropeptide Y as regulator of macrophage phenotype and functions: a neuroimmune cue in atherosclerosis regression?

0000

Concluded

Principal investigator

Italian National Institute of Health, Italy

2003 - Current	Diagnosi di malattie autoimmuni sistemiche e di vasculiti mediante l'identificazione di nuovi marcatori immunologici C3N3 Researcher	Concluded
2003 - Current	Studio dei meccanismi molecolari e cellulari nell'induzione e modulazione di malattie infiammatorie croniche 0000 Researcher Italian National Institute of Health, Italy	Concluded
2002 - Current	Studio dei meccanismi infiammatori ed immunitari in patologie cardiovascolari ad eziologia aterosclerotica 2138/RI	Concluded
2002 - Current	Studio dei meccanismi molecolari e cellulari nell'induzione e modulazione delle malattie infiammatorie croniche 2AEI	Concluded
2001 - Current	Studio dei meccanismi infiammatori ed immunitari in patologie cardiovascolari ad eziologia aterosclerotica 0000 Researcher Italian National Institute of Health, Italy	Concluded
2000 - Current	Citochine: Messa a punto e convalida delle metodiche vigenti nell'ambito della Farmacopea Europea, in particolare per quanto riguarda l'interferone alfa e gamma OK/C e OK2/C Researcher	Concluded
1999 - Current	Produzione di linee di linfociti T specifiche per antigeni di Echinococcus granulosus ed analisi citofluorimetrica 0000 Research Fellow Italian National Institute of Health, Italy	Concluded
1999 - Current	Colture cellulari, produzione di linee T, analisi citofluorimetrica 0000 Research Fellow Italian National Institute of Health, Italy	Concluded

2018 - 2019	"Valutazione dell'associazione tra un pannello di marcatori immunologici ed infiammatori ed eventi cardiovascolari mediante saggio immunoenzimatico multiplexed 0000 Researcher Italian National Institute of Health, Italy	Ongoing
2017 - 2018	Miglioramento della valutazione del rischio cardiovascolare: valutazione di biomarcatori determinati nelle coorti afferenti alla biobanca di popolazione dell'Iss dal consorzio europeo BiomarCaRE 0000 Researcher Italian National Institute of Health, Italy	Ongoing
2001 - 2004	Studio dei meccanismi infiammatori ed immunitari in patologie cardiovascolari ad eziologia aterosclerotica C3N2 Italian National Institute of Health, Italy	Concluded
2001 - 2003	Risposta immunitaria nella echinococcosi cistica: diagnosi e immunoregolazione 0000 Researcher Italian National Institute of Health, Italy	Concluded

Outputs

Publications

- | | | |
|-----------------|---|---|
| Journal article | 1 | <p>Chiara Donfrancesco; Martha Asuncion Sánchez-Rodríguez; Elisabetta Profumo; Cinzia Lo Noce; Daniela Minutoli; Anna Di Lonardo; Brigitta Buttari; et al. "Trends of overweight, obesity and anthropometric measurements among the adult population in Italy: The CUORE Project health examination surveys 1998, 2008, and 2018". <i>PLOS ONE</i> (2022); https://doi.org/10.1371/journal.pone.0264778.</p> <p>10.1371/journal.pone.0264778</p> |
| | 2 | <p>Koraljka Gall Trošelj; Marko Tomljanovic; Morana Jaganjac; Tanja Matijevic Glavan; Ana Cipak Gašparovic; Lidija Milkovic; Suzana Borovic Šunjac; et al. "Oxidative Stress and Cancer Heterogeneity Orchestrate NRF2 Roles Relevant for Therapy Response". <i>Molecules</i> 27 5 (2022): 1468-1468. https://doi.org/10.3390/molecules27051468.</p> <p>10.3390/molecules27051468</p> |
| | 3 | <p>Brigitta Buttari; Rachele Riganò; Luigi Palmieri; Cinzia Lo Noce; Stefan Blankenberg; Tanja Zeller; Serena Vannucchi; et al. "Sex Hormone-Binding Globulin and Its Association to Cardiovascular Risk Factors in an Italian Adult Population Cohort". <i>Reports</i> 5 1 (2022): 5-5. https://doi.org/10.3390/reports5010005.</p> |

- 4 Karolina Pierzynowska; Lidia Gaffke; Zuzanna Cyske; Grzegorz Wegrzyn; Brigitta Buttari; Elisabetta Profumo; Luciano Saso. "Oxidative Stress in Mucopolysaccharidoses: Pharmacological Implications". *Molecules* (2021): <https://doi.org/10.3390/molecules26185616>.
10.3390/molecules26185616
- 5 Marcelo Farina; Leonardo Eugênio Vieira; Brigitta Buttari; Elisabetta Profumo; Luciano Saso. "The Nrf2 Pathway in Ischemic Stroke: A Review". *Molecules* (2021): <https://doi.org/10.3390/molecules26165001>.
10.3390/molecules26165001
- 6 Bercis Imge Ucar; Gulberk Ucar; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso. "Pharmacological Protection against Ischemia-Reperfusion Injury by Regulating the Nrf2-Keap1-ARE Signaling Pathway". *Antioxidants* (2021): <https://doi.org/10.3390/antiox10060823>.
10.3390/antiox10060823
- 7 Ipek Süntar; Sümeýra Çetinkaya; Emiliano Panieri; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso. "Regulatory Role of Nrf2 Signaling Pathway in Wound Healing Process". *Molecules* 26 9 (2021): 2424-2424. <https://doi.org/10.3390/molecules26092424>.
10.3390/molecules26092424
- 8 Melford Chuka Egbujor; Sarmistha Saha; Brigitta Buttari; Elisabetta Profumo; Luciano Saso. "Activation of Nrf2 signaling pathway by natural and synthetic chalcones: a therapeutic road map for oxidative stress". *Expert Review of Clinical Pharmacology* (2021): 1-16. <https://doi.org/10.1080/17512433.2021.1901578>.
10.1080/17512433.2021.1901578
- 9 Chiara Donfrancesco; Cinzia Lo Noce; Ornella Russo; Daniela Minutoli; Anna Di Lonardo; Elisabetta Profumo; Brigitta Buttari; et al. "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* 31 3 (2021): 802-813. <https://doi.org/10.1016/j.numecd.2020.10.017>.
10.1016/j.numecd.2020.10.017
- 10 Chiara Donfrancesco; Cinzia Lo Noce; Ornella Russo; Brigitta Buttari; Elisabetta Profumo; Daniela Minutoli; Anna Di Lonardo; et al. "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): <https://doi.org/10.1016/j.numecd.2020.11.015>.
10.1016/j.numecd.2020.11.015
- 11 Sarmistha Saha; Brigitta Buttari; Emiliano Panieri; Elisabetta Profumo; Luciano Saso. "An Overview of Nrf2 Signaling Pathway and Its Role in Inflammation". *Molecules* 25 22 (2020): 5474-5474. <https://doi.org/10.3390/molecules25225474>.
10.3390/molecules25225474
- 12 Sarmistha Saha; Elisabetta Profumo; Anna Rita Togna; Rachele Riganò; Luciano Saso; Brigitta Buttari. "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): <https://doi.org/10.1155/2020/1232816>.
10.1155/2020/1232816

- 13 Buttari B; Profumo E; Caprari P; Massimi S; Sorrentino F; Maffei L; Gabbianelli M; Riganò R. "Phenotypical and functional abnormalities of circulating neutrophils in patients with β -thalassemia.". *Annals of hematology* (2020): <http://europepmc.org/abstract/med/32803313>.
10.1007/s00277-020-04213-0
- 14 Elisabetta Profumo; Brigitta Buttari; Lavinia Tinaburri; Daniela D'Arcangelo; Maurizio Sorice; Antonella Capozzi; Tina Garofalo; et al. "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): <https://doi.org/10.1155/2018/2373167>.
10.1155/2018/2373167
- 15 Elisabetta Profumo; Brigitta Buttari; Daniela D'Arcangelo; Lavinia Tinaburri; Maria Antonietta Dettori; Davide Fabbri; Giovanna Delogu; Rachele Riganò. "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 (2016): 1-12. <https://doi.org/10.1155/2016/1246485>.
10.1155/2016/1246485
- 16 Sorice M; Buttari B; Capozzi A; Profumo E; Facchiano F; Truglia S; Recalchi S; et al. "Antibodies to age- β 2 glycoprotein i in patients with antiphospholipid antibody syndrome.". (2015): <http://europepmc.org/abstract/med/26702877>.
10.1111/cei.12762
- 17 Buttari B; Profumo E; Riganò R. "Crosstalk between red blood cells and the immune system and its impact on atherosclerosis.". (2015): <http://europepmc.org/abstract/med/25722984>.
10.1155/2015/616834
- 18 Buttari B; Profumo E; Domenici G; Tagliani A; Ippoliti F; Bonini S; Businaro R; Elenkov I; Riganò R. "Neuropeptide Y induces potent migration of human immature dendritic cells and promotes a Th2 polarization.". (2014): <http://europepmc.org/abstract/med/24699455>.
10.1096/fj.13-243485
- 19 Conti F; Spinelli FR; Alessandri C; Pacelli M; Ceccarelli F; Marocchi E; Montali A; et al. "Subclinical atherosclerosis in systemic lupus erythematosus and antiphospholipid syndrome: focus on β 2GPI-specific T cell response.". (2014): <http://europepmc.org/abstract/med/24436371>.
10.1161/ATVBAHA.113.302680
- 20 Buttari B; Profumo E; Segoni L; D'Arcangelo D; Rossi S; Facchiano F; Saso L; et al. "Resveratrol counteracts inflammation in human M1 and M2 macrophages upon challenge with 7-oxo-cholesterol: potential therapeutic implications in atherosclerosis.". (2014): <http://europepmc.org/abstract/med/24895526>.
10.1155/2014/257543
- 21 Elisabetta Profumo; Brigitta Buttari; Luciano Saso; Rachele Rigano. "Pleiotropic Effects of Statins in Atherosclerotic Disease: Focus on the Antioxidant Activity of Atorvastatin". *CTMC* 14 22 (2014): 2542-2551. <http://dx.doi.org/10.2174/1568026614666141203130324>.
10.2174/1568026614666141203130324
- 22 Profumo E; Buttari B; Tosti ME; Tagliani A; Capoano R; D'Amati G; Businaro R; Salvati B; Riganò R. "Plaque-infiltrating T lymphocytes in patients with carotid atherosclerosis: an insight into the cellular mechanisms associated to plaque destabilization.". (2013): <http://europepmc.org/abstract/med/22669090>.

- 23 Arslan F; Smeets MB; Buttari B; Profumo E; Riganò R; Akeroyd L; Kara E; et al. "Lack of haptoglobin results in unbalanced VEGFa/angiopoietin-1 expression, intramural hemorrhage and impaired wound healing after myocardial infarction.". (2013): <http://europepmc.org/abstract/med/23274064>.
10.1016/j.yjmcc.2012.12.012
- 24 Buttari B; Profumo E; Facchiano F; Ozturk EI; Segoni L; Saso L; Riganò R. "Resveratrol prevents dendritic cell maturation in response to advanced glycation end products.". (2013): <http://europepmc.org/abstract/med/23936610>.
10.1155/2013/574029
- 25 Profumo E; Buttari B; Petrone L; Lacroce G; Tesori MC; Capoano R; Salvati B; Riganò R. "Actin is a target of T-cell reactivity in patients with advanced carotid atherosclerotic plaques.". (2013): <http://europepmc.org/abstract/med/24324294>.
10.1155/2013/261054
- 26 Buttari B; Profumo E; Businaro R; Saso L; Capoano R; Salvati B; Riganò R. "Oxidized haemoglobin-driven endothelial dysfunction and immune cell activation: novel therapeutic targets for atherosclerosis.". (2013): <http://europepmc.org/abstract/med/23834168>.
10.2174/09298673113209990162
- 27 Businaro R; Tagliani A; Buttari B; Profumo E; Ippoliti F; Di Cristofano C; Capoano R; Salvati B; Riganò R. "Cellular and molecular players in the atherosclerotic plaque progression.". (2012): <http://europepmc.org/abstract/med/22823445>.
10.1111/j.1749-6632.2012.06600.x
- 28 Buttari B; Profumo E; Cuccu B; Straface E; Gambardella L; Malorni W; Genuini I; et al. "Erythrocytes from patients with carotid atherosclerosis fail to control dendritic cell maturation.". (2012): <http://europepmc.org/abstract/med/22265585>.
10.1016/j.ijcard.2011.12.068
- 29 Profumo E; Buttari B; Saso L; Capoano R; Salvati B; Riganò R. "T lymphocyte autoreactivity in inflammatory mechanisms regulating atherosclerosis.". (2012): <http://europepmc.org/abstract/med/23304078>.
10.1100/2012/157534
- 30 Profumo E; Di Franco M; Buttari B; Masella R; Filesi C; Tosti ME; Scrivo R; et al. "Biomarkers of subclinical atherosclerosis in patients with autoimmune disorders.". (2012): <http://europepmc.org/abstract/med/22529523>.
10.1155/2012/503942
- 31 Buttari B; Profumo E; Capozzi A; Sorice M; Riganò R. "Oxidized human beta2-glycoprotein I: its impact on innate immune cells.". (2011): <http://europepmc.org/abstract/med/21999151>.
10.2174/156652411798062377
- 32 Profumo E; Buttari B; Petrone L; Straface E; Gambardella L; Pietraforte D; Genuini I; et al. "Redox imbalance of red blood cells impacts T lymphocyte homeostasis: implication in carotid atherosclerosis.". (2011): <http://europepmc.org/abstract/med/22071772>.
10.1160/TH11-02-0110
- 33 Buttari B; Profumo E; Capozzi A; Facchiano F; Saso L; Sorice M; Riganò R. "Advanced glycation end products of human β 2 glycoprotein I modulate the maturation and function of DCs.". (2011): <http://europepmc.org/abstract/med/21498672>.

- 34 Artico M; Riganò R; Buttari B; Profumo E; Ionta B; Bosco S; Rasile M; et al. "Protective role of parnaparin in reducing systemic inflammation and atherosclerotic plaque formation in ApoE^{-/-} mice.". (2011): <http://europepmc.org/abstract/med/21279309>.
10.3892/ijmm.2011.606
- 35 Buttari B; Profumo E; Di Cristofano C; Pietraforte D; Lionetti V; Capoano R; Salvati B; et al. "Haemoglobin triggers chemotaxis of human monocyte-derived dendritic cells: possible role in atherosclerotic lesion instability.". (2011): <http://europepmc.org/abstract/med/21333994>.
10.1016/j.atherosclerosis.2010.12.032
- 36 Profumo E; Buttari B; Riganò R. "Oxidative stress in cardiovascular inflammation: its involvement in autoimmune responses.". (2011): <http://europepmc.org/abstract/med/21755027>.
10.4061/2011/295705
- 37 E. Profumo; D. D'Arcangelo; A. Tagliani; B. Buttari; F. Ippoliti; R. Riganò; R. Businaro. "MS147 HSP90 EXPRESSION AND RELEASE BY STRESSED HUMAN ENDOTHELIAL CELLS". *Atherosclerosis Supplements* 11 2 (2010): 139-139. [http://dx.doi.org/10.1016/s1567-5688\(10\)70648-6](http://dx.doi.org/10.1016/s1567-5688(10)70648-6).
10.1016/s1567-5688(10)70648-6
- 38 Profumo E; Buttari B; Alessandri C; Conti F; Capoano R; Valesini G; Salvati B; Riganò R. "Beta2-glycoprotein I is a target of T cell reactivity in patients with advanced carotid atherosclerotic plaques.". (2010): <http://europepmc.org/abstract/med/20377996>.
- 39 Profumo E; Buttari B; Tosti ME; Alessandri C; Valesini G; Marcuccio L; Tesori C; et al. "Identification of IP-10 and IL-5 as proteins differentially expressed in human complicated and uncomplicated carotid atherosclerotic plaques.". (2010): <http://europepmc.org/abstract/med/20943047>.
- 40 Businaro R; Profumo E; Tagliani A; Buttari B; Leone S; D'Amati G; Ippoliti F; et al. "Heat-shock protein 90: a novel autoantigen in human carotid atherosclerosis.". (2009): <http://europepmc.org/abstract/med/19481753>.
10.1016/j.atherosclerosis.2009.04.026
- 41 Profumo E; Buttari B; Riganò R. "Oxidized haemoglobin as antigenic target of cell-mediated immune reactions in patients with carotid atherosclerosis.". (2009): <http://europepmc.org/abstract/med/19393213>.
10.1016/j.autrev.2009.01.016
- 42 B Buttari; E Profumo; F Facchiano; A Capozzi; M Sorice; R Riganò. "Abstract: P639 ADVANCED GLYCOSYLATION END-PRODUCTS OF B2-GLYCOPROTEIN I MODULATE THE MATURATION AND FUNCTION OF DENDRITIC CELLS". *Atherosclerosis Supplements* 10 2 (2009): e825-e825. [http://dx.doi.org/10.1016/s1567-5688\(09\)70807-4](http://dx.doi.org/10.1016/s1567-5688(09)70807-4).
10.1016/s1567-5688(09)70807-4
- 43 Siracusano A; Margutti P; Delunardo F; Profumo E; Riganò R; Buttari B; Teggi A; Ortona E. "Molecular cross-talk in host-parasite relationships: the intriguing immunomodulatory role of Echinococcus antigen B in cystic echinococcosis.". (2008): <http://europepmc.org/abstract/med/18692060>.
10.1016/j.ijpara.2008.06.003

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Other

Other output	1	Parasite-Mediated Immune Modulation During the Development of Human Cystic Echinococcosis. 2014. Elisabetta Profumo; Alessandra Ludovisi; Brigitta Buttari; Maria Angeles Gomez Morales; Rachele Rigano. http://dx.doi.org/10.2174/9781608059850114020007 .
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Activities

Oral presentation

	Presentation title	Event name Host (Event location)
2019/06/03	Valutazione dello stato infiammatorio nella talassemia	Talassemie ed Emoglobinopatie: nuovi approcci diagnostici e terapeutici Italian National Institute of Health (Rome, Italy)
2017/11/17	Neuropeptide Y as modulator of macrophage phenotype and functions: A neuroimmune cue in atherosclerosis regression?	21° Congresso Società Italiana di Ricerche Cardiovascolari (SIRC). Symposium: Vascular biology and inflammation. (Imola, Italy)
2017/04/24	Neuropeptide Y as regulator of macrophage phenotype and functions: A neuroimmune cue in atherosclerosis regression?	(Prague, Czech Republic)
2016/04/08	Neuropeptide Y as regulator of macrophage phenotype and functions: A neuroimmune cue in atherosclerosis regression?	(Lipsia)
2015/07	Antioxidant and immunoregulatory effects of resveratrol on innate immune cells exposed to pro-atherogenic stimuli: potential therapeutic implications in atherosclerosis	Sapienza University of Rome (Rome, Italy)
2015/07	Antioxidant and immunoregulatory effects of resveratrol on innate immune cells exposed to pro-atherogenic stimuli: potential therapeutic implications in atherosclerosis	Sapienza University of Rome (Rome, Italy)
2011/09/22	5,6-Secosterol affects macrophage diversity and induces pro-inflammatory macrophage activation	(Brussels, Belgium)
2010/11	Resveratrol prevents dendritic cell maturation in response to advanced	Sapienza University of Rome (Rome, Italy)

glycosilation end product of beta2-glycoprotein I

Italy)

2008/12/05	Emoglobina libera come fattore chemiotattico nel reclutamento ed attivazione del sistema immunitario	Congresso annuale società BIOMAT.ch: Chirurgia cardiovascolare, dispositivi di supporto/terapeutici ed emolisi. "Innovazione tecnologica a tutela della Salute", Sapienza University of Rome (Rome, Italy)
2008/06/11	Free hemoglobin: a chemotactic stimulus for the innate immunity	Sapienza University of Rome (Rome, Italy)
2008/04/26	Free hemoglobin: a chemotactic stimulus for the innate immunity	(Instabul, Turkey)
2008/02/14	Erythrocytes from patients with carotid atherosclerosis lack the ability to control dendritic cell maturation	(Berlin, Germany)
2007/10/26	Perdita della funzione omeostatica degli eritrociti dopo contatto con circuiti extracorporei	Sapienza University of Rome (Rome, Italy)
2007/05/07	Free hemoglobin a dangerous signal for the immune system in patients with carotid atherosclerosis	(Capo Caccia, Italy)
2006/11/29	Oxidized hemoglobin induces T cell proliferation in patients with carotid atherosclerosis and promotes human dendritic cell maturation	(Sorrento, Italy)
2005/09/04	Ethanol and its metabolites impair the maturation and function of monocyte-derived dendritic cells obtained from alcoholics and healthy subjects	(Canterbury, United Kingdom)
2005/06/08	Inhibition of antigen-presenting cell functions by ethanol	(Brescia, Italy)
2004/09/28	Immunomodulazione delle cellule dendritiche come potenziale strategia terapeutica dell'aterosclerosi carotidea	Società Italiana di Immunologia, Certosa di Pontignano Workshop "Cellule Dendritiche Regolatorie nella Risposta Immunitaria (Siena)
2004/07/18	Maturation of dendritic cell 2 phenotype by Echinococcus granulosus antigens	(Valencia, Spain)

2004/04/24	Atherosclerotic plaque extract and Beta 2-glycoprotein I induce human dendritic cell maturation and promote a T helper type 1 response.	(Ischia, Italy)
2002/06/14	In vitro cytokine production from PBMC nickel positive subject: protective role of zinc sulphate	(Rome, Italy)
2001/10/26	Effetti biologici dei metalli di transizione in vitro	(Milan, Italy)
2001/10/25	Produzione in vitro di citochine da PBMC di pazienti Nickel sensibili: effetti protettivi del ZnSO ₄	(Milan, Italy)
2000/11/12	Characterization of E. granulosus specific human T cell lines	(Massa Marittima, Italy)

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2017/04 - 2018/07	Ruolo della IL-23 nella progressione della aterosclerosi carotidea Co-supervisor of Elisa Carpico	Medicina e Chirurgia (Master) Università degli Studi di Roma La Sapienza, Italy
2011/07/11 - 2013/07/10	Effetto pro-infiammatorio del 7-chetosterolo su macrofagi umani polarizzati in vitro: potenziale bersaglio terapeutico nell'aterosclerosi Supervisor of Luca Segoni	(Master) Italian National Institute of Health, Italy
2010/05/04 - 2011/07/10	Valutazione della capacità degli oxisteroli di attivare e polarizzare i macrofagi umani in vitro: possibile ruolo nella patogenesi dell'aterosclerosi". Supervisor of Luca Segoni	Biological Sciences Science (Degree) Università degli Studi di Roma La Sapienza, Italy

Event organisation

	Event name Type of event (Role)	Institution / Organization
2022/01/11 - 2022/01/12	BenBedPhar Online Scientific Marathon (2022) Meeting	

Ad Hoc journal article review

	Journal title (ISSN)	Publisher
2018 - Current	Plos one	Public Library of Science

2018 - Current	OMCL	Hindawi
2014 - Current	Journal of immunology	The American Association of Immunologists (AAI)

Association member

	Society Organization	Role
2021 - Current	EUROPASCUOLA- Europascuola è un'associazione no-profit che svolge attività culturali, di informazione, orientamento, formazione e placement diretti a far conoscere meglio l'Unione Europea a beneficio di istituzioni scolastiche o universitarie	
2005 - Current	The Ruggero Ceppellini Advanced School of Immunology	
2005 - Current	Italian Study Group of Biomaterials in Surgery	
2008 - 2020	European Atherosclerosis Society	
2009 - 2010	European Federation of Immunological Societies	
2009 - 2010	Società Italiana di Biochimica e Biologia Molecolare	
2009 - 2010	European Biochemical Societies	
1999 - 2009	Società italiana di immunologia, Immunologia Clinica e Allergologia	
1999 - 2005	Italian group of Cytometry	

Committee member

	Activity description Role	Institution / Organization
2021/11/05 - 2026/11/04	WG5 Leader COST action CA20121 "Bench to Bedside transition for Pharmacological regulation of NRF2 in non communicable diseases" https://benbedphar.org/	European Cooperation in Science and Technology, Belgium
	Coordinator	

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2017/05/14 - 2021	SSD BIO/15 Lectures in Pharmacovigilance of Nutraceutical Products. Master's Degree in "Stress, Sport and Nutrition" Sapienza University of Rome.	(Postgraduate Certificate)	Università degli Studi di Roma La Sapienza, Italy
2018/05/06 - 2019/05/05	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	(Laurea Specialistica)	Università degli Studi di Roma La Sapienza, Italy

Interview (newspaper / magazine)

	Activity description	Newspaper / Forum
2016	"Studi di biomonitoraggio e tossicità degli inquinanti presenti nel territorio di Taranto" – CCM 2013. Stakeholder, ISS and Italian Ministry of Health	

Mentoring / Tutoring

	Topic	Student name
2013 - Current	ERASMUS PLACEMENT 2013	Barbora Svobodová
2019/08/26 - 2019/09/30	European Molecular Biology Organization (EMBO) Short-Term Fellowship n. 8142	Sarmistha Saha
2013/01/05 - 2014/01/05	ERASMUS EXCHANGE	Elif Inci Ozturk
2013 - 2014	ERASMUS EXCHANGE 2013/2014	Amy Pearce
2011 - 2012	ERASMUS PLACEMENT 2011/2012	Carolina Barros de Almeida
2008 - 2009	Laurea Specialistica in Biotecnologie Farmaceutiche. Università degli Studi di Roma Sapienza	Giacomo Domenici
2006 - 2007	Laurea Specialistica in Scienze Biologiche, Università degli Studi di Roma Sapienza	Barbara Cuccu
2006 - 2007	Corso di Laurea in Biotecnologie Mediche, Molecolari e Cellulari,	Ursula Cesta Incani

Università degli Studi di Roma
La Sapienza

2004 - 2005	Laurea Specialistica in Scienze Biologiche, Università degli Studi di Roma La Sapienza	Mazzoli Cristina
1999 - 2000	Laurea Specialistica in Scienze Biologiche, Università degli Studi di Roma La Sapienza	Elena De Falco

Distinctions

Award

2017	EAS Travel Grant
2017	EAS Travel Grant European Atherosclerosis Society, Sweden
2016	"Pearls in Autoimmunity: Top Candidates for the MAI AWARD 2016" 10 International Congress on Autoimmunity, Germany
2009	Travel fund for IUBMB Advanced Course on "Mechanisms and Consequences of Free Radical-Mediated Oxidative Protein Modifications", Federation of European Biochemical Societies, United Kingdom
2007	EMBO Conference Young Researcher Travel Grant, European Network of Immunology Institute (ENII), Italy
2006	5th International Congress on Autoimmunity travel grant
2005	ERAB Young Investigators Award
2005	4th SIICA National Conference travel grant Società italiana di immunologia, Immunologia Clinica e Allergologia, Italy
2000	Immunobiology of Infectious Diseases workshop travel grant Società italiana di immunologia, Immunologia Clinica e Allergologia, Italy
2000	IX European Multicolloquium of Parasitology- EMOP 9 International Fellowship

For publication

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Code regarding personal data protection*

La sottoscritta dichiara di essere consapevole che il presente CV sarà pubblicato sul sito istituzionale dell'Ateneo, nella sez. Amministrazione Trasparente nelle modalità e per la durata prevista dal D. lgs 33/2013 art.15

f.to Dott.ssa Brigitta Buttari