


PERSONAL INFORMATION

Eugenio Barone *Pharm.D., Ph.D.*

 Department of Biochemical Sciences "A. Rossi Fanelli"
Sapienza University of Rome
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 N/A

 eugenio.barone@uniroma1.it

Sex M | Date of birth 16/11/1981 | Nationality Italian

WORK EXPERIENCE

From April 2015 -
present

Associate Researcher
Faculty of Health Sciences
Universidad Autonoma de Chile
Chile



From March 2014 -
present

Research Fellow
Department of Biochemical Sciences "A. Rossi-Fanelli"
Sapienza University of Rome
Rome, Italy

People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme (FP7/2007-2013)



From January 2012
– to January 2014

Post-doctoral Researcher
Brain Mind Institute,
Swiss Federal Institute of Technology (EPFL)
Lausanne, Switzerland



From December 2010
– to July 2011

Post-doctoral Researcher
Institute of Pharmacology
Catholic University School of Medicine
Rome, Italy



From January 2010
– to November 2010

Research Scholar
(a) Department of Molecular and Biomedical Pharmacology in the Sanders-Brown Center on Aging and
(b) Department of Chemistry, Laboratory of Neurochemistry
University of Kentucky,
Lexington, Kentucky, USA



<p>From May 2009 – to July 2009</p>	<p>Research Scholar Department of Pharmaceutical Sciences Faculty of Pharmacy University of Calabria Arcavacata di Rende (CS), Italy</p>	
<p>From June 2008 – to July 2008</p>	<p>Research Scholar Department of Pharmaceutical Sciences, Faculty of Pharmacy University of Calabria, Arcavacata di Rende (CS), Italy</p>	
<p>From November 2007 – to November 2010</p>	<p>Ph.D. Candidate in Neuroscience Institute of Pharmacology Catholic University School of Medicine Rome, Italy</p>	
<p>From May 2007 – to July 2007</p>	<p>Visiting Student Department of Pharmaceutical Sciences Faculty of Pharmacy University of Calabria Arcavacata di Rende (CS), Italy</p>	
<p>From September 2006 – to October 2007</p>	<p>Research Fellow Institute of Pharmacology Catholic University School of Medicine Rome, Italy</p>	
<p>From May 2005 – to May 2006</p>	<p>Exchange Student Institute of General Pathology Catholic University School of Medicine Rome, Italy</p>	
<p>From October 2004 – to Aprile 2005</p>	<p>Hospital Pharmacy Training Hospital Pharmacy Saint Francis of Paola Hospital Paola (CS), Italy</p>	
<p>From January 2004 – to June 2004</p>	<p>Visiting Student, ERASMUS Project Faculté de Pharmacie Université, Paris Descartes (Paris V) Paris, France</p>	

EDUCATION AND TRAINING

<p>July 2014</p>	<p>National Scientific Qualification as Associate Professor of Biochemistry</p>
<p>February 2011</p>	<p>Ph.D. in Neuroscience Institute of Pharmacology, Catholic University School of Medicine, Rome, Italy</p>

- December 2006 **Exam to be legally entitled for practicing the profession of Pharmacist**
Faculty of Pharmacy, University of Calabria, Arcavacata di Rende (CS), Italy
- May 2006 **Doctor in Pharmaceutical Chemistry and Technology (summa cum laude)**
Faculty of Pharmacy, University of Calabria, Arcavacata di Rende (CS), Italy
- February 2011 **Secondary School Diploma (100/100)**
Scientific Lyceum "G. Galilei", Paola (CS), Italy

PERSONAL SKILLS

Mother tongue Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A2	A2	A2	A2	A2
Ecole Polytechnique Fédérale de Lausanne					

PUBLICATIONS

1. Paola Palozza, **Eugenio Barone**, Cesare Mancuso, Nevio Picci. The protective role of carotenoids against 7-keto-cholesterol formation in solution. *Mol Cell Biochem*, 309: 61-68, 2008. [IF 2,38]
2. **Eugenio Barone**, Vittorio Calabrese and Cesare Mancuso. Ferulic acid and its therapeutic potential as a hormetin for age-related diseases. *Biogerontology*, 10(2): 97-108, 2009. [IF 3,01]
3. Mores Nadia, Errico Stefania, Pusateri Angela, **Barone Eugenio**, Mancuso Cesare. Heme oxygenase expression and activity in immortalized hypothalamic neurons GT1-7. *Neurosci Lett*, 444(1): 106-108, 2008. [IF 2,05]
4. Vittorio Calabrese, Carolin Cornelius, Cesare Mancuso, **Eugenio Barone**, Stella Calafato, Timothy Bates, Enrico Rizzarelli, Albena T. Dinkova Kostova. Vitagenes, dietary antioxidants and neuroprotection in neurodegenerative diseases. *Front Biosci*, 14: 376-97, 2009. [IF 4.25]
5. **Eugenio Barone**, Sonia Trombino, Roberta Cassano, Alessandro Sgambato, Barbara De Paola, Enrico Di Stasio, Nevio Picci, Paolo

- Preziosi, Cesare Mancuso. Characterization of the s-nitrosylating activity of bilirubin. *J Cell Mol Med*, 13: 2365-2375, 2009. [IF 3.70]
6. Cesare Mancuso, **Eugenio Barone**. Curcumin in clinical practice: myth or reality? *Trends Pharmacol Sci*, 30(7): 333-4, 2009. [IF 9.99]
 7. Cesare Mancuso, **Eugenio Barone**. Therapeutic use of tea derivatives: all that glitters is not gold. *Blood*, 114: 2359-60, 2009. [IF 9.77]
 8. Cesare Mancuso, **Eugenio Barone**. No therapeutic effect of dietary omega-3 fatty acid and curcumin in dementia and Alzheimer's disease. *J Neurosci*, eLetter ID jneuro_el; 21841 [IF 6,75]
 9. Cesare Mancuso, **Eugenio Barone**. The Heme Oxygenase/Biliverdin Reductase Pathway in Drug Research and Development. *Curr Drug Metab*, 10(6): 579-594, 2009. [IF 3.49]
 10. Stefania Errico, Rugia Shohreh, **Eugenio Barone**, Angela Pusateri, Nadia Mores, Cesare Mancuso. Heme oxygenase-derived carbon monoxide modulates gonadotropin-releasing hormone release in immortalized hypothalamic neurons. *Neurosci Lett*, 471(3): 175-178, 2010. [IF 2.05]
 11. Roberta Cassano, Sonia Trombino, Teresa Ferrarelli, **Eugenio Barone**, Vincenzo Arena, Cesare Mancuso, Nevio Picci. Synthesis, characterization and antiinflammatory activity of diclofenac-bound cotton fibers. *Biomacromolecules*, 11: 1716-1720, 2010. [IF 5.79]
 12. Anna Rita Fetoni, Cesare Mancuso, Sara L. Eramo, Massimo Ralli , Roberto Piacentini, **Eugenio Barone**, Gaetano Paludetti, Diana Troiani. In vivo protective effect of ferulic acid against noise-induced hearing loss in the guinea-pig. *Neuroscience*, 169: 1575-1588, 2010. [IF 3.33]
 13. Cesare Mancuso, Raffaella Siciliano and **Eugenio Barone**. Curcumin and Alzheimer disease: this marriage is not to be performed. *J Biol Chem*, 286: 1e(3), 2011. [IF 4.6]
 14. **Eugenio Barone**, Giovanna Cenini, Fabio Di Domenico, Sarah Martin, Rukhsana Sultana, Cesare Mancuso, Michael Paul Murphy, Elizabeth Head, D. Allan Butterfield. Long-term high-dose atorvastatin decreases brain oxidative and nitrosative stress in a preclinical model of Alzheimer disease: a novel mechanism of action. *Pharmacol Res*, 63: 172-180, 2011. [IF 3.97]
 15. **Eugenio Barone**, Fabio Di Domenico, Giovanna Cenini, Rukhsana Sultana, Chiara Cini, Paolo Preziosi, Marzia Perluigi, Cesare Mancuso, David Allan Butterfield. Biliverdin Reductase-A Protein Levels and Activity in the Brains of Subjects with Alzheimer Disease and Mild Cognitive Impairment. *Biochim Biophys Acta*, 1812: 480-487,

2011. [IF 5.09]

16. **Eugenio Barone**, Fabio Di Domenico, Giovanna Cenini, Rukhsana Sultana, Raffaella Coccia, Paolo Preziosi, Marzia Perluigi, Cesare Mancuso, David Allan Butterfield. Oxidative and Nitrosative Modifications of Biliverdin Reductase-A in the Brain of Subjects with Alzheimer Disease and Amnesic Mild Cognitive Impairment. *J Alzheimers Dis*, 25:623-633, 2011. [IF 3.61]
17. Fabio Di Domenico, Rukhsana Sultana, **Eugenio Barone**, Marzia Perluigi, Cesare Mancuso, Chiara Cini, Jian Cai, William M. Pierce and D. Allan Butterfield. Quantitative phosphoproteomics analysis of hippocampus brain region of Alzheimer Disease patients: Implication of aberrant phosphorylation pathways in the progression of the disease. *J Proteomics*, 74:1091-1103, 2011. [IF 3.93]
18. Raffaella Siciliano*, **Eugenio Barone***, Vittorio Calabrese, Vincenzo Rispoli, D. Allan Butterfield and Cesare Mancuso. Experimental research on nitric oxide and therapy of Alzheimer disease: a challenging bridge. *CNS Neurol Disord-DR*, 10:766-776, 2011. [IF 2.70]
19. D. Allan Butterfield, **Eugenio Barone** and Cesare Mancuso. Cholesterol-independent neuroprotective and neurotoxic activities of statins: perspective for statin use in Alzheimer disease and other age-related neurodegenerative disorders. *Pharmacol Res*, 64: 180-186, 2011. [IF 3.97]
20. D. Allan Butterfield, **Eugenio Barone**, Fabio Di Domenico, Giovanna Cenini, Rukhsana Sultana, Michael P. Murphy, Cesare Mancuso and Elizabeth Head. Atorvastatin Treatment in a Dog Preclinical Model of Alzheimer Disease Leads to Up-regulation of Heme Oxygenase-1 and Is Associated with Reduced Oxidative Stress in Brain. *Int J Neuropsychoph*, 15: 981-987, 2012. [IF 5.26]
21. Cesare Mancuso, Raffaella Siciliano, **Eugenio Barone**, D. Allan Butterfield and Paolo Preziosi. Pharmacologists and Alzheimer disease therapy: To boldly go where no scientist has gone before. *Exp Opin Inv Drug*, 20:1243-1261, 2011. [IF 5.43]
22. Sarah B. Martin, Giovanna Cenini, **Eugenio Barone**, Amy L.S. Dowling, Cesare Mancuso, D. Allan Butterfield, M. Paul Murphy, Elizabeth Head. Coenzyme Q10 and cognition in atorvastatin treated dogs. *Neurosci Lett*, 501:92-95, 2011. [IF 2.05]
23. Giovanna Cenini, Amy L.S. Dowling, Tina L. Beckett, **Eugenio Barone**, Cesare Mancuso, Michael Paul Murphy, Harry LeVine III, Frederick A. Schmitt, D. Allan Butterfield, Elizabeth Head. Association between frontal cortex oxidative damage and beta-amyloid neuropathology as a function of age in Down syndrome. *Biochim Biophys Acta*, 1822:130-138, 2011. [IF 5.09]

24. **Eugenio Barone**, Cesare Mancuso, Fabio Di Domenico, Rukhsana Sultana, M. Paul Murphy, Elizabeth Head, D. Allan Butterfield. Biliverdin Reductase-A: a Novel Drug Target for Atorvastatin in a Dog Preclinical Model of Alzheimer Disease. *J Neurochem*, 120: 135-146, 2012. [IF 4.24]
25. Cesare Mancuso, Raffaella Siciliano, **Eugenio Barone** and Paolo Preziosi Natural substances and Alzheimer's disease: from preclinical studies to evidence based medicine. *Biochim Biophys Acta*, 1822:616-624, 2012. [IF 5.09]
26. **Eugenio Barone**, Giovanna Cenini, Rukhsana Sultana, Fabio Di Domenico, Ada Fiorini, Marzia Perluigi, Teresa Noel, Chi Wang, Cesare Mancuso, Daret K. St. Clair, and D. Allan Butterfield. Lack of p53 Decreases Basal Oxidative Stress Levels in the Brain through Up-Regulation of Thioredoxin-1, Biliverdin Reductase-A, Manganese Superoxide Dismutase and Nuclear Factor-kappa B. *Antioxid Redox Signal*, 16:1407-1420, 2012. [IF 7.66]
27. Fabio Di Domenico, Rukhsana Sultana, Andrew Ferree, Katelyn Smith, **Eugenio Barone**, Marzia Perluigi, Raffaella Coccia, William Pierce, Jian Cai, Cesare Mancuso, Rachel Squillace, Manfred Wiengeler, Isabella Dalle-Donne, Benjamin Wolozin and D. Allan Butterfield. Redox Proteomics Analyses of the Influence of Co-expression of Wild Type or Mutated LRRK2 and Tau on *C. elegans* Protein Expression and Oxidative Modification: Relevance to Parkinson Disease. *Antioxid Redox Signal*, 17:1490-506, 2012. [IF 7.66]
28. Fabio Di Domenico, Gabriella Casalena, Jia Jia, Rukhsana Sultana, **Eugenio Barone**, Jian Cai, William M. Pierce, Chiara Cini, Cesare Mancuso, Marzia Perluigi, Catherine M. Davis, Nabil J. Alkayed and D. Allan Butterfield. Sex differences in brain proteomes of neuron-specific Stat3-null mice after cerebral ischemia/reperfusion. *J Neurochem*, 121:680-692, 2012. [IF 4.24]
29. **Eugenio Barone**, Fabio Di Domenico, Rukhsana Sultana, Raffaella Coccia, Cesare Mancuso, Marzia Perluigi, D. Allan Butterfield. Heme Oxygenase-1 Post-translational Modifications in the Brain of Subjects with Alzheimer Disease and Mild Cognitive Impairment. *Free Radical Bio Med*, 52:2292-2301, 2012. [IF 5.71]
30. Cesare Mancuso, **Eugenio Barone**, Pina Guido, Fiorella Miceli, Fabio Di Domenico, Marzia Perluigi, Rosaria Santangelo, Paolo Preziosi. Inhibition of lipid peroxidation and protein oxidation by endogenous and exogenous antioxidants in rat brain microsomes in vitro. *Neurosci Lett*, 518:101-105, 2012. [IF 2.05]
31. Fabio Di Domenico, **Eugenio Barone**, Cesare Mancuso, Marzia Perluigi, Annalisa Cociolo, Patrizia Mecocci, D. Allan Butterfield,

- Raffaella Coccia. HO-1/BVR-A system analysis in plasma from pAD and MCI subjects: a potential biochemical marker for the prediction of the disease. *J Alzheimers Dis*, 32:277-289, 2012. [IF 3.61]
32. Ada Fiorini, Rukhsana Sultana, **Eugenio Barone**, Giovanna Cenini, Marzia Perluigi, Cesare Mancuso, Jian Cai, Jon B Klein, Daret St. Clair, Allan Butterfield. Lack of p53 Affects the Expression of Several Brain Mitochondrial Proteins: Insights from Proteomics into Important Pathways Regulated by p53. *PlosOne*, 7: e49846, 2012. [IF 3.53]
 33. Sonia Trombino, Roberta Cassano, Teresa Ferrarelli, **Eugenio Barone**, Nevio Picci, Cesare Mancuso. Trans-ferulic acid-based solid lipid nanoparticles and their antioxidant effect in rat brain microsomes. *Colloids and Surfaces B: Biointerfaces*, 109:273– 279, 2013. [IF 4.28]
 34. Fabio Di Domenico, Marzia Perluigi, **Eugenio Barone**. Biliverdin Reductase-A correlates with inducible Nitric Oxide Synthase in atorvastatin-treated aged canine brain: implications for Alzheimer Disease. *Neural Regeneration Research*, 8: 1925-1937, 2013. [IF 0.23]
 35. **Eugenio Barone**, Elizabeth Head, D. Allan Butterfield. Biliverdin reductase-A: A novel drug target for atorvastatin in a dog preclinical model of Alzheimer's disease. *Free Radical Bio Med*, 53: S61, 2012. [IF 5.71]
 36. D. Allan Butterfield, Elizabeth Head and **Eugenio Barone**. Biliverdin reductase-A: A novel drug target for atorvastatin and relevance to statin-mediated reduced risk of developing Alzheimer's disease. *Alzheimers Dement*, 9: P548-P549, 2013. [IF 17.47]
 37. **Eugenio Barone**, Fabio Di Domenico, Cesare Mancuso, D. Allan Butterfield. The Janus face of the heme oxygenase/biliverdin reductase system in Alzheimer disease: It's time for reconciliation. *Neurobiol Dis*, 62: 144-159, 2014. [IF 5.20]
 38. **Eugenio Barone**, Fabio Di Domenico, D. Allan Butterfield. Statins more than cholesterol lowering agents in Alzheimer disease: their pleiotropic functions as potential therapeutic targets. *Biochem Pharmacol*, 88: 605-616, 2014. [IF 4.65]
 39. Marzia Perluigi, Gilda Pupo, Antonella Tramutola, Chiara Cini, Raffaella Coccia, **Eugenio Barone**, Elizabeth Head, D. Aallan Butterfield, Fabio Di Domenico. Neuropathological role of PI3K/Akt/mTOR axis in Down syndrome brain. *Biochimica et Biophysica Acta*, 1842: 1144-1153, 2014. [IF 5.09]
 40. D. Allan Butterfield, Fabio Di Domenico and **Eugenio Barone**. Elevated Risk of Type 2 Diabetes for Development of Alzheimer Disease: a Key Role for Oxidative Stress in Brain. *Biochimica et Biophysica Acta*, 1842: 1693-1706, 2014. [IF 5.09]

41. Fabio Di Domenico*, **Eugenio Barone***, Marzia Perluigi, D. Allan Butterfield. Antioxidant Strategy to Reduce Free Radical Species in Alzheimer Disease: An Update. *Expert Rev Neurother*, 22:1-22, 2014. [I.F. 2.83]
42. **Eugenio Barone**, Sebastien Mosser, Patrick C. Fraering. Inactivation of brain Cofilin-1 by age, alzheimer's disease and γ -secretase. *Biochimica et Biophysica Acta*, 1842:2500-2509, 2014. [IF 5.09]
43. Fabio Di Domenico, Gilda Pupo, Cesare Mancuso, **Eugenio Barone**, Francesca Paolini, Andrea Arena, Carla Blarzino, Frederick A. Schmitt, Elizabeth Head, D. Allan Butterfield and Marzia Perluigi. Bach1 overexpression in Down syndrome correlates with the alteration of the HO-1/BVR-A system: insights for transition to Alzheimer Disease. *J Alz Dis*, in press, 2014. [IF 3.61]
44. **Eugenio Barone** and D. Allan Butterfield. Insulin Resistance in Alzheimer Disease: Is Heme Oxygenase-1 an Achille's Heel? *Neurobiol Dis*, in press, 2015. [IF 5.20]

IF TOT	210.5
Average IF	4.78
H index (Scopus)	17
H index normalized# (2007-2015)	1.88
Citazioni TOT (Scopus)	736
Average Citations	16.72

<i>N paper TOT</i>	44
<i>N paper first author</i>	15
<i>N paper last author</i>	8
<i>N paper corresponding</i>	1

* authors equally contributed to this paper
 # H index divided by the academic seniority

ABSTRACTS

1. Mores Nadia, Mancuso Cesare, Errico Stefania, **Barone Eugenio**, Preziosi Paolo. Institute of Pharmacology, Catholic University School of Medicine, Largo Francesco Vito, 1 – 00168, Roma. *Heme oxygenase activity in immortalized hypothalamic neurons GT1-7*. 33th National Congress of the Italian Society of Pharmacology, June, 6 - June 9, 2007. Abstract n. 120.
2. **Eugenio Barone**, Pina Guido, Raffaella Siciliano, Alessia Lofaro and Cesare Mancuso. Institute of Pharmacology, Catholic University School of Medicine, Largo Francesco Vito, 1 – 00168, Roma. *Superiority of*

endogenous versus dietary antioxidant to prevent oxidative damage in rat brain. 34th National Congress of the Italian Society of Pharmacology, Rimini, October, 14 – October 17 2009. Abstract n. C-3/9/3.

3. **Eugenio Barone**¹, Sonia Trombino², Roberta Cassano², Pina Guido¹, Alessandro Sgambato³, Nevio Picci² and Cesare Mancuso¹. Institutes of ¹Pharmacology and ³General Pathology, Catholic University School of Medicine, Largo Francesco Vito, 1 – 00168 Roma; ²Department of Pharmaceutical Sciences, University of Calabria, 87036 Arcavacata di Rende (CS). *Bilirubin and nitric oxide interaction: the formation of a new chemical entity.* 34th National Congress of the Italian Society of Pharmacology, Rimini, October 14 – October 17 2009. Abstract n. P-2/8/2.
4. Giovanna Cenini^{a,1} **Eugenio Barone**^{a,b,1}, Fabio Di Domenico^a, Sarah Martin^c, Elizabeth Head^c, D. Allan Butterfield^a. ^aDepartment of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA; ^bInstitute of Pharmacology, Catholic University School of Medicine, Largo F. Vito, 1, 00168 Roma, Italy; ^cDepartment of Molecular and Biomedical Pharmacology, and Sanders-Brown Center on Aging University of Kentucky, Lexington, KY, USA; ¹Both the authors contributed equally. *Reduced CoQ10 in aged beagles chronically treated with atorvastatin (Lipitor).* 40th Annual Meeting Neuroscience 2010. San Diego (CA) USA, November 13 – November 17 2010.
5. Sarah Martin^a, **Eugenio Barone**^{b,c}, Giovanna Cenini^b, Amy L.S. Dowling^a, D.Allan Butterfield^b, Paul Marphy^a and Elizabeth Head^a. ^aDepartment of Molecular and Biomedical Pharmacology, and Sanders-Brown Center on Aging University of Kentucky, Lexington, KY, USA; ^bDepartment of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA; ^cInstitute of Pharmacology, Catholic University School of Medicine, Largo F. Vito, 1, 00168 Roma, Italy. *Cognitive deficits in atorvastatin treated dogs are associated with low levels of brain Coenzyme Q10 in aged beagles.* Fourth Annual Postdoctoral Poster Session. Lexington (KY) USA, November 15, 2010.
6. **E. Barone**¹, E. Head² and D. A. Butterfield³. ¹Institute of Pharmacology, Catholic University School of Medicine, Largo F.Vito,1, 00168 Rome, Italy; ²Department of Molecular and Biomedical Pharmacology, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA; ³Department of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA. *Long-term high-dose atorvastatin decreases brain oxidative and nitrosative stress in a preclinical model of Alzheimer disease: A novel mechanism of action.* 35th National Congress of the Italian Society of Pharmacology. Bologna, Italy, September 14-September 17, 2011. Abstract n. S-25/5.
7. R. Santangelo¹, C. Mancuso², S. Marchetti¹, **E. Barone**², R. Siciliano² and G.Fadda¹. Institutes of ¹Microbiology and ²Pharmacology, Catholic University School of Medicine, Rome, Italy. *Bilirubin: an endogenous*

- molecule with antiviral activity in vitro.* 35th National Congress of the Italian Society of Pharmacology. Bologna, Italy, September 14-September 17, 2011. Abstract n. P-11/5.
8. C. Mancuso¹, R. Siciliano¹, **E. Barone**¹, G. Minotti² and P. Preziosi¹.¹Institute of Pharmacology, Catholic University School of Medicine, Rome, Italy; ²Center for Integrated Research, Drug Sciences, University Campus Bio-Medico, Rome, Italy. *Bilirubin alters Fe(III)/Fe(II) ratio thus reducing lipid peroxidation in rat brain microsomes: a novel mechanism for the antioxidant role of bile pigments.* . 35th National Congress of the Italian Society of Pharmacology. Bologna, Italy, September 14-September 17, 2011. Abstract n. P-14/5.
 9. **Eugenio Barone**^{1,3}, Elizabeth Head² and D. Allan Butterfield³. ¹Brain Mind Institute, School of Life Sciences, Swiss Federal Institute of Technology (EPFL), Station 15 CH-101 Lausanne, Switzerland; ²Department of Molecular and Biomedical Pharmacology and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA; ³Department of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA. *Biliverdin Reductase-A: a Novel Drug Target for Atorvastatin in a Dog Preclinical Model of Alzheimer Disease.* 16th SFRRRI Biennial Meeting 6-9 September 2012, London, UK.
 10. F. Di Domenico¹, **E. Barone**², P. Mecocci³, C. Cini¹, D.A. Butterfield⁴. ¹Department of Biochemical Sciences, Sapienza University of Rome, 00185 Rome, Italy; ²Brain Mind Institute, School of Life Sciences Swiss Federal Institute of Technology (EPFL) Station 15, CH-1015 Lausanne, Switzerland; ³Institute of Gerontology and Geriatrics, University of Perugia, 06122 Perugia, Italy; ⁴Department of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA. *Analysis of HO-1/BVR post translational modifications as potential plasma biomarker of AD pathology.* 16th SFRRRI Biennial Meeting 6-9 September 2012, London, UK.
 11. Sonia Trombino¹, Roberta Cassano¹, Teresa Ferrarelli¹, **Eugenio Barone**², Cesare Mancuso² and Nevio Picci¹. ¹Department of Pharmacy, Health and Nutritional Sciences, University of Calabria, Arcavacata di Rende, Cosenza, Italy, ²Institutes of Pharmacology, Catholic University School of Medicine, Rome, Italy. *Trans-ferulic acid-based solid lipid nanoparticles and their antioxidant effects in rat brain microsomes.* 3rd Conference on: "Innovation in drug delivery: Advances in local drug delivery". 22-25 September 2013, Pisa, Italy
 12. Fabio Di Domenico¹, **Eugenio Barone**¹, Cesare Mancuso², Marzia Perluigi¹, Elizabeth Head³, D. Allan Butterfield^{3,4}. ¹Department of Biochemical Sciences, Sapienza University of Rome, Rome, Italy; ²Institute of Pharmacology, Catholic University School of Medicine, Rome, Italy; ³Sanders-Brown Centre of Aging; ⁴Department of Chemistry, University of Kentucky, Lexington (KY), USA. *Bach1 contributes to the OS-induced pathology in DS and AD through the inhibition of HO-1/BVR-A*

system. Alzheimer's disease in Down syndrome: from molecule to cognition. 27-29 March 2014, Cambridge, United Kingdom.

13. **Eugenio Barone**¹, Fabio Di Domenico¹, Andrea Arena¹, Tommaso Cassano², D. Allan Butterfield³ and Marzia Perluigi¹. ¹Department of Biochemical Sciences, Sapienza University of Rome, Roma, Italy, ²Department of Clinical and Experimental Medicine, University of Foggia, Foggia, Italy, ³Department of Chemistry, Center of Membrane Sciences, Markey Cancer Center, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA. *The interplay between oxidative stress and insulin resistance during ageing and Alzheimer disease. AD/PD 2015 - Mechanism, Clinical Strategies and Promising Treatments of Neurodegenerative Diseases. 18-22 March 2015, Nice, France.*

14. Marzia Perluigi¹, **Eugenio Barone**¹, Elizabeth Head², D. Allan Butterfield³ and Fabio Di Domenico¹. ¹Department of Biochemical Sciences, Sapienza University of Rome, Roma, Italy, ²Sanders-Brown Centre of Aging, University of Kentucky, Lexington (KY), USA; ³Department of Chemistry, Center of Membrane Sciences, Markey Cancer Center, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40506-0055, USA. *Bach1 overexpression in Down Syndrome correlates with the alteration of the HO-1/BVR-A system: insights for transition to Alzheimer Disease. AD/PD 2015 - Mechanism, Clinical Strategies and Promising Treatments of Neurodegenerative Diseases. 18-22 March 2015, Nice, France.*

BOOK CHAPTERS

1. Cesare Mancuso, Elizabeth Head, **Eugenio Barone**, Marzia Perluigi, Paolo Preziosi, D Allan Butterfield. Potential Therapeutic Effects of Statins in Alzheimer's Disease. In *Handbook of Neurotoxicity*, Springer New York, pp. 2339-2354, 2014

SCIENTIFIC ACTIVITY

- Since 2015 *Ad hoc reviewer* per Neurobiology of Disease, Cellular Physiology and Biochemistry
- 2014 Guest Editor for Current Alzheimer Research Thematic Issue entitled “ *Free Radical-induced Dysfunction of Proteins Involved in Cell Stress Response*”
- Since 2014 *Ad hoc reviewer* per BRAIN, FRBM
- Since 2013 Member of the Editorial Board of Neural Regeneration Research
- Since 2012 Young European Assessor, Italian Medicines Agency (AIFA)
- Since 2012 *Ad hoc reviewer* per Proteomics Clinical Application, Neural Regeneration Research, Advances in Alzheimer’s Disease, Advances in Aging Research
- Since 2011 *Ad hoc reviewer* per Biochemical Pharmacology, Neurochemical Research, BBA General Subjects
- Since 2010 Translation from English to Italian of the Chapter 60 of *Special Aspects of Geriatric Pharmacology - “Basic & Clinical Pharmacology”*. B.G. Katzung (ed.), 11th America Edition, Lange Med. Books, McGraw-Hill, New York.
- Since 2010 *Ad hoc reviewer* per Experimental Gerontology
- Since 2008 *Ad hoc reviewer* per Lipids

HONORS

- June 2013 EPHAR Fellowship Award
Federation of the European Pharmacological Society
- From December 2010 – to July 2011 Fellowship of the Catholic University of the Sacred Heart
“Istituto G. Toniolo di Studi Superiori”
- October 2010 Selected among the best young talents at the Catholic University School of Medicine, Rome, Italy, to participate at the Festival of Young Talents promoted by the Ministry of Youth
- June 2010 SFRBM Fellowship Awards
Society for Free Radical Biology and Medicine
- From January 2010 Fellowship of the Italian Society of Pharmacology

- to December 2010 Department of Chemistry – University of Kentucky

- From January 2010 Research fellowship financed by Regione Calabria for Master and
– to December 2010 Ph.D. training.
Department of Chemistry – University of Kentucky

- October 2009 Award for the best Poster presented by a young investigator.
34th National Congress of the Italian Society of Pharmacology

- From September 2006 Fellowship of the Catholic University of the Sacred Heart
– to October 2007 “Istituto G. Toniolo di Studi Superiori”

- From January 2004 Fellowship of the University of Calabria
– to June 2004

PROFESSIONAL MEMBERSHIPS

- Member of the Italian Society of Pharmacology (SIF)

- Member of Society for Free Radical Biology and Medicine (SFRBM)

- Member of the Italian Society of Biochemistry and Molecular Biology (SIB)

INVITED SPEAKER

- 2012 Society for Free Radical Research International, 16th SFRRRI Biennial Meeting 6-9 September 2012, London, UK.

- 2011 Il Farmaco: dalla Ricerca alla Salute dell’Uomo, 35th National Congress of the Italian Society of Pharmacology, Bologna, Italy, September 14 – September 17, 2011.

- 2009 Heme Oxygenases 2009, The 6th International Congress, Miami Beach, Florida, USA, September 30-October 4, 2009.

GRANTS

- 2014 Grant from Sapienza University of Rome – Progetti di Avvio alla Ricerca for the project: “The Heme Oxygenase-1/Biliverdin reductase-A system as novel therapeutic target for simvastatin treatment in Alzheimer” Principal Investigator

Disease”

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| 2014 | People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme (FP7/2007-2013) | Principal Investigator |
| 2014 | Grant from the Swiss National Science Foundation for the project: " <i>Identification of γ-secretase associated proteins</i> " | Scientific Collaborator |

PROFESSIONAL EXPERTISE

Spectrophotometry
 Preparation of subcellular organelles
 Cell cultures (CHO, HEK, MEF, mouse primary cortical neurons)
 Animal models for *in vivo* testing of anti-inflammatory drugs
 High Performance Liquid Chromatography (HPLC) – High Performance Liquid Chromatography/Mass Spectrometry (HPLC/MS)
 Molecular Biology: Western blot, Immunoprecipitation, Immunofluorescence, Immunohistochemistry
 Evaluation of Oxidative Stress Markers by using Slot blot technique
 Proteomics analysis

SCIENTIFIC COLLABORATIONS

Prof. D. Allan Butterfield, Department of Chemistry, University of Kentucky, Lexington, KY, USA
 Dr. Elizabeth Head, Center of Membrane Science, Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA
 Prof. Nevio Picci, Department of Pharmaceutical Sciences Faculty of Pharmacy - University of Calabria, Arcavacata di Rende (CS), ITALY
 Prof. Patrick Fraering, Brain Mind Institute, Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland
 Prof. Nadia Mores, Institute of Pharmacology, Catholic University School of Medicine, Rome, ITALY
 Prof. Joe Abisambra, Center of Membrane Science, Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA