

Curriculum Vitae

SALVATORE CUZZOCREA

Contatti

Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali
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Formazione

Università degli Studi di Messina: Dottorato di ricerca in Medicina Sperimentale, 1999

Università degli Studi di Messina: Laurea in Farmacia, 1995

Università Cattolica "Nostra Signora del Buon Consiglio"
Tirana – Università di Roma Tor Vergata Laurea congiunta in Medicina e Chirurgia 2015

Principali incarichi accademici

2011-ad oggi Professore ordinario di Farmacologia, Università degli Studi di Messina

2002-11 Professore associato di Farmacologia, Università degli Studi di Messina

1999-02 Ricercatore di Farmacologia, Università degli Studi di Messina

1998 PhD fellow in Experimental Medicine, Department of Biochemical Pharmacology at The William Harvey at The St. Bartholomew's and Royal London School of Medicine and Dentistry, London UK

1996-97 PhD fellow in Experimental Medicine, Division of Critical Care Medicine, Children's Hospital Medical Center, Cincinnati, USA.

Principali incarichi amministrativi

2013-2018 Prorettore alla Ricerca, Università degli Studi di Messina

2012-2015 Vice Direttore del Dipartimento di Scienze Biologiche ed Ambientali, Università degli Studi di Messina

2012-ad oggi Coordinatore del Corso di Dottorato di Ricerca in "Biologia Applicata e Medicina Sperimentale", Università degli Studi di Messina

2012-ad oggi Direttore dell'Unità Farmaci Antiblastici, Policlinico Universitario di Messina



2010-2012 Vice Direttore del Dipartimento di Clinico Sperimentale di Medicina e Farmacologia, Università degli Studi di Messina

Appartenenza a società scientifiche

dal 1997 ad oggi	Società Italiana di Farmacologia (SIF)
dal 1997 ad oggi	Società Italiana di Tossicologia (SITOX)
dal 1997 ad oggi	American Shock Society
dal 1997 ad oggi	European Association of Biomedical Research
dal 1998 ad oggi	European Shock Society
dal 1999 ad oggi	British Pharmacological Society
dal 1999 ad oggi	International Endotoxin Society
dal 1999 ad oggi	Society of Leukocyte Biology
dal 2000 ad oggi	Italian Society of Cardiovascular Research
dal 2000 ad oggi	Molecular Medicine Society
dal 2006 ad oggi	European Society for Free Radical Research
dal 2007 ad oggi	Italian Society of Neuroscience (SIN)
dal 2007-2009	President-elected, European Shock Society (ESS)
dal 2009-2011	President, European Shock Society (ESS)
dal 2011-ad oggi	Past-President, European Shock Society (ESS)
dal 2011-ad oggi	Board Member, Italian Society of Pharmacology (SIF)
dal 2015-ad oggi	Member, steering committee of the International Association of Inflammation Societies (IAIS)

Finanziamenti alla ricerca

2015	Prin "Attività antinfiammatoria dei Glucocorticoidi: nuovi mediatori e regolazione dell'attività dei linfociti T"
2012	Prin "Nuovi target farmacologici per il trattamento del dolore cronico: coinvolgimento del sistema immuno-infiammatorio periferico e centrale"



- 2011 PON 02512 "Ricerca e Sviluppo di bioregolatori attivi sui meccanismi epigenetici dei processi infiammatori nelle malattie croniche e degenerative (BIAM-EPI)"
- 2009 Evaluation of the efficacy of ibuprofen-arginine in inflammation and role of Nitric Oxide
- 2008 A Step-Wise Evaluation of CR 3294 as a putative protective agent in a mice model of cerulein-induced pancreatitis
- 2008 Prin "Ruolo degli eicosanoidi e del monossido di azoto nello stato di attivazione dei macrofagi nelle patologie autoimmuni e neoplastiche"
- 2007-2009: Implementation of endogenous neurogenesis and gliogenesis via the purinergic system: a new strategy to repair acute neurodegenerative diseases
- 2007-2008 Effects of human recombinant activated protein C on markers of inflammation and apoptosis in cerulein-induced murine acute pancreatitis
- 2007-2008 in vivo Essays of anti-inflammatory and protective vascular activity of Centella asiatica cell cultures extracts
- 2006-2008 Role of Glucocorticoid-Induced Leucine Zipper gene (GILZ) in regulating of acute and chronic inflammatory response
- 2006-2008 ROLE of A2A and P2receptor in secondary damage associated to spinal cord injury
- 2006 Prin "Ruolo di GILZ nella regolazione della risposta infiammatoria acuta e cronica"
- 2005-2006 Study of Cloricromene, new features and new drug applications in the field of ophthalmologic
- 2004-2006 "Purinoreceptors and neuroprotection"
- 2004 Inhibition of NFkB: a new pharmacological approach in the treatment of periodontitis
- 2003-2005 T lymphocyte/dendritic cell interaction in autoimmune/inflammatory diseases: role of GILZ, a member of the TNF receptor superfamily
- 2003 Role of Tyrphostin AG126 on Endothelial damage associated with ischemia and reperfusion
- 2003 Prin "Ruolo del Glucocorticoid-Induced Leucine Zipper gene (GILZ) nella regolazione della risposta infiammatoria acuta e cronica"
- 2002 Role of Calpain inhibitor I on Endothelial damage associated with ischemia and reperfusion from the University of Messina
- 2001 Inhibition of NFkB: a new pharmacological approach in acute and chronic inflammation?



- 2001 Prin "Ruolo di il-6 ed il-10 nella disfunzione endoteliale"
- 2000 Prin "Ruolo del perossinitrito e del nitrossido nella induzione delle molecole di adesione di origine endoteliale (P-selettina, E-selettina, ICAM-1 e VCAM-1) nel processo infiammatorio acuto"

Incarichi di ricerca ed insegnamenti all'estero

- 2014-ad oggi: Adjuvant Professor at University of Saint Louis, USA
- 2011-ad oggi: Honorary Professor in Pharmacology at the University of Manchester UK
- 2001-ad oggi: Honorary Lecturer in Pharmacology at the Department of Experimental Medicine and Nephrology" at The William Harvey at The St. Bartholomew's and Royal London School of Medicine and Dentistry.

Riconoscimenti nazionali ed internazionali

- 2017-ad oggi: Fellow of British Pharmacological Society
- 2010: Winner Prize Valsalva-Italian Society of Cardiovascular Researches
- 2008: Winner Galeno Prize 2008.
- 2000: Winner of "Travel Grant Awards" BPS/SIF, Birmingham, Inghilterra.
- 2000: Winner of "Best paper in Toxicology 1999" Italian Society of Toxicology, XII National Congress of Toxicology, Bologna, Italia,
- 1999: Winner of "Pharmalink/ European Shock Society Research Awards" 7th Vienna Shock Forum, Vienna Austria.
- 1999: Winner of "Travel Grant Awards" 2nd European Congress of Pharmacology, Budapest, Ungheria
- 1999: Winner of "Travel Grant Awards" XXIX National Congress Of Italian Society of Pharmacology, Firenze, Italia
- 1999: Winner of "Travel Grant Awards" Joint meeting of the French and Italian Societies of Pharmacology, Nantes, Francia
- 1998: Winner of Prize "Linus Pauling Award Biomedicina 98" Special Mention in Pharmacology al Biomedicine Congress '98 Meeting on Molecular Medicine Firenze, Italia
- 1998: Winner of Prize "Young Investigator Award" 8st Congress of the European Shock Society, La Hulpe, Belgio



1998: Prize Study of "National Center of Research" Roma, for studies conducted on Department of Biochemical Pharmacology at The William Harvey at The St. Bartholomew's and Royal London School of Medicine and Dentistry

1998: Winner of "Travel Grant Awards" The 6th Joint meeting of the Italian, Hungarian and Polish Pharmacological Society

1998: Winner of "Travel Grant Awards" 53th Work-shop: Melatonin and its Analogues: from Molecular Biology to the Clinical Application

1997: Prize of Studio della "Italian Society of Pharmacology" Roma

1995: Gionco Prize (Verona 13-16 Maggio 1996)

Conferenze su invito – Nazionali ed Internazionali

2018: I "nuovi" bersagli: le cellule non neuronali CORSO AISD FOCUS DAY # 4 IL DOLORE POST OPERATORIO DELL'ANZIANO Roma, 13 gennaio

2018: Neuroinflammation in Epilepsy: the role of non-neuronal cells. UPDATE IN EPILETTOLOGIA, Padova, 10 febbraio

2017: Farmacologia del sistema endocannabinoide, 40 congresso nazionale AISD, Roma, 9 giugno

2017: La neuroinfiammazione nelle patologie del sistema nervoso centrale, Il congresso nazionale ANEU IRCCS San MARTINO - Padiglione IST Nord Genova, 15-17 giugno 2017

2017: NAC and colistin in combination: the reason to believe, advisory board meeting Focus on topical n-acetylcysteine in respiratory infections Napoli 22 giugno

2017: Neuroinfiammazione e stress ossidativo: ruolo nelle malattie del Sistema Nervoso Centrale, Neuroinfiammazione e stress ossidativo: ruolo nelle malattie del Sistema Nervoso Centrale, Cinisello Balsamo 29 settembre

2017: Inflammation, a key event in development of neurodegenerative diseases, 13th congress of inflammation , Londra Luglio 8-12

2017: "I nuovi" meccanismi: ruolo delle cellule non neuronali. INCONTRI di MEDICINA del DOLORE, 22 settembre Padova

2017: Inflammogenesi negli eventi secondari del trauma midollare Convegno "La ricerca sulla lesione al midollo spinale: trattamenti e proposte di cura nel panorama scientifico attuale" 6 ottobre Ospedale Metropolitano Niguarda Milano

2017: Pharmacogenetics of airway obstruction and bronchodilators. International Symposium on: Pharmacology and therapeutics of broncodilators , Tor Vergata Roma, 21 ottobre

2017: Instillazione di adelmidrol e acido ialuronico nel trattamento della neuro infiammazione vescicale: un modello traslazionale, convegno regionale auro, Milano Marittima, 27-28 ottobre



2017: New treatment strategies: monoclonal Abs for the Th2 pathway, 38° Congresso Nazionale SIF Rimini, 25-28 Ottobre

2017: Autismo e neuroinfiammazione: efficacia del PEALut (Gliolia) su modello animale, 2nd European Conference of Biomedical Research and Treatments of Autism, Bari 10 Novembre

2017: Il trattamento della neuroinfiammazione a livello del SNC mediante la modulazione delle cellule non neuronali, II CONGRESSO AINAT SICILIA Catania 17 novembre

2017: Dalla Neuroinfiammazione pelvica cronica alla Neurodegenerazione centrale: il ruolo-ponte del cross-talk tra cellule non-neuronali, XII Congresso Regionale Catania 26 - 27 – 28 Novembre 2017

2017: Neuroinfiammazione e stress ossidativo: ruolo nelle malattie del Sistema Nervoso Centrale, infiammazione nelle patologie neurologiche, 29 settembre Cinisello Balsamo

2017: Efficacia dell' associazione di Adelmidrol e Acido Ialuronico in situazioni di neuroinfiammazione vescicale, ALS , Giussano 13 ottobre

2016: Nuove visioni nel controllo farmacologico dei processi neuroinfiammatori associati ad ictus e a malattie neurodegenerative, Neuroinfiammazione e Ictus: Nuove frontiere di terapia 30 aprile Viterbo

2016: Nuove prospettive terapeutiche, XLVII congresso societa' italiana di neurologia Venezia, 22-25 ottobre

2016: Concetti di neurofarmacologia clinica nell'anziano, XLVII congresso societa' italiana di neurologia Venezia, 22-25 ottobre

2016: Dal vitro al vivo: quali le nuove strategie terapeutiche nel controllo della neuroinfiammazione e neurodegenerazione, 56 Congresso Nazionale SNO Catania 18-21 maggio

2016: Il dolore dell'anziano: ruolo della neuro infiammazione ? Seminario invernale del Consiglio Direttivo AIP 29-30 gennaio Kolpinghaus Bozen, Bolzano

2016: Neuroinflammatory pathway: role of neuronal and non-neuronal cells in PNS and CNS, 45th Annual Meeting EHRS, 11-14 maggio Firenze

2016: Interrelation of "neurogenic neuroinflammation" and oxidative stress: role in neurodegenerative diseases, 1st Challenges in inflammation meeting, 30 marzo-1 aprile, Firenze

2015: glial control of neuroinflammation in traumatic central nervous system injuries: role of fatty acid ethanol amides, International Congress on Immunopharmacology (Immunopharmacology 2015), 14-19 giugno

2015: Oltre le molecole biotecnologiche: i farmaci inibitori di chinasi quali terapie bersaglio-specifiche per le malattie infiammatorie immuno-mediate Congresso Nazionale La Terapia Farmacologica delle Malattie Infiammatorie Immuno-Mediate: dai Trattamenti Convenzionali ai Farmaci Biotecnologici Bologna 5-7 marzo



- 2015: Nutraceutical agents: role in neuroinflammation and neurodegeneration, Ettore Majorana Foundation and centre for scientific culture, 28 settembre Erice
- 2015: Quale risposta farmacologica alla neuro infiammazione ? X Convegno Triveneto dei centri di terapie del dolore e cure palliative, Padova 13-14 novembre
- 2015: Il controllo farmacologico dei processi neuroinfiammatori nello sviluppo delle malattie neurodegenerative, XLVI congresso società italiana di neurologia, Genova, 10-13 Ottobre
- 2015: Mechanism of action of novel small molecules in immunoinflammatory disease, 37° Congresso Nazionale della Società Italiana di Farmacologia I nuovi orizzonti della ricerca farmacologica: tra etica e scienza napoli 27 - 30 ottobre 2015
- 2014: "Central effects of HIV/HCV drugs" Int. Symposium PsychoNeuroEndocrinology catania 4 aprile
- 2014: "Meccanismi della depressione associata a processi di neuroinfiammazione "14° Congresso Nazionale Associazione Italiana di Psicogeriatrics 9-12 aprile Firenze 2014
- 2014: "Il punto sulla sperimentazione animale" XIII Congresso Nazionale SSFA Roma 31 marzo-1 aprile
- 2014: "Depressione e Neuroinfiammazione" 37° Congresso Siciliano di Geriatrics Patti 3 ottobre 2014
- 2014: "La neuro infiammazione modello traslazionale per la neuro degenerazione "persona ad alta complessità (pac). Malattie neurodegenerative e comorbidità. Sala Conferenze "ITEL Telecomunicazioni", Ruvo di Bari (Puglia)
- 2014: "Il cross-talk tra cellule non neuronali: "pathogenetic track" nella neuro infiammazione" Incontri di Medicina del Dolore-9ª Riunione dei Centri di Terapia del Dolore e Cure palliative del triveneto
- 2013: "Nuove prospettive farmacologiche nel controllo della neuro-infiammazione nel Sistema Nervoso Centrale" XIII Convegno Nazionale della Società Italiana di Neurogeriatrics
- 2013: "Modulazione dell'attività infiammatoria nel recupero funzionale motorio" VII Congresso Nazionale "Società Italiana Riabilitazione di Alta Specializzazione" roma
- 2013: "Malattie Neurodegenerative "XLIII Congresso della Società Italiana di Neurologia Rimini
- 2012: "Nuclear receptors as new targets for inflammation" 6th European Congress of Pharmacology-july 17-20 Granada
- 2012: " Modelli farmacologici potenzialmente "traslabili" verso la Clinica" XLIII Congresso della Società Italiana di Neurologia Rimini, 6 – 9 Ottobre
- 2012: "Mast cell modulation and pain: a challenging perspective on PNS and CNS" New trends in pain research From Basic Research to Clinical Translation- Parghelia (VV), Calabria, Italy 13th-15th September

2007: "Role of Glucocorticoid-Induced TNFR Related Gene (GITR) in the regulation of Inflammatory Response during Acute and Chronic Inflammation" The William Harvey Research Institute, St. Bartholomew's and The Royal London School of Medicine and Dentistry, Charterhouse Square, London, United Kingdom.

2007: "Etanercept Attenuates The Development Of Cerulein-Induced Acute Pancreatitis In Mice. A Comparison With Tnf-A Genetic Deletion." 7th world congress on trauma, shock, inflammation and sepsis (tsis 2007)- interdisciplinary summit on inflammation march 13th-17th 2007 Munich Germany

2007: hydrogen sulfide in disease. 7th world congress on trauma, shock, inflammation and sepsis (tsis 2007)- interdisciplinary summit on inflammation march 13th-17th 2007 Munich Germany

2005: "Peroxisome Proliferator-Activated Receptors (PPARs) in Autoimmune Disease" School of Medicine, University of Perugia, Perugia, Italy.

2004: "Role of ROS in inflammation, shock and ischemia and reperfusion" Faculty of Pharmacy, University of Calabria, Catanzaro, Italy.

2004: "Pharmacological action of PPAR-alfa ligands in acute and chronic inflammation" 2nd International Congress of Pharmacology and Therapeutics, Havana, Cuba.

2004: "Role of ROS in inflammation, shock and ischemia and reperfusion" 2nd International Congress of Pharmacology and Therapeutics, Havana, Cuba.

2003: "Role of Nitric Oxide in acute and chronic inflammation" Bio-Medical Applications of Biotechnology, Havana, Cuba.

2003: "Role of Free Radicals in inflammation, shock and ischemia and reperfusion" International Agency for Research on Cancer (IARC), Lyon, France.

2003: "Prospectives of antioxidant therapy in the critically ill" Sektion Anesthesiologische Pathophysiologie und Verfahrensentwicklung, Universitätsklinik für Anesthesiologie, Universität Ulm, Ulm, Germany.

2002: "Beneficial Effects of new SOD mimetics in acute and chronic inflammation" Faculty of Pharmacy, University of Salerno, Salerno, Italy.

2002: "Role of Free Radicals in inflammation, shock and ischemia and reperfusion" Faculty of Pharmacy, University of Salerno, Salerno, Italy.

2000: "Antioxidant Properties of Endogenous and exogenous melatonin" The second International Conference on Basic Science and Advanced Technology, Assiut, Egitto.

1999: "Endogenous and exogenous melatonin" International Symposium: Receptor and non-receptor mediated action of Melatonin", Hong Kong, Cina.

1999: "Role of peroxynitrite and Poly (ADP-Ribose) synthetase (PARS) in inflammation and Shock. St. Louis University, St Louis, USA.



1999: "SOD mimetic in Inflammation and Shock" Metaphore Pharmaceuticals, St Louis, USA.

1998: "Free Radical and shock" Ludwig-Boltzmann-Institut for Experimental and Clinical Traumatology, Vienna, Austria.

1998: "Role of interleukin-6 in inflammation" The William Harvey Research Institute, St. Bartholomew's and The Royal London School of Medicine and Dentistry, Charterhouse Square, London, United Kingdom.

1998: "Melatonin and Inflammation" Department of Cellular and Structural Biology. The University of Texas at San Antonio Texas USA.

Referee scientifico

European Journal of Pharmacology - Life Science - J. Pineal Research - Inflammation Research - British J. Pharmacology - Cardiovascular Research - Am J Resp. Crit Care – Gut – Shock - Physiology and Behavior - Archives of Biochemistry and Biophysics - Pharmacological Research – Digestive Disease of Science- Current Medicinal Chemistry Anti-Infective & Anti-Allergy Agents - American J. Pathology - European Respiratory Journal - Intensive Care Medicine - Medical Science Monitoring- Journal of Hepatology - Cytokine – Critical Care Medicine – Journal of Autonomic Nervous system – Brain Research – Circulation – Gastroenterology - Blood Coagulation & Fibrinolysis – Endocrinology- Calcified Tissue International. – J. Surgical Research - Journal of Pharmacology and Experimental Therapeutics – Am. J Physiol Gast. and Liver - Journal of Neurochemistry- Anesthesia & Analgesia - Experimental Physiology - Pediatric Research- Rheumatology – Carcinogenesis - Neuroscience Letters - Free Radical Research- Journal of Dental Research - Pharmacology, Biochemistry and Behavior – European Journal of Histochemistry - Future Rheumatology- Chinese Journal of Physiology- Redox Report-Neurochemistry International- Chemico-Biological Interactions - BMC Pharmacology – Neuropharmacology - International Immunopharmacology - Spinal Cord - Cell Proliferation - Histology and Histopathology - BMC Complementary and Alternative Medicine - Tohoku J. Exp. Med – Immunobiology - Cell. Mol. Biol. Lett- Neurochemical Research - Immunology Letters - Archives of Orthopaedic and Trauma Surgery - Journal of Cardiovascular Pharmacology – Future Medicine – Immunobiology – Journal of Cellular and Molecular Medicine - Current Medicinal Chemistry – Central Nervous System Agents - BMC Neuroscience - Journal Methods and Findings in Experimental and Clinical Pharmacology - Regulatory Peptides

Editor/Associate Editor

JPET; PLOS ONE; SHOCK; Frontiers in Pharmacology

Partecipazione a comitati e commissioni ospedaliere

Comitato etico "Azienda ospedaliera di Palmi"

Direttore dell'Unità Farmaci Antiblastici- Policlinico Universitario di Messina

Comitato etico tutela degli animali -Università degli Studi di Messina



Attività di revisore
PRIN ; FIRB ; SIR (MIUR); Ricerca Finalizzata

Lavori in extenso su riviste internazionali con impact factor

1. Calapai G, Mazzaglia G, Sautebin L, Costantino G, Marciano M C, Cuzzocrea S, Di Rosa M, & Caputi A P. Inhibition of nitric oxide formation reduces voluntary ethanol consumption in the rat. *Psychopharmacology (Berl)*.1996.
2. Zingarelli B, Cuzzocrea S, Zsengeller Z, Salzman A L, & Szabo C. Protection against myocardial ischemia and reperfusion injury by 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthetase. *Cardiovasc Res*.1997.
3. Szabo C, Lim L H, Cuzzocrea S, Getting S J, Zingarelli B, Flower R J, Salzman A L, & Perretti M. Inhibition of poly (ADP-ribose) synthetase attenuates neutrophil recruitment and exerts antiinflammatory effects. *J Exp Med*.1997.
4. Szabo C, Cuzzocrea S, Zingarelli B, O'Connor M, & Salzman A L. Endothelial dysfunction in a rat model of endotoxic shock. Importance of the activation of poly (ADP-ribose) synthetase by peroxynitrite. *J Clin Invest*.1997.
5. Southan G J, Gauld D, Lubeskie A, Zingarelli B, Cuzzocrea S, Salzman A L, Szabo C, & Wolff D J. Inhibition of nitric oxide synthase with pyrazole-1-carboxamide and related compounds. *Biochem Pharmacol*.1997.
6. Purello D'Ambrosio F, Savica V, Gangemi S, Ricciardi L, Bagnato G F, Santoro D, Cuzzocrea S, & Bellinghieri G. Ethylene oxide allergy in dialysis patients. *Nephrol Dial Transplant*.1997.
7. Purello D'Ambrosio F, Gangemi S, Ricciardi L, Cuzzocrea S, & Di Lorenzo G. Lodoxamide versus spaglumic acid: a comparative double-blind trial on patients suffering from seasonal allergic conjunctivitis induced by Parietaria pollen. *Allergol Immunopathol (Madr)*.1997.
8. Nava F, Calapai G, Facciola G, Cuzzocrea S, Marciano M C, De Sarro A, & Caputi A P. Effects of interleukin-10 on water intake, locomotory activity, and rectal temperature in rat treated with endotoxin. *Int J Immunopharmacol*.1997.
9. Nava F, Calapai G, Facciola G, Cuzzocrea S, Giuliani G, De Sarro A, & Caputi A P. Melatonin effects on inhibition of thirst and fever induced by lipopolysaccharide in rat. *Eur J Pharmacol*.1997.
10. Gilad E, Cuzzocrea S, Zingarelli B, Salzman A L, & Szabo C. Melatonin is a scavenger of peroxynitrite. *Life Sci*.1997.
11. Cuzzocrea S, Zingarelli B, Sautebin L, Rizzo A, Crisafulli C, Campo G M, Costantino G, Calapai G, Nava F, Di Rosa M, & Caputi A P. Multiple organ failure following zymosan-induced peritonitis is mediated by nitric oxide. *Shock*.1997.
12. Cuzzocrea S, Zingarelli B, O'Connor M, Salzman A L, Caputi A P, & Szabo C. Role of peroxynitrite and activation of poly (ADP-ribose) synthase in the vascular failure induced by zymosan-activated plasma. *Br J Pharmacol*.1997.
13. Cuzzocrea S, Zingarelli B, Gilad E, Hake P, Salzman A L, & Szabo C. Protective effect of melatonin in carrageenan-induced models of local inflammation: relationship to its inhibitory effect on nitric oxide production and its peroxynitrite scavenging activity. *J Pineal Res*.1997.
14. Cuzzocrea S, Zingarelli B, Costantino G, Szabo A, Salzman A L, Caputi A P, & Szabo C. Beneficial effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthetase in a rat model of splanchnic artery occlusion and reperfusion. *Br J Pharmacol*.1997.
15. Cuzzocrea S, Zingarelli B, Calapai G, Nava F, & Caputi A P. Zymosan-activated plasma induces paw oedema by nitric oxide and prostaglandin production. *Life Sci*.1997.



16. Cuzzocrea S, Tailor A, Zingarelli B, Salzman A L, Flower R J, Szabo C, & Perretti M. Lipocortin 1 protects against splanchnic artery occlusion and reperfusion injury by affecting neutrophil migration. *J Immunol*.1997.
17. Cuzzocrea S, Filippelli A, Zingarelli B, Falciani M, Caputi A P, & Rossi F. Role of nitric oxide in a nonseptic shock model induced by zymosan in the rat. *Shock*.1997.
18. Zingarelli B, Virag L, Szabo A, Cuzzocrea S, Salzman A L, & Szabo C. Oxidation, tyrosine nitration and cytostasis induction in the absence of inducible nitric oxide synthase. *Int J Mol Med*.1998.
19. Zingarelli B, Cuzzocrea S, Szabo C, & Salzman A L. Mercaptoethylguanidine, a combined inhibitor of nitric oxide synthase and peroxynitrite scavenger, reduces trinitrobenzene sulfonic acid-induced colonic damage in rats. *J Pharmacol Exp Ther*.1998.
20. Virag L, Scott G S, Cuzzocrea S, Marmer D, Salzman A L, & Szabo C. Peroxynitrite-induced thymocyte apoptosis: the role of caspases and poly (ADP-ribose) synthetase (PARS) activation. *Immunology*.1998.
21. Szabo C, Virag L, Cuzzocrea S, Scott G S, Hake P, O'Connor M P, Zingarelli B, Salzman A, & Kun E. Protection against peroxynitrite-induced fibroblast injury and arthritis development by inhibition of poly(ADP-ribose) synthase. *Proc Natl Acad Sci U S A*.1998.
22. Luongo C, Imperatore F, Cuzzocrea S, Filippelli A, Scafuro M A, Mangoni G, Portolano F, & Rossi F. Effects of hyperbaric oxygen exposure on a zymosan-induced shock model. *Crit Care Med*.1998.
23. Cuzzocrea S, Zingarelli B, Villari D, Caputi A P, & Longo G. Evidence for in vivo peroxynitrite production in human chronic hepatitis. *Life Sci*.1998.
24. Cuzzocrea S, Zingarelli B, O'Connor M, Salzman A L, & Szabo C. Effect of L-buthionine-(S,R)-sulphoximine, an inhibitor of gamma-glutamylcysteine synthetase on peroxynitrite- and endotoxic shock-induced vascular failure. *Br J Pharmacol*.1998.
25. Cuzzocrea S, Zingarelli B, Hake P, Salzman A L, & Szabo C. Antiinflammatory effects of mercaptoethylguanidine, a combined inhibitor of nitric oxide synthase and peroxynitrite scavenger, in carrageenan-induced models of inflammation. *Free Radic Biol Med*.1998.
26. Cuzzocrea S, Zingarelli B, Gilad E, Hake P, Salzman A L, & Szabo C. Protective effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthase in a carrageenan-induced model of local inflammation. *Eur J Pharmacol*.1998.
27. Cuzzocrea S, Zingarelli B, Costantino G, & Caputi A P. Protective effect of melatonin in a non-septic shock model induced by zymosan in the rat. *J Pineal Res*.1998.
28. Cuzzocrea S, Zingarelli B, & Caputi A P. Role of peroxynitrite and poly (ADP-ribose) synthetase on cellular energy depletion in carrageenan-induced pleurisy. *J Chemother*.1998a.
29. Cuzzocrea S, Zingarelli B, & Caputi A P. Peroxynitrate-mediated DNA strand breakage activates poly(ADP-ribose) synthetase and causes cellular energy depletion in a nonseptic shock model induced by zymosan in the rat. *Shock*.1998b.
30. Cuzzocrea S, Zingarelli B, & Caputi A P. Role of constitutive nitric oxide synthase and peroxynitrite production in a rat model of splanchnic artery occlusion shock. *Life Sci*.1998c.
31. Cuzzocrea S, Zingarelli B, & Caputi A P. Role of peroxynitrite and poly (ADP-ribosyl) synthetase activation in cardiovascular derangement induced by zymosan in the rat. *Life Sci*.1998d.
32. Cuzzocrea S, Costantino G, & Caputi A P. Protective effect of melatonin on cellular energy depletion mediated by peroxynitrite and poly (ADP-ribose) synthetase activation in a non-septic shock model induced by zymosan in the rat. *J Pineal Res*.1998.
33. Cuzzocrea S, Caputi A P, & Zingarelli B. Peroxynitrite-mediated DNA strand breakage activates poly (ADP-ribose) synthetase and causes cellular energy depletion in carrageenan-induced pleurisy. *Immunology*.1998.



34. Costantino G, Cuzzocrea S, Mazzon E, & Caputi A P. Protective effects of melatonin in zymosan-activated plasma-induced paw inflammation. *Eur J Pharmacol.*1998.
35. Cuzzocrea S, de Sarro G, Costantino G, Mazzon E, Laura R, Ciriaco E, de Sarro A, & Caputi A P. Role of interleukin-6 in a non-septic shock model induced by zymosan. *Eur Cytokine Netw.*1999.
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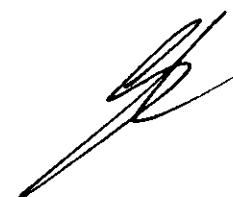


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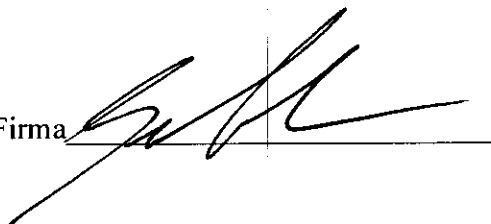
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