CURRICULUM VITAE

Lorella Maria Teresa Canzoniero, MD PhD

FIRST NAME: **Lorella Maria Teresa**

LAST NAME: **Canzoniero**

CURRENT POSITION: Full Professor in Pharmacology (BIO/14)

ADDRESS: Department of Science and Technology
University of Sannio
Via F deSanctis snc , Benevento (Italy)

EDUCATION

October 1986: Medical Degree (110/110) School of Medicine, University of Naples,Federico II Italy

1993 PhD in Endocrinology and Metabolic Sciences , University of L'Aquila-Chieti , Italy

ACADEMIC APPOINTMENTS

1991-1996 Research Associate in Neurology Dept. of Neurology, School of Medicine, Washington University, St. Louis, MO,USA

1997-1998 Research Instructor in Neurology, Department of Neurology, CSNSI, Washington University, St Louis, USA

1998-2001 Research Assistant Professor in Neurology, Department of Neurology, CSNSI, Washington University, St Louis, USA

2001-2016 Associate Professor in Pharmacology, University of Sannio, Benevento, Italy

Dec 2016 -… Full Professor in Pharmacology, University of Sannio, Benevento, Italy

June-Sept 2002 Visiting Professor, Washington University St Louis, MO (Lab Dr DW Choi)

Aug-Oct 2003 Visiting Professor, Washington University St Louis, MO (Lab Dr Laura L Dugan)

Feb 2009 Teaching Staff Mobility , Programma LLP Erasmus , University of Coimbra, Portugal

Oct 2009 Teaching Staff Mobility , Programma LLP Erasmus, University of Coimbra, Portugal

Feb 2011 Teaching Staff Mobility,Programma LLP Erasmus, University of Coimbra, Portugal

Sept 2012 Teaching Staff Mobility , Programma LLP Erasmus, University of Coimbra, Portugal

SERVICE at UNIVERSITY of SANNIO

2006-… Coordinatore del Dottorato di Ricerca in Scienze della Terra e della Vita , Università degli Studi del Sannio

2007- 2010 Presidente del Corso di Laurea Specialistica in Biologia, Università degli Studi del Sannio, Benevento

2009- 2013 Delegato del Rettore per le Relazioni Internazionali , Università degli Studi del Sannio, Benevento

2014-…… Delegato del Rettore per la Cooperazione Internazionale , Università degli Studi del Sannio, Benevento

2013-.... Componente della Commissione di Ateneo per le Relazioni internazionali

2009- … Coordinatore della Doppia Laurea Internazionale LM in Biologia –MS Program in Cell and Molecular Biology , University of Sannio- University of Coimbra, Portugal

2006- …. Delegato Erasmus della Facoltà di Scienze MMFFNN e del Dipartimento DST , Universiy of Sannio

2013-… Membro del Collegio dei Docenti del Dottorato STAS (Scienze e Tecnologie per l'Ambiente e la Salute) , University of Sannio

RESEARCH

INTERNATIONAL and NATIONAL RESEARCH GRANTS

-**NINDS -P01 (2000)** Cell-Cell interaction and hypoxic brain injury- PROJECT I- ZINC AND ISCHEMIC BRAIN INJURY. Co-Investigator

-**Regione Campania** Fondi Legge 5/200 (**2007)**. Zinco e ischemia. Principal Investigator of the Project

-**Ministero della Salute (2008)**. Ricerca sui farmaci, sulle sostanze e sulle pratiche mediche sul doping e per la tutela della salute nelle attività sportive utilizzabili a fini doping nelle attività sportive -Caratterizzazione degli effettineurotossici dell'associazione steroidi anabolizzanti- inibitori dell'aromatasi. Principal Investigator of Unit University of Sannio

-PRIN (call 2015). Monitoraggio dei livelli periferici di un pool di microRNA, mediante lo sviluppo di un device multiprobe basato su nano-sensori in fibra ottica, per la diagnosi e la prognosi di ischemia cerebrale (36 months). Principal Investigator of Unit University of Sannio (BIO14) (from 02/ 2017)

RESEARCH ACTIVITY

Lorella MT Canzoniero spent ten years at Washington University in St Louis, USA in the laboratory of Dr Dennis W Choi. Since 2002 , she has been the PI of the laboratory of Pharmacology and Toxicology at University of Sannio. Her research focuses on the ionic mechanisms involved in neurological diseases such as brain ischemia using a combined approach by means of biochemistry, microfluorimetry and molecular techniques in cellular and animal models .

The work of her laboratory is focused on:

- The study of molecular and cellular pathways involved in neuronal and glial death , in order to identify possible novel pharmacological targets for treating neurological disseases
- The study of the physiological and pathological role of intracellular calcium and zinc in cellular and animal models of neurological diseases
- The study of the alteration of ionic and molecular mechanisms in neurons and glial in response to environmental toxicants and heavy metals to address the possible link between exposure to environmental agents and susceptibility to neurological diseases

PUBLICATIONS on INTERNATIONAL JOURNALS

H index : ***32*** (2019)
Total number of citations**: >4000** (Scopus, 2019)

PUBLICATIONS

DI RENZO G, AMOROSO S, TAGLIALATELA M, CANZONIERO LM, MAIDA P, LOMBARDI G, ANNUNZIATO L. Pure uptake blockers of dopamine can reduce prolactin secretion: studies with diclofensine. **LIFE SCI**. 42(21):2161-9, **1988**

DI RENZO G, AMOROSO S, MAIDA P, CANZONIERO L, NAPPI C, TAGLIALATELA M,ANNUNZIATO L. Effect of different Ca^{2+} entry blockers on dopamine-induced inhibition of in vitro prolactin secretion. **EUR J PHARMACOL** 9;146(2-3):201-6**, 1988**

TAGLIALATELA M., AMOROSO S.,CANZONIERO L.M.T., DI RENZO G.F.,ANNUNZIATO L. Membrane events and ionic processes involved in dopamine release from tuberoinfundibular neurons. II. Effect of the inhibition of the Na^{+}-Ca^{++} exchange by amiloride. **J PHARMACOL EXP THER** 246(2):689-94, **1988**

TAGLIALATELA M, CANZONIERO LMT, AMOROSO S, FATATIS A, DI RENZO GF, ANNUNZIATO L. Cobalt-sensitive and dihydropyridine-insensitive stimulation of dopamine release from tuberoinfundibular neurons by high extracellular concentrations of barium ions. **BRAIN RES** 488 (1-2):114-20, **1989**

AMOROSO S, TAGLIALATELA M, CANZONIERO LMT, CRAGOE EJ JR, DI RENZO G, ANNUNZIATO L. Possible involvement of Ca^{2+} ions, protein kinase C and $Na(^{+})$-H^{+} antiporter in insulin-induced endogenous dopamine release from tuberoinfundibular neurons. **LIFE SCI** 46 (12):885-94, **1990**

TAGLIALATELA M, CANZONIERO LMT, FATATIS A, DI RENZO G, YASUMOTO T, ANNUNZIATO L. Effect of maitotoxin on cytosolic Ca^{2+} levels and membrane potential in purified rat brain synaptosomes .**BIOCHIM BIOPHYS ACTA** *BIOMEMBRANES* 1026(1):126-32, **1990**

TAGLIALATELA M, CANZONIERO LMT, CRAGOE EJ JR, DI RENZO G, ANNUNZIATO L Na(+)-Ca^{2+} exchange activity in central nerve endings. II. Relationship between pharmacological blockade by amiloride analogues and dopamine release from tuberoinfundibular hypothalamic neurons. ***MOL PHARMACOL*** 38(3):393-400,**1990**

AMOROSO S, DI RENZO G, TAGLIALATELA M, CANZONIERO LMT, CRAGOE EJ JR, ANNUNZIATO L. Cytoplasmic alkalinization induced by insulin through an activation of $Na(^{+})$-H^{+} antiporter inhibits tyrosine hydroxylase activity in striatal synaptosomes. **BIOCHEM PHARMACOL** 1;41(9):1279-82, **1991**

CANZONIERO LMT, ROSSI AM, TAGLIALATELA M, ANNUNZIATO L, DI RENZO GF. The Na^{+}-Ca^{+} exchanger activity in cerebrocortical nerve endings is reduced in old compared to young and mature rats when it operates as a Ca^{2+} influx or efflux pathway. **BIOCHIM BIOPHYS ACTA** BIOMEMBRANES 1107 : 175-178, **1992**

CANZONIERO LMT, TAGLIALATELA M, DI RENZO GF, ANNUNZIATO L. Gadolinium and neomycin block voltage -sensitive Ca^{2+} channels without interfering with the Na^{+}-Ca^{++} antiporter in brain nerve endings. **EUR J PHARMACO*L*** 245: 97-103, **1993**

CSERNANSKY CA, CANZONIERO LMT, SENSI SL, YU SP and CHOI DW. Delayed application of Aurintricarboxylic acid reduced glutamate neurotoxicity. **JNEUROSCI RES** 38 :101-108, **1994**

TURETSKY D, CANZONIERO LMT, SENSI SL, WEISS JH, GOLDBERG MP and CHOI DW. Cortical neurons exhibiting kainate-activated Co^{++} uptake are selectively vulnerable to AMPA receptor-mediated toxicity. **NEUROBIOL DIS** 1:101-110, **1994**

BEHRENS MI, KOH J, CANZONIERO LMT, SENSI SL,CSERNANSKY CA, CHOI DW. 3-Nitropropionic acid induces apoptosis in cultured striatal and cortical neurons. **NeuroReport** 6,3: 532-53,**1995**

LYNCH III JJ, YU SP, CANZONIERO LM., SENSI SL, and CHOI DW. Sodium channel blockers reduce oxygen-glucose deprivation-induced cortical neuronal injury when combined with glutamate receptor antagonists***. J PHARMACOL EXP THER*** 273:554-560, **1995**

DUGAN LL, SENSI SL, CANZONIERO LMT, HANDRAN SH, ROTHMAN SM, GOLDBERG MP and CHOI DW Mitochondrial production of reactive oxygen species in cortical neurons following exposure to N-methyl-D aspartate. **J NEUROSCI** 15: 6377-6388, **1995**

KOH J, WIE MB, GWAG BJ, SENSI SL, CANZONIERO LMT, CSERNANSKY CA and CHOI DW. Staurosporine induces apoptosis in cultured cortical neurons. **EXP NEUROL** 135: 153-159, **1995**

CANZONIERO LMT, SENSI SL and CHOI DW. Recovery from NMDA-induced intracellular acidification is slow and dependent on extracellular bicarbonate. **AM J PHYSIOL** 270: C593-C599, **1996**

CANZONIERO LMT, SENSI SL, TURETSKY DM, FINLEY MFA, CHOI DW and HUETTNER JE. Glutamate receptor mediated calcium entry in neurons derived from P19 embryonal carcinoma cells. **J NEUROSCI RES**. 45: 226-236, **1996**

YU SP, SENSI SL, CANZONIERO, LM, BUISSON A and CHOI DW Membrane-delimited modulation of NMDA receptor currents by metabotropic glutamate receptor subtypes 1/5 in mouse cortical neurons. **J PHYSIOL** 499 (Pt 3), 721-732, **1997**

YU SP, YEH CH, SENSI SL, GWAG B J, CANZONIERO LMT, FARHANGRAZI ZS, YING H S, TIAN M, DUGAN LL and CHOI DW Neuronal apoptosis is mediated by enhancement of outward potassium current and potassium efflux. **SCIENCE** 278:114-117, **1997**

CANZONIERO LMT, SENSI SL, CHOI DW. Measurement of intracellular free zinc in living neurons. **NEUROBIOL DIS** 4:275-279, **1997**

YING HS, WEISHPAUPT JH, GRABB M, CANZONIERO LMT, SENSI SL, SHELINE CT, MONYER H, CHOI DW Sublethal oxygen-glucose deprivation alters hippocampal neuronal AMPA receptor expression and vulnerability to kainate-induced death. **J NEUROSCI** 17:9536-9544, **1997**

SENSI SL , CANZONIERO LMT*, YU SP, YING HS, KOH JY, KERCHNER GA, CHOI DW. Measurement of intracellular free zinc in living cortical neurons: routes of entry. **J NEUROSCI** 17: 9554-9564, **1997**.(*co-first author)

XU J, CHEN S, YEH CH, HE L, SENSI S, CANZONIERO LMT, CHOI DW HSU CY. Involvement of de novo ceramide biosynthesis in TNF-a /cycloheximide-induced cerebral endothelial cell death. **J BIOL CHEM** 273:16521-6, **1998**

McDONALD JW, BHATTACHARRYA T, SENSI SL, LOBNER D, YING HS, CANZONIERO LMT and CHOI DW. Extracellular acidity potentiates AMPA receptor-mediated cortical neuronal death. **J NEUROSCI** 8:6290-9, **1998**

STRASSER U, LOBNER D, BEHRENS MM, CANZONIERO LM, CHOI DW. Antagonists for group I mGluRs attenuate excitotoxic neuronal death in cortical cultures. **EUR J NEUROSCI** 10(9):2848-55, **1998**

GWAG BJ, CANZONIERO LMT, SENSI SL, DE MARO JA, KOH JY, GOLDBERG MP, JACQUIN M, CHOI DW. Calcium ionophores can induce either apoptosis or necrosis in cultured cortical neurons. **NEUROSCIENCE** 90:1339-48, **1999**

CHOI WS, CANZONIERO LMT, SENSI SL, O'MALLEY KL, GWAG BJ, SOHN S, KIM JE, OH TH, LEE EB, OH YJ Characterization of MPP+-induced cell death in a dopaminergic neuronal cell line: role of macromolecule synthesis, cytosolic calcium, caspase, and Bcl-2-related proteins. **EXP NEUROL** 159 274-282, **1999**

SNIDER BJ, CHOI J, TURETSKY DM, CANZONIERO LMT, SENSI SL, SHELINE C.T., WANG X., YU S.P., CHOI D.W. Nitric oxide reduces Ca^{2+} and Zn^{2+} influx through voltage-gated Ca^{2+} channels and reduces Zn^{2+} neurotoxicity. **NEUROSCIENCE** 100: 651-661, **2000**

CANZONIERO LMT, TURETSKY DM, CHOI DW. Measurement of intracellular free zinc concentrations accompanying zinc-induced neuronal death. **J NEUROSCI** 19: 31, **1999**

LOBNER D, CANZONIERO LM, MANZERRA P, GOTTRON F, YING H, KNUDSON M, TIAN M, DUGAN LL, KERCHNER GA, SHELINE CT, KORSMEYER SJ, CHOI DW. Zinc-induced neuronal death in cortical neurons**. CELL MOL BIOL** (Noisy-le-grand) 46(4):797-806, **2000**

KERCHNER GA, CANZONIERO LMT, YU SP, LING C, CHOI DW. Zn^{2+} current is mediated by voltage-gated Ca^{2+} channels and enhanced by extracellular acidity in mouse cortical neurones. **J. PHYSIOL** 528: 39-52, **2000**

MANZERRA P, BEHRENS MM, CANZONIERO LMT, WANG XQ, HEIDINGER V, ICHINOSE T, YU SP, CHOI DW . Zinc induces a Src family kinase-mediated upregulation of NMDA receptor activity and excitoxicity. **Proc Natl Acad Sci USA** 98(20): 11055-11061, **2001**

YU SP, CANZONIERO LMT, CHOI DW. Ion homeostasis and apoptosis. **CURR OPINION CELL BIOL** 13(4): 405-411, **2001**

SNIDER BJ, TEE LY, CANZONIERO LMT, BABCOCK DJ, CHOI DW. NMDA antagonists exacerbate neuronal death caused by proteasome inhibition in cultured cortical and striatal neurons. **EUR J NEUROSCI** 15: 419-428, **2002**

SHELINE CT, YING HS, LING CS, CANZONIERO LMT, CHOI DW. Depolarization-induced 65zinc influx into cultured cortical neurons. **NEUROBIOL DIS** 10 (1): 41-53, **2002**

CANZONIERO LMT, MANZERRA P, SHELINE CT, CHOI DW . Membrane-permeant chelators can attenuate Zn^{2+}-induced cortical neuronal death. **NEUROPHARMACOLOGY** 45:420-428, **2003**

CANZONIERO LMT, BABCOCK DJ, GOTTRON FJ, GRABB MC, MANZERRA P, SNIDER BJ, CHOI DW. Raising intracellular calcium attenuates neuronal apoptosis triggered by staurosporine or oxygen-glucose deprivation in the presence of glutamate receptor blockade. **NEUROBIOL DIS** 15: 520-528, **2004**

SCORZIELLO A, PELLEGRINI C, SECONDO A, SIRABELLA R, FORMISANO L, SIBAUD L, AMOROSO S, CANZONIERO LMT, ANNUNZIATO L, DI RENZO GF . Neuronal NOS activation during oxygen and glucose deprivation triggers cerebellar granule cell death in the later reoxygenation phase. **J NEUROSCI RES***.* 76 : 812-821, **2004**

SHELINE CT, TAKATA T, YING H, CANZONIERO LMT, YANG A, YU SP, CHOI DW Potassium attenuates zinc-induced death of cultured cortical astrocytes. **GLIA** 46: 18-27, **2004**

CANZONIERO LMT, SNIDER BJ Calcium in Alzheimer's disease pathogenesis: too much, too little or in the wrong place? **J ALZHEIMERS DIS.** (2):147-54; discussion 209-15, **2005**

CANZONIERO LMT, ADORNETTO A, SECONDO A, MAGI S, DELL'AVERSANO C, SCORZIELLO A, AMOROSO S, DI RENZO G Involvement of the nitric oxide/protein kinase G pathway in polychlorinated biphenyl-induced cell death in SH-SY 5Y neuroblastoma cells. **J NEUROSCI RES** 84(3): 692-7,**2006**

SENSI SL,ROCKABRAND E, CANZONIERO LMT Acidosis enhances toxicity induced by kainate and zinc exposure in aged cultured astrocytes. **BIOGERONTOLOGY** 7:367-374, **2006**

SECONDO A , STAIANO RI, SCORZIELLO A, SIRABELLA R, BOSCIA F, ADORNETTO A, VALSECCHI V, MOLINARO P, CANZONIERO LMT, DI RENZO GF, ANNUNZIATO L BHK cells transfected with NCX3 are more resistant to hypoxia followed by reoxygenation than those transfected with NCX1 and NCX2: Possible relationship with mitochondrial membrane potential. **CELL CALCIUM** , 42(6):521-35, **2007**

SECONDO A, STAIANO IR, SCORZIELLO A, SIRABELLA R, BOSCIA F, ADORNETTO A, CANZONIERO LMT, DI RENZO G, ANNUNZIATO L Na^{+}/Ca^{2+} exchanger isoform 3 (NCX3) but not isoform 2 (NCX2) and 1 (NCX1) singly transfected in BHK cells plays a protective role in a model of in vitro hypoxia. **ANN NY ACAD SCI,** 1099:481-5*,* **2007**

FRAZZINI V, RAPPOSELLI IR, CORONA C, ROCKABRAND E, CANZONIERO LMT, SENSI SL. Mild Acidosis Enhances AMPA receptor-mediated intracellular zinc mobilization in cortical neurons. **MOL MED** 13(7-8):356-61, **2007**

SCORZIELLO A , SANTILLO M, ADORNETTO A, DELL'AVERSANO C, SIRABELLA R, DAMIANO S, CANZONIERO LMT, DI RENZO GF, ANNUNZIATO L.NO-induced neuroprotection in ischemic preconditioning stimulates mitochondrial Mn-SOD activity and expression via RAS/ERK1/2 pathway. **J NEUROCHEM** 103 (4) 1472-80, **2007**

CATALDI M, LA RICCIA V, MARZAIOLI V, CAVACCINI A, CURIA G, VIGGIANO D, CANZONIERO LMT, DI RENZO G, AVOLI M, ANNUNZIATO L. $Zn(^{2+})$ slows down Ca(V)3.3 gating kinetics:implications for thalamocortical activity. **J NEUROPHYSIOL** 98(4):2274-84, **2007**

BERTONI-FREDDARI C, SENSI SL, GIORGETTI B, BALIETTI M, DI STEFANO G, CANZONIERO LMT, CASOLI T, FATTORETTI P Decreased Presence of Perforated Synapses in a Triple-Transgenic Mouse Model of Alzheimer's Disease. **REJUVENATION RES** 11, 2 , 309-13, **2008**

LUISI R., PANZA E., BARRESE V, IANNOTTI FA, VIGGIANO D, SECONDO A, CANZONIERO L, MARTIRE M, ANNUNZIATO L, TAGLIALATELA M . Activation of Presynaptic M-Type K(+) Channels inhibits [H]D-Aspartate release by Reducing Ca(2+) entry through P/Q-type voltage-gated Ca(2+) channels. , **J NEUROCHEM** 109(1): 168-181, **2009**

BERNI CANANI R, SECONDO A, PASSARIELLO A, BUCCIGROSSI V, CANZONIERO L.M., RUOTOLO S,PUZONE C, PORCARO F, PENSA M, BRAUCCI A, PEDATA M, ANNUNZIATO L, GUARINO A .Zinc inhibits calcium-mediated and nitric oxide-mediated ion secretion in human enterocytes. **EUR J PHARMACOL** 626: 266-270, **2010**

CIAVARDELLI D, SILVESTRI E, DEL VISCOVO A, BOMBA M, DE GREGORIO D, MORENO M, DI ILIO C, GOGLIA G, CANZONIERO LM*, SENSI S L . Alterations of brain and cerebellar proteomes linked to A beta and tau pathology in a female triple-transgenic murine model of Alzheimer's disease . **CELL DEATH & DISEASE**, 1: e 90, **2010**)* Co-corresponding author

CORONA C, MASCIOPINTO F, SILVESTRI E, DELVISCOVO, LATTANZIO R, LASORDA R, CIAVARDELLI D,GOGLIA F, PIANTELLI M, CANZONIERO L.M., SENSI SL Dietary zinc supplementation of 3xTg-AD mice increases BDNF levels and prevents cognitive deficits as well as mitochondrial dysfunction **. CELL DEATH DIS** 1(10): e 91, **2010**

CORONA C, FRAZZINI V, SILVESTRI E, LATTANZIO R, LA SORDA R, PIANTELLI M, CANZONIERO L.M., CIAVARDELLI D, RIZZARELLI E, SENSI SL . Effects of Dietary Supplementation of Carnosine on Mitochondrial Dysfunction, Amyloid Pathology, and Cognitive Deficits in 3xTg-AD Mice . **PLOS ONE**, vol. 6(3):e17971, **2011**

DI FRANCIA R, BERRETTA M, CATAPANO O, CANZONIERO L, FORMISANO L . Molecular diagnostics forpharmacogenomic testing of fluoropyrimidine based-therapy: costs, methods and applications. **CLIN CHEM LAB MED**, 49 (7) 1105-1111, **2011**

FORMISANO L, GUIDA N, COCCO S, SECONDO A, SIRABELLA R, ULIANICH L, PATURZO F, DI RENZO G, CANZONIERO L.M. The repressor element 1-silencing transcription factor is a novel molecular target for the neurotoxic effect of the polychlorinated biphenyl mixture aroclor 1254 in neuroblastoma SH-SY5Y cells. **J PHARMACOL EXP THER** 338: 997-1003, **2011**

DEL VISCOVO A, SECONDO A, ESPOSITO A, GOGLIA F, MORENO M, CANZONIERO L.M. Intracellular and plasma membrane-initiated pathways involved in the [Ca2+]i elevations induced by iodothyronines (T3 and T2) in pituitary GH3 cells. **AM J PHYSIOL : ENDOCRINOL METAB,** vol. 302, p. E1419-E1430, **2012**

DUARTE E.P., CURCIO M, CANZONIERO L.M., DUARTE CB. Neuroprotection by GDNF in the ischemic brain. **GROWTH FACTORS**, vol. 30, p. 242-257, **2012**

MASCIOPINTO F, DI PIETRO N, CORONA C, BOMBA M, PIPINO C, CURCIO M, DI CASTELNUOVO A, CIAVARDELLI D, SILVESTRI E, CANZONIERO LM, SEKLER I, PANDOLFI A, SENSI SL. Effects of long-term treatment with pioglitazone on cognition and glucose metabolism of PS1-KI, 3xTg-AD, and wild-type mice. **CELL DEATH DIS ,** 3:e448, **2012**

CALDEIRA MV, CURCIO M, LEAL G, SALAZAR IL, MELE M, SANTOS AR, MELO CV, PEREIRA P, CANZONIERO LM, DUARTE CB. Excitotoxic stimulation downregulates the ubiquitin-proteasome

system through activation of NMDA receptors in cultured hippocampal neurons. **BIOCHIM BIOPHYS ACTA** MOL BASIS DIS 1: 263-274, **2013**

FORMISANO L, GUIDA N, VALSECCHI V, PIGNATARO G, VINCIGUERRA A, PANNACCIONE A, SECONDO A, BOSCIA F, MOLINARO P, SISALLI MJ, SIRABELLA R, CASAMASSA A, CANZONIERO LM, DI RENZO G, ANNUNZIATO L. NCX1 is a new rest target gene: role in cerebral ischemia. **NEUROBIOL DIS** 50:76-85, **2013**

BOMBA M, CIAVARDELLI D, SILVESTRI E, CANZONIERO LMT, LATTANZIO R, CHIAPPINI P, PIANTELLI M, DI ILIO C, CONSOLI A, SENSI SL. Exenatide promotes cognitive enhancement and positive brain metabolic changes in PS1-KI mice but has no effects in 3xTg-AD animals. **CELL DEATH DIS ,** 4:e612, **2013**

CANZONIERO LMT, GRANZOTTO A, TURETSKY DM, CHOI DW, DUGAN LL, SENSI SL nNOS(+) striatal neurons, a subpopulation spared in Huntington's Disease, possess functional NMDA receptors but fail to generate mitochondrial ROS in response to an excitotoxic challenge. **FRONT PHYSIOL** 4:112 , **2013**

CALDEIRA MV, SALAZAR IL, CURCIO M, CANZONIERO LM, DUARTE CB. Role of the ubiquitin-proteasome system in brain ischemia: friend or foe? **PROG NEUROBIOL** 50-69, **2014**

MANCINI M, SOLDOVIERI MV, GESSNER G, WISSUWA B, BARRESE V, BOSCIA F, SECONDO A, MICELI F,FRANCO C, AMBROSINO P, CANZONIERO LM, BAUER M, HOSHI T, HEINEMANN SH, TAGLIALATELA M. Critical role of large-conductance calcium- and voltage-activated potassium channels in leptin-induced neuroprotection of N-methyl-d-aspartate-exposed cortical neurons. **PHARMACOL RES** 87:80-6, **2014**

GUIDA N, LAUDATI G, GALGANI M, SANTOPAOLO M, MONTUORI P, TRIASSI M, DI RENZO G, CANZONIERO LM*, FORMISANO L. Histone deacetylase 4 promotes ubiquitin-dependent proteasomal degradation of Sp3 in SH-SY5Y cells treated with di(2-ethylhexyl)phthalate (DEHP), determining neuronal death. **TOXICOL APPL PHARMACOL** 280(1):190-8, **2014***Co-corresponding author

FORMISANO L, GUIDA N, LAUDATI G, BOSCIA F, ESPOSITO A, SECONDO A, DI RENZO G, CANZONIERO LM. Extracellular signal-related kinase 2/specificity protein1/specificity protein 3/repressor element-1 silencing transcription factorpathway is involved in Aroclor 1254-induced toxicity in SH-SY5Y neuronal cells**. J NEUROSCI RES** 93(1):167-77, **2015**

ISOPI E, GRANZOTTO A, CORONA C, BOMBA M, CIAVARDELLI D, CURCIO M, CANZONIERO LM, NAVARRA R, LATTANZIO R, PIANTELLI M, SENSI SL. Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease without reducing amyloid and tau pathology. **NEUROBIOL DIS** 81:214-24**, 2015**

FORMISANO L, GUIDA N, LAUDATI G, MASCOLO L, DI RENZO G, CANZONIERO LM. MS-275 inhibits Aroclor 1254-induced SH-SY5Y neuronal cell toxicity by preventing the formation of the HDAC3/REST complex on the synapsin-1 promoter**. J PHARMACOL EXP THER** 352(2):236-43, **2015**

CURCIO M, SALAZAR IL, INÁCIO AR, DUARTE EP, CANZONIERO LM, DUARTE CB. Brain ischemia downregulates the neuroprotective GDNF-Ret signaling by a calpain-dependent mechanism in cultured hippocampal neurons. **CELL DEATH DIS** 6:e1645, **2015**

COCCO S, SECONDO A, DEL VISCOVO A, PROCACCINI C, FORMISANO L, FRANCO C,ESPOSITO A, SCORZIELLO A, MATARESE G, DI RENZO G, CANZONIERO LM. Polychlorinated Biphenyls Induce Mitochondrial Dysfunction in SH-SY5Y Neuroblastoma Cells**. PLos ONE** 10(6):E0129481, **2015**

GUIDA N, LAUDATI G, ANZILOTTI S, SECONDO A, MONTUORI P, DI RENZO G, CANZONIERO LM, FORMISANO L. Resveratrol via sirtuin-1 downregulates RE1-silencing transcription factor (REST) expression preventing PCB-95-induced neuronal cell death. **TOXICOL APPL PHARMACOL.** 288(3):387-98, **2015**

GUIDA N, LAUDATI G, ANZILOTTI S, SIRABELLA R, CUOMO O, BRANCACCIO P, SANTOPAOLO M, GALGANI M, MONTUORI P, DI RENZO G, CANZONIERO LM, FORMISANO L.Methylmercury upregulates RE-1 silencing transcription factor (REST) in SH-SY5Y cells and mouse cerebellum. **NEUROTOXICOLOGY** 52:89-97, **2016**

CURCIO M, SALAZAR IL, MELE M, CANZONIERO LM, DUARTE CB. Calpains and neuronal damage in the ischemic brain :the swiss knife in synaptic injury.**PROG NEUROBIOL**. 143:1-35,**2016**

GUIDA N, LAUDATI G, MASCOLO L, CUOMO O, ANZILOTTI S, SIRABELLA R, SANTOPAOLO M, GALGANI M, MONTUORI P, DI RENZO G, CANZONIERO LM, FORMISANO L. MC1568 InhibitsThimerosal-Induced Apoptotic Cell Death by Preventing HDAC4 Up-Regulation in Neuronal Cells and in Rat Prefrontal Cortex. **TOXICOL SCI**. 154(2):227-240, **2016**

GUIDA N, LAUDATI G, MASCOLO L, VALSECCHI V, SIRABELLA R, SELLERI C, DI RENZO G, CANZONIERO LM, FORMISANO L. p38/Sp1/Sp4/HDAC4/BDNF Axis Is a Novel Molecular Pathway of the Neurotoxic Effect of the Methylmercury. **FRONT NEUROSCI** 19;11:8, **2017**

GUIDA N, LAUDATI G, SERANI A, MASCOLO L, MOLINARO P, MONTUORI P, DI RENZO G, CANZONIERO LMT, FORMISANO L. The neurotoxicant PCB-95 by increasing the neuronal transcriptional repressor REST down-regulates caspase-8 and increases Ripk1,Ripk3 and MLKL expression determining necroptotic neuronal death. **BIOCHEM PHARMACOL.** 142:229-241, **2017**

BOMBA M, GRANZOTTO A, CASTELLI V, MASSETTI N, SILVESTRI E, CANZONIERO LMT, CIMINI A, SENSI SL. Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice. **NEUROBIOL AGING**. 64:33-43, **2018**

GUIDA N, VALSECCHI V, LAUDATI G, SERANI A, MASCOLO L, MOLINARO P, MONTUORI P, DI RENZO G, CANZONIERO LMT, FORMISANO L. The miR206-JunD circuit mediates the neurotoxic effect of methylmercury in cortical neurons. **TOXICOL SCI**. 163(2):569-578 ,**2018**

SIRABELLA R, VALSECCHI V, ANZILOTTI S, CUOMO O, VINCIGUERRA A, CEPPARULO P, BRANCACCIO P, GUIDA N, BLONDEAU N, CANZONIERO LMT, FRANCO C, AMOROSO S, ANNUNZIATO L, PIGNATARO G. Ionic Homeostasis Maintenance in ALS: Focus on New

Therapeutic Targets. **FRONT NEUROSCI**. 12:510 , **2018**

LAUDATI G, MASCOLO L, GUIDA N, SIRABELLA R, PIZZORUSSO V, BRUZZANITI S, SERANI A, DI RENZO G, CANZONIERO LMT, FORMISANO L. Resveratrol treatment reduces the vulnerability of SH-SY5Y cells and cortical neurons overexpressing SOD1-G93A to Thimerosal toxicity through SIRT1/DREAM/PDYN pathway. **NEUROTOXICOLOGY** 71:6-15,**2019**

CURRICULUM VITAE

PERSONAL DATA

Name	**VINCENZO CALDERONE**
Address	Department of Pharmacy - University of Pisa Via Bonanno, 6 I-56126 Pisa, ITALY
Tel	+39-050-2219589
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Nationality	Italian
Birth date and Country	16/04/1967 , PALERMO (ITALY)
• Present position	- Full Professor of Pharmacology, at the "Department of Pharmacy – University of Pisa" (from 1st January 2016) - Director of the Specialization School of "Hospital Pharmacy", University of Pisa - President of the Master Degree in Pharmacy, University of Pisa - Member of the Italian Society of Pharmacology - Member of the Italian Society of Toxicology - Member of the <Interdepartment Centre of Research in Nutraceutic and Health Food - NUTRAFOOD", University of Pisa - Member of the "<Interdepartment Centre of Research in Biology and Pathology of Aging", University of Pisa

EDUCATION/ PAST POSITIONS

1985 – Degree of Classic Liceum.
1987-1989 Officer of the Italian Navy
1989-1993 Student at the Faculty of Pharmacy (University of Pisa, Italy)
1993 Master Degree In Pharmacy
1993-1996: Fellowship at the "post-lauream" Specialization School in Science and Technologies of Medicinal Plants (Internate fellow in the laboratories of Pharmacology at the Institute of Biological Science, and at the Department of Psychiatry, Neurobiology, Pharmacology and Biotechnologies – University of Pisa)
1996: Degree *cum laude* of Specialization in Science and Technologies of Medicinal Plants
1997: Visiting scientist (february-august) at the "Centre de Recherche de Vitry Altforville – Rhone-Poulenc Rorer" (Paris, France), funded by the Italian Society of Pharmacology
1997-2000: PhD in Medicinal Chemistry, at the Department of Pharmaceutical Sciences, University of Pisa
2000: Degree of PhD in Medicinal Chemistry
2001-2014 Assistant Professor of Pharmacology, at the "Department of Pharmacy – University of Pisa"
Dec 2014-2015 Associate Professor of Pharmacology, at the "Department of Pharmacy – University of Pisa"

ACTIVITY AT ABROAD INSTITUTIONS

February-August 1997: Visiting scientist at the "Centre de Recherche de Vitry Altforville – Rhone-Poulenc Rorer", Paris (France).

May-July 2013: Visiting Professor for the Course of "General Pharmacology" in the PhD in Pharmaceutical Sciences at the Albanian University of Tirana (Albania).

September 2014: Visiting Professor at the Weill Cornell Medical College, New York (U.S.A.)

SCIENTIFIC ACTIVITY

The scientific activity of Prof. Calderone has allowed him to gain extensive experience in several experimental fields, such as medicinal chemistry and cardiovascular pharmacology; he is the author of 143 publications on peer-reviewed international scientific journals, 5 international patents and more than 100 congress communications. The present rating of the citation index (H-index) is 30 (from the database Scopus).

The main research topics are:

- identification of new molecules targeting potassium channels and investigation of their potential pharmacological usefulness and toxicological aspects in the modulation of the cardiovascular function;
- characterization of the physiopharmacological roles of the gasotransmitters nitric oxide (NO) and, more recently, hydrogen sulfide (H_2S) and development of original NO-donors and H_2S-donors for pharmacotherapeutic purposes.

AWARDS FOR SCIENTIFIC ACTIVITIES

In 1997, he was awarded a fellowship funding by the Italian Society of Pharmacology for research experiences abroad, at the "Centre de Recherche de Vitry Altforville Rhone-Poulenc Rorer" (Paris, France), where he began his studies in the field of potassium channels.

PARTICIPATION TO SCIENTIFIC INTERNATIONAL EDITORIAL BOARDS

- Editorial Board of "Frontiers in pharmacology of ion channels and channelopathies"
- Editorial Board of "Scientifica"
- Editorial Board of "American Journal of Pharmacology and Toxicology"
- Editorial Board of "Cardiovascular & Hematological Agents in Medicinal Chemistry"
- Editorial Board of the "Journal of Research in Cardiology"
- Editorial Board of Medicinal Research Reviews
- Editorial Board of Journal of Clinical Medicine

TEACHING ACTIVITY

From 2001 up to now, Prof. Calderone carried out a continuous and constant didactic activity in pharmacology; presently, the main teaching activity is:

Course of "General Pharmacology" for the Master degree in "Pharmacy", at the Department of Pharmacy, University of Pisa

Course of "Pharmacotherapy" for the Master degree in "Pharmacy", at the Department of Pharmacy, University of Pisa

Course of "Pharmacokinetics and Drug Metabolism" for the post-lauream Specialization School in "Hospital Pharmacy", at the Department of Pharmacy, University of Pisa.

SCIENTIFIC PUBLICATIONS

1. V. Calderone, E. Martinotti, R. Scatizzi, A. Pellegrini, M.C. Breschi. A modified aortic multiple-ring preparation for functional studies. JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, 35, 131-138, 1996
2. P.L. Ferrarini, C. Mori, M. Badawneh, C. Manera, G. Saccomanni, V. Calderone, R. Scatizzi, P.L. Barili. Stereoselective synthesis and b-blocking activity of substituted (E)- and (Z)- 4 (1H) - [1 - (3 - alkylamino - 2 - hydroxypropyl) oximino] - 2,3 - dihydro - 1,8 - naphthyridine. Potential antihypertensive agents. Part VI. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 32, 955-963, 1997
3. E. Martinotti, V. Calderone, M.C. Breschi, P. Bandini, P.L. Cioni. Pharmacological action of aqueous crude extracts of Artemisia verlotorum Lamotte (Compositae). PHYTOTHERAPY RESEARCH, 11, 612-614, 1997
4. M. Magnon, V. Calderone, A. Floch, I. Cavero. Influence of vessel depolarization on vasorelaxant potency and efficacy of Ca2+ entry blockers, K+ channel openers, nitrate derivatives, salbutamol and papaverine, in rat aortic rings. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 358, 452-463, 1998
5. V. Calderone, E. Martinotti, B. Baragatti, M.C. Breschi. Vascular effects of aqueous extracts of Artemisia verlotorum Lamotte (Compositae), in vivo and in vitro functional studies. PHYTOTHERAPY RESEARCH, 13, 645-648, 1998
6. V. Calderone, E. Nicoletti, P. Bandecchi, M. Pistello, P. Mazzetti, E. Martinotti, I. Morelli. In vitro antiviral effects of an aqueous extract of Artemisia verlotorum Lamotte (Asteraceae). PHYTOTHERAPY RESEARCH, 12, 595-597, 1998
7. F. Della Pietà, E. Nicoletti, V. Calderone, P. Bandecchi, M. Pistello, F. Cinelli, I. Morelli. Antiviral properties of an aqueous extract of a green algae Caulerpa Taxifolia (Vahl) C. Agardh. PHYTOTHERAPY RESEARCH, 13, 245-247, 1998
8. V. Calderone. An alternative method to evaluate the nature of an antagonist and its potency: a theoretical approach. JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, 39, 129-135, 1998
9. V. Calderone, E. Martinotti. A simplified empirical approach to evaluate the dissociation constant of a full agonist by the irreversible receptor inactivation method. JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, 40, 57-62, 1998
10. V. Calderone, E. Martinotti. Intrinsic activity and EC50: the simplest tools for the evaluation of the dissociation constant of a partial agonist. JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, 40, 207-210, 1998
11. P.L. Ferrarini, C. Mori, M. Badawneh, V. Calderone, L. Calzolari, T. Loffredo, E. Martinotti, G. Saccomanni. Synthesis of 1,8 - naphthyridine derivatives: potential antihypertensive agents. Part VII. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 33, 383-397, 1998
12. B. Macchia, D.B. Bylund, V. Calderone, G. Giannaccini, A. Lucacchini, M. Macchia, A. Martinelli, E. Martinotti, E. Orlandini, F. Romagnoli, A. Rossello. Synthesis and a-adrenergic and I1-imidazoline activity of 3-phenylpiperidines dimethyl-substituted on the phenyl ring. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 33, 911-919, 1998
13. G. Biagi, I. Giorgi, O. Livi, V. Scartoni, E. Martinotti, V. Calderone. New 1,2,3-triazole derivatives (ureas, amides, urethanes) with a potential biological interest. BOLLETTINO CHIMICO FARMACEUTICO, 137, 350-356, 1998
14. V. Calderone, B. Baragatti, S. Rossi, P. Nieri, E. Martinotti. Role of potassium channels in the GABA inhibitory action on the purinergic response to electrical field stimulation in rat isolated vas deferens. PHARMACY AND PHARMACOLOGY COMMUNICATION, 5, 407-409, 1999
15. P.L. Ferrarini, C. Mori, V. Calderone, L. Calzolari, P. Nieri, E. Martinotti, G. Saccomanni. Synthesis of 1,8 - naphthyridine derivatives: potential antihypertensive agents. Part VIII. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 34, 505-513, 1999
16. P.L. Ferrarini, C. Mori, C. Manera, F. Mori, V. Calderone, E. Martinotti. Condensation of substituted 2-aminopyridine with b-ketocarboxilic esters: 4H-Pyrido[1,2,-a]pyrimidin-4-ones and pyridin-2-ones. JOURNAL OF HETEROCYCLIC CHEMISTRY, 36, 1123-1127, 1999
17. V. Calderone, B. Baragatti, M.C. Breschi, E. Martinotti. Experimental and theoretical comparisons between the classical Schild analysis and a new alternative method, to evaluate the pA2 of competitive antagonists. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 360, 477-487, 1999
18. B. Baragatti, V. Calderone, M.C. Breschi, E. Martinotti. Role of potassium channels in the GABA inhibitory action on the cholinergic response to electrical field stimulation in guinea-pig ileum. PHARMACY AND PHARMACOLOGY COMMUNICATION, 5, 679-681, 1999
19. L. Bertelli, G. Biagi, V. Calderone, I. Giorgi, O. Livi, V. Scartoni, P.L. Barili. 1-(1,2,3-Triazol-4-yl)-benzimidazolones, a new series of heterocyclic derivatives. JOURNAL OF HETEROCYCLIC CHEMISTRY, 37, 1169-1176, 2000
20. G. Biagi, V. Calderone, I. Giorgi, O. Livi, V. Scartoni, B. Baragatti, E. Martinotti. 5-(4'-substituted-2'-nitroanilino)-1,2,3-benzotriazoles as new potential potassium channel activators. I. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 35, 715-720, 2000
21. P.L. Ferrarini, C. Mori, M. Badawneh, V. Calderone, R.M. Greco, C. Manera, A. Martinelli, P. Nieri, G. Saccomanni. Synthesis and β-blocking activity of (R,S)-(E)-oximeethers of 2,3-dihydro-1,8-naphthyridine and 2,3-dihydrothiopyrano[2,3-b]-pyridine: potential antihypertensive agents. Part IX. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 35, 815-826, 2000

22. V. Calderone, E. Martinotti. Potassium channels: KATP and BKCa in vascular smooth muscle. PHARMACY AND PHARMACOLOGY COMMUNICATION, 6, 247-253, 2000
23. B. Baragatti, G. Biagi, V. Calderone, I. Giorgi, O. Livi, E. Martinotti, V. Scartoni. Triazolyl-benzimidazolones and triazolyl-benzotriazoles: new potential potassium channel activators. II. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 35, 949-955, 2000
24. M. Badawneh, P.L. Ferrarini, V. Calderone, C. Manera, E. Martinotti, C. Mori, G. Saccomanni, L. Testai. Synthesis and evaluation of antihypertensive activity of 1,8-naphthyridine derivatives. Part X. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 36, 925-934, 2001
25. G. Biagi, I. Giorgi, O. Livi, V. Scartoni, P.L. Barili, V. Calderone, E. Martinotti. New 5-substituted-1-(2-hydroxybenzoyl)-benzotriazoles, potassium channel activators. IV. IL FARMACO, 56, 827-834, 2001
26. G. Biagi, V. Calderone, I. Giorgi, O. Livi, V. Scartoni, B. Baragatti, E. Martinotti. Some structural changes on triazolyl-benzotriazoles and triazolyl-benzimidazolones as potential potassium channel activators. III. IL FARMACO, 56, 841-849, 2001
27. P. Nieri, E. Martinotti, V. Calderone, M.C. Breschi. Adenosine-mediated hypotension in in vivo guinea-pig: receptors involved and role of NO. BRITISH JOURNAL OF PHARMACOLOGY, 134, 745-752, 2001
28. V. Calderone, B. Baragatti, M.C. Breschi, P. Nieri, E. Martinotti. Hormonal influence on the release of endothelial nitric oxide: gender-related dimorphic sensitivity of rat aorta for noradrenaline. JOURNAL OF PHARMACY AND PHARMACOLOGY, 54, 523-528, 2002
29. V. Calderone, I. Cavero. Ventricular arrhythmias. A potential risk associated with the use of non-cardiovascular drugs prolonging the QT interval. MINERVA MEDICA, 93, 181-197, 2002
30. V. Calderone. Large-conductance, Ca2+-activated K+ channels: function, pharmacology and drugs. CURRENT MEDICINAL CHEMISTRY, 9, 1385-1395, 2002
31. B. Baragatti, V. Calderone, L. Testai, E. Martinotti, S. Chericoni, I. Morelli. Vasodilator activity of crude methanolic extract of Gentiana kokiana Perr. Et Song. (Gentianaceae). JOURNAL OF ETHNOPHARMACOLOGY, 79, 369-372, 2002
32. Balsamo, A. Lapucci, C. Manera, A. Martinelli, S. Nencetti, E. Orlandini, V. Calderone, G. Giannaccini, P. Nieri. Conformationally restrained analogues of sympathomimetic catecholamines. Synthesis and adrenergic activity of 5,6- and 6,7-dihydroxy- 3,4-dihydrospiro [naphthalen-1(2H)-2',5'-morpholines]. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 37, 11-22, 2002
33. L. Testai, S. Chericoni, V. Calderone, G. Nencioni, P. Nieri, I. Morelli, E. Martinotti. Cardiovascular effects of Urtica dioica L. (Urticaceae) roots extracts: in vitro and in vivo pharmacological studies., JOURNAL OF ETHNOPHARMACOLOGY, 81, 105-109, 2002
34. Nardi, V. Calderone, S. Chericoni, I. Morelli, Natural Modulators of Large-Conductance Calcium-Activated Potassium Channels. PLANTA MEDICA, 69, 885-892, 2003
35. V. Cecchetti, V. Calderone, O. Tabarrini, S. Sabatini, E. Filipponi, L. Testai, R. Spogli, E. Martinotti, A. Fravolini. Highly potent 1,4-benzothiazine derivatives as K(ATP)-channel openers. JOURNAL OF MEDICINAL CHEMISTRY, 46, 3670-3679, 2003
36. G. Saccomanni, M. Badawneh, B. Adinolfi, V. Calderone, T. Cavallini, P.L. Ferrarini, R. Greco, C. Manera, L. Testai. Synthesis, beta-Blocking Activity and Structure-Activity Relationship of (R,S)-(E)-Oximeethers of 2,3-dihydro-1,8-naphthyridine and 2,3-Dihydrothiopyrano[2,3-b]pyridine: Identification of beta3-Antagonists. BIOORGANIC & MEDICINAL CHEMISTRY, 11, 4921-4931, 2003
37. P. Nieri, E. Martinotti, L. Testai, B. Adinolfi, V. Calderone, M.C. Breschi. R(+)-methanandamide inhibits tracheal response to endogenously released acetylcholine via capsazepine-sensitive receptors. EUROPEAN JOURNAL OF PHARMACOLOGY, 459, 75-81, 2003
38. S. Chericoni, L. Testai, V. Calderone, G. Flamini, P. Nieri, I. Morelli, E. Martinotti. The xanthones gentiacaulenin and gentiakochianin are responsible for the vasodilatator action of the roots of Gentiana kochiana. PLANTA MEDICA, 69, 770-772, 2003
39. V. Calderone, S. Chericoni, C. Martinelli, L. Testai, A. Nardi, I. Morelli, M.C. Breschi, E. Martinotti. Vasorelaxing effects of flavonoids: investigation on the possible involvement of potassium channels. NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, 370, 290-298, 2004
40. G. Biagi, V. Calderone, I. Giorgi, O. Livi, E. Martinotti, A. Martelli, A. Nardi. 1,5-Diarylsubstituted 1,2,3-triazoles as potential potassium channel activators. VI. IL FARMACO, 59, 397-404, 2004
41. G. Biagi, I. Giorgi, O. Livi, A. Nardi, V. Calderone, A. Martelli, E. Martinotti, O.L. Salerni. Synthesis and biological activity of novel substituted benzanilides as potassium channel activators. V. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 39, 491-498, 2004
42. L. Testai, V. Calderone, A. Salvadori, M.C. Breschi, P. Nieri, E. Martinetti. QT prolongation in anaesthetized guinea-pigs: an experimental approach for preliminary screening of torsadogenicity of drugs and drug candidates. JOURNAL OF APPLIED TOXICOLOGY, 24, 217-222, 2004
43. M.C. Breschi, V. Calderone, M. Digiacomo, A. Martelli, E. Martinotti, F. Minutolo, S. Rapposelli, A. Balsamo. NO-Sartans: A New Class of Pharmacodynamic Hybrids as Cardiovascular Drugs. JOURNAL OF MEDICINAL CHEMISTRY, 47, 5597-5600, 2004
44. S. Chericoni, L. Testai, E. Campeol, V. Calderone, I. Morelli, E. Martinotti. Vasodilator activity of Michelia figo Spreng. (Magnoliaceae) by in vitro functional study. JOURNAL OF ETHNOPHARMACOLOGY, 91, 263-266, 2004
45. P.L. Ferrarini, V. Calderone, T. Cavallini, C. Manera, G. Saccomanni, L. Pani, S. Ruiu, G.L. Gessa. Synthesis and biological evaluation of 1,8-naphthyridin-4(1H)-on-3-carboxamide derivatives as new ligands of cannabinoid receptors. BIOORGANIC & MEDICINAL CHEMISTRY, 12, 1921-1933, 2004

46. L. Testai, A.M. Bianucci, I. Massarelli, M.C. Breschi, E. Martinotti, V. Calderone. Torsadogenic cardiotoxicity of antipsychotic drugs: a structural feature, potentially involved in the interaction with cardiac HERG potassium channels. CURRENT MEDICINAL CHEMISTRY, 11, 2691-2706, 2004
47. V. Calderone, L. Testai, E. Martinotti, M. Del Tacca, M.C. Breschi. Drug-induced block of cardiac HERG potassium channels and development of torsade de pointes arrhythmias: the case of antipsychotics. JOURNAL OF PHARMACY AND PHARMACOLOGY, 57, 151-161, 2005
48. L. Testai, S. Chericoni, A. Bader, L. Pistelli, V. Calderone, E. Martinotti. Vasorelaxant effect of the chloroformic crude extract of Bupleurum fruticosum L. (Umbelliferae) roots on rat thoracic aorta. JOURNAL OF ETHNOPHARMACOLOGY, 96, 93-97, 2005
49. P. Grieco, L. Giusti, A. Carotenuto, P. Campiglia, V. Calderone, T. Lama, I. Gomez-Monterrey, G. Tartaro, M.R. Mazzoni, E. Novellino. Morphiceptin analogues containing a dipeptide mimetic structure: an investigation on the bioactive topology at the mu-receptor. JOURNAL OF MEDICINAL CHEMISTRY, 48, 3153-3163, 2005
50. V. Calderone, I. Giorgi, O. Livi, E. Martinotti, A. Martelli, A. Nardi. 1,4-and 2,4-substituted-1,2,3-triazoles as potential potassium channel activators. VII. IL FARMACO, 60, 367-375, 2005
51. V. Calderone, I. Giorgi, O. Livi, E. Martinotti, E. Mantuano, A. Martelli, A. Nardi. Benzoyl and/or benzyl substituted 1,2,3-triazoles as potassium channel activators. VIII. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 40, 521-528, 2005
52. M.C. Breschi, V. Calderone, A. Martelli, F. Minutolo, S. Rapposelli, L. Testai, F. Tonelli, A. Balsamo. New Benzopyran-Based Openers of the Mitochondrial ATP-Sensitive Potassium Channel with Potent Anti-Ischemic Properties. JOURNAL OF MEDICINAL CHEMISTRY, 49, 7600-7602, 2006
53. V. Calderone. Editorial for the special issue on "Drugs targeting potassium channels". CURRENT TOPICS IN MEDICINAL CHEMISTRY, 6, 997-998, 2006
54. V. Calderone, A. Coi, F.L. Fiamingo, I. Giorgi, M. Leonardi, O. Livi, A. Martelli, E. Martinotti. Structural modifications of benzanilide derivatives, effective potassium channel openers. X. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 41, 1421-1429, 2006
55. S. Saponara, L. Testai, D. Iozzi, E. Martinotti, A. Martelli, S. Chericoni, G. Sgaragli, F. Fusi, V. Calderone. (+/-)-Naringenin as large conductance Ca(2+)-activated K(+) (BK(Ca)) channel opener in vascular smooth muscle cells. BRITISH JOURNAL OF PHARMACOLOGY, 149, 1013-1021, 2006
56. Martelli, S. Rapposelli, V. Calderone. NO-Releasing Hybrids of Cardiovascular Drugs. CURRENT MEDICINAL CHEMISTRY, 13, 609-625, 2006
57. M.C. Breschi, V. Calderone, M. Digiacomo, M. Macchia, A. Martelli, E. Martinotti, F. Minutolo, S. Rapposelli, A. Rossello, L. Testai, A. Balsamo. New NO-Releasing Pharmacodynamic Hybrids of Losartan and Its Active Metabolite: Design, Synthesis and Biopharmacological Properties. JOURNAL OF MEDICINAL CHEMISTRY, 49, 2628-2639, 2006
58. T. Tuccinardi, V. Calderone, S. Rapposelli, A. Martinelli. Proposal of a new binding orientation for non-peptide AT1 antagonists: homology modeling, docking and three-dimensional quantitative structure-activity relationship analysis. JOURNAL OF MEDICINAL CHEMISTRY, 49, 4305-4316, 2006
59. Coi, I. Massarelli, L. Murgia, M. Saraceno, V. Calderone, A.M. Bianucci. Prediction of hERG potassium channel affinity by the CODESSA approach. BIOORGANIC & MEDICINAL CHEMISTRY, 14, 3153-3159, 2006
60. Nardi, V. Calderone, P.-S. Olesen. Potassium Channel Openers: the Case of BK Channel Activators. LETTERS IN DRUG DESIGN AND DISCOVERY, 3, 210-218, 2006
61. V. Calderone, F.L. Fiamingo, I. Giorgi, M. Leonardi, O. Livi, A. Martelli, E. Martinotti. Heterocyclic analogs of benzanilide derivatives as potassium channel activators. IX. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 41, 761-767, 2006
62. L. Testai, M.C. Breschi, E. Martinotti, V. Calderone. QT prolongation in anaesthetized guinea-pigs: an experimental approach for preliminary screening in torsadogenecity of drugs and drug candidates. II. JOURNAL OF APPLIED TOXICOLOGY, 27, 270-275, 2007
63. G. Primofiore, S. Taliani, F. Da Settimo, A.M. Marini, C. La Motta, F. Simorini, M.P. Patrizi, V. Sergianni, E. Novellino, G. Greco, B. Cosimelli, V. Calderone, M. Montali, F. Besnard, C. Martini. Novel N-Substituted Indol-3-yl-glyoxylamides Probing the L(Di) and L(1)/L(2) Lipophilic Regions of the Benzodiazepine Receptor Site in Search for Subtype-Selective Ligands. JOURNAL OF MEDICINAL CHEMISTRY, 50, 1627-1634, 2007
64. L. Testai, S. Rapposelli, V. Calderone. Cardiac ATP-Sensitive Potassium Channels: A Potential Target for an Anti-Ischaemic Pharmacological Strategy. CARDIOVASCULAR AND HAEMATOLOGICAL AGENTS IN MEDICINAL CHEMISTRY, 5, 79-90, 2007
65. M.C. Breschi, C. Blandizzi, S. Fogli, C. Martinelli, B. Adinolfi, V. Calderone, M. Camici, E. Martinotti, P. Nieri. In vivo adenosine A(2B) receptor desensitization in guinea-pig airway smooth muscle: Implications for asthma. EUROPEAN JOURNAL OF PHARMACOLOGY, 575, 149-157, 2007
66. V. Calderone, A. Martelli, L. Testai, E. Martinotti, M.C. Breschi. Functional contribution of the endothelial component to the vasorelaxing effect of resveratrol and NS 1619, activators of the large-conductance calcium-activated potassium channels. NAUNYN-SCHMIEDEBERG'S ARCHIVES OF PHARMACOLOGY, 375, 73-80, 2007
67. Balsamo, V. Calderone, S. Rapposelli. New Emerging Prospects in the Pharmacotherapy of Hypertension. CARDIOVASCULAR AND HAEMATOLOGICAL AGENTS IN MEDICINAL CHEMISTRY, 6, 1-19, 2008

68. V. Calderone, F.L. Fiamingo, G. Amato, I. Giorgi, O. Livi, A. Martelli, E. Martinotti. New amido derivatives as potential BKCa potassium channel activators. XI. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 43, 792-799, 2008
69. Coi A, I. Massarelli, L. Testai, V. Calderone, A.M. Bianucci. Identification of "toxicophoric" features for predicting drug-induced QT interval prolongation. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 43, 2479-2488, 2008
70. GiGiorgi, G. Biagi, A.M. Bianucci, A. Borghini, O. Livi, M. Leonardi, D. Pietra, V. Calderone, A. Martelli. N6-1,3-Diphenylurea derivatives of 2-phenyl-9-benzyladenines and 8-azaadenines: Synthesis and biological evaluation as allosteric modulators of A2A adenosine receptors. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 43, 1639-1647, 2008
71. V. Calderone, L. Testai, A. Martelli, S. Rapposelli, M.C. Breschi. Activators of Cardiac Mitochondrial ATP-Sensitive Potassium Channels: promising drugs for anti-ischaemic therapy. CURRENT TOPICS IN PHARMACOLOGY, 11, 81-90, 2007
72. V. Calderone, M. Digiacomo, A. Martelli, F. Minutolo, S. Rapposelli, L. Testai, A. Balsamo. Evaluation of the different NO-releasing properties of NO-donor linkers. JOURNAL OF PHARMACY AND PHARMACOLOGY, 60, 189-195, 2008
73. V. Calderone, F.L. Fiamingo, G. Amato, I.Giorgi, O. Livi, A. Martelli, E. Martinotti. 1,2,3-Triazol-carboxanilides and 1,2,3-triazol-(N-benzyl)-carboxamides as BK-potassium channel activators. XII. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, 43, 2618-2626, 2008
74. V. Calderone, R. Spogli, A. Martelli, G. Manfroni, L. Testai, S. Sabatini, O. Tabarrini, V. Cecchetti. Novel 1,4-Benzothiazine Derivatives as Large Conductance Ca2+-Activated Potassium Channel Openers. JOURNAL OF MEDICINAL CHEMISTRY, 51, 5085-5092, 2008 (I.F. 4.90)
75. Calderone V. An update on hybrid drugs in cardiovascular drug research. EXPERT OPINION ON DRUG DISCOVERY, 3, 1397-1408, 2008
76. Martelli A., Breschi M.C., Calderone V. Pharmacodynamic Hybrids Coupling Established Cardiovascular Mechanisms of Action with Additional Nitric Oxide Releasing Properties. CURRENT PHARMACEUTICAL DESIGN, 15, 614-636, 2009
77. Breschi M.C., Calderone V., Digiacomo M., Manganaro M., Martelli A., Minutolo F., Rapposelli S., Testai L., Tonelli F., Balsamo A. Spirocyclic benzopyran-based derivateves as new anti-ischemic activators of mitochondrial ATP-sensitive potassium canne. JOURNAL OF MEDICINAL CHEMISTRY, 51, 6945-6954, 2008
78. Rapposelli S., Calderone V., Cirilli R., Digiacomo M., Faggi C., La Torre F., Manganaro M., Martelli A., Testai L. Enantioselectivity in Cardioprotection induced by (S)-(-) -2,2-Dimetyl -N-(4'-avetamido-benzyl) -4-spiromorpholone –chromane. JOURNAL OF MEDICINAL CHEMISTRY, 52, 1477-1480, 2009
79. Calderone V., Rapposelli S., Martelli A., Digiacomo M., Testai L., Torri S., Marchetti P., Breschi M.C., Balsamo A. NO-glibenclamide derivatives. Prototypes of a new class of nitric oxide-releasing anti-diabetic drugs, BIOORGANIC & MEDICINAL CHEMISTRY, 17, 5426-5432, 2009
80. Coi A., Fiamingo F.L., Livi L., Calderone V., Martelli A., Massarelli I., Bianucci A.M. QSAR studies on BK channel activators. BIOORGANIC & MEDICINAL CHEMISTRY, 17, 319-325, 2009
81. Coi A., Bianucci AM., Calderone V., Testai L., Digiacomo M., Rapposelli S., Balsamo A. Predicitve models, based on classification algoritms, for compounds potentially active as mitochondrial ATP-sensitive potassium channel openers. BIOORGANIC & MEDICINAL CHEMISTRY, 17, 5565-5571, 2009
82. Coi A., Massarelli I., Saraceno M., Carli N., Testai L., Calderone V., Bianucci A.M. Quantitative structure-activity relationship models for predicting biological properties, developed by combining structure- and ligand-based approaches: an application to the human ether-a-go-go-related gene potassium channel inhibition. CHEMICAL BIOLOGY AND DRUG DESIGN, 74, 416-433, 2009
83. Calderone V, Testai L, Martelli A, Rapposelli S, Digiacomo M, Balsamo A, Breschi MC, "Anti-ischemic properties of a new spiro-cyclic benzopyran activator of the cardiac mito-K(ATP) channel" Biochemical Pharmacology, 79, 39-47, 2010.
84. Calderone V, Testai L, Martelli A, La Motta C, Sartini S, Da Settimo F, Breschi MC, "Anti-ischaemic activity of an antioxidant aldose reductase inhibitor on diabetic and non-diabetic rat hearts" Journal of Pharmacy and Pharmacology, 62(1), 107-113, 2010.
85. Testai L, Cecchetti V, Sabatini S, Martelli A, Breschi MC, Calderone V, "Effects of KATP openers on the QT prolongation induced by HERG-blocking drugs in guinea-pigs" Journal of Pharmacy and Pharmacology, 62(7), 924-930, 2010.
86. Bertini S, Calderone V, Carboni I, Maffei R, Martelli A, Martinelli A, Minutolo F, Rajabi M, Testai L, Tuccinardi T, Ghidoni R, Macchia M, "Synthesis of heterocycle-based analogs of resveratrol and their antitumor and vasorelaxing properties" Bioorganic & Medicinal Chemistry, 18(18), 6715-6724, 2010.
87. Martelli A, Rapposelli S, Breschi MC, Calderone V, "NO-releasing hybrids of cardiovascular drugs" in Frontiers in Medicinal Chemistry, 5, 272-308, ISBN: 90-77527-07-9, 2010.
88. Martelli A, Testai L, Blandizzi C, Virdis A, Taddei S, Breschi MC, Calderone V, "Hydrogen sulphide: Biological functions, pharmacological implications and new opportunities for drug discovery" in Multifunctional Drugs: New Chimeras in Medicinal Chemistry, 1-27, ISBN: 978-81-7895-495-0, 2010.
89. Rapposelli S, Breschi MC, Calderone V, Digiacomo M, Martelli A, Testai L, Vanni M, Balsamo A, "Synthesis and biological evaluation of 5-membered spiro heterocycle-benzopyran derivatives against myocardial ischemia" European Journal of Medicinal Chemistry, 46(3), 966-973, 2011.
90. Biava M, Porretta GC, Poce G, Battilocchio C, Alfonso S, Rovini M, Valenti S, Giorgi G, Calderone V,

Martelli A, Testai L, Sautebin L, Rossi A, Papa G, Ghelardini C, Di Cesare Mannelli L, Giordani A, Anzellotti P, Bruno A, Patrignani P, Anzini M. "Novel analgesic/anti-inflammatory agents: diarylpyrrole acetic esters endowed with nitric oxide releasing properties" Journal of Medicinal Chemistry, 54(22), 7759-7771, 2011.

91. Da Pozzo E, Barsotti MC, Bendinelli S, Martelli A, Calderone V, Balbarini A, Martini C, Di Stefano R, "Differential Effects of Fondaparinux and Bemiparin on Angiogenic and Vasculogenesis-like processes" Thrombosis Research,130(3), 113-22, 2012.
92. Martelli A, Testai L, Marino A, Breschi MC, Da Settimo F, Calderone V. "Hydrogen sulphide: biopharmacological roles in the cardiovascular system and pharmaceutical perspectives" Current Medicinal Chemistry, 19(20), 3325-3336, 2012.
93. Martelli A., Testai L., Breschi M.C., Blandizzi C., Virdis A., Taddei S., Calderone V. "Hydrogen sulphide: Novel opportunity for drug discovery" Medicinal Research Reviews, 32(6), 1093-1130, 2012.
94. Biava M, Battilocchio C, Poce G, Alfonso S, Consalvi S, Porretta GC, Schenone S, Calderone V, Martelli A, Testai L, Ghelardini C, Di Cesare Mannelli L, Sautebin L, Rossi A, Giordani A, Patrignani P, Anzini M, "Improving the Solubility of a New Class of Antiinflammatory Pharmacodynamic Hybrids, that Release Nitric Oxide and Inhibit Cycloxygenase-2 Isoenzyme" European Journal of Medicinal Chemistry, 58, 287-298, 2012.
95. Martelli A, Testai L, Breschi MC, Lawson K, McKay NG, Miceli F, Taglialatela M, Calderone V, "Vasorelaxation by hydrogen sulphide involves activation of Kv7 potassium channels" Pharmacological Research, 70(1), 27-34, 2013.
96. Testai L, Martelli A, Marino A, D'Antongiovanni V, Ciregia F, Giusti L, Lucacchini A, Chericoni S, Breschi MC, Calderone V, "The activation of mitochondrial BK potassium channels contributes to the protective effects of naringenin against myocardial ischemia/reperfusion injury" Biochemical Pharmacology, 85(11), 1634–1643, 2013.
97. Testai L, Martelli A, Cristofaro M, Breschi MC, Calderone V, "Cardioprotective effects of different flavonoids against myocardial ischaemia/reperfusion injury in Langendorff-perfused rat hearts" Journal of Pharmacy and Pharmacology, 65(5), 750-756, 2013.
98. Martelli A, Manfroni G, Sabbatini P, Barreca ML, Testai L, Novelli M, Sabatini S, Massari S, Tabarrini O, Masiello P, Calderone V, Cecchetti V, "1,4-Benzothiazine ATP-sensitive potassium channel openers: modifications at the C-2 and C-6 positions" Journal of Medicinal Chemistry, 56(11), 4718-4728, 2013.
99. Kirby RW, Martelli A, Calderone V, McKay NG, Lawson K, "Large conductance Ca(2+)-activated K(+) channel (BKCa) activating properties of a series of novel N-arylbenzamides: Channel subunit dependent effects" Bioorganic & Medicinal Chemistry, 21(14), 4186-4191, 2013.
100. Fogli S, Stefanelli F, Martelli A, Daniele S, Testai L, Calderone V, Trincavelli ML, Martini C, Breschi MC, "Protective effect of high-dose montelukast on salbutamol-induced homologous desensitisation in airway smooth muscle" Pulmonary Pharmacology and Therapeutics, 26(6), 693-699, 2013.
101. Martelli A, Testai L, Citi V, Marino A, Pugliesi I, Barresi E, Nesi G, Rapposelli S, Taliani S, Da Settimo F, Breschi MC, Calderone V, "Arylthioamides as H2S Donors: L-Cysteine-Activated Releasing Properties and Vascular Effects in Vitro and in Vivo" ACS Medicinal Chemistry Letters, 4 (10), 904–908, 2013.
102. Martelli A, Testai L, Anzini M, Cappelli A, Di Capua A, Biava MA, Poce G, Consalvi S, Giordani A, Caselli G, Rovati L, Ghelardini C, Patrignani P, Sautebin L, Breschi MC, Calderone V, "The novel anti-inflammatory agent VA694, endowed with both NO-releasing and COX2-selective inhibiting properties, exhibits NO-mediated positive effects on blood pressure, coronary flow and endothelium in an experimental model of hypertension and endothelial dysfunction" Pharmacological Research, 78, 1-9, 2013.
103. Fornai M, Antonioli L, Colucci R, Pellegrini C, Giustarini G, Testai L, Martelli A, Matarangasi A, Natale G, Calderone V, Scarpignato C, Tuccori M, Blandizzi C, "NSAID-induced enteropathy: are the currently available selective COX-2 inhibitors all the same?" Journal of Pharmacology and Experimental Therapeutics, 348(1), 86-95, 2014.
104. Martelli A, Testai L, Citi V, Marino A, Bellagambi FG, Ghimenti S, Breschi MC, Calderone V, "Pharmacological characterization of the vascular effects of aryl isothiocyanates: is hydrogen sulfide the real player?" Vascular Pharmacology, 60(1), 32-41, 2014.
105. Biava M, Battilocchio C, Poce G, Alfonso S, Consalvi S, Di Capua A, Calderone V, Martelli A, Testai L, Sautebin L, Rossi A, Ghelardini C, Di Cesare Mannelli L, Giordani A, Persiani S, Colovic M, Dovizio M, Patrignani P, Anzini M, "Enhancing the pharmacodynamic profile of a class of selective COX-2 inhibiting nitric oxide donors" Bioorganic & Medicinal Chemistry, 22(2), 772-786, 2014.
106. Bucci M, Vellecco V, Cantalupo A, Brancaleone V, Zhou Z, Evangelista S, Calderone V, Papapetropoulos A, Cirino G, "Hydrogen sulfide accounts for the peripheral vascular effects of zofenopril independently of ACE inhibition" Cardiovascular Research, 102(1), 138-147, 2014.
107. Citi V, Martelli A, Testai L, Marino A, Breschi MC, Calderone V. "Hydrogen sulfide releasing capacity of natural isothiocyanates: is it a reliable explanation for the multiple biological effects of Brassicaceae?" Planta Medica, 80(8-9), 610-613, 2014.
108. F. Roviezzo, A. Bertolino, R. Sorrentino, M. Terlizzi, M. Matteis, V. Calderone, V. Mattera, A. Martelli, G. Spaziano, A. Pinto, B. D'Agostino, G. Cirino. Hydrogen sulfide inhalation ameliorates allergen induced airway hypereactivity by modulating mast cell activation. Pharmacological Research, 100, 85-92, 2015.
109. A. Martelli, L. Testai, M.C. Breschi, V. Calderone. Inhibitors of the renal outer medullary potassium channel: a patent review. Expert Opinion in Therapeutic Patents, 25(9),1035-1051, 2015.

110. L. Testai, V. D'Antongiovanni, I. Piano, A. Martelli, V. Citi, E. Duranti, A. Virdis, C. Blandizzi, C. Gargini, M.C. Breschi, V. Calderone. Different patterns of H2S/NO activity and cross-talk in the control of the coronary vascular bed under normotensive or hypertensive conditions. Nitric Oxide, 47, 25-33, 2015.
111. M. Digiacomo, A. Martelli, L. Testai, A. Lapucci, M.C. Breschi, V. Calderone, S. Rapposelli. Synthesis and evaluation of multi-functional NO-donor/insulin-secretagogue derivatives for the treatment of type II diabetes and its cardiovascular complications. Bioorganic & Medicinal Chemistry, 23(3), 422-428, 2015.
112. L. Testai, S. Rapposelli, A. Martelli, M.C. Breschi, V. Calderone. Mitochondrial potassium channels as pharmacological target for cardioprotective drugs. Medicinal Research Review, 35(3), 520-553, 2015.
113. Consalvi S, Poce G, Ragno R, Sabatino M, La Motta C, Sartini S, Calderone V, Martelli A, Ghelardini C, Di Cesare Mannelli L, Biava M. A Series of COX-2 Inhibitors Endowed with NO-Releasing Properties: Synthesis, Biological Evaluation, and Docking Analysis. ChemMedChem, In Press; doi: 10.1002/cmdc.201600086. 2016
114. Brancaleone V, Esposito I, Gargiulo A, Vellecco V, Asimakopoulou A, Citi V, Calderone V, Gobbetti T, Perretti M, Papapetropoulos A, Bucci M, Cirino G. d-Penicillamine modulates hydrogen sulfide (H2 S) pathway through selective inhibition of cystathionine-γ-lyase. British Journal of Pharmacology, 173(9), 1556-65, 2016.
115. Testai L, Barrese V, Soldovieri MV, Ambrosino P, Martelli A, Vinciguerra I, Miceli F, Greenwood IA, Curtis MJ, Breschi MC, Sisalli MJ, Scorziello A, Canduela MJ, Grandes P, Calderone V, Taglialatela M. Expression and function of Kv7.4 channels in rat cardiac mitochondria: possible targets for cardioprotection. Cardiovascular Research, 110(1), 40-50, 2016.
116. Calderone V, Martelli A, Testai L, Citi V, Breschi MC. Using hydrogen sulfide to design and develop drugs. Expert Opinion in Drug Discovery, 11,163-75, 2016.
117. Sestito S, Nesi G, Daniele S, Martelli A, Digiacomo M, Borghini A, Pietra D, Calderone V, Lapucci A, Falasca M, Parrella P, Notarangelo A, Breschi MC, Macchia M, Martini C, Rapposelli S. Design and synthesis of 2-oxindole based multi-targeted inhibitors of PDK1/Akt signaling pathway for the treatment of glioblastoma multiforme. European Journal of Medicinal Chemistry, 105, 274-88, 2016.
118. Vellecco V, Mancini A, Ianaro A, Calderone V, Attanasio C, Cantalupo A, Andria B, Savoia G, Panza E, Di Martino A, Cirino G, Bucci M. Cystathionine β-synthase-derived hydrogen sulfide is involved in human malignant hyperthermia. Clinical Science (Lond), 130(1), 35-44, 2016.
119. Testai L, Marino A, Piano I, Brancaleone V, Tomita K, Di Cesare Mannelli L, Martelli A, Citi V, Breschi MC, Levi R, Gargini C, Bucci M, Cirino G, Ghelardini C, Calderone V.The novel H2S-donor 4-carboxyphenyl isothiocyanate promotes cardioprotective effects against ischemia/reperfusion injury through activation of mitoKATP channels and reduction of oxidative stress. Pharmacol Research, 113, 290-299, 2016.
120. Testai L, Chericoni S, Martelli A, Flamini G, Breschi MC, Calderone V. Voltage-operated potassium (Kv) channels contribute to endothelium-dependent vasorelaxation of carvacrol on rat aorta. Journal of Pharmacy and Pharmacology, 68, 1177-1183, 2016.
121. Marino A, Martelli A, Citi V, Fu M, Wang R, Calderone V, Levi R. The novel H2 S donor 4-carboxy-phenyl isothiocyanate inhibits mast cell degranulation and renin release by decreasing intracellular calcium. British Journal of Pharmacology, 173, 3222-3234, 2016.
122. Testai L, Strobykina I, Semenov VV, Semenova M, Pozzo ED, Martelli A, Citi V, Martini C, Breschi MC, Kataev VE, Calderone V. Mitochondriotropic and Cardioprotective Effects of Triphenylphosphonium-Conjugated Derivatives of the Diterpenoid Isosteviol. Int J Mol Sci. 2017 18(10). pii: E2060. doi: 10.3390/ijms18102060.
123. Rapposelli S, Gambari L, Digiacomo M, Citi V, Lisignoli G, Manferdini C, Calderone V, Grassi F. A Novel H2S-releasing Amino-Bisphosphonate which combines bone anti-catabolic and anabolic functions. Sci Rep. 2017;7(1):11940. doi: 10.1038/s41598-017-11608-z.
124. Barresi E, Nesi G, Citi V, Piragine E, Piano I, Taliani S, Da Settimo F, Rapposelli S, Testai L, Breschi MC, Gargini C, Calderone V, Martelli A. Iminothioethers as Hydrogen Sulfide Donors: From the Gasotransmitter Release to the Vascular Effects. J Med Chem. 2017;60(17):7512-7523. doi: 10.1021/acs.jmedchem.7b00888. Epub 2017 Aug 25.
125. Testai L, Calderone V. Nutraceutical Value of Citrus Flavanones and Their Implications in Cardiovascular Disease. Nutrients. 2017;9(5). pii: E502. doi: 10.3390/nu9050502.
126. Di Cesare Mannelli L, Lucarini E, Micheli L, Mosca I, Ambrosino P, Soldovieri MV, Martelli A, Testai L, Taglialatela M, Calderone V, Ghelardini C Effects of natural and synthetic isothiocyanate-based H2S-releasers against chemotherapy-induced neuropathic pain: Role of Kv7 potassium channels. Neuropharmacology. 2017;121:49-59. doi: 10.1016/j.neuropharm.2017.04.029.
127. Da Pozzo E, Costa B, Cavallini C, Testai L, Martelli A, Calderone V, Martini C. The Citrus Flavanone Naringenin Protects Myocardial Cells against Age-Associated Damage. Oxid Med Cell Longev. 2017:9536148. doi: 10.1155/2017/9536148.
128. Testai L, Da Pozzo E, Piano I, Pistelli L, Gargini C, Breschi MC, Braca A, Martini C, Martelli A, Calderone V. The Citrus Flavanone Naringenin Produces Cardioprotective Effects in Hearts from 1 Year Old Rat, through Activation of mitoBK Channels. Front Pharmacol. 2017;8:71. doi: 10.3389/fphar.2017.00071.
129. De Cicco P, Panza E, Armogida C, Ercolano G, Taglialatela-Scafati O, Shokoohinia Y, Camerlingo R, Pirozzi G, Calderone V, Cirino G, Ianaro A. The Hydrogen Sulfide Releasing Molecule Acetyl Deacylasadisulfide Inhibits Metastatic Melanoma. Front Pharmacol. 2017;8:65. doi: 10.3389/fphar.2017.00065.

130. Lucarini E, Micheli L, Martelli A, Testai L, Calderone V, Ghelardini C, Di Cesare Mannelli L. Efficacy of isothiocyanate-based compounds on different forms of persistent pain. J Pain Res. 2018;11:2905-2913. doi: 10.2147/JPR.S161882.
131. Cuffaro D, Camodeca C, D'Andrea F, Piragine E, Testai L, Calderone V, Orlandini E, Nuti E, Rossello A. Matrix metalloproteinase-12 inhibitors: synthesis, structure-activity relationships and intestinal absorption of novel sugar-based biphenylsulfonamide carboxylates. Bioorg Med Chem. 2018;26(22):5804-5815. doi: 10.1016/j.bmc.2018.10.024.
132. Da Pozzo E, De Leo M, Faraone I, Milella L, Cavallini C, Piragine E, Testai L, Calderone V, Pistelli L, Braca A, Martini C. Antioxidant and Antisenescence Effects of Bergamot Juice. Oxid Med Cell Longev. 2018;2018:9395804. doi: 10.1155/2018/9395804.
133. Lucarini E, Micheli L, Trallori E, Citi V, Martelli A, Testai L, De Nicola GR, Iori R, Calderone V, Ghelardini C, Di Cesare Mannelli L. Effect of glucoraphanin and sulforaphane against chemotherapy-induced neuropathic pain: Kv7 potassium channels modulation by H2 S release in vivo. Phytother Res. 2018;32(11):2226-2234. doi: 10.1002/ptr.6159
134. Citi V, Del Re M, Martelli A, Calderone V, Breschi MC, Danesi R. Phosphorylation of AKT and ERK1/2 and mutations of PIK3CA and PTEN are predictive of breast cancer cell sensitivity to everolimus in vitro. Cancer Chemother Pharmacol. 2018;81(4):745-754. doi: 10.1007/s00280-018-3543-6.
135. Mitidieri E, Tramontano T, Gurgone D, Citi V, Calderone V, Brancaleone V, Katsouda A, Nagahara N, Papapetropoulos A, Cirino G, d'Emmanuele di Villa Bianca R, Sorrentino R. Mercaptopyruvate acts as endogenous vasodilator independently of 3-mercaptopyruvate sulfurtransferase activity. Nitric Oxide. 2018;75:53-59.
136. Citi V, Piragine E, Testai L, Breschi MC, Calderone V, Martelli A. The Role of Hydrogen Sulfide and H2S-donors in Myocardial Protection Against Ischemia/Reperfusion Injury. Curr Med Chem. 2018;25(34):4380-4401. doi: 10.2174/0929867325666180212120504.
137. Severino B, Corvino A, Fiorino F, Luciano P, Frecentese F, Magli E, Saccone I, Di Vaio P, Citi V, Calderone V, Servillo L, Casale R, Cirino G, Vellecco V, Bucci M, Perissutti E, Santagada V, Caliendo G. 1,2,4-Thiadiazolidin-3,5-diones as novel hydrogen sulfide donors. Eur J Med Chem. 2018;143:1677-1686. doi: 10.1016/j.ejmech.2017.10.068.
138. Calderone V, Martelli A, Piragine E, Citi V, Testai L, Breschi MC. Outer Medullary Potassium Channel (ROMK): An Intriguing Pharmacological Target for an Innovative Class of Diuretic Drugs. Curr Med Chem. 2018;25(23):2627-2636. doi: 10.2174/0929867324666171012120937.
139. Citi V, Calderone V, Martelli A, Breschi MC, Testai L. Pathophysiological Role of Mitochondrial Potassium Channels and their Modulation by Drugs. Curr Med Chem. 2018;25(23):2661-2674. doi: 10.2174/0929867324666171012115300.
140. Martelli A, Piragine E, Citi V, Testai L, Pagnotta E, Ugolini L, Lazzeri L, Di Cesare Mannelli L, Manzo OL, Bucci M, Ghelardini C, Breschi MC, Calderone V. Erucin exhibits vasorelaxing effects and antihypertensive activity by H2 S-releasing properties. Br J Pharmacol. 2019. In Press. doi: 10.1111/bph.14645.
141. Ercolano G, De Cicco P, Frecentese F, Saccone I, Corvino A, Giordano F, Magli E, Fiorino F, Severino B, Calderone V, Citi V, Cirino G, Ianaro A.Anti-metastatic Properties of Naproxen-HBTA in a Murine Model of Cutaneous Melanoma. Front Pharmacol. 2019;10:66. doi: 10.3389/fphar.2019.00066.
142. Citi V, Piragine E, Pagnotta E, Ugolini L, Di Cesare Mannelli L, Testai L, Ghelardini C, Lazzeri L, Calderone V, Martelli A. Anticancer properties of erucin, an H2 S-releasing isothiocyanate, on human pancreatic adenocarcinoma cells (AsPC-1). Phytother Res. 2019. In Press. doi: 10.1002/ptr.6278.
143. Fortunato S, Lenzi C, Granchi C, Citi V, Martelli A, Calderone V, Di Pietro S, Signore G, Di Bussolo V, Minutolo F. First examples of H2S-releasing glycoconjugates: stereoselective synthesis and anticancer activities. Bioconjug Chem. 2019. In Press. doi: 10.1021/acs.bioconjchem.8b00808.

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Resveratrol treatment reduces the vulnerability of SH-SY5Y cells and cortical neurons overexpressing SOD1-G93A to Thimerosal toxicity through SIRT1/DREAM/PDYN pathway

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2017
Guida Natascia, Laudati Giusy, Mascolo Luigi, Valsecchi Valeria, Sirabella Rossana, Selleri Carmine, Di Renzo Gianfranco, Canzoniero Lorella M T, Formisano Luigi (2017). p38/Sp1/Sp4/HDAC4/BDNF Axis Is a Novel Molecular Pathway of the Neurotoxic Effect of the Methylmercury. FRONTIERS IN NEUROSCIENCE, vol. 11, ISSN: 1662-4548, doi: 10.3389/fnins.2017.00008

2016
Guida Natascia, Laudati Giusy, Mascolo Luigi, Cuomo Ornella, Anzilotti Serenella, Sirabella Rossana, Santopaolo Marianna, Galgani Mario, Montuori Paolo, Di Renzo Gianfranco, Canzoniero Lorella M T, Formisano Luigi (2016). MC1568 Inhibits Thimerosal-Induced Apoptotic Cell Death by Preventing HDAC4 Up-Regulation in Neuronal Cells and in Rat Prefrontal Cortex. TOXICOLOGICAL SCIENCES, ISSN: 1096-6080, doi: 10.1093/toxsci/kfw157

Guida Natascia, Laudati Giusy, Anzilotti Serenella, Sirabella Rossana, Cuomo Ornella, Brancaccio Paola, Santopaolo Marianna, Galgani Mario, Montuori Paolo, Di Renzo Gianfranco, Canzoniero Lorella M.T, Formisano Luigi (2016). Methylmercury upregulates RE-1 silencing transcription factor (REST) in SH-SY5Y cells and mouse cerebellum. NEUROTOXICOLOGY, vol. 52, p. 89-97, ISSN: 0161-813X, doi: 10.1016/j.neuro.2015.11.007

Molinaro Pasquale, Sirabella Rossana, Pignataro Giuseppe, Petrozziello Tiziana, Secondo Agnese, Boscia Francesca, Vinciguerra Antonio, Cuomo Ornella, Philipson Kenneth D, De Felice Mario, Di Lauro Roberto, Di Renzo Gianfranco, Annunziato Lucio (2016). Neuronal NCX1 overexpression induces stroke resistance while knockout induces vulnerability via Akt. JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM, vol. 36, p. 1790-1803, ISSN: 0271-678X, doi: 10.1177/0271678X1561191

Cuomo Ornella, Pignataro Giuseppe, Sirabella Rossana, Molinaro Pasquale, Anzilotti Serenella, Scorziello Antonella, Sisalli Maria Josè, Di Renzo Gianfranco, Annunziato Lucio (2016). Sumoylation of LYS590 of NCX3 f-Loop by SUMO1 Participates in Brain Neuroprotection Induced By Ischemic Preconditioning. STROKE, vol. 47, p. 1085-93-1093, ISSN: 0039-2499, doi: 10.1161/STROKEAHA.115.012514

2015

Molinaro P, Pannaccione A, Sisalli MJ, Secondo A, Cuomo O, Sirabella R, Cantile M, Ciccone R, Scorziello A, di Renzo G, Annunziato L (2015). A New Cell-penetrating Peptide That Blocks the Autoinhibitory XIP Domain of NCX1 and Enhances Antiporter Activity. MOLECULAR THERAPY, vol. 23, p. 465-476, ISSN: 1525-0016, doi: 10.1038/mt.2014.231

Secondo A, Esposito A, Sirabella R, Boscia F, Pannaccione A, Molinaro P, Cantile M, Ciccone R, Sisalli MJ, Scorziello A, Di Renzo G, Annunziato L (2015). Involvement of the Na+/Ca2+ exchanger isoform 1 (NCX1) in NGF-induced Neuronal Differentiation through Ca2+-Dependent Akt Phosphorylation.. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 290, p. 1319-1331, ISSN: 0021-9258, doi: 10.1074/jbc.M114.555516

Cuomo Ornella, Vinciguerra Antonio, Cerullo Pierpaolo, Anzilotti Serenella, Brancaccio Paola, Bilo Leonilda, Scorziello Antonella, Molinaro Pasquale, Di Renzo Gianfranco, Pignataro Giuseppe (2015). Ionic homeostasis in brain conditioning. FRONTIERS IN NEUROSCIENCE, vol. 9, ISSN: 1662-4548, doi: 10.3389/fnins.2015.00277

Secondo A, Esposito A, Sirabella R, Boscia F, Pannaccione A, Molinaro P, Cantile M, Ciccone R, Sisalli MJ, Scorziello A, Di Renzo G, Annunziato L (2015). Involvement of the Na+/Ca2+ exchanger isoform 1 (NCX1) in neuronal growth factor (NGF)-induced neuronal differentiation through Ca2+-dependent Akt phosphorylation. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 290, p. 1319-1331, ISSN: 0021-9258, doi: 10.1074/jbc.M114.555516

Formisano Luigi, Guida Natascia, Laudati Guisy, Mascolo Luigi, Di Renzo Gianfranco, Canzoniero Lorella M. T. (2015). MS-275 inhibits aroclor 1254-induced SH-SY5Y neuronal cell toxicity by preventing the formation of the HDAC3/REST complex on the synapsin-1 promoter. JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 352, p. 236-243, ISSN: 0022-3565, doi: 10.1124/jpet.114.219345

Pignataro Giuseppe, Ziaco Barbara, Tortiglione Anna, Gala Rosaria, Cuomo Ornella, Vinciguerra Antonio, Lapi Dominga, Mastantuono Teresa, Anzilotti Serenella, D'Andrea Luca Domenico, Pedone Carlo, di Renzo Gianfranco, Annunziato Lucio, Cataldi Mauro (2015). Neuroprotective Effect of VEGF-Mimetic Peptide QK in Experimental Brain Ischemia Induced in Rat by Middle Cerebral Artery Occlusion. ACS CHEMICAL NEUROSCIENCE, vol. 6, p. 1517-1525, ISSN: 1948-7193, doi: 10.1021/acschemneuro.5b00175

Secondo Agnese, Pignataro Giuseppe, Ambrosino Paolo, Pannaccione Anna, Molinaro Pasquale, Boscia Francesca, Cantile Maria, Cuomo Ornella, Esposito Alba, Sisalli Maria Josè, Scorziello Antonella, Guida Natascia, Anzilotti Serenella, Fiorino Ferdinando, Severino Beatrice, Santagada Vincenzo, Caliendo Giuseppe, Di Renzo Gianfranco, Annunziato Lucio (2015). Pharmacological characterization of the newly synthesized 5-amino-N-butyl-2-(4-ethoxyphenoxy)-benzamide hydrochloride (BED) as a potent NCX3 inhibitor that worsens anoxic injury in cortical neurons, organotypic hippocampal cultures, and ischemic brain. ACS CHEMICAL NEUROSCIENCE, vol. 6, p. 1361-1370, ISSN: 1948-7193, doi: 10.1021/acschemneuro.5b00043

Cocco Stefania, Secondo Agnese, Del Viscovo Adelaide, Procaccini Claudio, Formisano Luigi, Franco Cristina, Esposito Alba, Scorziello Antonella, Matarese Giuseppe, Di Renzo Gianfranco, Canzoniero Lorella Maria Teresa (2015). Polychlorinated Biphenyls Induce Mitochondrial Dysfunction in SH-SY5Y Neuroblastoma Cells. PLOS ONE, vol. 10, p. e0129481-e0129485, ISSN: 1932-6203, doi: 10.1371/journal.pone.0129481

Guida Natascia, Laudati Giusy, Anzilotti Serenella, Secondo Agnese, Montuori Paolo, Di Renzo Gianfranco, Canzoniero Lorella M.T., Formisano Luigi (2015). Resveratrol via sirtuin-1 downregulates RE1-silencing transcription factor (REST) expression preventing PCB-95-induced neuronal cell death. TOXICOLOGY AND APPLIED PHARMACOLOGY, vol. 288, p. 387-398, ISSN: 0041-008X, doi: 10.1016/j.taap.2015.08.010

Formisano Luigi, Guida Natascia, Valsecchi Valeria, Cantile Maria, Cuomo Ornella, Vinciguerra Antonio, Laudati Giusy, Pignataro Giuseppe, Sirabella Rossana, Di Renzo Gianfranco, Annunziato Lucio (2015). Sp3/REST/HDAC1/HDAC2 complex represses and Sp1/HIF-1/p300 complex activates ncx1 gene transcription, in brain ischemia and in ischemic brain preconditioning, by Epigenetic mechanism. THE JOURNAL OF NEUROSCIENCE, vol. 35, p. 7332-7348, ISSN: 0270-6474, doi: 10.1523/JNEUROSCI.2174-14.2015

Manno Maurizio, Di Renzo Gianfranco, Bianco Pasquale, Sbordone Carmine, De Matteis Francesco (2015). Unique Scopolamine Withdrawal Syndrome After Standard Transdermal Use. CLINICAL NEUROPHARMACOLOGY, vol. 38, p. 204-205, ISSN: 0362-5664, doi: 10.1097/WNF.0000000000000099

2014
Guida N, Laudati G, Galgani M, Santopaolo M, Montuori P, Triassi M, Di Renzo G, Canzoniero LM, Formisano L.
Histone deacetylase 4 promotes ubiquitin-dependent proteasomal degradation of Sp3 in SH-SY5Y cells treated with di(2-ethylhexyl)phthalate (DEHP), determining neuronal death.
Toxicol Appl Pharmacol. 2014 Jul 25. pii: S0041-008X(14)00274-9. doi: 10.1016/j.taap.2014.07.014. [Epub ahead of print]
PMID: 25068794 [PubMed - as supplied by publisher]
Related citations
Select item 25032854

Cantarella G, Pignataro G, Di Benedetto G, Anzilotti S, Vinciguerra A, Cuomo O, Di Renzo GF, Parenti C, Annunziato L, Bernardini R
Ischemic tolerance modulates TRAIL expression and its receptors and generates a neuroprotected phenotype.
Cell Death Dis. 2014 Jul 17;5:e1331. doi: 10.1038/cddis.2014.286

2013
Vinciguerra A, Formisano L, Cerullo P, Guida N, Cuomo O, Esposito A, Di Renzo G, Annunziato L, Pignataro G.
MicroRNA-103-1 Selectively Downregulates Brain NCX1 and Its Inhibition by Anti-miRNA Ameliorates Stroke Damage and Neurological Deficits.
Mol Ther. 2014 Jun 23. doi: 10.1038/mt.2014.113. [Epub ahead of print

Pignataro G, Sirabella R, Anzilotti S, Di Renzo G, Annunziato L.
Does Na^+/Ca^{2+} exchanger, NCX, represent a new druggable target in stroke intervention?
Transl Stroke Res. 2014 Feb;5(1):145-55. doi: 10.1007/s12975-013-0308-8. Epub 2013 Nov
PMID: 24323727 [PubMed - in process]
Related citations
Select item 24236205

Cuomo O, Rispoli V, Leo A, Politi GB, Vinciguerra A, di Renzo G, Cataldi M.
The antiepileptic drug levetiracetam suppresses non-convulsive seizure activity and reduces ischemic brain damage in rats subjected to permanent middle cerebral artery occlusion.
PLoS One. 2013 Nov 13;8(11):e80852. doi: 10.1371/journal.pone.0080852. eCollection 2013

2012 - Articolo in rivista
Trimarco V, de Simone G, Izzo R, De Luca N, Giudice R, Marino M, Damiano S, Rozza F, Trimarco B, Di Renzo G (2012). Persistence and adherence to antihypertensive treatment in relation to initial prescription: diuretics versus other classes of antihypertensive drugs.. JOURNAL OF HYPERTENSION,
vol. 30, p. 1225-1232, ISSN: 0263-6352, doi: 10.1097/HJH.0b013e328353398b
2011 - Articolo in rivista
Secondo A, Molinaro P, Pannaccione A, Esposito A, Cantile M, Lippiello P, Sirabella R, Iwamoto T, Di Renzo G, Annunziato L. (2011). Nitric oxide stimulates NCX1 and NCX2 but inhibits NCX3 isoform by three distinct molecular determinants. MOLECULAR PHARMACOLOGY, vol. 79, p. 558-568, ISSN:

0026-895X, doi: 10.1124/mol.110.069658

Molinaro P, Viggiano D, Nisticò R, Sirabella R, Secondo A, Boscia F, Pannaccione A, Scorziello A, Mehdawy B, Sokolow S, Herchuelz A, Di Renzo GF, Annunziato L. (2011). Na+-Ca2+ Exchanger (NCX3) Knock-Out Mice Display an Impairment in Hippocampal Long-Term Potentiation and Spatial Learning and Memory. THE JOURNAL OF NEUROSCIENCE, vol. 31, p. 7312-7321, ISSN: 0270-6474, doi: 10.1523/JNEUROSCi.6296-10.2011

2011 - Articolo in rivista

Russo M, Cocco S, Secondo A, Adornetto A, Bassi A, Nunziata A, Polichetti G, De Felice B, Damiano S,Serù R, Mondola P, Di Renzo G (2011). Cigarette Smoke Condensate Causes a Decrease of the Gene Expression of Cu-Zn Superoxide Dismutase, Mn Superoxide Dismutase, Glutathione Peroxidase, Catalase, and Free Radical-Induced Cell Injury in SH-SY5Y Human Neuroblastoma Cells. NEUROTOXICITY RESEARCH, vol. 19, p. 49-54, ISSN: 1029-8428, doi: 10.1007/s12640-009-9138-6

2011 - Articolo in rivista

Valsecchi V, Pignataro G, Del Prete A, Sirabella R, Matrone C, Boscia F, Scorziello A, Sisalli MJ, Esposito E, Zambrano N, Di Renzo G, Annunziato L. (2011). NCX1 Is a Novel Target Gene for Hypoxia-Inducible Factor-1 in Ischemic Brain Preconditioning. STROKE, vol. 42, p. 754-763, ISSN: 0039-2499, doi: 10.1161/STROKEAHA.110.597583

2011 - Articolo in rivista

Pignataro G, Esposito E, Cuomo O, Sirabella R, Boscia F, Guida N, Di Renzo G, Annunziato L (2011). The NCX3 isoform of the Na(+)/Ca(2+) exchanger contributes to neuroprotection elicited by ischemic postconditioning. JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM, vol. 31, p. 362-370, ISSN: 0271-678X, doi: 10.1038/jcbfm.2010.100

2009 - Articolo in rivista

Sirabella R, Secondo A, Pannaccione A, Scorziello A, Valsecchi V, Adornetto A, Bilo L, Di Renzo G, Annunziato L (2009). Anoxia-induced NF-kappaB-dependent upregulation of NCX1 contributes to Ca2+ refilling into endoplasmic reticulum in cortical neurons. STROKE, vol. 40, p. 922-929, ISSN: 0039-2499, doi: 10.1161/STROKEAHA.108.531962

2009 - Articolo in rivista

Boscia F, Gala R, Pannaccione A, Secondo A, Scorziello A, Di Renzo G, Annunziato L (2009). NCX1 Expression and Functional Activity Increase in Microglia Invading the Infarct Core. STROKE, vol. 40, p. 3608-3617, ISSN: 0039-2499, doi: 10.1161/STROKEAHA.109.557439

2009 - Articolo in rivista

PIGNATARO G, SCORZIELLO A, DI RENZO G, ANNUNZIATO L (2009). Post-ischemic brain damage: effect of ischemic preconditioning and postconditioning and identification of potential candidates for stroke therapy. THE FEBS JOURNAL, vol. 276, p. 46-57, ISSN: 1742-4658, doi: 10.1111/j.1742-4658.2008.06769.x