

Curriculum Vitae
Dr. Daniele Mancardi

Titolo di studio: Dottorato di ricerca in Fisiologia, Laurea in Scienze Naturali
Data di nascita: 15 Agosto 1972
Luogo di nascita: Torino, Italia
Stato civile: Coppia di fatto, una figlia
Genere: Maschio
Istituzione di appartenenza: Università degli Studi di Torino, Dipartimento di Scienze Cliniche e Biologiche
Indirizzo: ASO San Luigi Gonzaga, Regione Gonzole, 10. 10043 Orbassano (TO), Italia.
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Formazione e esperienze professionali:

2019- Progetto IRIDI Incubatore di Ricerca Didattica per l'Innovazione, Livello II;
2018- Progetto IRIDI Incubatore di Ricerca Didattica per l'Innovazione, Livello I;
2015- 3 mesi- WWS fellowship, Universidade do Rio Grande do Sul, Porto Alegre, Brasile;
2013: 6 mesi- Periodo di ricerca presso la Lakehead University, Thunder Bay, ON, Canada;
2012: 7 mesi- Periodo di ricerca presso la Lakehead University, Thunder Bay, ON, Canada;
2008- Oggi: Ricercatore, settore BIO/09 (Fisiologia), Università di Torino;
2008: Assegnista del bando “*Brain Drain Containing*”, Università di Torino;
2006: Borsa di studio della Regione Piemonte, Università di Torino;
2006: Borsa postdoc dell'Istituto Nazionale per le Ricerche Cardiovascolari;
2005: Borsa postdoc della Regione Piemonte presso l'Università di Torino;
2005: Borsa postdoc al Radiation Biology Ranch degli NIHs, Bethesda, MD, USA;
2003-2005: Studente del Dottorato in Fisiologia presso gli NIHs di Bethesda, MD, USA;
2001-2005: Studente di Dottorato in Fisiologia, Università di Torino;
2000-2001: Borsa di addestramento alla ricerca, Università di Torino.

Tecniche sperimentali:

Chirurgia toracica *In vivo* su modelli murini e grossi animali;
Tecniche *Ex vivo*: cuore di roditore isolato e perfuso secondo il modello Langedorff;
Saggi spettrofotometrici;
Biologia molecolare: immunoistochimica, espressione proteica, RT- e Real Time-PCR;
Colture cellulari di linee immortalizzate e primarie;
Sviluppo di programmi per l'acquisizione e l'analisi di dati sperimentali.

Premi e riconoscimenti:

2017- Conseguimento dell'Abilitazione Scientifica Nazionale per II fascia, Settore BIO/09;
2007- Vincitore del premio Giovani Ricercatori della Società Italiana di Fisiologia;

Didattica:

2008- 2018 Co-titolare dell'insegnamento di Fisiologia presso il corso di Laurea in Medicina e Chirurgia, Polo San Luigi, Università di Torino;
2010-2018 Titolare dell'insegnamento di Fisiologia presso il corso di Laurea in Infermieristica, Polo San Luigi, Università di Torino;
2018- Oggi Titolare dell'insegnamento di Fisiologia presso il corso di Laurea in Infermieristica, Canale TO4, Polo Molinette, Università di Torino;
2010- Oggi Membro del Collegio Docenti del Dottorato in Sistemi Complessi, Università di Torino;

Tutoraggio e tesi (I, II e III Livello):

2017-Oggi- Tesi di Dottorato (in preparazione):” Ruolo dell’H₂S esogeno nell’angiogenesi: modelli *in vitro*”, Dottorato di Ricerca in Sistemi Complessi per Scienze della Vita, Dottoressa Elisa Zicola;
2019- Tesi di Laurea in Biologia:” L’H₂S esogeno protegge le cellule endoteliali di microcircolo umano contro i danni da ischemia/riperfusion ”, studentessa Elisa Arrigo;
2019- Tesi di Laurea in Infermieristica:” Indicatori di fragilità nell’anziano: utilizzo dell’indice di fragilità di Tilburg nella valutazione multidimensionale geriatrica intraospedaliera”, studente Andrea Greco;
2018- Tesi di Laurea in Infermieristica:” I fattori motivazionali nella prevenzione secondaria del paziente cardiopatico”, studente Alberto Querio;
2018- Tesi di Laurea in Infermieristica:” Sensibilizzazione del paziente cardiopatico verso il rischio da fumo di sigaretta: il ruolo dell’infermiere” studente Giovanni Calafatello;
2017- Tesi di Laurea in Infermieristica:” Neurofisiologia della risata e i suoi effetti benefici in pediatria”, studentessa Alessia Alberti;
2017- Tesi di Laurea in Infermieristica:” Interventi di educazione terapeutica alla persona con esiti di infarto del miocardio: revisione della”, studentessa Giorgia Vallero;
2017- Tesi di Laurea in Infermieristica:” L’importanza del caregiver nel paziente con scompenso cardiaco”, studentessa Arianna Mason;
2015- Tesi di Laurea in Infermieristica:” Pratiche di prevenzione secondaria contro l’infarto miocardico acuto negli ospedali piemontesi”, studentessa Teodora Oslobanu;
2011- Tesi di Laurea in Biologia:” Effetti cardioprotettivi del solfuro d’idrogeno contro il danno da ri-perfusione”, studentessa Sabina Porrera.

Ambiti di ricerca:

Ruolo dei radicali liberi e specie reattive nella protezione, nello sviluppo e nel metabolismo cardiaco;
Meccanismi di cardioprotezione del pre- e postcondizionamento ischemico;
Effetti dei mediatori gassosi, in particolare del solfuro d’idrogeno, nelle patologie cardiovascolari;
Ruolo del solfuro d’idrogeno nella fisiologia cellulare di miocardiociti e endotelio;
Ruolo delle cellule staminali nella riparazione del danno miocardico.

Finanziamenti:

Finanziamento del Fondo di Beneficienza Intesa San Paolo, 2018: Effetti biologici di dosi sub-tossiche di glifosate sul sistema cardiovascolare e nervoso, coordinatore. (€ 99.400);
Finanziamento Università di Torino, cofinanziamento della Fondazione CRT, progetto WWS: Ruolo degli enzimi che producono H₂S nell’ipertensione primaria e nello scompenso. (€ 5.000);
Finanziamento MIUR (Ex 60%), 2012: Attivazione dei meccanismi protettivi nel cuore post-ischemico in presenza di comorbidità. (€ 4.417);
Finanziamento MIUR (Ex 60%), 2012: Ruolo del Sistema Cistationina-gamma-liase/H₂S nella dinamica Mitochondriale durante lo sviluppo di scompenso cardiaco. (€ 3.600);
Co-partecipante nel progetto finanziato dalla Compagnia San Paolo: Modulazione dell’ipossia placentare e tumorale con nanobolle caricate ad ossigeno: verso un approccio terapeutico multidisciplinare. (€ 228.054);
Finanziamento della Regione Piemonte: Ruolo del solfuro d’idrogeno endogeno nel recupero del miocardio post-ischemico e studio di nuovi farmaci (€ 12.000);
Finanziamento della Regione Piemonte: Meccanismi intracellulari dellacardioprotezione contro il danno ipossico indotta dal solfuro d’idrogeno: studio di nuovi approcci farmacologici (€ 8.000).

Attività di revisore:

Revisore *ad hoc* per le riviste scientifiche internazionali con revisori alla pari Cardiovasc Res, Antioxid Redox Signal, Biochim Biophys Acta, Free Radic Biol Med, Curr Pharm Biotechnol, Dig Liver Dis, British Journal of Pharmacology;

Revisore di proposte progettuali su invito per: The Wellcome Trust, French National Research Agency, Italian Ministry of Instruction, Research and University (MIUR), Swiss National Science Foundation.

Principali collaboratori internazionali:

Dr. Rui Wang: Lakehead University, Thunder Bay, ON, Canada;

Dr. David A Wink: National Institutes of Health, Bethesda, MD, USA;

Dr. Nazareno Paolocci: Johns Hopkins University, Baltimore, MD, USA;

Dr. Sonia Donzelli: Universitätsklinikum Hamburg-Eppendorf, Germania;

Prof. Katrina Miranda: University of Arizona, AZ, USA;

Relazioni su invito:

HYDROGEN SULFIDE IN THE HYPOXIA/REOXYGENATION SCENARIO

Daniele Mancardi

IV Simposio internazionale sullo stress ossidativo e la fisiologia cardiovascolare, Porto Alegre, RS, Brasile, 25 settembre 2015.

HYDROGEN SULFIDE IN THE HYPOXIA/REOXYGENATION SCENARIO

Daniele Mancardi

Congresso annuale della Società Brasileira di Fisiologia, Águas de Lindóia, SP, Brazil, 2-5 Agosto 2015.

ENDOTHELIAL DYSFUNCTION AND HYDROGEN SULFIDE

Daniele Mancardi

Simposio sul trattamento della disfunzione endoteliale con antiossidanti, Torino, Italia, 21 Marzo 2014.

HYDROGEN SULFIDE: GASOTRANSMITTER, RESPIRATORY GAS OR BOTH?

Daniele Mancardi

Accademia delle Scienze e della Farmacologia, Parigi, Francia, 6 Febbraio 2013.

H₂S IN THE LIMITATION OF MYOCARDIAL INFARCTION AND IN THE PREVENTION OF HEART FAILURE

Daniele Mancardi

Società Italiana di Cardiologia, 72° Meeting Annuale, Roma, Italia, 10-12 Dicembre, 2011.

REGULATION OF PROTEASOME SUBUNITS ACTIVITY BY HYDROGEN SULFIDE IN CULTURED CARDIOMYOBlasts

Daniele Mancardi

Società di Biologia Sperimentale, Meeting Annuale, Glasgow, Scozia, 1-5 Luglio, 2011.

HYDROGEN SULFIDE AS A MEDIATOR OF PHYSIOLOGICAL FUNCTIONS

Daniele Mancardi

Istituto tossicologia e farmacologia clinica sperimentale, Università di Amburgo, Germania, 22 Marzo, 2010.

INVOLVEMENT OF MITOCHONDRIA IN THE PROTECTIVE EFFECT OF HYDROGEN SULFIDE AGAINST OXIDATIVE STRESS IN CARDIOMYOCYTES

Mancardi D, Pagliaro P, Penna C.

Società di Biologia Sperimentale, Meeting Annuale, Marsilia, Francia, 6-10 Luglio, 2008.

ENDOTHELIAL PARACRINE ACTION

Daniele Mancardi

Società Italiana di Biologia Sperimentale, Meeting Annuale, Torino, Italia, 6-7 Dicembre, 2002.

Publicazioni su riviste internazionali con revisione tra pari:

1. OXIDATIVE STRESS AND INFLAMMATION IN PULMONARY ARTERIAL HYPERTENSION
Belló-Klein A, Mancardi D, Rosa Araujo AS, Schenkel PC, Türck P, Lima-Seolin BG.
CURRENT MEDICINAL CHEMISTRY. 2018 Dec 25; doi: 10.2174/0929867325666171226114838.
[IF 3,249]
2. HYPOXIA AND HYDROGEN SULFIDE DIFFERENTIALLY AFFECT NORMAL AND TUMOR-DERIVED VASCULAR ENDOTHELIUM.
Bianco S, Mancardi D, Merlino A, Bussolati B, Munaron L.
REDOX BIOLOGY. 2017 Mar 18; 12:499-504. doi: 10.1016/j.redox.2017.03.015.
[IF 6,337]
3. ACTIVATION OF P2X7 AND P2Y11 PURINERGIC RECEPTORS INHIBITS MIGRATION AND NORMALIZES TUMOR-DERIVED ENDOTHELIAL CELLS VIA CAMP SIGNALING
Avanzato D, Genova T, Fiorio Pla A, Bernardini M, Bianco S, Bussolati B, Mancardi D, Giraud E, Maione F, Cassoni P, Castellano I, Munaron L.
SCIENTIFIC REPORTS. 2016 Sep 2; 6:32602. doi: 10.1038/srep32602.
[IF 5,228]
4. NOVEL PERSPECTIVES IN REDOX BIOLOGY AND PATHOPHYSIOLOGY OF FAILING MYOCYTES: MODULATION OF THE INTRAMYOCARDIAL REDOX MILIEU FOR THERAPEUTIC INTERVENTIONS
Arcaro A, Pirozzi F, Angelini A, Chimenti C, Crotti L, Giordano C, Mancardi D, Torella D, Tocchetti CG.
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. 2016, 6353469. doi: 10.1155/2016/6353469.
[IF 3,516]
5. PRECONDITIONING CARDIOPROTECTION AND EXERCISE PERFORMANCE: A RADICAL POINT OF VIEW
Crisafulli A, Mancardi D, Marongiu E, Rastaldo R, Penna C, Pagliaro, P.
SPORT SCIENCES FOR HEALTH. 2015; 11, (2): 137-151.
6. HYDROGEN SULFIDE AND ENDOTHELIAL DYSFUNCTION: RELATIONSHIP WITH NITRIC OXIDE
Altaany Z, Moccia F, Munaron L, Mancardi D^{*}, Wang R. ^{*} Corresponding Author.
CURRENT MEDICINAL CHEMISTRY. 2014;21(32):3646-61.
[IF 4,630]
7. ROLE OF CALCIUM CHANNELS IN THE PROTECTIVE EFFECT OF HYDROGEN SULFIDE IN RAT CARDIOMYOBLASTS
Avanzato D, Merlino A, Porrera S, Wang R, Munaron L, Mancardi D.
CELLULAR PHYSIOLOGY AND BIOCHEMISTRY. 2014; 33 (4):1205-14.
[IF 3,415]
8. HYDROGEN SULFIDE AS A REGULATOR OF CALCIUM CHANNELS
Munaron L, Avanzato D, Moccia F, Mancardi D.
CELL CALCIUM. 2013 Feb;53 (2):77-84.
[IF=3.766]

9. CARDIOPROTECTION AGAINST ISCHEMIA/REPERFUSION INJURY AND CHROMOGRANIN A-DERIVED PEPTIDES
Penna P, Tullio F, Perrelli MG, Mancardi D, Pagliaro P.
CURRENT MEDICINAL CHEMISTRY, 2012;19 (24):4074-85.
[IF=4.859]
10. INTEGRATING NITRIC OXIDE, NITRITE AND HYDROGEN SULFIDE SIGNALING IN THE PHYSIOLOGICAL ADAPTATIONS TO HYPOXIA: A COMPARATIVE APPROACH
Fago A, Jensen FB, Tota B, Feelisch M, Olson KR, Helbo S, Lefevrea S, Mancardi D, Palumbo A, Sandvikh GK, Skovgaardh N.
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. 2012 MAY;162(1):1-6.
[IF=1.900]
11. HYDROGEN SULFIDE PROMOTES CALCIUM SIGNALS AND MIGRATION IN TUMOR-DERIVED ENDOTHELIAL CELLS
Pupo E, Fiorio Pla A, Avanzato D, Moccia F, Avelino Cruz JE, Tanzi F, Merlino A, Mancardi D, Munaron L.
FREE RADICALS BIOLOGY AND MEDICINE. 2011 NOV 1;51(9):1765-73.
[IF=6.081]
12. OLD AND NEW GASOTRANSMITTERS IN THE CARDIOVASCULAR SYSTEM: FOCUS ON THE ROLE OF NITRIC OXIDE AND HYDROGEN SULFIDE IN ENDOTHELIAL CELLS AND CARDIOMYOCYTES
Mancardi D, Fiorio Pla A, Moccia F, Tanzi F, Munaron L.
CURRENT PHARMACEUTICAL BIOTECHNOLOGY. 2011 SEP;12(9):1406-15.
[IF= 3.404]
13. PLAYING WITH CARDIAC “REDOX SWITCHES”: THE “HNO WAY” TO MODULATE CARDIAC FUNCTION
Tocchetti CG, Stanley BA, Murray CI, Sivakumaran V, Donzelli S, Mancardi D, Pagliaro P, Dong Gao W, van Eyk J, Kass DA, Wink DA, Paolucci P.
ANTIOXIDANT REDOX SIGNALING. 2011 MAY 1;14(9):1687-98.
[IF= 7.581]
14. HYDROGEN SULFIDE REGULATES INTRACELLULAR CA^{2+} CONCENTRATION IN ENDOTHELIAL CELLS FROM EXCISED RAT AORTA
Moccia F, Bertoni G, Fiorio Pla A, Dragoni S, Pupo E, Merlino A, Mancardi D, Munaron L, Tanzi F.
CURRENT PHARMACEUTICAL BIOTECHNOLOGY. 2011 SEP;12(9):1416-26.
[IF= 3.404]
15. ACTIVATED MET SIGNALLING IN THE DEVELOPING MOUSE HEART LEADS TO CARDIAC DISEASE
Leo C, Sala V, Morello M, Chiribiri A, Riess I, Mancardi D, Schiaffino S, Ponzetto C, Crepaldi T.
PLOS ONE. 2011 Feb 9;6(2):e14675.
[IF= 4.351]
16. HYPOXIA AND ANOXIA TOLERANCE OF VERTEBRATE HEARTS: AN EVOLUTIONARY PERSPECTIVE
Tota B, Angelone T, Mancardi D, Cerra MC.
ANTIOXIDANT REDOX SIGNALING. 2011 Mar 1;14(5):851-62.
[IF= 7.581]

17. COMPARING THE CHEMICAL BIOLOGY OF NO AND HNO
Flores-Santana W, Switzer C, Ridnour LA, Basudhar D, Mancardi D, Donzelli S, Thomas DD, Miranda KM, Fukuto J, Wink DA.
ARCHIVES OF PHARMACAL RESEARCH. 2009 AUG;32(8):1139-53.
[IF= 1.159]
18. POST-ISCHAEMIC ACTIVATION OF KINASES IN THE PRECONDITIONING-LIKE CARDIOPROTECTIVE EFFECT OF THE PLATELET ACTIVATING FACTOR
Penna C, Mognetti B, Tullio F, Gattullo D, Mancardi D, Moro F, Pagliaro P, Alloatti G.
ACTA PHYSIOLOGICA (OXF). 2009 NOV;197(3):175-85.
[IF= 2.810]
19. THE EMERGENCE OF NITROXYL (HNO) AS A PHARMACOLOGICAL AGENT
Switzer CH, Flores-Santana W, Mancardi D, Donzelli S, Basudhar D, Ridnour LA, Miranda KM, Fukuto JM, Paolocci N, Wink DA.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, 2009 JUL;1787(7):835-40.
[IF= 3.688]
20. PHYSIOLOGICAL AND PHARMACOLOGICAL FEATURES OF THE NOVEL GASOTRANSMITTER: HYDROGEN SULFIDE
Mancardi D, Penna C, Merlino A, Del Soldato P, Wink DA, Pagliaro P.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, 2009 JUL;1787(7):864-72.
[IF= 3.688]
21. POSTCONDITIONING INDUCES AN ANTI-APOPTOTIC EFFECT AND PRESERVES MITOCHONDRIAL INTEGRITY IN ISOLATED RAT HEARTS
Penna C, Perrelli MG, Raimondo S, Tullio F, Merlino A, Moro F, Geuna S, Mancardi D, Pagliaro P.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, 2009 JUL;1787(7):794-801.
[IF= 3.688]
22. CARDIOPROTECTION: A RADICAL VIEW FREE RADICALS IN PRE AND POSTCONDITIONING
Penna C, Mancardi D, Rastaldo R, Pagliaro P.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, 2009 JUL;1787(7):781-93.
[IF= 3.688]
23. SYNERGISTIC EFFECTS AGAINST POST-ISCHEMIC CARDIAC DYSFUNCTION BY SUB-CHRONIC NANDROLONE PRETREATMENT AND POSTCONDITIONING: ROLE OF B2-ADRENORECEPTORS
Penna C, Abbadessa G, Mancardi D, Tullio F, Piccione F, Spaccamiglio A, Racca S, Pagliaro P.
JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, 2008 DEC;59(4):645-59. 2008, 59.
[IF= 1.489]
24. POSTCONDITIONING CARDIOPROTECTION AGAINST INFARCT SIZE AND POST-ISCHEMIC SYSTOLIC DYSFUNCTION IS INFLUENCED BY GENDER
Penna C, Tullio F, Merlino A, Moro F, Raimondo S, Rastaldo R, Perrelli MG, Mancardi D, Pagliaro P.
BASIC RESEARCH IN CARDIOLOGY. 2009 JUL;104(4):390-402.
[IF = 5.973]
25. FRACTAL PARAMETERS AND VASCULAR NETWORKS: FACTS & ARTIFACTS
Mancardi D, Varetto G, Bucci E, Maniero F, Guiot C.
THEORETICAL BIOLOGY AND MEDICAL MODELLING. 2008 JUL 17;5(1):12.
[IF 1,460]

26. OMEGA 3 HAS BENEFICIAL EFFECT ON ISCHEMIA/REPERFUSION INJURY, BUT CAN NOT REVERSE THE EFFECT OF STRESSFUL FORCED EXERCISE
Mancardi D, Tullio F, Crisafulli A, Rastaldo R, Folino A, Penna C, Pagliaro P.
NUTRITION, METABOLISM & CARDIOVASCULAR DISEASES. 2009 JAN;19(1):20-6.
[IF= 3.517]
27. INTERMITTENT ADENOSINE AT THE BEGINNING OF REPERFUSION DOES NOT TRIGGER CARDIOPROTECTION
Penna C, Mancardi D, Tullio F, Pagliaro P.
JOURNAL OF SURGICAL RESEARCH. 2009 MAY 15;153(2):231-8.
[IF= 2.176]
28. THE PLATELET ACTIVATING FACTOR TRIGGERS PRECONDITIONING-LIKE CARDIOPROTECTIVE EFFECT VIA MITOCHIONDRIA K-ATP CHANNELS AND REDOX-SENSIBLE SIGNALLING
Penna C, Mognetti B, Tullio F, Gattullo D, Mancardi D, Pagliaro P, Alloatti G.
JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. 2008 MAR;59(1):47-54.
[IF= 1.489]
29. EARLY HOMING OF ADULT MESENCHYMAL STEM CELLS IN NORMAL AND INFARCTED ISOLATED BEATING HEARTS
Penna C, Raimondo S, Ronchi G, Rastaldo R, Mancardi D, Cappello S, Losano G, Geuna S, Pagliaro P.
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 2008 MAR-APR; 12(2):507-21.
[IF =5.228]
30. NITRIC OXIDE SYNTHASE FUNCTION IN EXERCISE
Pagliaro P, Mancardi D, Penna C.
CURRENT ENZYME INHIBITION. 2008, 4, 37-45.
31. POSTCONDITIONING AND INTERMITTENT BRADYKININ INDUCED CARDIOPROTECTION REQUIRE CYCLOOXYGENASE ACTIVATION AND PROSTACYCLIN RELEASE DURING REPERFUSION
Penna C, Mancardi D, Tullio F, Pagliaro P.
BASIC RESEARCH IN CARDIOLOGY. 2008 JUL;103(4):368-77.
[IF = 5.973]
32. THE PARADIGM OF POSTCONDITIONING TO PROTECT THE HEART
Penna C, Mancardi D, Raimondo S, Geuna S, Pagliaro P.
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. 2008 APR;12(2):435-58.
[IF =5.228]
33. **DELAYED PRECONDITIONING-MIMETIC ACTION OF EXERCISE OR NITROGLYCERIN DO NOT AFFECT HEMODYNAMICS AND EXERCISE PERFORMANCE IN BOTH TRAINED AND SEDENTARY SUBJECTS**
Crisafulli A, Melis F, Tocco F, Pittau G, Lorrari L, Gori T, Mancardi D, Concu A, Pagliaro P.
JOURNAL OF SPORTS SCIENCE. 2007 OCT;25(12):1393-401.
[IF= 1.619]
34. **NITRIC OXIDE AND CARDIAC FUNCTION**
Rastaldo R, Pagliaro P, Cappello S, Penna C, Mancardi D, Westerhof N, Losano G.
LIFE SCIENCES. 2007 AUG 16;81(10):779-93.
[IF =2.560]

35. **NANDROLONE-PRETREATMENT ENHANCES CARDIAC BETA(2)-ADRENOCEPTOR EXPRESSION AND REVERSES HEART CONTRACTILE DOWN-REGULATION IN THE POST-STRESS PERIOD OF ACUTE-STRESSED RATS**
 Penna C, Abbadessa G, Mancardi D, Spaccamiglio A, Racca S, Pagliaro P.
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY. 2007 OCT;107(1-2):106-13.
 [IF= 2.655]
36. **INTERMITTENT ACTIVATION OF BRADYKININ B(2) RECEPTORS AND MITOCHONDRIAL K(ATP) CHANNELS TRIGGER CARDIAC POSTCONDITIONING THROUGH REDOX SIGNALING**
 Penna C, Mancardi D, Rastaldo R, Losano G, Pagliaro P.
CARDIOVASCULAR RESEARCH. 2007 JUL 1;75(1):168-77.
 [IF =5.801]
37. **PEROXYNITRITE AND MYOCARDIAL CONTRACTILITY: IN VIVO VERSUS IN VITRO EFFECTS**
 Katori T, Donzelli S, Tocchetti CG, Miranda KM, Cormaci G, Thomas DD, Ketner EA, Lee MJ, Mancardi D, Wink DA, Kass DA, Paolucci N.
FREE RADICAL BIOLOGY & MEDICINE. 2006 NOV 15;41(10):1606-18.
 [IF=6.081]
38. **EFFECT OF ENDOTHELINS ON THE CARDIOVASCULAR SYSTEM**
 Penna C, Rastaldo R, Mancardi D, Cappello S, Pagliaro P, Westerhof N, Losano G.
JOURNAL OF CARDIOVASCULAR MEDICINE (HAGERSTOWN). 2006 SEP;7(9):645-652.
 [IF = 0.712]
39. **POST-CONDITIONING INDUCED CARDIOPROTECTION REQUIRES SIGNALING THROUGH A REDOX-SENSITIVE MECHANISM, MITOCHONDRIAL ATP-SENSITIVE K⁺ CHANNEL AND PROTEIN KINASE C ACTIVATION**
 Penna C, Rastaldo R, Mancardi D, Raimondo S, Cappello S, Gattullo D, Losano G, Pagliaro P.
BASIC RESEARCH IN CARDIOLOGY. 2006 MAR;101(2):180-9.
 [IF = 5.973]
40. **DISCRIMINATING FORMATION OF HNO FROM OTHER REACTIVE NITROGEN OXIDE SPECIES**
 Donzelli D, Espey MG, Thomas DD, Mancardi D, Tocchetti CG, Ridnour LA, Paolucci N, King SB, Miranda KM, Lazzarino G, Fukuto JM, Wink DA.
FREE RADICAL BIOLOGY & MEDICINE. 2006 MAR 15;40(6):1056-66.
 [IF=6.081]
41. **COMPARISON OF THE NO AND HNO DONATING PROPERTIES OF DIAZENIUMDIOLATES: PRIMARY AMINE ADDUCTS RELEASE HNO IN VIVO**
 Miranda KM, Katori T, Torres de Holding CL, Thomas L, Ridnour LA, McLendon WJ, Cologna SM, Dutton AS, Champion HC, Mancardi D, Tocchetti CG, Saavedra JE, Keefer LK, Houk KN, Fukuto JM, Kass DA, Paolucci N, Wink DA.
JOURNAL OF MEDICINAL CHEMISTRY. 2005 DEC 29;48(26):8220-8228.
 [IF= 4.802]
42. **POST-CONDITIONING REDUCES INFARCT SIZE IN THE ISOLATED RAT HEART: ROLE OF NITRIC OXIDE/CGMP PATHWAY**
 Penna C, Cappello S, Mancardi D, Raimondo S, Rastaldo R, Gattullo D, Losano G, Pagliaro P.
BASIC RESEARCH IN CARDIOLOGY. 2006 MAR;101(2):168-79.
 [IF = 5.973]

43. MYOCARDIAL PROTECTION FROM ISCHEMIC PRECONDITIONING IS NOT BLOCKED BY CHRONIC INHIBITION OF CARNITINE PALMITOYL-TRANSFERASE I
Penna C, Mancardi D, Gattullo D, Pagliaro P.
LIFE SCIENCES, 2005 SEP 2;77(16):2004-17.
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