

# Curriculum Vitae

*Dr. Daniele Mancardi*

**Title:** PhD in Cardiovascular Physiology  
**Birth date:** August 15, 1972  
**Birthplace:** Turin, Italy  
**Status:** Single  
**Gender:** Male  
**Institution:** University of Turin, Department of Clinical and Biological Sciences  
**Address:** ASO San Luigi, Regione Gonzole, 10. 10043 Orbassano (TO), Turin, Italy.  
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**E mail:** daniele.mancardi@unito.it

## Research/Professional experience:

2013: Research Fellowship at Lakehead University, Thunder Bay, ON, Canada;  
2012: Research Fellowship at Lakehead University, Thunder Bay, ON, Canada;  
2008-Today: Assistant Professor of Physiology, Medical School “San Luigi Gonzaga”, University of Turin;  
2008: Winner of “*Brain Drain Containing*” Fellowship funded by the University of Turin;  
2006: Fellowship supported by Regione Piemonte at the University of Turin;  
2006: Fellowship supported by the National Institute for Cardiovascular Research;  
2005: Post-Doctoral Fellowship funded by Regione Piemonte at the University of Turin;  
2005: Post-Doctoral Fellow at the NIH of Bethesda, MD, USA;  
2003-2005: PhD student in Cardiovascular Physiology at the NIH of Bethesda, MD, USA;  
2001-2005: PhD student in Cardiovascular Physiology, University of Turin;  
2000-2001: Research fellow at the University of Turin.

## Experimental Techniques:

*In vivo* thoracic surgery in rodents and big animals;  
*Ex vivo* techniques: isolated heart and Langendorff;  
Spectrophotometric assays;  
Molecular biology: immunoistochemistry, protein expression, RT-PCR;  
Primary and immortalized cell culture, tissue culture;  
Development of Data acquisition and Data analysis software.

## Prize and awards:

Winner of the Young Researchers Award, Italian Physiological Society 2007.

## Teaching experiences:

Pre-doctoral tutor at University of Turin;  
Electrocardiography techniques at the Medical School, University of Turin;  
Member of the Physiology examination board at the Medical School “San Luigi Gonzaga”;  
Member of the Physiology examination board at the Nursing School “San Luigi Gonzaga”;  
Member of the Physiology examination board at the Interfaculty School of Sport Sciences;  
Lecturer in Physiology at the Nursing School from 2005 through 2009, University of Turin;  
Member of the Teachers Panel in the PhD program “Complex Systems in Life Sciences”;  
Assistant Professor of Physiology at the Medical School “San Luigi Gonzaga”, University of Turin.

**Research Fields:**

Free radicals activity and heart metabolism, protection and development;  
Stem cells and reparation of myocardial injuries;  
Cardioprotection mechanisms of pre- and post-conditioning;  
Effects of Hydrogen Sulfide and Gasotransmitters in cardiovascular diseases;  
Role of Hydrogen Sulfide in cell biology and physiology.

**Grants:**

Grant from Italian Ministry for University and Research (Ex 60%) 2012 Activation of pro-survival pathways in the postischemic heart in presence of co-morbidities. (€ 4,417.00);

Grant from Italian Ministry for University and Research (Ex 60%) 2012 Role of the system Cystathionine-gamma-lyase/H<sub>2</sub>S in mitochondrial dynamic during the development of heart failure. (€ 3,600.00);

Grant from Compagnia San Paolo for the project (co-participant): Modulation of placental & tumoral hypoxia with oxygen-loaded nanobubbles: towards a multidisciplinary therapeutic approach (€ 228,054.00);

Grant from Regione Piemonte for the project: “Role of endogenous Hydrogen Sulfide on myocardial post-ischemic recovery and novel drugs study” (€ 12,000.00);

Grant from Regione Piemonte for the project: “Intracellular mechanisms of Hydrogen Sulfide-induced cardioprotection against hypoxic injury: study of new pharmacological” (€ 8,000.00).

**Reviewer activity:**

*Ad hoc* referee for several international peer reviewed journals: Cardiovasc Res, Antioxid Redox Signal, Biochim Biophys Acta, Free Radic Biol Med, Curr Pharm Biotechnol, Dig Liver Dis, British Journal of Pharmacology;

Invited reviewer for Grant proposals: The Wellcome Trust, French National Research Agency, Italian Ministry of Instruction, Research and University (MIUR).

**International main collaborators:**

Dr. Rui Wang: Lakehead University, Thunder Bay, ON, Canada;  
Dr. David A Wink: National Institutes of Health, Bethesda, MD, USA;  
Dr. Nazareno Paolucci: Johns Hopkins University, Baltimore, MD, USA;  
Dr. Sonia Donzelli: Universitätsklinikum Hamburg-Eppendorf, Germany;  
Prof. Katrina Miranda: University of Arizona, AZ, USA;  
Prof. Kelvin JA Davies: University of South California, Los Angeles, CA, USA.

**National main collaborators:**

Prof. Caterina Guiot, University of Turin, Italy;  
Prof. Bruno Tota: University of Calabria, Italy;  
Prof. Luca Munaron: University of Turin, Italy;  
Dr. Fancesco Moccia: Univesity of Pavia, Italy;  
Dr. Carlo G Tocchetti: Pascale National Cancer Insitute, Naples, Italy.  
Dr. Piero Del Soldato: CTG Pharma, Milan, Italy.

**Invited Speaker:**

ENDOTHELIAL DYSFUNCTION AND HYDROGEN SULFIDE

Daniele Mancardi

*Symposium on the treatment of endothelial dysfunction with antioxidant, Turin, Italy, March 21<sup>st</sup> 2014.*

HYDROGEN SULFIDE: GASOTRASMITTER, RESPIRATORY GAS OR BOTH?

Daniele Mancardi

*Académie des Sciences et de Pharmacie, Paris, France, February 6<sup>th</sup> 2013.*

H<sub>2</sub>S IN THE LIMITATION OF MYOCARDIAL INFARCTION AND IN THE PREVENTION OF HEART FAILURE

Daniele Mancardi

*Italian Society of Cardiology, 72<sup>o</sup> Annual Meeting, Rome, Italy, December 10<sup>th</sup>-12<sup>th</sup>, 2011.*

REGULATION OF PROTEASOME SUBUNITS ACTIVITY BY HYDROGEN SULFIDE IN CULTURED CARDIOMYOBLASTS

Daniele Mancardi

*Society for Experimental Biology Annual Meeting, Glasgow, Scotland, July 1<sup>st</sup>-5<sup>th</sup> 2011.*

HYDROGEN SULFIDE AS A MEDIATOR OF PHYSIOLOGICAL FUNCTIONS

Daniele Mancardi

*Institut für Experimentelle und Klinische Pharmakologie und Toxikologie, University of Hamburg, Germany, March 22<sup>nd</sup>, 2010.*

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

Mancardi D, Pagliaro P, Penna C.

*Society for Experimental Biology Annual Meeting, Marseille, France, July 6<sup>th</sup>-10<sup>th</sup> 2008.*

ENDOTHELIAL PARACRINE ACTION

Daniele Mancardi

*Italian Society for Experimental Biology Annual Meeting, Turin, Italy, December 6<sup>th</sup>-7<sup>th</sup> 2002.*

### Publications in International peer reviewed Journals:

1. 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 JUL 6.  
[F 4,630]
2. 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.  
[F 3,415]
3. 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]
4. 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]
5. 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]
6. 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]
7. 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]
8. 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, Paolocci P.  
*ANTIOXIDANT REDOX SIGNALING*. 2011 MAY 1;14(9):1687-98.  
[IF= 7.581]

9. 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]
10. 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]
11. 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]
12. 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]
13. 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]
14. 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]
15. 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]
16. 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]
17. 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]

18. 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]
19. 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]
20. 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.
21. 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]
22. 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]
23. 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]
24. 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]
25. NITRIC OXIDE SYNTHASE FUNCTION IN EXERCISE  
Pagliaro P, Mancardi D, Penna C.  
*CURRENT ENZYME INHIBITION*. 2008, 4, 37-45.
26. 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]

27. 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]
28. 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, Lorrain L, Gori T, Mancardi D, Concu A, Pagliaro P.  
*JOURNAL OF SPORTS SCIENCE*. 2007 OCT;25(12):1393-401.  
 [IF= 1.619]
29. 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]
30. 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]
31. 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]
32. 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, Paolocci N.  
*FREE RADICAL BIOLOGY & MEDICINE*. 2006 NOV 15;41(10):1606-18.  
 [IF=6.081]
33. 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]
34. POST-CONDITIONING INDUCED CARDIOPROTECTION REQUIRES SIGNALING THROUGH A REDOX-SENSITIVE MECHANISM, MITOCHONDRIAL ATP-SENSITIVE K<sup>+</sup> 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]

35. 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]
36. 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]
37. 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]
38. 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.  
 [IF =2.389]
39. MECHANISM OF AEROBIC DECOMPOSITION OF ANGELI'S SALT (SODIUM TRIOXODINITRATE) AT PHYSIOLOGICAL PH  
 Katrina M. Miranda, Dutton AS, Ridnour LA, Foreman CA, Ford E, Paolucci N, Katori T, Tocchetti CG, Mancardi D, Thomas DD, Espey MG, Houk KN, Fukuto JM, Wink DA.  
*JOURNAL OF AMERICAN CHEMICAL SOCIETY*. 2005 JAN 19;127(2):722-731.  
 [IF= 8.580]
40. THE CHEMICAL DYNAMICS OF NO AND REACTIVE NITROGEN OXIDES: A PRACTICAL GUIDE  
Mancardi D, Ridnour LA, Thomas DD, Katori T, Tocchetti CG, Espey MG, Miranda KM, Paolucci N and Wink DA.  
*CURRENT MOLECULAR MEDICINE*. 2004 NOV, vol. 4, iss. 7, pp. 723-740(18).  
 [IF= 5.096]
41. ANTIOXIDANT PROPERTIES OF NITRIC OXIDE IN CELLULAR PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL MECHANISMS. THE IMPLICATIONS OF BIOLOGICAL BALANCE BETWEEN NO AND OXIDATIVE STRESS.  
 Ridnour LA, Thomas D, Mancardi D, Donzelli S, Pagliaro P, Miranda KM, Fukuto J, Grisham M, Mitchell JB, Espey MG and Wink DA.  
*CURRENT MEDICINAL CHEMISTRY, ANTI-INFLAMMATORY & ANTI-ALLERGY AGENTS*. 2004 SEP 3 (3): 181-188.  
 [IF= 4.708]



42. ENDOTHELIAL CYTOCHROME P450 CONTRIBUTES TO THE ACETYLCHOLINE-INDUCED CARDIODEPRESSION IN ISOLATED RAT HEARTS  
Pagliaro P, Penna C, Rastaldo R, Mancardi D, Crisafulli A, Losano G, Gattullo D  
*ACTA PHYSIOLOGICA SCANDINAVICA*. 2004 SEP 182 (1): 11-20.  
[IF =2.810]
43. HYPOXIC INDUCIBLE FACTOR 1 ALPHA, EXTRACELLULAR SIGNAL-REGULATED KINASE, AND P53 ARE REGULATED BY DISTINCT THRESHOLD CONCENTRATIONS OF NITRIC OXIDE  
Thomas DD, Espey MG, Ridnour LA, Hofseth LJ, Mancardi D, Harris CC, Wink DA  
*PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. 2004 JUN 15, 101 (24): 8894-8899.  
[IF= 9.432]
44. THE CHEMISTRY OF NITROSATIVE STRESS INDUCED BY NITRIC OXIDE AND REACTIVE NITROGEN OXIDE SPECIES. PUTTING PERSPECTIVE ON STRESSFUL BIOLOGICAL SITUATIONS  
Ridnour LA, Thomas DD, Mancardi D, Espey MG, Miranda KM, Paolucci N, Feelisch M, Fukuto J, Wink DA.  
*BIOLOGICAL CHEMISTRY*. 2004 JAN;385(1):1-10.  
[IF= 2.732]
45. ORTHOGONAL PROPERTIES OF THE REDOX SIBLINGS NITROXYL AND NITRIC OXIDE IN THE CARDIOVASCULAR SYSTEM: A NOVEL REDOX PARADIGM  
Wink DA, Miranda KM, Katori T, Mancardi D, Thomas DD, Ridnour L, Espey MG, Feelisch M, Colton CA, Fukuto JM, Pagliaro P, Kass DA, Paolucci N.  
*AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*. 2003 DEC;285(6):H2264-76. 2003 Jul 10.  
[IF=3.712]
46. CORONARY VASCULATURE IN ISCHAEMIC PRECONDITIONING  
Penna C, Pagliaro P, Rastaldo R, Mancardi D, Cappello S, Gattullo D and Losano G.  
*RECENT RES DEVEL LIFE SCI*. 1(2003) 13-26 ISBN: 81-271-0024-2.
47. NITROXYL AFFORDS MYOCARDIAL PROTECTIVE EFFECTS REMINISCENT TO EARLY PRECONDITIONING IN ISOLATED PERFUSED RAT HEARTS  
Pagliaro P, Mancardi D, Rastaldo R, Penna C, Gattullo D, Miranda KM, Feelisch M, Wink DA, Kass DA, Paolucci N.  
*FREE RADICAL BIOLOGY AND MEDICINE*. 2003 JAN 1;34(1):33-43.  
[IF=6.081]
48. ISCHEMIC PRECONDITIONING CHANGES THE PATTERN OF CORONARY REACTIVE HYPEREMIA REGARDLESS MITOCHONDRIAL ATP-SENSITIVE K<sup>+</sup> CHANNEL BLOCKADE  
Pagliaro P, Chiribiri A, Rastaldo R, Mancardi D, Penna C, Gattullo D, Losano G.  
*LIFE SCIENCES*. 2002 Sep 27; 71 (19):2299.  
[IF =2.560]

## Oral communications and posters:

### SPECIFICITY OF CALCIUM SIGNALING INDUCED BY HYDROGEN SULFIDE IN DIFFERENT ENDOTHELIAL CELL TYPES

Avanzato D, Mancardi D, Moccia F, Munaron L.

*European Conference on the Biology of Hydrogen Sulfide, Smolenice, Slovakia, June 15<sup>th</sup> -18<sup>th</sup>, 2012.*

### HYDROGEN SULFIDE AND CALCIUM SIGNALING IN CARDIOMYOBLASTS AND ENDOTHELIAL CELLS: FUNCTIONAL EFFECTS

Avanzato D, Pupo E, Fiorio Pla A, Mancardi D, Munaron L.

*European Conference on the Biology of Hydrogen Sulfide, Smolenice, Slovakia, June 15<sup>th</sup> -18<sup>th</sup>, 2012.*

### H<sub>2</sub>S IN THE LIMITATION OF MYOCARDIAL INFARCTION AND IN THE PREVENTION OF HEART FAILURE

Daniele Mancardi

*Italian Society of Cardiology, 72<sup>o</sup> Annual Meeting, Roma, 10<sup>th</sup>-12<sup>th</sup> December, 2011.*

### REGULATION OF PROTEASOME SUBUNITS ACTIVITY BY HYDROGEN SULFIDE IN CULTURED CARDIOMYOBLASTS

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