- **NOME:** Pasquale Pagliaro
- **MAIL**: pasquale.pagliaro@unito.it
- **MATERIE DI RIFERIMENTO**: Medical Physiology
- **BIOGRAPHY:**

Attualmente Professore ordinario in Fisiologia presso l'Università di Torino e viene regolarmente invitato come Visiting Professor all'estero. È membro di numerose società scientifiche ed ha ottenuto molti premi e riconoscimenti per il suo lavoro e le sue ricerche. E', inoltre, vicepresidente del gruppo di lavoro di Cardiotossicità e Cardioprotezione della società italiana di Cardiologia e vicepresidente del programma di medicina e terapia sperimentale dell'Università di Torino.

ESPERIENZE RECENTI

- **Università di Torino / 1997 > in corso:**

- Docente per il corso di dottorato in Fisiologia, Università di Torino; nell'ambito del dottorato e di progetti finanziati il prof. Pagliaro espleta supervisione di progetti di ricerca di studenti di dottorato e post-dottorato.

- Docente di Fisiologia presso la Scuola di Specializzazione di Malattie dell'Apparato Respiratorio della Facoltà di Medicina e Chirurgia dell'Università di Torino.

- Docente di Fisiologia nel corso integrato di Funzionamento del Corpo Umano per il corso di Laurea in Scienze Infermieristiche. Docente di Fisiologia umana nel corso di Laurea Medicina e Chirurgia del polo didattico del S. Luigi, per la Facoltà di Medicina e Chirurgia di Torino (ora Scuola di Medicina)

PUBBLICAZIONI ACCADEMICHE

1. Folino A, Accomasso L, Giachino C, Montarolo PG, Losano G, **Pagliaro P** #, Rastaldo R #. Apelin-induced cardioprotection against ischaemia/reperfusion injury: roles of epidermal growth factor and Src. Acta Physiol (Oxf). 2017 Jul 27. doi: 10.1111/apha.12924. [Epub ahead of print] PubMed PMID: 28748611. #Equal contribution.
2. Penna C, Tullio F, Femminò S, Rocca C, Angelone T, Cerra MC, Gallo MP, Gesmundo I, Fanciulli A, Brizzi MF, **Pagliaro P**, Alloatti G, Granata R. Obestatin regulates cardiovascular function and promotes cardioprotection through the nitric oxide pathway. J Cell Mol Med. 2017 Jul 26. doi: 10.1111/jcmm.13277. [Epub ahead of print] PubMed PMID: 28744974.
3. Russo I, Penna C, Musso T, Popara J, Alloatti G, Cavalot F, **Pagliaro P**. Platelets, diabetes and myocardial ischemia/reperfusion injury. Cardiovasc Diabetol. 2017 May 31;16(1):71. doi: 10.1186/s12933-017-0550-6. Review. PubMed PMID: 28569217; PubMed Central PMCID: PMC5452354.
4. Mastrocola R, Aragno M, Alloatti G, Collino M, Penna C, **Pagliaro P**. Metaflammation: tissue-specific alterations of the NLRP3 inflammasome platform. Curr Med Chem. 2017 Apr 7. doi: 10.2174/0929867324666170407123522. [Epub ahead of print] PubMed PMID: 28403789.
5. Tocchetti CG, Cadeddu C, Di Lisi D, Femminò S, Madonna R, Mele D, Monte I, Novo G, Penna C, Pepe A, Spallarossa P, Varricchi G, Zito C, **Pagliaro P***#, Mercuro G*. From Molecular Mechanisms to Clinical Management of Antineoplastic Drug-Induced Cardiovascular Toxicity: A Translational Overview. Antioxid Redox Signal. 2017 May 15. doi: 10.1089/ars.2016.6930. [Epub ahead of print] PubMed PMID: 28398124. **PP and MG share seniorship. # Corresponding author.*
6. Tullio F, Penna C, Cabiale K, Femminò S, Galloni M, **Pagliaro P**. Cardioprotective effects of calcitonin gene-related peptide in isolated rat heart and in H9c2 cells via redox signaling. Biomed Pharmacother. 2017 Jun;90:194-202. doi: 10.1016/j.biopha.2017.03.043. Epub 2017 Mar 29. PubMed PMID: 28364596.
7. Morano M, Angotti C, Tullio F, Gambarotta G, Penna C, **Pagliaro P***, Geuna S. Myocardial ischemia/reperfusion upregulates the transcription of the Neuregulin1 receptor ErbB3, but only postconditioning preserves protein translation: role in oxidative stress. Article reference: IJCA24491, Journal: International Journal of Cardiology, 2017 Apr 15;233:73-
   79. doi: 10.1016/j.ijcard.2017.01.122. **Corresponding author: Pasquale Pagliaro.*
8. Angotti C, Venier-Julienne MC, Penna C, Femminò S, Sindji L, Paniagua C, Montero-Menei CN, **Pagliaro P**. Nanoprecipitated catestatin released from pharmacologically active microcarriers (PAMs) exerts pro-survival effects on MSC. Int J Pharm. 2016 Nov 22. pii: S0378-5173(16)31113-9. doi: 10.1016/j.ijpharm.2016.11.050.

9. Mastrocola R, Penna C, Tullio F, Femminò S, Nigro D, Chiazza F, Serpe L, Collotta D, Alloatti G, Cocco M, Bertinaria M, **Pagliaro P**, Aragno M, Collino M. Pharmacological Inhibition of NLRP3 Inflammasome Attenuates Myocardial Ischemia/Reperfusion Injury by Activation of RISK and Mitochondrial Pathways. Oxid Med Cell Longev. 2016;2016:5271251. doi: 10.1155/2016/5271251.
10. Maurea N, Spallarossa P, Cadeddu C, Madonna R, Mele D, Monte I, Novo G, **Pagliaro P**, Pepe A, Tocchetti CG, Zito C, Mercuro G. A recommended practical approach to the management of target therapy and angiogenesis inhibitors cardiotoxicity: an opinion paper of the working group on drug cardiotoxicity and cardioprotection, Italian Society of Cardiology. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e93-e104.
11. Spallarossa P, Maurea N, Cadeddu C, Madonna R, Mele D, Monte I, Novo G, **Pagliaro P**, Pepe A, Tocchetti CG, Zito C, Mercuro G. A recommended practical approach to the management of anthracycline-based chemotherapy cardiotoxicity: an opinion paper of the working group on drug cardiotoxicity and cardioprotection, Italian Society of Cardiology. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e84-e92.
12. Deidda M, Madonna R, Mango R, **Pagliaro P**, Bassareo PP, Cugusi L, Romano S, Penco M, Romeo F, Mercuro G. Novel insights in pathophysiology of antiblastic drugs-induced cardiotoxicity and cardioprotection. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e76-e83.
13. Cadeddu C, Mercurio V, Spallarossa P, Nodari S, Triggiani M, Monte I, Piras R, Madonna R, **Pagliaro P**, Tocchetti CG, Mercuro G. Preventing antiblastic drug-related cardiomyopathy: old and new therapeutic strategies. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e64-e75. PubMed PMID: 27755244.
14. Novo G, Cadeddu C, Sucato V, **Pagliaro P**, Romano S, Tocchetti CG, Zito C, Longobardo L, Nodari S, Penco M. Role of biomarkers in monitoring antiblastic cardiotoxicity. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e27-e34.
15. Mele D, Tocchetti CG, **Pagliaro P**, Madonna R, Novo G, Pepe A, Zito C, Maurea N, Spallarossa P. Pathophysiology of anthracycline cardiotoxicity. J Cardiovasc Med (Hagerstown). 2016 May;17 Suppl 1 Special issue on Cardiotoxicity from Antiblastic Drugs and Cardioprotection:e3-e11.
16. **Pagliaro P**, Penna C. Hypertension, hypertrophy, and reperfusion injury. J Cardiovasc Med (Hagerstown). 2017 Mar;18(3):131-135. doi: 10.2459/JCM.0000000000000435.

17. Mastrocola R, Collino M, Penna C, Nigro D, Chiazza F, Fracasso V, Tullio F, Alloatti G, **Pagliaro P**, Aragno M. Maladaptive modulations of NLRP3 inflammasome and cardioprotective pathways are involved in diet-induced exacerbation of myocardial ischemia/reperfusion injury in mice. Oxid Med Cell Longev. 2016;2016:3480637.
18. Gallina C, Capelôa T, Saviozzi S, Accomasso L, Catalano F, Tullio F, Martra G, Penna C, **Pagliaro P**, Turinetto V, Giachino C. Human mesenchymal stem cells labelled with dye- loaded amorphous silica nanoparticles: long-term biosafety, stemness preservation and traceability in the beating heart. J Nanobiotechnology. 2015 Oct 29;13:77.
19. Crisafulli A, **Pagliaro P**, Cohen-Solal A, Coats AJ. Effects of Physical Exercise on Cardiovascular Diseases: Biochemical, Cellular, and Organ Effects. Biomed Res Int. 2015;2015:853632.
20. Boero M#, **Pagliaro P**, #, Tullio F, Pellegrino RM, Palmieri A, Ferbo L, Saglio G,De Gobbi M, Penna C, Roetto A. A comparative study of myocardial molecular phenotypes of two tfr2β null mice: role in ischemia/reperfusion. Biofactors. 2015 Sep-Oct;41(5):360-71. #Equal contribution.
21. **Pagliaro P** A Man Is As Young As His Endothelium. Physiology News. 2015; 99: e6
22. Lapi D, Vagnani S, Sapio D, Mastantuono T, Boscia F, Pignataro G, Penna C, **Pagliaro P**, Colantuoni A. Effects of bone marrow mesenchymal stem cells (BM-MSCs) on rat pial microvascular remodeling after transient middle cerebral artery occlusion. Front Cell Neurosci. 2015 Aug 25;9:329.
23. **Pagliaro P**, Penna C. Editorial: Protection, Repair and Regeneration of Achybreaky Heart. Curr Drug Targets. 2015;16(8):778-9.
24. Madonna R, Cadeddu C, Deidda M, Mele D, Monte I, Novo G, **Pagliaro P**, Pepe A, Spallarossa P, Tocchetti CG, Zito C, Mercuro G. Improving the preclinical models for the study of chemotherapy-induced cardiotoxicity: a Position Paper of the Italian Working Group on Drug Cardiotoxicity and Cardioprotection. Heart Fail Rev. 2015 Sep;20(5):621- 31.
25. Madonna R, Cadeddu C, Deidda M, Giricz Z, Madeddu C, Mele D, Monte I, Novo G, **Pagliaro P**, Pepe A, Spallarossa P, Tocchetti CG, Varga ZV, Zito C, Geng YJ, Mercuro G, Ferdinandy P. Cardioprotection by gene therapy: A review paper on behalf of the Working Group on Drug Cardiotoxicity and Cardioprotection of the Italian Society of Cardiology. Int J Cardiol. 2015 Jul 15;191:203-10.
26. Penna C, Granata R, Tocchetti CG, Gallo MP, Alloatti G, **Pagliaro P**. Endogenous Cardioprotective Agents: Role in Pre and Postconditioning. Curr Drug Targets. 2015;16(8):843-67.
27. Tocchetti CG, Molinaro M, Angelone T, Lionetti V, Madonna R, Mangiacapra F, Moccia F, Penna C, Sartiani L, Quaini F, **Pagliaro P**. Nitroso-Redox Balance and Modulation of Basal Myocardial Function: An Update from the Italian Society of Cardiovascular Research (SIRC). Curr Drug Targets. 2015;16(8):895-903.

28. **Pagliaro P**, Penna C. Redox signalling and cardioprotection: translatability and mechanism. Br J Pharmacol. 2015 Apr;172(8):1974-95.
29. Crisafulli, A., Mancardi, D., Marongiu, E., Rastaldo, R., Penna, C., **Pagliaro, P**. Preconditioning cardioprotection and exercise performance: a radical point of view (Review). Sport Sciences for Health 2 015, 11(2), 137-151
30. Penna C, Pasqua T, Amelio D, Perrelli MG, Angotti C, Tullio F, Mahata SK, Tota B, **Pagliaro P**, Cerra MC, Angelone T. Catestatin increases the expression of anti-apoptotic and pro-angiogenetic factors in the post-ischemic hypertrophied heart of SHR. PLoS One. 2014 Aug 6;9(8):e102536.
31. Penna C, Brancaccio M, Tullio F, Rubinetto C, Perrelli MG, Angotti C, **Pagliaro** P *, Tarone G*. Overexpression of the muscle-specific protein, melusin, protects from cardiac ischemia/reperfusion injury. Basic Res Cardiol. 2014 Jul;109(4):418.
*Equal contribution
32. Penna C, Angotti C, **Pagliaro P**. Protein S-nitrosylation in preconditioning and postconditioning. Exp Biol Med (Maywood). 2014 Jun;239(6):647-62.
33. Tullio F, Angotti C, Perrelli MG, Penna C, **Pagliaro P**. Redox balance and cardioprotection. Basic Res Cardiol. 2013 Nov;108(6):392.
34. Cristallini C, Cibrario Rocchietti E, Accomasso L, Folino A, Gallina C, Muratori L, **Pagliaro P**, Rastaldo R, Raimondo S, Saviozzi S, Sprio AE, Gagliardi M, Barbani N, Giachino C. The effect of bioartificial constructs that mimic myocardial structure and biomechanical properties on stem cell commitment towards cardiac lineage. Biomaterials. 2014 Jan;35(1):92-104.
35. Penna C, Perrelli MG, Tullio F, Angotti C, Camporeale A, Poli V, **Pagliaro P**. Diazoxide postconditioning induces mitochondrial protein S-nitrosylation and a redox-sensitive mitochondrial phosphorylation/translocation of RISK elements: no role for SAFE. Basic Res Cardiol. 2013 Sep;108(5):371.
36. **Pagliaro P**, Gattullo D, Penna C. Nitroglycerine and sodium trioxodinitrate: from the discovery to the preconditioning effect. J Cardiovasc Med (Hagerstown). 2013 Oct;14(10):698-704.
37. Penna C, Settanni F, Tullio F, Trovato L, **Pagliaro P**, Alloatti G, Ghigo E, Granata R. GH- releasing hormone induces cardioprotection in isolated male rat heart via activation of RISK and SAFE pathways. Endocrinology. 2013 Apr;154(4):1624-35.
38. Penna C, Perrelli MG, Tullio F, Angotti C, **Pagliaro P**. Acidic infusion in early reperfusion affects the activity of antioxidant enzymes in postischemic isolated rat heart. J Surg Res. 2013 Jul;183(1):111-8.
39. Perrelli MG, Tullio F, Angotti C, Cerra MC, Angelone T, Tota B, Alloatti G, Penna C, **Pagliaro P.** Catestatin reduces myocardial ischaemia/reperfusion injury: involvement of PI3K/Akt, PKCs, mitochondrial KATP channels and ROS signalling. Pflugers Arch. 2013 Jul;465(7):1031-40.

40. Penna C, Perrelli MG, Karam JP, Angotti C, Muscari C, Montero-Menei CN, **Pagliaro P**. Pharmacologically active microcarriers influence VEGF-A effects on mesenchymal stem cell survival. J Cell Mol Med. 2013 Jan;17(1):192-204.

41. Mognetti B, La Montagna G, Perrelli MG, **Pagliaro P**, Penna C. Bone marrow mesenchymal stem cells increase motility of prostate cancer cells via production of stromal cell-derived factor-1α. J Cell Mol Med. 2013 Feb;17(2):287-92.

42. Penna C, Tullio F, Perrelli MG, Mancardi D, **Pagliaro P**. Cardioprotection against ischemia/reperfusion injury and chromogranin A-derived peptides. Curr Med Chem. 2012;19(24):4074-85.

43. Penna C, Pasqua T, Perrelli MG, **Pagliaro P***, Cerra MC, Angelone T. Postconditioning with glucagon like peptide-2 reduces ischemia/reperfusion injury in isolated rat hearts: role of survival kinases and mitochondrial KATP channels. Basic Res Cardiol. 2012 Jul;107(4):272. *Corresponding author

44. Penna C, Perrelli MG, **Pagliaro P**. Mitochondrial pathways, permeability transition pore, and redox signaling in cardioprotection: therapeutic implications. Antioxid Redox Signal. 2013 Feb 10;18(5):556-99.

45. Rastaldo R, Cappello S, Di Stilo A, Folino A, Losano G, **Pagliaro P**. A lipophilic nitric oxide donor and a lipophilic antioxidant compound protect rat heart against ischemia- reperfusion injury if given as hybrid molecule but not as a mixture. J Cardiovasc Pharmacol. 2012 Mar;59(3):241-8.

46. Perrelli MG, **Pagliaro P***, Penna C. Ischemia/reperfusion injury and cardioprotective mechanisms: Role of mitochondria and reactive oxygen species. World J Cardiol. 2011 Jun 26;3(6):186-200. *Corresponding author

47. Rastaldo R, Cappello S, Folino A, Berta GN, Sprio AE, Losano G, Samaja M, **Pagliaro P**. Apelin-13 limits infarct size and improves cardiac postischemic mechanical recovery only if given after ischemia. Am J Physiol Heart Circ Physiol. 2011 Jun;300(6):H2308-15.

48. Tocchetti CG, Stanley BA, Murray CI, Sivakumaran V, Donzelli S, Mancardi D, **Pagliaro P**, Gao WD, van Eyk J, Kass DA, Wink DA, Paolocci N. Playing with cardiac "redox switches": the "HNO way" to modulate cardiac function. Antioxid Redox Signal. 2011 May 1;14(9):1687-98.

49. Penna C, Tullio F, Perrelli MG, Moro F, Abbadessa G, Piccione F, Carriero V, Racca S, **Pagliaro P.** Ischemia/reperfusion injury is increased and cardioprotection by a postconditioning protocol is lost as cardiac hypertrophy develops in nandrolone treated rats. Basic Res Cardiol. 2011 May;106(3):409-20.

50. Penna C, Alloatti G, Gallo MP, Cerra MC, Levi R, Tullio F, Bassino E, Dolgetta S, Mahata SK, Tota B, **Pagliaro P.** Catestatin improves post-ischemic left ventricular function and decreases ischemia/reperfusion injury in heart. Cell Mol Neurobiol. 2010 Nov;30(8):1171-9.

51. **Pagliaro P,** Penna C. Cardiac postconditioning. Antioxid Redox Signal. 2011 Mar 1;14(5):777-9.
52. **Pagliaro P**P, Moro F, Tullio F, Perrelli MG, Penna C. Cardioprotective pathways during reperfusion: focus on redox signaling and other modalities of cell signaling. Antioxid Redox Signal. 2011 Mar 1;14(5):833-50.
53. Penna C, Perrelli MG, Tullio F, Moro F, Parisella ML, Merlino A, **Pagliaro P**. Post-ischemic early acidosis in cardiac postconditioning modifies the activity of antioxidant enzymes, reduces nitration, and favors protein S-nitrosylation. Pflugers Arch. 2011 Aug;462(2):219-33.
54. Folino A, Rastaldo R, Cappello S, Chiribiri A, **Pagliaro P**, Losano G. Activity of endothelial factors on myocardial inotropy. Minerva Cardioangiol. 2011 Feb 1.
55. Penna C, Tullio F, Perrelli MG, Moro F, Abbadessa G, Piccione F, Carriero V, Racca S, **Pagliaro P**. Ischemia/reperfusion injury is increased and cardioprotection by postconditioning protocol is lost as cardiac hypertrophy develops in nandrolone treated rats. Basic Res Cardiol. 2011 May;106(3):409-20.
56. Penna C, Alloatti G, Gallo MP, Cerra MC, Levi R, Tullio F, Bassino E, Dolgetta S, Mahata SK, Tota B, **Pagliaro P**. Catestatin improves post-ischemic left ventricular function and decreases ischemia/reperfusion injury in heart. Cell Mol Neurobiol. 2010 Nov;30(8):1171-9.
57. Rastaldo R, Cappello S, Folino A, Di Stilo A, Chegaev K, Tritto I, **Pagliaro P**, Losano G. Low concentrations of an nitric oxide-donor combined with a liposoluble antioxidant compound enhance protection against reperfusion injury in isolated rat hearts. J Physiol Pharmacol. 2010 Feb;61(1):21-7.
58. Penna C, Tullio F, Moro F, Folino A, Merlino A, **Pagliaro P**. Effects of a protocol of ischemic postconditioning and/or captopril in hearts of normotensive and hypertensive rats. Basic Res Cardiol. 2010 Mar;105(2):181-92.
59. Penna C, Mognetti B, Tullio F, Gattullo D, Mancardi D, Moro F, **Pagliaro P***, Alloatti G. Post-ischaemic activation of kinases in the pre-conditioning-like cardioprotective effect of the platelet-activating factor. Acta Physiol (Oxf). 2009 Nov;197(3):175-85
60. Penna C, Perrelli MG, Raimondo S, Tullio F, Merlino A, Moro F, Geuna S, Mancardi D, **Pagliaro P.** Postconditioning induces an anti-apoptotic effect and preserves mitochondrial integrity in isolated rat hearts. Biochim Biophys Acta. 2009 Jul;1787(7):794-801.
61. Mancardi D, Penna C, Merlino A, Del Soldato P, Wink DA, **Pagliaro P**. Physiological and pharmacological features of the novel gasotransmitter: hydrogen sulfide. Biochim Biophys Acta. 2009 Jul;1787(7):864-72.
62. Penna C, Tullio F, Merlino A, Moro F, Raimondo S, Rastaldo R, Perrelli MG, Mancardi D, **Pagliaro P.** Postconditioning cardioprotection against infarct size and post-ischemic systolic dysfunction is influenced by gender. Basic Res Cardiol. 2009 Jul;104(4):390-402.

63. Penna C, Mancardi D, Rastaldo R, **Pagliaro P**. Cardioprotection: a radical view Free radicals in pre and postconditioning. Biochim Biophys Acta. 2009 Jul;1787(7):781-93.

64. Penna C, Mancardi D, Tullio F, **Pagliaro P**. Intermittent adenosine at the beginning of reperfusion does not trigger cardioprotection. J Surg Res. 2009 May 15;153(2):231-8.

65. Penna C, Mognetti B, Tullio F, Gattullo D, Mancardi D, **Pagliaro P***, Alloatti G. The platelet activating factor triggers preconditioning-like cardioprotective effect via mitochondrial K-ATP channels and redox-sensible signaling. J Physiol Pharmacol. 2008 Mar;59(1):47-54.

66. Penna C, Abbadessa G, Mancardi D, Tullio F, Piccione F, Spaccamiglio A, Racca S, **Pagliaro P.** Synergistic effects against post-ischemic cardiac dysfunction by sub-chronic nandrolone pretreatment and postconditioning: role of beta2-adrenoceptor. J Physiol Pharmacol. 2008 Dec;59(4):645-59.

67. Penna C, Mancardi D, Tullio F, **Pagliaro P**. Postconditioning and intermittent bradykinin induced cardioprotection require cyclooxygenase activation and prostacyclin release during reperfusion. Basic Res Cardiol. 2008 Jul;103(4):368-77.

68. Penna C, Raimondo S, Ronchi S, Rastaldo R, Mancardi D, Cappello S, Losano G, Geuna S, **Pagliaro P**. Early Homing of Adult Mesenchymal Stem Cells in Normal and Infarcted Isolated Beating Hearts. J Cell Mol Med 2008 Mar-Apr;12(2):507-21.

69. Penna C, Mancardi D, Raimondo S, Geuna S, **Pagliaro P**. The paradigm of postconditioning to protect the heart. J Cell Mol Med. 2008 Apr 16;12(2):435-458.

70. Crisafulli A, Melis F, Tocco F, Pittau G, Lorrai L, Gori T, Mancardi D, Concu A, **Pagliaro**

P. Delayed preconditioning-mimetic actions of exercise or nitroglycerin do not affect haemodynamics and exercise performance in trained or sedentar individuals. J Sports Sci. 2007 Oct;25(12):1393-401.

71. Rastaldo R, **Pagliaro P,** Cappello S, Penna C, Mancardi D, Westerhof N, Losano G. Nitric oxide and cardiac function. Life Sci. 2007 Aug 16;81(10):779-93.

72. Penna C, Abbadessa G, Mancardi D, Spaccamiglio A, Racca S, **Pagliaro P**. Nandrolone- pretreatment enhances cardiac beta(2)-adrenoceptor expression and reverses heart contractile down-regulation in the post-stress period of acute-stressed rats. J Steroid Biochem Mol Biol. 2007 Oct;107(1-2):106-13.

73. Cappello S, Angelone T, Tota B, **Pagliaro P*,** Penna C, Rastaldo R, Corti A, Losano G, Cerra MC. Human recombinant chromogranin A-derived vasostatin-1 mimics preconditioning via an adenosine/nitric oxide signaling mechanism. Am J Physiol Heart Circ Physiol. 2007 Jul;293(1):H719-27.

74. Penna C, Mancardi D, Rastaldo R, Losano G, **Pagliaro P**. Intermittent activation of bradykinin B2 receptors and mitochondrial KATP channels trigger cardiac postconditioning through redox signaling. Cardiovasc Res. 2007 Jul 1;75(1):168-77.

75. Crisafulli A, Salis E, Tocco F, Melis F, Milia R, Pittau G, Caria MA, Solinas R, Meloni L, **Pagliaro P,** Concu A. Impaired central hemodynamic response and exaggerated

vasoconstriction during muscle metaboreflex activation in heart failure patients. Am J Physiol Heart Circ Physiol. 2007 Jun;292(6):H2988-96.

76. Crisafulli A, Tocco F, Pittau G, Lorrai L, Porru C, Salis E, **Pagliaro P**, Melis F, Concu A. Effect of differences in post-exercise lactate accumulation in athletes' haemodynamics. Appl Physiol Nutr Metab. 2006 Aug;31(4):423-31.

77. Penna C, Rastaldo R, Mancardi D, Cappello S, **Pagliaro P,** Westerhof N, LosanoG. Effect of endothelins on the cardiovascular system. J Cardiovasc Med (Hagerstown). 2006 Sep;7(9):645-52.

78. Gallo MP, Ramella R, Alloatti G, Penna C, **Pagliaro P**, Marcantoni A, Bonafe F, Losano G, Levi R. Limited plasticity of mesenchymal stem cells cocultured with adult cardiomyocytes. J Cell Biochem. 2007 Jan 1;100(1):86-99.

79. **Pagliaro P**. Post-infarct heart repair with granulocyte-colony stimulating factor: is it a utopian goal? Cardiovasc Res. 2006 Aug 1;71(3):405-7.

80. Crisafulli A, Salis E, Pittau G, Lorrai L, Tocco F, Melis F, **Pagliaro P**, Concu A. Modulation of cardiac contractility by muscle metaboreflex following efforts of different intensities in humans. Am J Physiol Heart Circ Physiol. 2006 Dec;291(6):H3035-42.

81. Penna C, Rastaldo R, Mancardi D, Raimondo S, Cappello S, Gattullo D, Losano G, **Pagliaro P**. Post-conditioning induced cardioprotection requires signaling through a redox- sensitive mechanism, mitochondrial ATP-sensitive K(+) channel and protein kinase C activation. Basic Res Cardiol. 2006 Mar;101(2):180-9.

Commentary To Accompany by JM Downey and MV Cohen, University of South Alabama, Mobile, AL, USA. “A really radical observation A comment on Penna et al. in Basic Res Cardiol (2006)101:180 –189” Basic Res Cardiol. 2006 Mar;101(2):190-1.

82. Penna C, Cappello S, Mancardi D, Raimondo S, Rastaldo R, Gattullo D, Losano G, **Pagliaro P**. Post-conditioning reduces infarct size in the isolated rat heart: Role of coronary flow and pressure and the nitric oxide/cGMP pathway. Basic Res Cardiol. 2006 Mar;101(2):168-79.

83. Raimondo S, Penna C, **Pagliaro P**, Geuna S. Morphological characterization of GFP stably transfected adult mesenchymal bone marrow stem cells. J Anat. 2006 Jan;208(1):3-12.

84. Penna C., Gattullo D. **Pagliaro P.** Myocardial Protection from Ischemic Preconditioning Is Not Blocked by Chronic Inhibition of Carnitine Palmitoyl-Transferase I. Life Sciences 2005 Sep 2;77(16):2004-17.

85. **Pagliaro P,** Penna C. Rethinking The Renin-Angiotensin System And Its Role In Cardiovascular Regulation. Cardiovas Drug Therap. 2005 Jan;19(1):77-87.

86. Penna C, Alloatti G, Cappello S, Gattullo D, Berta G, Mognetti B, Losano G, **Pagliaro P**. Platelet-activating factor induces cardioprotection in the isolated rat heart akin to ischemic preconditioning: role of phosphoinositide 3-kinase and protein kinase C activation. Am J Physiol Heart Circ Physiol. 2005 May;288(5):H2512-20.

87. 73.67. Penna C, Gattullo D, **Pagliaro P.** The anti-inflammatory agents Siblings Nitroxyl (HNO) and Nitric Oxide (NO) in Cardioprotection. Drug Design Reviews - Online, ISSN 1567-2697 - 2004, 1(4), 273-285.

88. Ridnour LA, Thomas DD, Mancardi D, Donzelli S, Paolocci N, **Pagliaro P**, Miranda KM, Krishna MC, Fukuto J, Grisham MB, Mitchell JB, Espey MG, Wink DA: Antioxidant properties of nitric oxide in cellular physiological and pathophysiological mechanisms. The implications of biological balance between NO and oxidative stress. Current Medicinal Chemistry - Anti-Inflammatory & Anti-Allergy Agents - ISSN 1568-0142- 2004, 3(3), 181- 188.

89. Di Pancrazio F, Mavelli I, Isola M, Losano G, **Pagliaro P**, Harris DA, Lippe G. In vitro and in vivo studies of F0F1ATP synthase regulation by inhibitor protein IF1 in goat heart. Biochemical et Biochim Biophys Acta (BBA) - Bioenergetics 2004 Sep;182 (1):11-20.

90. **Pagliaro P**, Penna C, Rastaldo R, Mancardi D, Crisafulli A, Losano G, Gattullo D. Endothelial cytochrome P450 contributes to the acetylcholine-induced cardiodepression in isolated rat hearts. Acta Physiol Scand. 2004 Sep;182(1):11-20.

91. Crisafulli A, Carta C, Melis F, Tocco F, Frongia F, Santoboni Um U, **Pagliaro P**, Concu A. Hemodynamic responses following intermittent supramaximal exercise in athletes. Exp Physiol. 2004 Nov;89(6):665-74.

92. Penna C, **Pagliaro P,** Rastaldo R, Di Pancrazio F, Lippe G, Gattullo D, Mancardi D, Samaja M, Losano G, Mavelli I. F0F1 ATP synthase activity is differently modulated by coronary reactive hyperemia before and after ischemic preconditioning in the goat. Am J Physiol Heart Circ Physiol. 2004 Nov;287(5):H2192-200.

93. Crisafulli A, Melis F, Tocco F, Santoboni UM, Lai C, Angioy G, Lorrai L, Pittau G Concu A, **Pagliaro P.** Exercise-induced and nitroglycerin-induced myocardial preconditioning improves hemodynamics in patients with angina. Am J Physiol Heart Circ Physiol. 2004 Jul;287(1):H235-42.

94. **Pagliaro P,** Gattullo D. Role of the Fuel Utilized by the Tissues on Coronary Vessel Response to Physical Stimuli in Isolated Rat Hearts. Physiol Res. 2004;53(1):27-34.

95. Wink DA, Miranda KM, Katori T, Mancardi D, Thomas DD, Ridnour L, Espey M, Feelisch M, Colton CA, Fukuto JM, **Pagliaro P**, Kass DA, Paolocci N. Orthogonal properties of redox siblings nitroxyl and nitric oxide in the cardiovascular system: a novel paradigm. Am J Physiol Heart Circ Physiol. 2003 Dec, 285(6): H2264-76

96. Penna C, **Pagliaro P**, Cappello S, Mancardi D, Raffaella Rastaldo, Donatella Gattullo, Gianni Losano. Coronary vasculature in ischaemic preconditioning. Recent Research Developments in Life Sciences 2003 Sep 1;13-26.

97. **Pagliaro P.** Differential Biological Effects of Products of Nitric Oxide (NO) Synthase: It Is Not Enough To Say NO. Life Sci. 2003 Sep 12;73:2137-2149.

98. **Pagliaro P**, Mancardi D, Rastaldo R, Penna C, Gattullo D, Miranda KM, Feelisch M, Wink DA, Kass DA, Paolocci N. Nitroxyl affords thiol-sensitive myocardial protective effects akin to early preconditioning. Free Radic Biol Med. 2003 Jan 1;34(1):33-43.

99. Crisafulli A, Scott AC, Wensel R, Davos CH, Francio DP, **Pagliaro P**, Coats AJS, Concu A, Piepoli MF. Muscle Metaboreflex-induced Increases in Stroke Volume Med Sci Sport Exe.2003 Feb; 35: 221-8.Commentary To Accompany by Paul J. Fadel, Ph.D. University of Texas Southwestern Medical Center Dallas, TX. Med Sci Sport Exe. 2003 Feb; 35: 229.

100. **Pagliaro P**, Chiribiri A, Gattullo D, Penna C, Rastaldo R, Recchia FA. Fatty Acids Are Important for the Frank-Starling Mechanism and Gregg Effect but Not for Catecholamine Response in Isolated Rat Hearts. Acta Physiol Scand. 2002 Nov;176(3):167- 176.

101. **Pagliaro P**, Chiribiri A, Rastaldo R, Mancardi D, Penna C, Gattullo D, Losano G. Ischemic preconditioning changes the pattern of coronary reactive hyperemia regardless of mitochondrial ATP-sensitive K+ channel blockade. Life Sci. 2002 Sep 27;71(19):2299-309.

102. **Pagliaro P**, Rastaldo R, Losano G, Gattullo D. Mitochondrial ATP-sensitive channel opener does not induce vascular preconditioning, but potentiates the effect of a preconditioning ischemia on coronary reactive hyperemia in the anesthetized goat. Pflugers Arch. 2001 Nov;443(2):166-74.

103. Rastaldo R, Penna C, **Pagliaro P**. Comparison between the effects of pentobarbital or ketamine/nitrous oxide anesthesia on metabolic and endothelial components of coronary reactive hyperemia. Life Sci. 2001 Jun 29;69 (6):729-738.

104. Rastaldo R, Paolocci N, Chiribiri A, Penna C, Gattullo D, **Pagliaro P**. Cytochrome P-450 metabolite of arachidonic acid mediates bradykinin-induced negative inotropic effect. Am J Physiol Heart Circ Physiol. 2001 Jun;280(6):H2823-32.

105. Paolocci N*, **Pagliaro P***, Isoda T, Saavedra FW, Kass DA. Role of calcium-sensitive K(+) channels and nitric oxide in in vivo coronary vasodilation from enhanced perfusion pulsatility. Circulation. 2001 Jan 2;103(1):119-24.
*The first 2 authors contributed equally to this work.

106. **Pagliaro P,** Gattullo D, Rastaldo R, Losano G. Ischemic preconditioning: from the first to the second window of protection. Life Sci. 2001 May 25;69(1):1-15.

107. Guiot C, Merletti A, **Pagliaro P,** Losano G. Model-based assessment of pressure and flow-dependent coronary responses following abrupt pressure drops. Comput Biol Med. 2000 May;30(3):111-26.

108. **Pagliaro P,** Paolocci N, Isoda T, Saavedra WF, Sunagawa G, Kass DA. Reversal of glibenclamide-induced coronary vasoconstriction by enhanced perfusion pulsatility: possible role for nitric oxide. Cardiovasc Res. 2000 Mar;45(4):1001-9.

109. **Pagliaro P**. Regulation of basal myocardial function by NO. Cardiovasc Res. 1999 Oct;44(1):223-4.

110. Gattullo D, **Pagliaro P**, Marsh NA, Losano G. New insights into nitric oxide and coronary circulation. Life Sci. 1999;65(21):2167-74.

111. **Pagliaro P**, Senzaki H, Paolocci N, Isoda T, Sunagawa G, Recchia FA, Kass DA. Specificity of synergistic coronary flow enhancement by adenosine and pulsatile perfusion in the dog. J Physiol. 1999 Oct 1;520 Pt 1:271-80.

112. Gattullo D, Linden RJ, Losano G, **Pagliaro P**, Westerhof N. Ischaemic preconditioning changes the pattern of coronary reactive hyperaemia in the goat: role of adenosine and nitric oxide. Cardiovasc Res. 1999 Apr;42(1):57-64.

113. **Pagliaro P,** Penna C, Gattullo D. The effects of ischemic preconditioning on resting coronary flow and reactive hyperemia: involvement of A1 adenosine receptors. Life Sci. 1999;64(12):1071-8.

114. **Pagliaro P,** Gattullo D, Linden RJ, Losano G, Westerhssof N. Systolic coronary flow impediment in the dog: role of ventricular pressure and contractility. Exp Physiol. 1998 Nov;83(6):821-31.

115. Marsh N, Gattullo D, **Pagliaro P,** Losano G. The Gaboon viper, Bitis gabonica: hemorrhagic, metabolic, cardiovascular and clinical effects of the venom. Life Sci. 1997;61(8):763-9.

116. **Pagliaro P**, Dalla Valle R, Gattullo D, Merletti A, Marsh NA. The heart rate after inhibition of nitric oxide release in the anaesthetized dog. Gen Pharmacol. 1996 Jun;27(4):695-9.

117. Losano G, Gattullo D, **Pagliaro P.** Myocardial, neural and vascular aspects of ischemic preconditioning. Life Sci. 1996;59(15):1185-92. Review.

118. Gattullo D, **Pagliaro P**, Linden RJ, Merletti A, Losano G. The role of nitric oxide in the initiation and in the duration of some vasodilator responses in the coronary circulation. Pflugers Arch. 1995 May;430(1):96-104.

119. Losano G, Gattullo D, **Pagliaro P.** Properties of the myocardium affecting the coronary circulation. Cardioscience. 1995 Mar;6(1):13-7. (Confluito in Cardiovasc Res)

120. Losano G, **Pagliaro P**, Gattullo D, Marsh NA. Control of coronary blood flow by endothelial release of nitric oxide. Clin Exp Pharmacol Physiol. 1994 Oct;21(10):783-9.

121. Gattullo D, Linden RJ, Losano G, Pagliaro P. Transient effects of quick changes in myocardial metabolism and perfusion pressure on coronary vasomotor responses. Basic Res Cardiol. 1994 Jul-Aug;89(4):341-53.

122. Gattullo D, Dalla Valle R, Linden RJ, Losano G, **Pagliaro P**. Increases in coronary intravascular pressure during maximal coronary vasodilatation in the anaesthetized dog. Cardiology. 1994;84(2):89-98.

123. Gattullo D, **Pagliaro P,** Dalla Valle R. The effect of the inhibition of the endothelial release of nitric oxide on coronary reactive hyperaemia in the anaesthetized dog. Life Sci. 1994;54(12):791-8.

124. Gattullo D, Linden RJ, Losano G, **Pagliaro P**, Westerhof N. Ventricular distension and diastolic coronary blood flow in the anaesthetized dog. Basic Res Cardiol. 1993 Jul- Aug;88(4):340-9.

125. Gattullo D, Dambrosio M, Federici A, Linden RJ, Losano G, **Pagliaro P**. Diastolic-systolic differences in coronary blood flow: effect of stenosis and tachycardia in the anaesthetized dog. Physiol. Res., 1993;43, 373-81.

126. Gattullo D, Casalucci D, Gastaldi L, Morello M, **Pagliaro P**. The effect of pure right ventricular ischemia on right and left ventricular performance in the anesthetized dog. Cardiology. 1993;83(1-2):61-70.

127. Gattullo D, Linden RJ, Losano G, Soardo GP, **Pagliaro P**. "Resistance" to left ventricular outflow studied in anesthetized dogs. J Med. 1993;24(6):369-83.

128. Gattullo D, Linden RJ, Losano G, **Pagliaro P**, Westerhof N. Coronary flow and left ventricular pressure during diastole in the anaesthetized dog. Exp Physiol. 1992 Mar;77(2):397-400.

129. Alloatti G, Gattullo D, Losano G, Marsh NA, **Pagliaro P**, Vono P. The mechanical effects of rhinoceros horned viper (Bitis nasicornis) venom on the isolated perfused guinea- pig heart. Exp Physiol. 1991 Jul;76(4):611-4.

130. Alloatti G, Gattullo D, Dalla Valle R, Marsh NA, **Pagliaro P**, Vono P. The haemodynamic effect of Bitis nasicornis (rhinoceros horned viper) venom. Gen Pharmacol. 1991;22(1):203-6.

131. Alloatti G, Gattullo D, Marsh NA, **Pagliaro P**, Vono P. The mechanical and electrical effects of rhinoceros viper (Bitis nasicornis) venom on the isolated perfused guinea pig heart and atrial preparations. Life Sci. 1991;49(21):1539-48.

132. Gattullo D, Hyslop S, Marsh NA, Pagliaro P, Vono P. Acidotic effect of gaboon viper (Bitis gabonica) venom in the urethane-anaesthetized rat. Gen Pharmacol. 1991;22(1):199-202.

133. Dambrosio M, Gattullo D, Linden RJ, Losano G, **Pagliaro P**, Vono P. Coronary myogenic responses to abrupt changes in aortic blood pressure in anaesthetized dogs. Exp Physiol. 1990 Sep;75(5):725-8.

134. Gattullo D, Hyslop S, Marsh NA, **Pagliaro P**, Vono P. Acid-base, plasma lactate and glucose changes in the rabbit following administration of Gaboon viper (Bitis gabonica) venom. Life Sci. 1989;45(20):1893-901.

Riviste a carattere nazionale:

1. Rastaldo R, Penna C, Cappello S, Mancardi D, **Pagliaro P**, Losano G. [Ischemic postconditioning: an effective strategy of myocardial protection?] G Ital Cardiol (Rome). 2006 Jul;7(7):464-73.
2. Losano G, Penna C, Cappello S, **Pagliaro P**. Azione dell'Apelina e dei recettori APJ sulla contrattilità miocardica e sul tono vasomotore. Ital Heart J Suppl2005 May;6(5):272-8.

3. **Pagliaro P**. La Via Metabolica del Citocromo P-450 Endoteliale e la Contrattilità Cardiaca. Giornale dell'Accademia di Medicina di Torino. 2003 CLXVI
4. **Pagliaro P**, Chiribiri A, Mancardi D, Rastaldo R, Gattullo D, Losano G. Coronary Endothelial Dysfunction After Ischemia and Reperfusion and Its Prevention by Ischemic Preconditioning Ital Heart J 2003 Jun; 4(6):383-394.
5. **Pagliaro P.** The endothelial cytochrome p450 pathway and cardiac contractility. Journal Biological Research 2003 n.1 vol LXXIX pag 31-32
6. **Pagliaro P**, Gattullo D, Rastaldo R, Losano G. Involvement of nitric oxide in ischemic preconditioning. Ital Heart J 2001 Sep;2(9):660-8.
7. **Pagliaro P**, Rastaldo R, Paolocci N, Gattullo D, Losano G. The endothelium-derived hyperpolarizing factor: does it play a role in vivo and is it involved in the regulation of vascular tone only? Ital Heart J. 2000 Apr;1(4):264-8.
8. Losano G, Gattullo D, Merletti A, **Pagliaro P**, Penna C. Endothelial control of coronary circulation. Cardiologia. 1998 Jan;43(1):17-24.
9. G. Losano, **P. Pagliaro**. Il precondizionamento ischemico del miocardio. Giornale dell'Accademia di Medicina di Torino. 160, 367-378, 1997.
10. Gattullo D, **Pagliaro P,** Losano G. Mechanisms of ischemic preconditioning: relation with ischemia-reperfusion injury.G Ital Cardiol. 1997 Mar;27(3):288-96.
11. **Pagliaro P**, Gattullo D, Merletti A, Losano G, Marsh NA. Heart rate decrease after inhibition of nitric oxide release in the anaesthetized dog. Boll Soc Ital Biol Sper. 1995 Mar-Apr;71(3-4):75-81.
12. **Pagliaro P**. Ruolo del radicale NO (Ossido Nitrico) nella regolazione del circolo coronarico. Giornale dell'Accademia di Medicina di Torino, CLVII, 140-157, 1994.
13. Gattullo D, Linden RJ, Merletti A, **Pagliaro P.** Endothelium and coronary reactive hyperaemia. Boll Soc Ital Biol Sper. 1993 Jul-Aug;69(7-8):431-7.
14. Gattullo D**, Pagliaro P**, Dalla Valle R, Losano G, Linden RJ. The effect of maximal vasodilation on the distensibility of the coronary vascular bed. Cardiologia. 1993 May;38(5):305-10.
15. G. Losano, M. Dambrosio, **P. Pagliaro.** Morfologia della curva del flusso coronarico sinistro dopo stenosi di un grosso ramo arterioso epicardico. Giornale dell'Accademia di Medicina di Torino, 154, 197-212,1992.
16. **Pagliaro P**,Vono P. Ventricular volume and coronary flow. Cardiologia.1991 Aug;36(8):643-52.
17. Gattullo D, Losano G, Marsh NA, **Pagliaro P**, Vacca G, Vono P. Artificial respiration and survival time in anaesthetized rat after injection of gaboon viper (Bitis gabonica) venom. Boll Soc Ital Biol Sper. 1986 Jan 31;62(1):143-9.
18. Gattullo D, Losano G, **Pagliaro P**, Vacca G, Vono P.A quantitative comparison between the two phases of the ventricular ejection. Boll Soc Ital Biol Sper. 1985 Jun 30;61(6):803-9.

Libri e Capitoli di Libri scientifici:

1. *Capitolo* 2007 ISBN 81-308-0-148-5 New insight into cardiovascular apparatus during exercise. Physiological and Physio-pathological aspects. Autori Vari Research Signpost (234 pagine) Capitolo: Exercise and vascular endothelium functions da Pag.169 a Pag.204 Autori: **P Pagliaro.**
2. *Capitolo* 2007 ISBN 1-60021-379-0 New Research on Signal Transduction Autori Vari. Nova Science Publishers (260 pagine) Capitolo: Postconditioning the Heart da Pag.231 a Pag.250 Autori: **P Pagliaro** and C Penna.
3. *Capitolo* 2006 ISBN 1826-8838 Proceedings 78° Convegno SIBS Journal of Biological Research Vol. LXXXI, N. 1, 2006 Autori vari. Rubbettino Editore (116 pagine) Capitolo : The isolated beating heart as a model for stem cell transplantation studies da Pag.45 a Pag.49. Autori: **P. Pagliaro,** C. Penna, S. Raimondo, S. Geuna
4. *Capitolo* 2003 ISBN 88-498-0859-3 Proceedings 77° Convegno SIBS in Journal of Biological Research Vol. LXXIX, N. 1, 2003 Autori vari. Rubbettino Editore (112 pagine) Capitolo: The Endothelial Cytochrome P-450 Pathway and Cardiac Contractility da Pag.40 a Pag.44 Autori: **Pagliaro P**
5. *Capitolo* 2003 ISBN 81-271-0024-2 Recent Research Developments in Life Sciences. Autori vari. Research Signpost (251 pagine) Capitolo: Coronary vasculature in ischaemic preconditioning da Pag.13 a Pag.26 Autori: Penna C, **Pagliaro P**, Cappello S, Mancardi D, Rastaldo R, Gattullo D, Losano G
6. *Capitolo* 2002 ISBN *Non Noto*. Cuore ed attività fisica: prevenzione e riabilitazione. Autori Vari CLUEB Editrice Bologna. (70 pagine) Capitolo: La risposta endoteliale e coronarica all'attività fisica. da Pag.15 a Pag.22 Autori: **Pagliaro P**
7. *Capitolo* 2001 ISBN 0-415-26904-0 EDHF 2000. AutoriVari. Taylor & Francis, London and N. Y. (502 pagine) Capitolo: Role of Charybdotoxin/Apamin Sensitive K^{+}Ca Channels in Pulsatile Perfusion- Mediated Coronary Vasodilatation in vivo. da Pag.304 a Pag.312 Autori : Paolocci N, Isoda T, Saavedra WF, **Pagliaro P**, Kass DA
8. *Capitolo* 1998 ISBN *Non noto.* In Lo sport: un amico del cuore. Autori Vari. Editrice Tam Tam Cagliari (50 pagine) Capitolo: Relazione tra pressione pulsatoria e flusso coronarico. da Pag.20 a Pag.21 Autori: **P Pagliaro**