
Prof. Dott. Vincenzo Brancaleone

CURRICULUM SCIENTIFICO

2001, Conseguimento della laurea in Chimica e Tecnologia Farmaceutiche (110/100 con lode), con tesi sperimentale svolta presso il Dipartimento di Farmacologia Sperimentale, Università degli Studi di Napoli Federico II

2004, Conseguimento di Specializzazione in Farmacia Ospedaliera presso l'Università degli Studi di Salerno, con tesi sperimentale svolta presso il Dipartimento di Farmacologia Sperimentale, Università degli Studi di Napoli Federico II

2007, Conseguimento titolo di Dottore di Ricerca in Scienza del Farmaco, indirizzo Farmacologico, presso l'Università degli Studi di Napoli Federico II

2008-2009, Borsista post-doc presso il Dipartimento di Farmacologia Sperimentale dell'Università degli Studi di Napoli Federico II

2009-2011, Postdoctoral Research Fellow presso il William Harvey Research Institute, Queen Mary University of London, London, UK

2011-ad oggi, Ricercatore di ruolo non confermato SSD BIO/14 presso l'Università degli Studi della Basilicata, Dipartimento di Scienze, Potenza

Principali Pubblicazioni / Selected Papers and Publications:

1: d'Emmanuele di Villa Bianca R, Mitidieri E, Donnarumma E, Tramontano T, Brancaleone V, Cirino G, Bucci M, Sorrentino R. Hydrogen sulfide is involved in dexamethasone-induced hypertension in rat. Nitric Oxide. 2015 Apr 30;46:80-6. doi: 10.1016/j.niox.2014.11.013. Epub 2014 Nov 25. PubMed PMID: 25461303.

2: Brancaleone V, Mitidieri E, Flower RJ, Cirino G, Perretti M. Annexin A1 mediates hydrogen sulfide properties in the control of inflammation. J Pharmacol Exp Ther. 2014 Oct;351(1):96-104. doi: 10.1124/jpet.114.217034. Epub 2014 Jul 30. PubMed PMID: 25077524; PubMed Central PMCID: PMC4256431.

3: Brancaleone V, Vellecco V, Matassa DS, d'Emmanuele di Villa Bianca R, Sorrentino R, Ianaro A, Bucci M, Esposito F, Cirino G. Crucial role of androgen receptor in vascular H₂S biosynthesis induced by testosterone. Br J Pharmacol. 2015 Mar;172(6):1505-15. doi: 10.1111/bph.12740. Epub 2014 Jul 2. PubMed PMID: 24750035; PubMed Central PMCID: PMC4369260.

4: 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. Cardiovasc Res. 2014 Apr 1;102(1):138-47. doi: 10.1093/cvr/cvu026. Epub 2014 Feb 5. PubMed PMID: 24501330.

5: Roviezzo F, De Angelis A, De Gruttola L, Bertolino A, Sullo N, Brancaleone V, Bucci M, De Palma R, Urbanek K, D'Agostino B, Ianaro A, Sorrentino R, Cirino G.



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Involvement of proteinase activated receptor-2 in the vascular response to sphingosine 1-phosphate. *Clin Sci (Lond)*. 2014 Apr;126(8):545-56. doi: 10.1042/CS20130272. PubMed PMID: 24131465.

6: Cash JL, Bena S, Headland SE, McArthur S, Brancaleone V, Perretti M. Chemerin15 inhibits neutrophil-mediated vascular inflammation and myocardial ischemia-reperfusion injury through ChemR23. *EMBO Rep*. 2013 Nov;14(11):999-1007. doi: 10.1038/embor.2013.138. Epub 2013 Sep 3. PubMed PMID: 23999103; PubMed Central PMCID: PMC3818079.

7: Sampaio AL, Dalli J, Brancaleone V, D'Acquisto F, Perretti M, Wheatley C. Biphasic modulation of NOS expression, protein and nitrite products by hydroxocobalamin underlies its protective effect in endotoxemic shock: downstream regulation of COX-2, IL-1 β , TNF- α , IL-6, and HMGB1 expression. *Mediators Inflamm*. 2013;2013:741804. doi: 10.1155/2013/741804. Epub 2013 May 28. PubMed PMID: 23781123; PubMed Central PMCID: PMC3679756.

8: Brancaleone V, Gobetti T, Cenac N, le Faouder P, Colom B, Flower RJ, Vergnolle N, Nourshargh S, Perretti M. A vasculo-protective circuit centered on lipoxin A4 and aspirin-triggered 15-epi-lipoxin A4 operative in murine microcirculation. *Blood*. 2013 Jul 25;122(4):608-17. doi: 10.1182/blood-2013-04-496661. Epub 2013 Jun 3. PubMed PMID: 23733341; PubMed Central PMCID: PMC3724196.

9: Fowkes RC, Moradi-Bidhendi N, Brancaleone V, Zariwala MG, Brady D, Jessop DS, Perretti M, Renshaw D. Annexin-A1 protein and its relationship to cortisol in human saliva. *Psychoneuroendocrinology*. 2013 May;38(5):722-7. doi: 10.1016/j.psyneuen.2012.08.003. Epub 2012 Sep 25. Erratum in: *Psychoneuroendocrinology*. 2014 Sep;47:246. Brancaleone, Vincenzo [corrected to Brancaleone, Vincenzo]. PubMed PMID: 23017499.

10: Bucci M, Vellecco V, Harrington L, Brancaleone V, Roviezzo F, Mattace Raso G, Ianaro A, Lungarella G, De Palma R, Meli R, Cirino G. Cross-talk between toll-like receptor 4 (TLR4) and proteinase-activated receptor 2 (PAR(2)) is involved in vascular function. *Br J Pharmacol*. 2013 Jan;168(2):411-20. doi: 10.1111/j.1476-5381.2012.02205.x. PubMed PMID: 22957757; PubMed Central PMCID: PMC3572567.

11: Bena S, Brancaleone V, Wang JM, Perretti M, Flower RJ. Annexin A1 interaction with the FPR2/ALX receptor: identification of distinct domains and downstream associated signaling. *J Biol Chem*. 2012 Jul 13;287(29):24690-7. doi: 10.1074/jbc.M112.377101. Epub 2012 May 18. PubMed PMID: 22610094; PubMed Central PMCID: PMC3397896.

12: Kabouridis PS, Pimentel TA, Brancaleone V, D'Acquisto F, Oliani SM, Perretti M, Jury EC. Distinct localization of T cell Agrin during antigen presentation--evidence for the expression of Agrin receptor(s) in antigen-presenting cells. *FEBS J*. 2012 Jul;279(13):2368-80. doi: 10.1111/j.1742-4658.2012.08615.x. Epub 2012 May 21. PubMed PMID: 22530934.

13: Nadkarni S, Cooper D, Brancaleone V, Bena S, Perretti M. Activation of the annexin A1 pathway underlies the protective effects exerted by estrogen in polymorphonuclear leukocytes. *Arterioscler Thromb Vasc Biol*. 2011 Nov;31(11):2749-59. doi: 10.1161/ATVBAHA.111.235176. PubMed PMID: 21836070; PubMed Central PMCID: PMC3357483.



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- 14: Roviezzo F, Brancaleone V, De Gruttola L, Vellecco V, Bucci M, D'Agostino B, Cooper D, Sorrentino R, Perretti M, Cirino G. Sphingosine-1-phosphate modulates vascular permeability and cell recruitment in acute inflammation in vivo. *J Pharmacol Exp Ther.* 2011 Jun;337(3):830-7. doi: 10.1124/jpet.111.179168. Epub 2011 Mar 18. PubMed PMID: 21421740.
- 15: Brancaleone V, Dalli J, Bena S, Flower RJ, Cirino G, Perretti M. Evidence for an anti-inflammatory loop centered on polymorphonuclear leukocyte formyl peptide receptor 2/lipoxin A4 receptor and operative in the inflamed microvasculature. *J Immunol.* 2011 Apr 15;186(8):4905-14. doi: 10.4049/jimmunol.1003145. Epub 2011 Mar 11. PubMed PMID: 21398608; PubMed Central PMCID: PMC3175102.
- 16: Renshaw D, Montero-Melendez T, Dalli J, Kamal A, Brancaleone V, D'Acquisto F, Cirino G, Perretti M. Downstream gene activation of the receptor ALX by the agonist annexin A1. *PLoS One.* 2010 Sep 17;5(9). pii: e12771. doi: 10.1371/journal.pone.0012771. PubMed PMID: 20862244; PubMed Central PMCID: PMC2941452.
- 17: Bucci M, Papapetropoulos A, Vellecco V, Zhou Z, Pyriochou A, Roussos C, Roviezzo F, Brancaleone V, Cirino G. Hydrogen sulfide is an endogenous inhibitor of phosphodiesterase activity. *Arterioscler Thromb Vasc Biol.* 2010 Oct;30(10):1998-2004. doi: 10.1161/ATVBAHA.110.209783. Epub 2010 Jul 15. PubMed PMID: 20634473.
- 18: Dufton N, Hannon R, Brancaleone V, Dalli J, Patel HB, Gray M, D'Acquisto F, Buckingham JC, Perretti M, Flower RJ. Anti-inflammatory role of the murine formyl-peptide receptor 2: ligand-specific effects on leukocyte responses and experimental inflammation. *J Immunol.* 2010 Mar 1;184(5):2611-9. doi: 10.4049/jimmunol.0903526. Epub 2010 Jan 27. Erratum in: *J Immunol.* 2011 Feb 15;186(4):2684-5. PubMed PMID: 20107188; PubMed Central PMCID: PMC4256430.
- 19: Renga B, Mencarelli A, Vavassori P, Brancaleone V, Fiorucci S. The bile acid sensor FXR regulates insulin transcription and secretion. *Biochim Biophys Acta.* 2010 Mar;1802(3):363-72. doi: 10.1016/j.bbadis.2010.01.002. Epub 2010 Jan 7. PubMed PMID: 20060466.
- 20: Roviezzo F, D'Agostino B, Brancaleone V, De Gruttola L, Bucci M, De Dominicis G, Orłotti D, D'Aiuto E, De Palma R, Rossi F, Sorrentino R, Cirino G. Systemic administration of sphingosine-1-phosphate increases bronchial hyperresponsiveness in the mouse. *Am J Respir Cell Mol Biol.* 2010 May;42(5):572-7. doi: 10.1165/rcmb.2009-0108OC. Epub 2009 Jun 25. PubMed PMID: 19556602.
- 21: Tripatara P, Patel NS, Brancaleone V, Renshaw D, Rocha J, Sepodes B, Mota-Filipe H, Perretti M, Thiernemann C. Characterisation of cystathionine gamma-lyase/hydrogen sulphide pathway in ischaemia/reperfusion injury of the mouse kidney: an in vivo study. *Eur J Pharmacol.* 2009 Mar 15;606(1-3):205-9. doi: 10.1016/j.ejphar.2009.01.041. Epub 2009 Feb 5. PubMed PMID: 19374832.
- 22: Brancaleone V, Roviezzo F, Vellecco V, De Gruttola L, Bucci M, Cirino G. Biosynthesis of H₂S is impaired in non-obese diabetic (NOD) mice. *Br J Pharmacol.* 2008 Nov;155(5):673-80. doi: 10.1038/bjp.2008.296. Epub 2008 Jul 21. PubMed PMID: 18641671; PubMed Central PMCID: PMC2584926.
- 23: Bucci M, Roviezzo F, Brancaleone V, Di Lorenzo A, Evangelista S, Gori M, Cirino G. ACE-inhibition ameliorates vascular reactivity and delays diabetes outcome in NOD mice. *Vascul Pharmacol.* 2008 Aug-Sep;49(2-3):84-90. doi:



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10.1016/j.vph.2008.06.002. Epub 2008 Jun 13. PubMed PMID: 18606247.

24: Bucci M, Mirone V, Di Lorenzo A, Vellecco V, Roviezzo F, Brancaleone V, Cirino G. Hydrogen sulphide is involved in testosterone vascular effect. *Eur Urol.* 2009 Aug;56(2):378-83. doi: 10.1016/j.eururo.2008.05.014. Epub 2008 May 22. PubMed PMID: 18511180.

25: Roviezzo F, Cuzzocrea S, Di Lorenzo A, Brancaleone V, Mazzon E, Di Paola R, Bucci M, Cirino G. Protective role of PI3-kinase-Akt-eNOS signalling pathway in intestinal injury associated with splanchnic artery occlusion shock. *Br J Pharmacol.* 2007 Jun;151(3):377-83. Epub 2007 Apr 23. PubMed PMID: 17450173; PubMed Central PMCID: PMC2013986.

26: Roviezzo F, Di Lorenzo A, Bucci M, Brancaleone V, Vellecco V, De Nardo M, Orlandi D, De Palma R, Rossi F, D'Agostino B, Cirino G. Sphingosine-1-phosphate/sphingosine kinase pathway is involved in mouse airway hyperresponsiveness. *Am J Respir Cell Mol Biol.* 2007 Jun;36(6):757-62. Epub 2007 Feb 22. PubMed PMID: 17322125.

27: Zanardo RC, Brancaleone V, Distrutti E, Fiorucci S, Cirino G, Wallace JL. Hydrogen sulfide is an endogenous modulator of leukocyte-mediated inflammation. *FASEB J.* 2006 Oct;20(12):2118-20. Epub 2006 Aug 15. PubMed PMID: 16912151.

28: Roviezzo F, Bucci M, Delisle C, Brancaleone V, Di Lorenzo A, Mayo IP, Fiorucci S, Fontana A, Gratton JP, Cirino G. Essential requirement for sphingosine kinase activity in eNOS-dependent NO release and vasorelaxation. *FASEB J.* 2006 Feb;20(2):340-2. Epub 2005 Dec 1. PubMed PMID: 16322129.

29: Roviezzo F, Bucci M, Brancaleone V, Di Lorenzo A, Geppetti P, Farneti S, Parente L, Lungarella G, Fiorucci S, Cirino G. Proteinase-activated receptor-2 mediates arterial vasodilation in diabetes. *Arterioscler Thromb Vasc Biol.* 2005 Nov;25(11):2349-54. Epub 2005 Sep 1. PubMed PMID: 16141401.

30: Roviezzo F, Tsigkos S, Kotanidou A, Bucci M, Brancaleone V, Cirino G, Papapetropoulos A. Angiotensin-2 causes inflammation in vivo by promoting vascular leakage. *J Pharmacol Exp Ther.* 2005 Aug;314(2):738-44. Epub 2005 May 3. PubMed PMID: 15870388.

31: Bucci M, Roviezzo F, Brancaleone V, Lin MI, Di Lorenzo A, Cicala C, Pinto A, Sessa WC, Farneti S, Fiorucci S, Cirino G. Diabetic mouse angiopathy is linked to progressive sympathetic receptor deletion coupled to an enhanced caveolin-1 expression. *Arterioscler Thromb Vasc Biol.* 2004 Apr;24(4):721-6. Epub 2004 Feb 12. PubMed PMID: 14962949.

32: Fiorucci S, Antonelli E, Brancaleone V, Sanpaolo L, Orlandi S, Distrutti E, Acuto G, Clerici C, Baldoni M, Del Soldato P, Morelli A. NCX-1000, a nitric oxide-releasing derivative of ursodeoxycholic acid, ameliorates portal hypertension and lowers norepinephrine-induced intrahepatic resistance in the isolated and perfused rat liver. *J Hepatol.* 2003 Dec;39(6):932-9. PubMed PMID: 14642608.



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ORARIO E SEDE DI RICEVIMENTO

Studio docente: Martedì 14-15, Mercoledì 14-15

INDIRIZZO EMAIL:

vincenzo.brancaleone@unibas.it

RECAPITO TELEFONICO:

3425696912
