

CURRICULUM VITAE ET STUDIORUM

Personal information

Name: Mariarosaria Bucci
Place and date of birth: Napoli, 5/10/1970
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Academic CV

November 2014: Associate Professor of Pharmacology, Department of Pharmacy, University of Naples "Federico II" Naples, Italy
2002-2014: Assistant Professor of Pharmacology, Department of Pharmacy, University of Naples "Federico II" Naples, Italy
2011-2012: Assistant Professor in cardiovascular area IRCSS San Raffaele Pisana, Rome, Italy
2000-2002: Contract Researcher at Department of Pharmaceutical Sciences, University of Salerno for the project "Mediators of inflammation and atherosclerotic process"
1997-2000: PhD in Pharmaceutical Sciences, University of Naples "Federico II"
1995-1996: Master degree in Pharmacology, University of Naples "Federico II"
1995: First Degree in Chemistry and Pharmaceutical Sciences, , University of Naples "Federico II"

Training at foreign institutions:

Aug.-Sep. 1993: Department of Pharmacology, Faculty of Medical Sciences, Unicamp, Campinas (SP), Brazil; supervisor Prof. Gilberto De Nucci
1998-1999: Yale University School of Medicine, Boyer Center for Molecular Medicine Department of Pharmacology, New Haven, CT, USA supervisor: prof. William C. Sessa

Awards and activities:

2009: Best poster award, XXXIV Congresso Nazionale della Società Italiana di Farmacologia, Rimini 14-17 October
2009: Platinum slide series of European Urology for the article "Hydrogen sulphide is involved in testosterone vascular effect"
2011: High Graded Poster, 10th world congress on inflammation, Paris 25-29 June
2011: Award winner poster section, XIV Congress of the European Shock Society, Taormina 31 Aug-2 Sep
2012: Outstanding Scientific Research Award, Second International Conference on H₂S Biology and Medicine, Atlanta, Georgia, US 19-22 Sep
2012: Cover of Journal of Pharmacological and Experimental Therapeutics, March Vol 340, N.3
2012-2015: Management Committee in European Cooperation in Science and Technology (COST)BMBS Action BM1005 http://www.cost.eu/about_cost

Teaching:

- 2017-2018 Pharmacology and Pharmacotherapy, Department of Pharmacy University of Naples "Federico II"
- 2017-2018 Applied Pharmacology, Department of Pharmacy University of Naples "Federico II"
- 2016-2017 Pharmacology and Toxicology, Department of Pharmacy University of Naples "Federico II"
- 2007-2016: Pharmacological Biotechnologies, Department of Pharmacy University of Naples "Federico II"
- 2006-2008: Cellular and Molecular Pharmacology, Department of Pharmacy University of Naples "Federico II"
- 2004-2006: Experimental Toxicology, Master in Pharmacology, Department of Pharmacy University of Naples "Federico II"
- 2004-2005: Applied Pharmacology, Department of Biotechnological Sciences, University of Naples "Federico II"
- 2003-2005: Biological Assays in pharmacology, Department of Biotechnological Sciences, University of Naples "Federico II"

Main areas of interest:

The research activity of prof. Bucci deals physiological processes in vascular homeostasis and inflammatory-based vascular diseases. In this context it is possible to identify the following topics:

- role of endogenous gasotransmitters (CO, NO, H₂S) in vascular homeostasis and in the development of inflammatory-based vascular diseases
- studies on proteinases activated receptors (PAR1 and PAR2) as a knot between coagulation and inflammation
- pharmacological assays and molecular analysis on natural and/or synthetic compounds as a potential anti-inflammatory and antithrombotic agents
- prof. Bucci has also contributed on the shingosine-1-phosphate and its transduction mechanism as proinflammatory signal in bronchial hyperactivity
- prof. Bucci has actively participated to clarify the molecular mechanisms involved in inflammatory arthropaties in both clinical and experimental settings.

Publications:

27-11-2018 *Manuela Bucci*

1. Cicala C., Bucci M.R., Maraganore J.M. & Cirino G. Hirulog effect in rat endotoxin shock *Life Sci.* 57, PL307-PL313 (1995)
2. Cirino G., Misasi M., Loffredo A., Sorrentino L., Caivano P., Bucci M. & Cicala C. The sinovial-like membrane at the bone interface in loose total hip replacements contains high levels of extracellular group II phospholipase A2 *Life Sci.* 59, PL81-PL86 (1996)
3. Cirino G., Cicala C., Bucci M., Sorrentino L., Maraganore J.M. & Stones S.R. Thrombin functions as an inflammatory mediator through activation of his receptor *J.Exp.Med.* 183, 821-827 (1996)
4. Cicala C., Bucci M., D'Acquisto F., Parente L. & Cirino G. Sequential release of TNF α and phospholipase A2 in rat model of LPS-induced pleurisy. *Med.Inflamm.* 6, 211-215 (1997)

5. Cirino G., Cicala C., **Bucci M.**, Sorrentino L., Ambrosini G, De Dominicis G. & Altieri D.C. Factor Xa as an interface between coagulation and inflammation. Molecular mimicry of factor Xa association with effector cell protease receptor-1 induces acute inflammation in vivo *J.Clin.Inv.* 99, 2446-2451 (1997)
6. Papapetropoulos A., Piccardoni P., Cirino G., **Bucci M.**, Sorrentino R., Cicala C., Johnson K., Zachariou V., Sessa W.C. & Altieri D.C. Hypotension and inflammatory cytokine gene expression triggered by factor Xa-nitric oxide signaling *Proc.Natl.Acad.Sci. USA*, vol.95 apr. pp4738-4742 (1998)
7. Pierro E., Cirino G., **Bucci M.**, Lazzarin N., Andreani C.L., Mancuso S., Lanzone A. & Navarra P. Anti phospholipid antibodies inhibit prostaglandin release by decidual cells of early pregnancy: possible involvement of extracellular secretory phospholipase A2 *Fertility & Sterility*, vol.71 n.2 feb. (1999)
8. Cicala C., **Bucci M.**, De Dominicis G., Harriot P., Sorrentino L. & Cirino G. Bronchocospictrictor effect of thrombin ad thrombin receptor activating peptide in guinea-pigs in vivo *Br.J.Pharm.*, 126 pp478-484 (1999)
9. Cicala C., Pinto A., **Bucci M.**, Sorrentino R., Walker B., Harriot P., Cruchley A., Kapas S., Howels G.L. & Cirino G. Protease-Activated Receptor-2 involvement in hypotension in normal and endotoxemic rats in vivo *Circulation*, 99 pp2590-2597 (1999)
10. Napoli C., Cicala C., D'Armiento F.P., Roviezzo F., Somma P., de Nigris F., Zuliani P., **Bucci M.**, Aleotti L., Casini A., Franconi F. & Cirino G. Beneficial effects of ACE-inhibition with zofenopril on plaque formation and low-density lipoprotein oxidation in watanable heritable hyperlipidemic rabbits *Gen.Pharmacol.* 33, pp467-477 (1999)
11. Ianaro A., Cicala C., Calignano A., Kotelianski V., Gotwals P., **Bucci M.**, Gerli R., Santucci L., Fiorucci S. & Cirino G. Anti-very late antigen-1 monoclonal antibody modulates the development of secondary lesion and T-cell response in experimental arthritis *Lab.Inv.*, vol.80 jan. n.1 p1 (2000)
12. Rudic D.R., **Bucci M.**, Fulton D., Segal S.S. & Sessa W.C. Temporal events underlying arterial remodeling following chronic flow reduction in mice: correlation of structural changes with a deficit in basal nitric oxide synthesis *Circulation Res.* 86, 1160-1166 (2000)
13. Cirino G., Napoli C., **Bucci M.** & Cicala C. Inflammation-coagulation network: are serine protease receptors the knot? *TiPS*, vol.21 may pp170-172 (2000)
14. **Bucci M.**, Roviezzo F., Cicala C., Sessa W.C. & Cirino G. Geldanamycin, an inhibitor of heat shock protein 90 (Hsp90) mediate signal trasduction has antiinflammatory effect and interacts with glucocorticoid receptor in vivo. *Br.J.Pharmacol.* 131, 13-16 (2000)
15. **Bucci M.**, Gratton J.P., Rudic R.D., Acevedo L., Roviezzo F., Cirino G. & Sessa W.C. In vivo delivery of the caveolin-1 scaffolding domain inhibits nitric oxide synthesis and reduces inflammation *Nat.Med.*, vol.6 n°12, p.1362-1367 (2000).
16. Cicala C., Ianaro A., Fiorucci S., Calignano A., **Bucci M.**, Gerli R., Santucci L., Wallace J.L & Cirino G. NO-naproxen modulates inflammation, nociception and downregulates T cell response in rat Freund's adjuvant arthritis. *Br.J.Pharmacol.* 130, 1399-1405 (2000).
17. Randazzo A., Bifulco G., Giannini C., **Bucci M.**, Debitus C., Cirino G. & Gomez-Paloma L. Halipeptins A and B: two novel potent anti-inflammatory cyclic depsipeptides from the Vanuatu Marine Sponge *Haliclona* species. *J.Am.Chem.Soc.* 123(44), 10870-10876 (2001)
18. Fiorucci S., Meli R., **Bucci M.** & Cirino G. Dual inhibitors of cyclooxygenase and 5-lipoxygenase. A new avenue in anti-inflammatory therapy? *Biochem.Pharmacol.* 62, 1433-1438 (2001)
19. **Bucci M.**, Roviezzo F., Cicala C., Pinto A. & Cirino G. 17- β -oestradiol-induced vasorelaxation in vitro is mediated by eNOS through hsp90 and akt/ pkb dependent mechanism. *Br.J.Pharmacol.* 135, 1695-1700 (2002)
20. Saviola G., Abdi Ali L., Rossini P., Campostrini L., Coppini A., Gori M., Ianaro A., **Bucci M.**, de Nucci G. & Cirino G. Clarithromycin in rheumatoid arthritis patients not responsive to disease-modifying antirheumatic drugs: an open, uncontrolled pilot study. *Clin.Exp.Rheumatol.* 20, 373-378 (2002).
21. **Bucci M.**, Roviezzo F., Brancaleone V., Lin M.I., Di Lorenzo A., Cicala C., Pinto A., Sessa W.C., 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.*24(4), 721-726 (2004)
22. Posadas I., **Bucci M.**, Roviezzo F., Rossi A., Parente L., Sautebin L., & Cirino G. Carrageenan-induced mouse paw oedema is biphasic, age-weight dependent and displays differential nitric oxide cyclooxygenase-2 expression. *Br.J.Pharmacol.* 142, 331-338 (2004)

23. Roviezzo F., Del Galdo F., Abbate G., **Bucci M.**, D'Agostino B, Antunes E, De Dominicis G, Parente L, Rossi F, Cirino G, De Palma R. Human eosinophil chemotaxis and selective in vivo recruitment by sphingosine 1-phosphate. *Proc Natl Acad Sci U S A.* 101(30):11170-5 (2004)
24. **Bucci M.**, Roviezzo F., Posadas I., Yu J., Parente L., Sessa W.C., Ignarro L.J Cirino G. Endothelial nitric oxide synthase activation is critical for vascular leakage during acute inflammation in vivo. *Proc Natl Acad Sci USA.* 102(3):904-908 (2005)
25. **Bucci M.**, Roviezzo F., Cirino G. Protease-Activated Receptor-2 (PAR2) in cardiovascular system. *Vasc.Pharmacol.* 43: 247-253 (2005)
26. Roviezzo F., **Bucci M.**, Brancaleone V., Di Lorenzo A., Geppetti P., Farneti S., Parente L., Iungarella G., Fiorucci S., Cirino G. Proteinase-Activated Receptor-2 mediates arterial vasodilatation in diabetes. *Arterioscler. Thromb. Vasc. Biol.* 25(11): 2349-2354 (2005)
27. Roviezzo F., Tsigkos S., Kotanidou A., **Bucci M.**, Brancaleone V., Cirino G., Papapetropoulos A. Angiopoietin-2 causes inflammation in vivo by promoting vascular leakage. *J Pharmacol. Exp. Ther.* 314(2): 738-744 (2005)
28. Roviezzo F., **Bucci M.**, Delisle C., Brancaleone V., Di Lorenzo A., Posadas Mayo I., Fiorucci S., Fontana., Gratton J.P., Cirino G. Essential requirement for sphingosine kinase activity in eNOS-dependent NO release and vasorelaxation. *FASEB J.* 20(2): 340-342 Feb.(2006)
29. Nicolau K.C., Lizos D.E., Kim D.W., Schlawe D., de Noronha R.G., Longbottom D.A., Rodriguez M., **Bucci M.**, Cirino G. Total synthesis and biological evaluation of halipeptins A and D and analogues. *JACS* Apr 5;128(13):4460-70 (2006)
30. Naldini A, Morena E, Filippi I, Pucci A, **Bucci M**, Cirino G, Carraro F. Thrombin inhibits IFN-gamma production in human peripheral blood mononuclear cells by promoting a Th2 profile. *J Interferon Cytokine Res.* Nov;26(11):793-9 (2006).
31. Martino L, Virno A, Randazzo A, Virgilio A, Esposito V, Giancola C, **Bucci M**, Cirino G, Mayol L. A new modified thrombin binding aptamer containing a 5'-5' inversion of polarity site. *Nucleic Acids Res.* 34(22):6653-62 (2006).
32. Virno A, Randazzo A, Giancola C, **Bucci M**, Cirino G, Mayol L.. A novel thrombin binding aptamer containing a G-LNA residue. *Bioorg Med Chem.* 2007 Sep 1;15(17):5710-8.
33. 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.* Jun;151(3):377-83 (2007).
34. Roviezzo F, Di Lorenzo A, **Bucci M**, Brancaleone V, Vellecco V, De Nardo M, Orloff D, De Palma R, Rossi F, D'Agostino B, Cirino G. Sphingosine-1-phosphate/Sphingosine Kinase Pathway is Involved in Mouse Airway Hyper-responsiveness. *Am J Respir Cell Mol Biol.* Jun;36(6):757-62 (2007)
35. Saviola G, Abdi Ali L, Shams Eddin S, Coppini A, Cavalieri F, Campostrini L, Sacco S, **Bucci M**, Cirino G, Rossini M. Compared clinical efficacy and bone metabolic effects of low-dose deflazacort and methyl prednisolone in male inflammatory arthropathies: a 12-month open randomized pilot study. *Rheumatology (Oxford).* Jun;46(6):994-8 (2007)
36. **Bucci M.**, Mirone V., Di Lorenzo A., Vellecco V., Roviezzo F., Imbimbo C., V. Brancaleone and Cirino G. Hydrogen sulphide is involved in testosterone vascular effect. *Eur. Urol.*(2009) Aug;56(2):378-83
37. **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. *Vasc. Pharmacol.* (2008) Aug-Sep;49(2-3):84-90
38. Brancaleone V., Roviezzo F., Vellecco V., De Gruttola L., **Bucci M.**, Cirino G. H2S biosynthesis is impaired in non obese diabetic mice. *Br.J. Pharmacol.* 2008 Nov;155(5):673-80
39. Coppola T, Varra M, Oliviero G, Galeone A, D'Isa G, Mayol L, Morelli E, **Bucci MR**, Vellecco V, Cirino G, Borbone N. Synthesis, structural studies and biological properties of new TBA analogues containing an acyclic nucleotide. *Bioorg Med Chem.* 2008 Sep 1;16(17):8244-53
40. Roviezzo F, D'Agostino B, Brancaleone V, De Gruttola L, **Bucci M**, De Dominicis G, Orloff D, D'Aiuto E, De Palma R, Rossi F, Sorrentino R, Cirino G. Systemic Administration of Sphingosine-1-phosphate Increases Bronchial Hyper-responsiveness in the Mouse. *Am J Respir Cell Mol Biol.* 2009 Jun 25.
41. Saviola G., Benucci M., Abdi-Ali L., Baiardi P., Manfredi M., **Bucci M.**, Cirino G. Clarithromycin in adult-onset Still' disease a study of 6 cases *Rheumatol Int.* 2010 Feb;30(4):555-60.
42. Festa C., De Marino S., Sepe V., Monti MC. Luciano P., D'Auria M.V., De bitus C., **Bucci M.**, Vellecco V., Zampella A. Perthamides C and D, two new potent anti-inflammatory cyclopeptides from a Solomon Lithistid sponge *Theonella swinhoei*. *Tetrahedron* 2009; 65: 10424-10429

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43. **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.
44. d'Emmanuele di Villa Bianca R, Coletta C, Mitidieri E, De Dominicis G, Rossi A, Sautebin L, Cirino G, **Bucci M**, Sorrentino R. Hydrogen sulphide induces mouse paw oedema through activation of phospholipase A2. *Br J Pharmacol.* 2010 Dec;161(8):1835-42.
45. **Bucci M**, Cirino G. Hydrogen sulphide in heart and systemic circulation. *Current drug targets (inflammation & allergy).* 2011 Apr;10(2):103-8
46. Marazioti A, **Bucci M**, Coletta C, Vellecco V, Baskaran P, Szabo C, Cirino G, Marques AR, Guerreiro B, Gonçalves AM, Seixas JD, Beuve A, Romão CC, Papapetropoulos A. Inhibition of Nitric Oxide-Stimulated Vasorelaxation by Carbon Monoxide-Releasing Molecules. *Arterioscler Thromb Vasc Biol.* 2011 Nov;31(11):2570-2576
47. 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.
48. Festa C, De Marino S, Sepe V, D'Auria MV, Bifulco G, Débitus C, **Bucci M**, Vellecco V, Zampella A. Solomonamides A and B, new anti-inflammatory peptides from *Theonella swinhoei*. *Org Lett.* 2011 Mar 18;13(6):1532-5.
49. **Bucci M**, Cigliano L, Vellecco V, D'Andrea LD, Ziaco B, Rossi A, Sautebin L, Carlucci A, Abrescia P, Pedone C, Ianaro A, Cirino G. ApoA-I mimetic peptide P2a by restoring cholesterol esterification unmasks ApoA-I anti-inflammatory endogenous activity in vivo. *J Pharmacol Exp Ther.* 2012 Mar;340(3):716-22 2011 Dec 13.
50. Festa C, De Marino S, D'Auria MV, Monti MC, **Bucci M**, Vellecco V, Debitus C, Zampella A. Antiinflammatory cyclopeptides from the marine sponge *Theonella swinhoei* *Tetrahedron.* 2012 vol 68:2851-2857.
51. Zhou Z, von Wantoch Rekowski M, Coletta C, Szabo C, **Bucci M**, Cirino G, Topouzis S, Papapetropoulos A, Giannis A. Thioglycine and l-thiovaline: Biologically active H(2)S-donors. *Bioorg Med Chem.* 2012 Apr 15;20(8):2675-8.
52. **Bucci M**, Vellecco V, Brancaleone V, Roviezzo F, Mattace Raso G, Meli R, Cirino G. Crosstalk between Toll like receptor 4 and Proteinase Activated Receptor 2 is involved in vascular function. *Br. J. Pharmacol.* 2013 Jan;168(2):411-20.
53. Borbone N, **Bucci M**, Oliviero G, Morelli E, Amato J, D'Atri V, D'Errico S, Vellecco V, Cirino G, Piccialli G, Fattorusso C, Varra M, Mayol L, Persico M, Scuotto M. Investigating the role of t(7) and t(12) residues on the biological properties of thrombin-binding aptamer: enhancement of anticoagulant activity by a single nucleobase modification. *J Med Chem.* 2012 Dec 13;55(23):10716-28.
54. **Bucci M**, Papapetropoulos A, Vellecco V, Zhou Z, Zaid A, Giannogonas P, Cantalupo A, Dhayade S, Karalis KP, Wang R, Feil R, Cirino G. cGMP-Dependent Protein Kinase Contributes to Hydrogen Sulfide-Stimulated Vasorelaxation. *PLoS One.* 2012;7(12):e53319. doi: 10.1371/journal.pone.0053319. Epub 2012 Dec 28.
55. Miniaci MC, **Bucci M**, Santamaria R, Irace C, Cantalupo A, Cirino G, Scotto P. CL316,243, a selective $\beta(3)$ -adrenoceptor agonist, activates protein translation through mTOR/p70S6K signaling pathway in rat skeletal muscle cells. *Pflugers Arch.* 2013 Jan 19.
56. **Bucci M**, Cantalupo A, Vellecco V, Panza E, Monti MC, Zampella A, Ianaro A, Cirino G. Perthamide C inhibits eNOS and iNOS expression and has immunomodulating activity in vivo. *PLoS One.* 2013;8(3):e57801.
57. Saviola G, Abdi-Ali L, Campostrini L, Sacco S, Baiardi P, Manfredi M, Benucci M, **Bucci M**, Cirino G. Clarithromycin in rheumatoid arthritis: the addition to methotrexate and low-dose methylprednisolone induces a significant additive value-a 24-month single-blind pilot study. *Rheumatol Int.* 2013 Nov;33(11):2833-8.
58. 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. Involvement of proteinase activated receptor-2 in vascular response to sphingosine-1-phosphate. *Clin Sci (Lond).* 2014 Apr;126(8):545-56
59. **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. 5.
60. Brancaleone V, Vellecco V, Matassa D, 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.* 2014 Apr 21. doi: 10.1111/bph.12740.

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62. Virgilio A, Petraccone L, Scutto M, Vellecco V, **Bucci M**, Mayol L, Varra M, Esposito V, Galeone A. 5-hydroxymethyl-2'-deoxyuridine residues in the thrombin binding aptamer: investigating anticoagulant activity by making a tiny chemical modification. *Chembiochem*. 2014 Nov 3;15(16):2427-34.
63. 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*. 2014 Nov 25. pii: S1089-8603(14)00503-5. Doi: 10.1016/
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66. Renga B, **Bucci M**, Cipriani S, Carino A, Monti MC, Zampella A, Gargiulo A, d'Emmanuele di Villa Bianca R, Distrutti E, Fiorucci S. Cystathionine γ -lyase, a H₂S generating enzyme, is a GPBAR1 regulated gene and contribute to vasodilation caused by secondary bile acids. *Am J Physiol Heart Circ Physiol*. 2015 May 1:ajpheart.00087.2015. doi: 10.1152/ajpheart.00087.2015. [Epub ahead of print]
67. Scutto M, Riveccio E, Varone A, Corda D, **Bucci M**, Vellecco V, Cirino G, Virgilio A, Esposito V, Galeone A, Borbone N, Varra M, Mayol L. Site specific replacements of a single loop nucleoside with a dibenzyl linker may switch the activity of TBA from anticoagulant to antiproliferative. *Nucleic Acids Res*. 2015 Aug 6.
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