

PROF.SSA FILOMENA DE NIGRIS

ISTRUZIONE E FORMAZIONE

1989	Laurea in Scienze Biologiche, 110/110 con lode, Università degli Studi di Napoli "Federico II".
1990	Abilitazione alla professione di Biologa, Università degli Studi di Napoli "Federico II" con votazione 210/210.
1994	Specializzazione in Scienze Biotecnologiche Applicate 50/50 con lode, Federico II di Napoli
2003	Dottorato di Ricerca in Farmacologia Comparata dei Xenobiotici, 8° ciclo, Università degli Studi di Sassari Sardegna".

RUOLO ACCADEMICO E ISTITUZIONE UNIVERSITARIA DI APPARTENENZA

Dal 2015 ad oggi	Professore di Seconda Fascia di Patologia Clinica (art. 16 della legge 240/2010) Settore 06/A2 Presso Dipartimento di Medicina di precisione
Dal 2015 ad oggi dal 2006 ad 2015	Adjuvant Professor presso SHRO Sbarro Institute of Health Philadelphia USA Ricercatore Confermato s.s.d MED 05 (Patologia Clinica) Settore 06/A2 (Patologia Generale e Clinica)
2006 ad oggi	Conferimento delle mansioni Clinico-Assistenziali di Dirigente di Primo Livello presso l'Azienda Ospedaliera, Seconda Università degli Studi di Napoli.

PERCORSO SCIENTIFICO E PROFESSIONALE - SEDI NAZIONALI ED ESTERE

Dal 2015 ad oggi dal 2006 al 2014	Professore di seconda fascia Patologia Clinica MED 05 Ricercatore s.s.d MED 05 (Patologia Clinica) Settore 06/A2 (Patologia Generale e Clinica) Dipartimento di Biochimica, Biofisica e Patologia Generale, Scuola di Medicina, Seconda Università degli Studi di Napoli.
2002-2006	Assegnista di ricerca presso l'Università degli studi di Salerno Collaboratrice alla ricerca con contratto di assegno di ricerca
2001-2002	Visiting Fellow Department of Medicine, University of California San Diego, La Jolla, CA. (USA) sotto la supervisione del Prof. W. Palinski dove ha svolto la tesi di dottorato
2000-2003	Dottorato di Ricerca in Farmacologia e Tossicologia Comparata dei Xenobiotici presso l'Università degli Studi di Sassari sotto la supervisione del Prof. V. Anania.
1997-2000	Collaboratrice alla Ricerca presso l' Istituto Nazionale Tumori di Napoli sotto la supervisione del Prof. A. Fusco titolo del progetto: Caratterizzazione molecolare di geni coinvolti nelle patologie tiroidee"
1995-1997	Borsa di studio presso il TELETHON INSTITUTE OF GENETIC AND MEDICINE di Milano sotto la supervisione del Prof. A. Ballabio.
1994-1995	Collaboratrice alla ricerca presso il Baylor College di Houston TEXSAS sotto la supervisione del Prof. A. Ballabio
1993-1994	Borsa di studio dell' Università Roma la Sapienza presso l' Istituto di Biologia Molecolare Angeletti Spa ROMA sotto la supervisione del Prof. Cortese.
1993-1989	Collaboratrice alla ricerca con Borsa di studio CNR presso il Dipartimento di Biochimica Università degli Studi Federico II, 80138 Napoli.

Il percorso scientifico è stato caratterizzato dallo studio dei meccanismi molecolari coinvolti nei processi del danno vascolare nel corso di patologie cardiovascolari, e tumorali sia *in vitro* (cellule endoteliali e cellule endoteliali progenitrici) che *in vivo*. Durante tale percorso, le principali linee di ricerca sono state le seguenti: dove ha iniziato, ad occuparsi di

- Angiogenesi nelle patologie vascolari
- Meccanismi di regolazione la neoangiogenesi tumorale (osteosarcomi)

- Meccanismi di trasduzione del segnale coinvolti nella progressione tumorale e nella metastatizzazione
- Ruolo di composti naturali con proprietà antiossidanti e loro effetto sulla neoangiogenesi

TITOLARITÀ DI PROGETTI DI RICERCA

2012 Finanziamento Ministero della salute *Codice* RF-2011-02349443: “ *Lesioni ossee* ”

2008 PRIN Cofin 2008X2PNYX_002. Titolo: Caratterizzazione biochimica della composizione del fluido oviduttale e studio proteomico della placenta nella specie bufalina.

2007 Legge 5 Regione Campania annualità 2005 code BRC1498 “Effetti in vivo ed in vitro dei polifenoli del vino rosso da diverse viticolture sull’espressione genica endoteliale durante lo shear stress perturbato e loro relazione con i processi biotecnologici della produzione del vino “.

ATTIVITA’ DIDATTICA SVOLTA A LIVELLO UNIVERSITARIO

CORSO DI LAUREA MAGISTRALE IN MEDICINA E CHIRURGIA IN LINGUA INGLESE, SUN
-dal 2014 Corso di Molecular Medicine (7 CFU)

CORSI DI LAUREA PER PROFESSIONI SANITARIE, SUN

Coordinatrice del corso integrato di

2006-2013 Infermieristica in Medicina Generale (2 CFU)

2013-ad oggi Fondamenti di Farmacologia in Medicina generale (2 CFU)

Titolare del corso di

2015 ad oggi Patologia Clinica per Tecnici di Radiologia Medica per Immagini e Radioterapia (CFU 3)

DOTTORATO DI RICERCA

dal 2016 ad oggi Docente per il Dottorato di Ricerca Biochimica e Biotecnologie (presso Dipartimento di Biochimica Biofisica e Patologia Generale Università della Campania L. Vanvitelli, Napoli)

ATTIVITA’ CLINICO ASSISTENZIALE

dal 2006 ad oggi Conferimento delle mansioni Clinico-Assistenziali di Dirigente di Primo Livello presso l’Azienda Ospedaliera Universitaria, Seconda Università di Napoli. *Afferenza:* Dipartimento Attività Integrata dei Servizi di Laboratorio di Medicina Clinica e Molecolare (*Direttore:* Prof. Anna Maria Molinari), UOC Patologia Clinica e Molecolare.

PREMI E RICONOSCIMENTI

2016 Premio per la ricerca Associazione Incontri di Ortopedia

LINGUE STRANIERE

Inglese scritto e parlato ottimo

EDITORE E REVISORE PER RIVISTE SCIENTIFICHE INTERNAZIONALI

Accademic Editor per PlosOne 2017

Ad hoc reviewer for: PlosOne, Journal of Cellular Physiology, Experimental Pathology, Cardiovascular Research, Stem Cell International, Oncotarget

Prof. Filomena de Nigris publication list

100. Nuzzo S, Catuogno S, Capuozzo M, Fiorelli A, Swiderski P, Boccella S, **de Nigris F**, Esposito CL. (2019) Axl-Targeted Delivery of the Oncosuppressor miR-137 in Non-small-Cell Lung Cancer. *Mol Ther Nucleic Acids*. 17:256-263. doi: 10.1016
99. Schiano C, Soricelli A, **De Nigris F**, Napoli C.(2019) New challenges in integrated diagnosis by imaging and osteo-immunology in bone lesions. *Expert Rev Clin Immunol* 22:289-301. doi: 10.1080/1744666X.2019.1561283.
98. **de Nigris F**, Cacciatore F, Mancini FP, Vitale DF, Mansueto G, D'Armiento FP, Schiano C, Soricelli A, Napoli C. (2018) Epigenetic Hallmarks of Fetal Early Atherosclerotic Lesions in Humans. *JAMA Cardiol*. 3:1184-1191. doi: 10.1001.
97. Esposito CL, Nuzzo S, Catuogno S, Romano S, **de Nigris F**, de Franciscis V. (2018) STAT3 Gene Silencing by Aptamer-siRNA Chimera as Selective Therapeutic for Glioblastoma. *MOL THER NUCLEIC ACIDS* 10:398-411.
96. Colella G, Fazioli F, Gallo M, De Chiara A, Apice G, Ruosi C, Cimmino A, **de Nigris F**. (2018) Sarcoma Spheroids and Organoids-Promising Tools in the Era of Personalized Medicine. *INT J MOL SCI*. 19. pii: E615. doi: 10.3390/ijms19020615.
95. Terracciano D, Terreri S, **de Nigris F**, Costa V, Calin GA, Cimmino A. (2017) The role of a new class of long noncoding RNAs transcribed from ultraconserved regions in cancer. *BIOCHIM BIOPHYS ACTA* 1868:449-455.
94. Fazioli F, Colella G, Miceli R, Di Salvatore MG, Gallo M, Boccella S, De Chiara A, Ruosi C, **de Nigris F**. (2017) Post-surgery fluids promote transition of cancer stem cell- to-endothelial and AKT/mTOR activity, contributing to relapse of giant cell tumors of bone. *ONCOTARGET* doi: 10.18632/oncotarget.18783.
93. Terreri S, Durso M, Colonna V, Romanelli A, Terracciano D, Ferro M, Perdonà S, Castaldo L, Febbraio F, **de Nigris F**, Cimmino A. (2016) New Cross-Talk Layer between Ultraconserved Non-Coding RNAs, MicroRNAs and Polycomb Protein YY1 in Bladder Cancer. *GENES (Basel)*. 7(12). pii: E127.
92. **de Nigris F**. (2016) Epigenetic regulators: Polycomb-miRNA circuits in cancer, *BIOCHIM BIOPHYS ACTA* 1859:697-704.
91. Infante T, Mancini FP, Lanza A, Soricelli A, **de Nigris F**, Napoli C. (2015) Polycomb YY1 is a critical interface between epigenetic code and miRNA machinery after exposure to hypoxia in malignancy. *BIOCHIM BIOPHYS ACTA* 1853:975-86.

90. Schiano C, Casamassimi A, Rienzo M, **de Nigris F**, Sommese L, Napoli C. (2014) Involvement of Mediator complex in malignancy. *BIOCHIM BIOPHYS ACTA* 1845:66-83.
89. Infante T, Cesario E, Gallo M, Fazioli F, De Chiara A, Tutucci C, Apice G, **de Nigris F**. (2013) Ex vivo behaviour of human bone tumor endothelial cells. *CANCERS* 5: 404-17.
88. **de Nigris F**, Mancini FP, Schiano C, Infante T, Zullo A, Minucci PB, Al-Omran M, Giordano A, Napoli C. (2013). Osteosarcoma cells induce endothelial cell proliferation during neo angiogenesis. *J CELL PHYSIOL* 228: 846-52.
87. **de Nigris F**, Rienzo M, Sessa M, Infante T, Cesario E, Ignarro LJ, Al-Omran M, Giordano A, Palinski W, Napoli C. (2012). Glycoxydation promotes vascular damage via MAPK-ERK/JNK pathways. *JOURNAL OF CELLULAR PHYSIOLOGY* 11: 3639-47.
86. **de Nigris F**, Schiano C, Infante T, Napoli C. (2012) CXCR4 Inhibitors: Tumour Vasculature and Therapeutic Challenges. *DRUG DISCOVERY* 3: 251-64.
85. Cacciatore F, Bruzzese G, Vitale DF, Liguori A, **de Nigris F**, Fiorito C, Infante T, Donatelli F, Minucci PB, Ignarro LJ, Napoli C. (2011) Effects of ACE inhibition on circulating endothelial progenitor cells, vascular damage, and oxidative stress in hypertensive patients. *EUROPEAN JOURNAL OF CLINICAL PHARMACOLOGY* 67: 877-83.
84. Napoli C, Giordano A, Casamassimi A, Pentimalli F, Ignarro LJ, **de Nigris F**. (2011) Directed in vivo angiogenesis assay and the study of systemic neoangiogenesis in cancer. *INTERNATIONAL JOURNAL OF CANCER* 128:1505-8.
83. **de Nigris F**, Zanella L, Cacciatore F, De Chiara A, Fazioli F, Chiappetta G, Apice G, Infante T, Monaco M, Rossiello R, De Rosa G, Alberghini M, Napoli C. (2011) YY1 overexpression is associated with poor prognosis and metastasis-free survival in patients suffering osteosarcoma. *BMC CANCER*, 11:472-75.
82. Balestrieri ML, Lu SJ, **de Nigris F**, Giovane A, Williams-Ignarro S, D'armiento FP, Feng Q, Fiorito C, Testa G, Pastore L, Cacciatore F, Mancini FP, Servillo L, De Rosa G, Pagliarulo C, Rienzo M, Minucci PB, Farzati B, Salvatore F, Rengo F, Ignarro LJ, Giordano A, Baker A, Lanza R, Napoli C. (2010) Therapeutic angiogenesis in diabetic apolipoprotein E-deficient mice using bone marrow cells, functional hemangioblasts and metabolic intervention. *ATHEROSCLEROSIS* 209: 403-414.
81. **de Nigris F**, Crudele V, Giovane A, Casamassimi A, Giordano A, Garban H, Cacciatore F, Pentimalli F, Marquez-Garban D, Petrillo A, Cito L, Sommese L, Fiore A, Petrillo M, Siani A., Barbieri A, Arra C, Rengo F, Hayashi T, Al-Omran M, Ignarro L, Napoli C. (2010) CXCR4/YY1 inhibition impairs VEGF network and angiogenesis during malignancy. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 107: 14484-89.

80. Balestrieri ML, Lu S, **de Nigris F**, Giovane A, Williams-Ignarro S, D'armiento F, Feng Q, Fiorito C, Testa G, Pastore L, Cacciatore F, Mancini F, Servillo L, De Rosa G, Pagliarulo C, Rienzo M, Minucci PB, Farzati B, Salvatore F, Rengo F, Ignarro LJ, Giordano A, Baker A, Lanza R, Napoli C. (2010) Therapeutic angiogenesis in diabetic apolipoprotein E-deficient mice using bone marrow cells, functional hemangioblasts and metabolic intervention. *ATHEROSCLEROSIS* 209:403-14.

79. **de Nigris F**, Mancini FP, Balestrieri ML, Byrns R, Fiorito C, Williams-Ignarro S, Palagiano A, Crimi E, Ignarro LJ, Napoli C. (2008) Therapeutic dose of nebivolol, a nitric oxide-releasing beta-blocker, reduces atherosclerosis in cholesterol-fed rabbits. *NITRIC OXIDE* 19:57-63.

78. Napoli C, Williams-Ignarro S, Byrns R, Balestrieri ML, Crimi E, Farzati B, Mancini FP, **de Nigris F**, Matarazzo A, D'amora M, Abbondanza C, Fiorito C, Giovane A, Florio A, Varricchio E, Palagiano A, Minucci PB, Tecce MF, Giordano A, Pavan A, Ignarro LJ. (2008). Therapeutic targeting of the stem cell niche in experimental hindlimb ischemia. *NATURE CLINICAL PRACTICE CARDIOVASCULAR MEDICINE* 5: 571-579.

77. Napoli C, Bruzzese G, Ignarro LJ, Crimi E, **de Nigris F**, Williams-Ignarro S, Libardi S, Sommese L, Fiorito C, Mancini FP, Cacciatore F, Liguori A. (2008) Long-term treatment with sulfhydryl angiotensin-converting enzyme inhibition reduces carotid intima-media thickening and improves the nitric oxide/oxidative stress pathways in newly diagnosed patients with mild to moderate primary hypertension. *AMERICAN HEART JOURNAL* 156: 8695-703.

76 . Martin-Padura I, **de Nigris F**, Migliaccio E, Mansueto G, Minardi S, Rienzo M, Lerman Lo, Stendardo M, Giorgio M, De Rosa G, Pelicci PG, Napoli C. (2008) p66Shc deletion confers vascular protection in advanced atherosclerosis in hypercholesterolemic apolipoprotein E knockout mice. *ENDOTHELIUM* 15:276-86.

75. **de Nigris F**, Rienzo M, Schiano C, Fiorito C, Casamassimi A, Napoli C. (2008) Prominent cardioprotective effects of third generation beta blocker nebivolol against anthracycline-induced cardiotoxicity using the model of isolated perfused rat heart *EUROPEAN JOURNAL OF CANCER* 44: 334-40.

74. **de Nigris F**, Rossiello R, Schiano C, Arra C, Williams-Ignarro S, Barbieri A, Lanza A, Balestrieri A, Giuliano M, Ignarro L, Napoli C. (2008) Deletion of Yin Yang 1 protein in osteosarcoma cells on cell invasion and CXCR4/angiogenesis and metastasis. *CANCER RESEARCH* 68:1797-808.

73. Lanza A, Cirillo N, Rossiello R, Rienzo M, Cuttillo L, Cassamassimi A, **de Nigris F**, Schiano C, Rossiello L, Femiano F, Gombos F, Napoli C. (2008). Evidence of key role of Cdk2 overexpression in pemphigus vulgaris. *THE JOURNAL OF BIOLOGICAL CHEMISTRY* 283: 8736-45.

72. Abbondanza C, **de Nigris F**, De Rosa C, Rossiello R, Puca GA, Napoli C. (2008). Silencing of YY1 downregulates RIZ1 promoter in human osteosarcoma. *ONCOLOGY RESEARCH* 17: 33-41.

71. Napoli C, Bruzzese G, Ignarro L, Crimi E, **de Nigris F**, Williams-Ignarro S, Libardi S, Sommesse L, Fiorito C, Mancini F, Cacciatore F, Liguori A. (2008) Long-term treatment with sulfhydryl angiotensin-converting enzyme inhibition reduces carotid intima-media thickening and improves the nitric oxide/oxidative stress pathways in newly diagnosed patients with mild to moderate primary hypertension.. AMERICAN HEART JOURNAL 156: 1154-58.

70. **de Nigris F**, Balestrieri ML, Williams-Ignarro S, D'armiento FP, Fiorito C, Ignarro LJ, Napoli C (2007) The influence of pomegranate fruit extract in comparison to regular pomegranate juice and seed oil on nitric oxide and arterial function in obese Zucker rats. NITRIC OXIDE 17: 50-54.

69. **de Nigris F**, Balestrieri ML, Williams-Ignarro S, D'armiento FP, Lerman LO, Byrns R, Crimi E, Palagiano A, Fatigati G, Ignarro LJ, Napoli C. (2007) Therapeutic effects of autologous bone marrow cells and metabolic intervention in the ischemic hindlimb of spontaneously hypertensive rats involve reduced cell senescence and CXCR4/Akt/eNOS pathways. JOURNAL OF CARDIOVASCULAR PHARMACOLOGY 50: 424-433.

68. Baker Ah, Sica V, Work LM, Williams-Ignarro S, **de Nigris F**, Lerman Lo, Casamassimi A, Lanza A, Schiano C, Rienzo M, Ignarro LJ, Napoli C. (2007). Brain protection using autologous bone marrow cell, metalloproteinase inhibitors, and metabolic treatment in cerebral ischemia. PROCEEDINGS OF THE INTERNATIONAL SCIENCE ACADEMY. 104: 3597-602.

67. Liguori A, D'armiento Fp, Palagiano A, Balestrieri MI, Williams-Ignarro S, **de Nigris F**, Lerman LO, D'amora M, Rienzo M, Fiorito C, Ignarro LJ, Palinski W, Napoli C (2007). Effect of gestational hypercholesterolaemia on omental vasoreactivity, placental enzyme activity and transplacental passage of normal and oxidised fatty acids. BJOG-AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY 114: 1547-1556.

66. **de Nigris F**, Williams-Ignarro S, Sica V, Lerman LO, D'armiento FP, Byrns RE, Casamassimi A, Carpentiero D, Schiano C, Sumi D, Fiorito C, Ignarro LJ, Napoli C. (2007) Effects of a pomegranate fruit extract rich in punicalagin on oxidation-sensitive genes and eNOS activity at sites of perturbed shear stress an atherogenesis. CARDIOVASCULAR RESEARCH 73: 414-23.

65. **de Nigris F**, Williams-Ignarro S, Sica V, D'armiento FP, Lerman LO, Byrns RE, Sica G, Fiorito C, Ignarro LJ, Napoli C. (2007). Therapeutic effects of concurrent autologous bone marrow cell infusion and metabolic intervention in ischemia-induced angiogenesis in the hypercholesterolemic mouse hindlimb. INTERNATIONAL JOURNAL OF CARDIOLOGY 117: 238-243.

64. **de Nigris F**, Botti C, Rossiello R, Crimi E, Sica V, Napoli C. (2007). Cooperation between Myc and YY1 provides novel silencing transcriptional targets of alpha3beta1- integrin in tumor cells. ONCOGENE 26: 382-94.

63. Baker A, Sica V, **de Nigris F**, Lanza A, Work L, Williams-Ignarro S, Lerman L, Casamassimi A, Schiano C, Rienzo M, Ignarro LJ, Napoli C. (2007). Brain protection using autologous bone marrow cell, metalloproteinase inhibitors, and metabolic treatment in cerebral ischemia. PROCEEDINGS OF

THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 27: 3597-3602.

62. Napoli C, Lerman Lo, **de Nigris F**, Gossel M, Balestrieri ML, Lerman A. (2006) Rethinking primary prevention of atherosclerosis-related diseases. *CIRCULATION* 114: 2517-2527.

61. **de Nigris F**, Botti C, De Chiara A, Rossiello R, Apice G, Fazioli F, Fiorito C, Sica V, Napoli C (2006) Expression of transcription factor Yin Yang 1 in human osteosarcomas. *EUROPEAN JOURNAL OF CANCER* 42: 2420-24.

60. **de Nigris F**, Gallo L, Sica V, Napoli C. (2006) Glycooxidation of low-density lipoprotein promotes multiple apoptotic pathways and NFkappaB activation in human coronary cells. *BASIC RESEARCH IN CARDIOLOGY* 101: 101-08.

59. Napoli C, Williams-Ignarro S, de Nigris F, Lerman LO, D'armiento FP, Crimi E, Byrns RE, Casamassimi A, Lanza A, Gombos F, Sica V, Ignarro LJ. (2006) Physical training and metabolic supplementation reduce spontaneous atherosclerotic plaque rupture and prolong survival in hypercholesterolemic mice. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 103:10479-84.

58. Ignarro LJ, Byrns Re, Sumi D, **de Nigris F**, Napoli C. (2006) Pomegranate juice protects nitric oxide against oxidative destruction and enhances the biological actions of nitric oxide. *NITRIC OXIDE*, vol. 15:93-102.

57. Napoli C, **de Nigris F**, Williams-Ignarro S, Pignalosa O, Sica V, Ignarro LJ. (2006) Nitric oxide and atherosclerosis: an update. *NITRIC OXIDE* 15:265-279.

56. de Nigris F, Williams-Ignarro S, Botti C, Sica V, Ignarro Lj, Napoli C (2006). Pomegranate juice reduces oxidized low-density lipoprotein downregulation of endothelial nitric oxide synthase in human coronary endothelial cells. *NITRIC OXIDE*, 15: 259-63.

55. Sica V, Williams-Ignarro S, **de Nigris F**, D'armiento FP, Lerman LO, Balestrieri ML, Maione C, Palagiano A, Rossiello L, Ignarro LJ, Napoli C (2006). Autologous bone marrow cell therapy and metabolic intervention in ischemia-induced angiogenesis in the diabetic mouse hindlimb. *CELL CYCLE* 5: 2903-2908.

54. **de Nigris F**, Balestrieri ML, Napoli C. (2006) Targeting c-Myc, Ras and IGF cascade to treat cancer and vascular disorders. *CELL CYCLE* 5: 1621-28.

53. Napoli C, **de Nigris F**, Pignalosa O, Lerman A, Sica G, Fiorito C, Sica V, Chade A, Lerman LO (2006). In vivo veritas: thrombosis mechanisms in animal models. *SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION*, 66:407-427.

52. Napoli C, Sica V, Pignalosa O, **de Nigris F**. (2005) New trends in anti-atherosclerotic agents. CURRENT MEDICINAL CHEMISTRY, vol. 12, p. 1755-72.

51. Napoli C, Pignalosa O, **de Nigris F**, Sica V. (2005). Childhood infection and endothelial dysfunction: a potential link in atherosclerosis? CIRCULATION 111: 1568-70.

50. **de Nigris F**, Williams-Ignarro S, Lerman LO, Crimi E, Botti C, Mansueto G, D'armiento FP, De Rosa G, Sica V, Ignarro LJ, Napoli C (2005). Beneficial effects of pomegranate juice on oxidation-sensitive genes and endothelial nitric oxide synthase activity at sites of perturbed shear stress. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 102: 4896-901.

49. Napoli C, **de Nigris F**, Sica V. (2005) New advances in microarrays: finding the genes causally involved in disease. METHODS 108: 215-33.

48. Napoli C, Ignarro SW, **de Nigris F**, De Rosa G, Lerman LO, Farzati B, Matarazzo A, Sica G, Botti C, Fiore A, Byrns RE, Sumi D, Sica V, Ignarro LJ. (2005). Beneficial effects of concurrent autologous bone marrow cell therapy and metabolic intervention in ischemia-induced angiogenesis in the mouse hindlimb. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 102: 17202-06.

47. Napoli C, Williams-Ignarro S, **de Nigris F**, Lerman LO, Rossi L, Guarino C, Mansueto G, Di Tuoro F, Pignalosa O, De Rosa G, Sica V, Ignarro LJ. (2004). Long-term combined beneficial effects of physical training and metabolic treatment on atherosclerosis in hypercholesterolemic mice. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 101: 8797-8802.

46. Napoli C, Sica V, **de Nigris F**, Pignalosa O, Condorelli M, Ignarro LJ, Liguori A. (2004). Sulfhydryl angiotensin-converting enzyme inhibition induces sustained reduction of systemic oxidative stress and improves the nitric oxide pathway in patients with essential hypertension. AMERICAN HEART JOURNAL 1: 8695-703.

45. Napoli C, **de Nigris F**, Wallace JL, Hollenberg Md, Tajana G, De Rosa G, Sica V, Cirino G. (2004) Evidence that protease activated receptor 2 expression is enhanced in human coronary atherosclerotic lesions. JOURNAL OF CLINICAL PATHOLOGY 57: 513-16.

44. **de Nigris F**, Sica V, Herrmann J, Condorelli G, Chade AR, Tajana G, Lerman A, Lerman LO, Napoli C. (2003). c-Myc oncoprotein: cell cycle-related events and new therapeutic challenges in cancer and cardiovascular diseases. CELL CYCLE 4: 325-28.

43. **de Nigris F**, Lerman LO, Ignarro SW, Sica G, Lerman A, Palinski W, Ignarro LJ, Napoli C (2003). Beneficial effects of antioxidants and L-arginine on oxidation-sensitive gene expression and

endothelial NO synthase activity at sites of disturbed shear stress. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 100: 1420-25.

42. **de Nigris F**, Demontis MP, Rodriguez-Porcel M, Anania V, Lerman LO, Napoli C. (2003) Renal blood flow in hypercholesterolemic pigs is increased by chronic antioxidant treatment. JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS 26: 113-116.

41. Napoli C, Lerman LO, Sica V, Lerman A, Tajana G, **de Nigris F**. (2003). Microarray analysis: a novel research tool for cardiovascular scientists and physicians. AMERICAN HEART JOURNAL, 89: 597-604.

40. **de Nigris F**, Lerman A, Ignarro LJ, Williams-Ignarro S, Sica V, Baker AH, Lerman LO, Geng YJ, Napoli C. (2003) Oxidation-sensitive mechanisms, vascular apoptosis and atherosclerosis. TRENDS IN MOLECULAR MEDICINE 9: 351-359.

39. **de Nigris F**, Sica V, Herrmann J, Condorelli G, Chade Ar, Tajana G, Lerman A, Lerman Lo, Napoli C (2003). c-Myc oncoprotein: cell cycle-related events and new therapeutic challenges in cancer and cardiovascular diseases. CELL CYCLE 2: 325-328.

38. Napoli C, Martin-Padura I, **de Nigris F**, Giorgio M, Mansueto G, Somma P, Condorelli M, Sica G, De Rosa G, Pelicci P. (2003) Deletion of the p66Shc longevity gene reduces systemic and tissue oxidative stress, vascular cell apoptosis, and early atherogenesis in mice fed a high-fat diet. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 100: 2112-16.

37. **de Nigris F**, Tajana G, Condorelli M, D'armiento FP, Sica G, Lerman LO, Napoli C. (2003) Glycooxidation of low-density lipoprotein increases TUNEL positivity and CPP32 activation in human coronary cells. ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 1010:710-715.

36. Napoli C, **de Nigris F**, Welch JS, Calara FB, Stuart RO, Glass CK, Palinski W. (2002) Maternal hypercholesterolemia during pregnancy promotes early atherogenesis in LDL receptor-deficient mice and alters aortic gene expression determined by microarray. CIRCULATION 105: 1360-1367.

35. Napoli C, Lerman LO, **de Nigris F**, Sica V . (2002) c-Myc oncoprotein: a dual pathogenic role in neoplasia and cardiovascular diseases? NEOPLASIA 4:185-190.

34. **de Nigris F**, Lerman LO, Napoli C. (2002) New insights in the transcriptional activity and coregulator molecules in the arterial wall. INTERNATIONAL JOURNAL OF CARDIOLOGY 86:153-168.

33. Napoli C, **de Nigris F**, Cicala C, Wallace JI, Caliendo G, Condorelli M, Santagada V, Cirino G. (2002) Protease-activated receptor-2 activation improves efficiency of experimental ischemic preconditioning. AMERICAN JOURNAL OF PHYSIOLOGY 282: 6123-6135

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