

# *Curriculum Vitae*

## *Nicola Di Daniele*

Nato a Tortoreto (TE) il 14/07/1952 e residente a Roma in via Isidoro del Lungo, 42

Tel Studio: 06 20902982

06 20902123

**Email** [didaniele@med.uniroma2.it](mailto:didaniele@med.uniroma2.it)

Stato Civile

Coniugato

Professore Ordinario di Medicina Interna presso il Dipartimento di Medicina dei Sistemi dell'Università di Roma Tor Vergata.

Direttore del Dipartimento assistenziale di Scienze Mediche, Policlinico Universitario di Roma Tor Vergata.

Direttore della U.O.C. di Medicina Interna-Centro Ipertensione e UOSD di Nefrologia, del Policlinico Universitario di Roma Tor Vergata.

Direttore della Scuola di Specializzazione in Geriatria.

Consigliere di Amministrazione della Fondazione Policlinico Tor Vergata di Roma.

### ***ATTIVITA' DIDATTICA***

Titolare dell'insegnamento di *Semeiotica Clinica (MED/09)* nel corso di **Laurea in Medicina e Chirurgia**, Università degli Studi di Roma Tor Vergata

Titolare dell'Insegnamento di *Medicina Interna (MED/09)* nel Corso di **Laurea Specialistica in Scienza della Nutrizione Umana**, Università di Roma Tor Vergata.

Titolare dell'insegnamento di *Scienze e Tecniche Dietetiche Applicate* nel corso di **Laurea in Medicina e Chirurgia**, Università Cattolica di "Nostra Signora del Buon Consiglio" di Tirana, Albania

Docente di *Medicina Interna (MED/09)* nelle **Scuole di Specializzazione** di:

Geriatria, Scienza dell'Alimentazione, Nefrologia, Medicina dello Sport, Endocrinologia, Pneumologia, Reumatologia.

## **ATTIVITA' DI RICERCA**

### **In Ambito Metabolico-Nutrizionale:**

- Valutazione del ruolo dell'alimentazione a basso contenuto calorico e dell'esercizio fisico nella riduzione del rischio cardiovascolare in pazienti affetti da patologie cronicodegenerative non trasmissibili.
- Studio del ruolo di varianti alleliche di geni iperespressi in condizioni **infiammatorie** quali fattori predisponenti e/o possibili marcatori **dell'insulino-resistenza**.
- Valutazione del ruolo della **Grelina**, ormone anoressizzante deficitario negli obesi con sindrome metabolica, nella disfunzione endoteliale.
- Effetti della dietoterapia sullo stato di salute dei pazienti nefropatici.

### **In Ambito Clinico:**

- In collaborazione con la U.O.C. di Anatomia Patologica del PTV, sono in corso studi morfologici sull'innervazione del SNS renale in soggetti con Ipertensione Arteriosa ed Insufficienza Renale Cronica.
- In collaborazione con l'equipe di Radiologia Interventistica, utilizzo della tecnica di denervazione renale per via percutanea nel trattamento dell'ipertensione resistente in pazienti con normofunzione renale e nell' emodializzato.

Studi su:

- L'efficacia del **rituximab** nella terapia della glomerulonefrite membranosa come possibile complicanza del trapianto allogenico del midollo.
- La correlazione tra la distribuzione l'insorgenza di **Ipertensione Arteriosa** e l'alterazione della composizione corporea.
- Il ruolo dell'**ASA** e **delle Statine** nella riduzione dello stato infiammatorio cronico nei pazienti emodializzati.
- Possibile ruolo terapeutico della **reoferesi** nella disfunzione endoteliale microvascolare cronica.

## **Finanziamenti PRIN, MIUR**

*Responsabile Scientifico dell'Unità di ricerca o Partecipante allo studio:*

- “Advisory board” Progetto Europeo Picaso Horizon 2020.
- “Indicatori genetici di resistenza insulinica nell’iperlipidemia familiare combinata”.
- “Modulazione dell’attività di TIMP-3 e del sistema TACE/MMP: una nuova terapia combinata per diabete e aterosclerosi”.
- “Effetti dell’insulina sull’espressione genica in cellule endoteliali e muscolari lisce: ruolo delle varianti WT-IRS1 e Arg972-IRS-1”.
- “Meccanismi molecolari di regolazione della sopravvivenza della beta cellula pancreatica: studio dell’espressione e funzione di geni indotti a seguito di stimoli apoptogeni metabolici, immunologici e genetici”.
- “Meccanismi molecolari del danno  $\beta$ -cellulare da glucotossicità: nuovi target per la manipolazione genica”.
- “Ruolo del polimorfismo Gly --> Arg al codone 972 di IRS-1 nella sopravvivenza delle cellule vascolari muscolari lisce umane”.
- “Caratterizzazione dei meccanismi di trasduzione del segnale del PACAP e dei suoi recettori a livello delle  $\beta$ -cellule pancreatiche: ruolo nella regolazione della secrezione insulinica, dell’espressione genica e della proliferazione cellulare”.

*Ha partecipato come relatore e moderatore a numerosi congressi nazionali ed internazionali.*

*E’ coautore di oltre 200 articoli scientifici pubblicati su riviste internazionali ed atti congressuali.*

***PUBBLICAZIONI SCIENTIFICHE***

1. Pentimalli F, Grelli S, **Di Daniele N**, Melino G, Amelio I. Cell death pathologies: targeting death pathways and the immune system for cancer therapy. *Genes Immun*. 2018 Dec 19. doi: 10.1038/s41435-018-0052-x.
2. Lopriore P, Capitanio N, Panatta E, **Di Daniele N**, Gambacurta A, Melino G, Amelio I. TAp73 regulates ATP7A: possible implications for ageing-related diseases. *Aging (Albany NY)*. 2018 Dec 8;10(12):3745-3760. doi: 10.18632/aging.101669.
3. Smirnov A, Cappello A, Lena AM, Anemona L, Mauriello A, **Di Daniele N**, Annicchiarico-Petruzzelli M, Melino G, Candi E. ZNF185 is a p53 target gene following DNA damage. *Aging (Albany NY)*. 2018 Nov 16;10(11):3308-3326. doi: 10.18632/aging.101639.
4. Multicenter study on parathyroidectomy (PTX) in Italy: preliminary results. Mazzaferro S, Tartaglione L, Cascone C, **Di Daniele N**, Pani A, Morosetti M, Francisco M, Nordio M, Leonardi M, Martello M, Grimaldi C, Cozzolino M, Rotondi S, Pasquali M; Italian Study Group on Mineral Metabolism. *J Nephrol*. 2018 Oct;31(5):767-773. doi: 10.1007/s40620-018-0527-x.
5. An operational definition of SHATS (Systemic Hemodynamic Atherosclerotic Syndrome): Role of arterial stiffness and blood pressure variability in elderly hypertensive subjects. Scuteri A, Rovella V, Alunni Fegatelli D, Tesauro M, Gabriele M, **Di Daniele N**. *Int J Cardiol*. 2018 Jul 15;263:132-137. doi: 10.1016/j.ijcard.2018.03.117.
6. Pleiotropic effects of hypoglycemic agents: implications in asthma and COPD. Rogliani P, Ora J, **Di Daniele N**, Lauro D. *Curr Opin Pharmacol*. 2018 Jun;40:34-38. doi: 10.1016/j.coph.2018.01.002.
7. Effects of fenoldopam on renal blood flow in hypertensive chronic kidney disease. Rovella V, Ferrannini M, Tesauro M, Marrone G, Busca A, Sorge R, Manca di Villahermosa S, Casasco M, **Di Daniele N**, Noce A. *J Nephrol*. 2018 May 15. doi: 10.1007/s40620-018-0496-0.
8. MOSH Syndrome (Male Obesity Secondary Hypogonadism): Clinical Assessment and Possible Therapeutic Approaches. De Lorenzo A, Noce A, Moriconi E, Rampello T, Marrone G, **Di Daniele N**, Rovella V. *Nutrients*. 2018 Apr 12;10(4). pii: E474. doi: 10.3390/nu10040474.
9. p73 Regulates Primary Cortical Neuron Metabolism: a Global Metabolic Profile. Agostini M, Niklison-Chirou MV, Annicchiarico-Petruzzelli MM, Grelli S, **Di Daniele N**, Pestlikis I, Knight RA, Melino G, Rufini A. *Mol Neurobiol*. 2018 Apr;55(4):3237-3250. doi: 10.1007/s12035-017-0517-3.
10. The role of obesity in carotid plaque instability: interaction with age, gender, and cardiovascular risk factors. Rovella V, Anemona L, Cardellini M, Scimeca M, Saggini A, Santeusano G, Bonanno E, Montanaro M, Legramante IM, Ippoliti A, **Di Daniele N**,

- Federici M, Mauriello A. *Cardiovasc Diabetol*. 2018 Mar 29;17(1):46. doi: 10.1186/s12933-018-0685-0.
11. Metabolic profiling of visceral adipose tissue from obese subjects with or without metabolic syndrome. Candi E, Tesauro M, Cardillo C, Lena AM, Schinzari F, Rodia G, Sica G, Gentileschi P, Rovella V, Annicchiarico-Petruzzelli M, **Di Daniele N**, Melino G. *Biochem J*. 2018 Mar 15;475(5):1019-1035. doi: 10.1042/BCJ20170604.
  12. Can Serum Cystatin C predict long-term survival in cardiac surgery patients? Rovella V, Marrone G, Dessì M, Ferrannini M, Toschi N, Pellegrino A, Casasco M, **Di Daniele N**, Noce A *Aging (Albany NY)*. 2018 Mar 27;10(3):425-433. doi: 10.18632/aging.101403.
  13. Erythrocyte glutathione transferase in kidney transplantation: a probe for kidney detoxification efficiency. Bocedi A, Noce A, Rovella V, Marrone G, Cattani G, Iappelli M, De Paolis P, Iaria G, Sforza D, Gallù M, Tisone G, **Di Daniele N**, Ricci G. *Cell Death Dis*. 2018 Feb 19;9(3):288. doi: 10.1038/s41419-018-0289-3.
  14. Metabolic profiling of visceral adipose tissue from obese subjects with or without metabolic syndrome. Candi E, Tesauro M, Cardillo C, Lena AM, Schinzari F, Rodia G, Sica G, Gentileschi P, Rovella V, Annicchiarico-Petruzzelli M, **Di Daniele N**, Melino G. *Biochem J*. 2018 Feb 8. pii: BCJ20170604. doi: 10.1042/BCJ20170604.
  15. Pleiotropic effects of hypoglycemic agents: implications in asthma and COPD. Rogliani P, Ora J, **Di Daniele N**, Lauro D. *Curr Opin Pharmacol*. 2018 Feb 7;40:34-38. doi: 10.1016/j.coph.2018.01.002.
  16. Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Galluzzi L, Vitale I, Aaronson SA, Abrams JM, Adam D, Agostinis P, Alnemri ES, Altucci L, Amelio I, Andrews DW, Annicchiarico-Petruzzelli M, Antonov AV, Arama E, Baehrecke EH, Barlev NA, Bazan NG, Bernassola F, Bertrand MJM, Bianchi K, Blagosklonny MV, Blomgren K, Borner C, Boya P, Brenner C, Campanella M, Candi E, Carmona-Gutierrez D, Cecconi F, Chan FK, Chandel NS, Cheng EH, Chipuk JE, Cidlowski JA, Ciechanover A, Cohen GM, Conrad M, Cubillos-Ruiz JR, Czabotar PE, D'Angiolella V, Dawson TM, Dawson VL, De Laurenzi V, De Maria R, Debatin KM, DeBerardinis RJ, Deshmukh M, **Di Daniele N**, Di Virgilio F, Dixit VM, Dixon SJ, Duckett CS, Dynlacht BD, El-Deiry WS, Elrod JW, Fimia GM, Fulda S, García-Sáez AJ, Garg AD, Garrido C, Gavathiotis E, Golstein P, Gottlieb E, Green DR, Greene LA, Gronemeyer H, Gross A, Hajnoczky G, Hardwick JM, Harris IS, Hengartner MO, Hetz C, Ichijo H, Jäättelä M, Joseph B, Jost PJ, Juin PP, Kaiser WJ, Karin M, Kaufmann T, Kepp O, Kimchi A, Kitsis RN, Klionsky DJ, Knight RA, Kumar S, Lee SW, Lemasters JJ, Levine B, Linkermann A, Lipton SA, Lockshin RA, López-Otín C, Lowe SW, Luedde T, Lugli E, MacFarlane M, Madeo F, Malewicz M, Malorni W, Manic G, Marine JC, Martin SJ, Martinou JC, Medema JP, Mehlen P, Meier P, Melino S, Miao EA, Molkentin JD, Moll UM, Muñoz-Pinedo C, Nagata S, Nuñez G, Oberst A, Oren M, Overholtzer M, Pagano M, Panaretakis T, Pasparakis M, Penninger JM, Pereira DM, Pervaiz S, Peter ME, Piacentini M, Pinton P, Prehn JHM, Puthalakath H, Rabinovich GA, Rehm M, Rizzuto R, Rodrigues CMP, Rubinsztein DC, Rudel T, Ryan KM, Sayan E, Scorrano L, Shao F, Shi Y, Silke J, Simon HU, Sistigu A, Stockwell BR, Strasser A, Szabadkai G, Tait SWG, Tang D, Tavernarakis N, Thorburn A, Tsujimoto Y, Turk B, Vanden Berghe T, Vandenabeele P, Vander Heiden MG, Villunger A, Virgin HW, Vousden KH, Vucic D, Wagner EF, Walczak H, Wallach D, Wang Y, Wells JA, Wood W, Yuan J, Zakeri Z, Zhivotovskiy B,

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18. Favorable Vascular Actions of Angiotensin-(1-7) in Human Obesity. Schinzari F, Tesauro M, Veneziani A, Mores N, **Di Daniele N**, Cardillo C. Hypertension. 2018 Jan;71(1):185-191. doi: 10.1161/HYPERTENSIONAHA.117.10280. 2017 Dec 4.
19. Peroxiredoxin6, a Multitask Antioxidant Enzyme Involved in the Pathophysiology of Chronic Noncommunicable Diseases. Pacifici F, Della Morte D, Capuani B, Pastore D, Bellia A, Sbraccia P, **Di Daniele N**, Lauro R, Lauro D. Antioxid Redox Signal. 2018 Jan 2. doi: 10.1089/ars.2017.7427.
20. Circadian blood pressure patterns and blood pressure control in patients with chronic kidney disease. **Di Daniele N**, Fegatelli DA, Rovella V, Castagnola V, Gabriele M, Scuteri A. Atherosclerosis. 2017 Dec; 267:139-145. doi: 10.1016/j.atherosclerosis.2017.10.031. Epub 2017 Oct 26
21. Hypertension in kidney transplantation is associated with an early renal nerve sprouting. Mauriello A, Rovella V, Borri F, Anemona L, Giannini E, Giacobbi E, Saggini A, Palmieri G, Anselmo A, Bove P, Melino G, Valentina G, Tesauro M, Gabriele D, **Di Daniele N**. Nephrol Dial Transplant. 2017 Jun 1;32(6):1053-1060. doi: 10.1093/ndt/gfx069
22. p73 Regulates Primary Cortical Neuron Metabolism: a Global Metabolic Profile. Agostini M, Niklison-Chirou MV, Annicchiarico-Petruzzelli MM, Grelli S, **Di Daniele N**, Pestlikis I, Knight RA, Melino G, Rufini A. Mol Neurobiol. 2017 May 6. doi: 10.1007/s12035-017-0517-3.
23. Arterial ageing: from endothelial dysfunction to vascular calcification. Tesauro M, Mauriello A, Rovella V, Annicchiarico-Petruzzelli M, Cardillo C, Melino G, **Di Daniele N**. J Intern Med. 2017 Mar 27. doi: 10.1111/joim.12605.
24. Beneficial Effects of Apelin on Vascular Function in Patients With Central Obesity. Schinzari F, Veneziani A, Mores N, Barini A, **Di Daniele N**, Cardillo C, Tesauro M. Hypertension. 2017 May;69(5):942-949. doi:10.1161/ Hypertension AHA.116.08916. 2017 Mar 13.
25. TAp73 upregulates IL-1 $\beta$  in cancer cells: Potential biomarker in lung and breast cancer? Vikhreva P, Petrova V, Gokbulut T, Pestlikis I, Mancini M, **Di Daniele N**, Knight RA, Melino G, Amelio I. Biochem Biophys Res Commun. 2017 Jan 15;482(3):498-505. doi: 10.1016/j.bbrc.2016.10.085. Epub 2017 Feb 3.
26. Metabolic pathways regulated by p63. Candi E, Smirnov A, Panatta E, Lena AM, Novelli F, Mancini M, Viticchiè G, Piro MC, **Di Daniele N**, Annicchiarico-Petruzzelli M, Melino

- G. *Biochem Biophys Res Commun.* 2017 Jan 15;482(3):440-444. doi: 10.1016/j.bbrc.2016.10.094. Epub 2017 Feb 3. Review.
27. Vascular Effects of Obestatin in Lean and Obese Subjects. Schinzari F, Veneziani A, Mores N, Barini A, **Di Daniele N**, Cardillo C, Tesauro M. *Diabetes.* 2017 Feb 7. pii: db161067. doi: 10.2337/db16-1067.
28. Differential regulated microRNA by wild type and mutant p53 in induced pluripotent stem cells. Grespi F, Landré V, Molchadsky A, **Di Daniele N**, Marsella LT, Melino G, Rotter V. *Cell Death Dis.* 2016 Dec 29;7(12):e2567. doi: 10.1038/cddis.2016.419.
29. Impact of Mediterranean diet on metabolic syndrome, cancer and longevity. **Di Daniele N**, Noce A, Vidiri MF, Moriconi E, Marrone G, Annicchiarico-Petruzzelli M, D'Urso G, Tesauro M, Rovella V, De Lorenzo A. *Oncotarget.* 2017 Jan 31;8(5):8947-8979. doi: 10.18632/oncotarget.13553. Review
30. Reference intervals for HbA1c partitioned for gender and age: a multicenter study. Pieri M, Pignalosa S, Zenobi R, Callà C, Martino FG, Menichella G, Mancina F, Moscato U, Nocca G, Khashoggi H, Bernardini S, Dessi M, **Di Daniele N**. *Acta Diabetol.* 2016 Dec;53(6):1053-1056. Epub 2016 Oct 22. No abstract available.
31. Vascular ageing and endothelial cell senescence: Molecular mechanisms of physiology and diseases. Regina C, Panatta E, Candi E, Melino G, Amelio I, Balistreri CR, Annicchiarico-Petruzzelli M, **Di Daniele N**, Ruvolo G. *Mech Ageing Dev.* 2016 Oct;159:14-21. doi: 10.1016/j.mad.2016.05.003. Epub 2016 May 4. Review.
32. Is low-protein diet a possible risk factor of malnutrition in chronic kidney disease patients? Noce A, Vidiri MF, Marrone G, Moriconi E, Bocedi A, Capria A, Rovella V, Ricci G, De Lorenzo A, **Di Daniele N**. *Cell Death Discov.* 2016 May 9;2:16026. doi: 10.1038/cddiscovery.2016.26. eCollection 2016.
33. The role of epsilon PKC in acute and chronic diseases: Possible pharmacological implications of its modulators. Capuani B, Pacifici F, Pastore D, Palmirotta R, Donadel G, Arriga R, Bellia A, **Di Daniele N**, Rogliani P, Abete P, Sbraccia P, Guadagni F, Lauro D, Della-Morte D. *Pharmacol Res.* 2016 Sep;111:659-67. doi: 10.1016/j.phrs.2016.07.029. Epub 2016 Jul 25. Review.
34. Ultraconserved long non-coding RNA uc.63 in breast cancer. Marini A, Lena AM, Panatta E, Ivan C, Han L, Liang H, Annicchiarico-Petruzzelli M, **Di Daniele N**, Calin GA, Candi E, Melino G. *Oncotarget* 2016: July 13 Advance Publication.
35. FOXM1 regulates proliferation, senescence and oxidative stress in keratinocytes and cancer cells. Smirnov A, Panatta E, Lena A, Castiglia D, **Di Daniele N**, Melino G, Candi E. *Aging (Albany NY).* 2016 Jul 3.

36. Preventive geriatrics the cross-talk between arterial and brain aging: A lifelong condition. Scuteri A, Tesauro M, **Di Daniele N**. *Exp Gerontol*. 2016 Jun 14. pii: S0531-5565(16)30154-1. doi: 10.1016/j.exger.2016.06.003.
37. Vascular ageing and endothelial cell senescence: Molecular mechanisms of physiology and diseases. Regina C, Panatta E, Candi E, Melino G, Amelio I, Balistreri CR, Annicchiarico-Petruzzelli M, **Di Daniele N**, Ruvolo G. *Mech Ageing Dev*. 2016 May 4.
38. Obesity and kidney disease: Beyond the hyperfiltration. Mascali A, Franzese O, Nisticò S, Campia U, Lauro D, Cardillo C, **Di Daniele N**, Tesauro M. *Int J Immunopathol Pharmacol*. 2016 Apr 4.
39. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Klionsky DJ, Abdelmohsen K et al. *Autophagy*. 2016 Jan 2;12(1):1-222.
40. DNA repair and aging: the impact of the p53 family. Nicolai S, Rossi A, **Di Daniele N**, Melino G, Annicchiarico-Petruzzelli M, Raschellà G. *Ageing (Albany NY)*. 2015 Dec;7(12):1050-65. Review.
41. Increased sympathetic renal innervation in haemodialysis patients is the anatomical substrate of sympathetic hyperactivity in end-stage renal disease Mauriello A, Rovella V, Anemona L, Servadei F, Giannini E, Bove PL, Anselmo A, Melino G, **Di Daniele N**. *J Am Heart Assoc*. 2015 Nov 26;4(12).
42. Are Hemodynamic Factors Involved in Cognitive Impairment? Scuteri A, **Di Daniele N**. *Hypertension*. 2015 Nov 16. pii: HYPERTENSION AHA.115.06495.
43.  $\beta$ Np63 controls cellular redox status. Annicchiarico-Petruzzelli M, **Di Daniele N**, Candi E. *Oncoscience*. 2015 Aug 25;2(8):661-2. eCollection 2015.
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45. Antioxidant supplement and sports. Donatucci B, Sbardella D., Tundo GR, Casasco M, **Di Daniele N**, Rogliani P, Marini S. *Medicina Dello Sport* 2015 sept; 68:359-366.
46. Vasodilator Responses and Endothelin-Dependent Vasoconstriction in Metabolically Healthy Obesity and the Metabolic Syndrome. Schinzari F, Iantorno M, Campia U, Mores N, Rovella V, Tesauro M, **Di Daniele N**, Cardillo C. *Am J Physiol Endocrinol Metab*. 2015 Sep 15:
47. Therapeutic approaches of uncomplicated arterial hypertension in patients with COPD. **Di Daniele N**. *Pulm Pharmacol Ther*. 2015 Sep 10. Review.
48. The E3 ligase Itch knock-out mice show hyper-proliferation and wound healing alteration. Giamboi-Miraglia A, Cianfarani F, Cattani C, Lena AM, Serra V, Campione E, Terrinoni A, Zambruno G, Odorisio T, **Di Daniele N**, Melino G, Candi E. *FEBS J*. 2015 Sep 12.



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#### ***PARTECIPAZIONE A CONVEGNI INTERNAZIONALI E NAZIONALI (ABSTRACT)***

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Roma, 23/01/2019

Nicola Di Daniele