

PERSONAL INFORMATION

Giuseppe Pignataro



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🌐 <https://www.docenti.unina.it/#/professor/47495553455050455049474e415441524f50474e47505037355330364930323659/riferimenti>

Male | *Date of birth* 06 November 1975 | *Nationality* Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 2022- **Full Professor Pharmacology**
 Federico II University of Naples, School of Medicine, Division Pharmacology, Department Neuroscience, Napoli, Italy
Main activities and responsibilities: Writing Scientific Papers, Applying for Research Grants; Leading a group of Researchers on scientific projects in the field of Neuroscience, Teaching Pharmacology at School of Medicine and School of Nursing, providing guidance and supervision to graduate and PhD Students, participating in departmental meetings, providing academic support to faculty members. **Business or sector:** Medical Research
- 2014-2022 **Associate Professor Pharmacology**
 Federico II University of Naples, School of Medicine, Division Pharmacology, Department Neuroscience, Napoli, Italy
Main activities and responsibilities: Writing Scientific Papers, Applying for Research Grants; Leading a group of Researchers on scientific projects in the field of Neuroscience, Teaching Pharmacology at School of Medicine and School of Nursing, providing guidance and supervision to graduate and PhD Students, participating in departmental meetings, providing academic support to faculty members. **Business or sector:** Medical Research
- 2007-2014 **Assistant Professor in Pharmacology**
 Federico II University of Naples, School of Medicine, Division Pharmacology, Department Neuroscience, Napoli, Italy
Main activities and responsibilities: Writing Scientific Papers, Applying for Research Grants; Carrying out experiments on scientific projects in the field of Neuroscience, Teaching Pharmacology at School of Medicine and School of Nursing, providing guidance and supervision to graduate and PhD Students, participating in departmental meetings, providing academic support to Professors and other faculty members. **Business or sector:** Medical Research
- 2005-2007 **Associate Researcher**
 Legacy Health Research, Robert S. Dow Neurobiology Department, Portland, OR, USA
Main activities and responsibilities: Writing Scientific Papers, Applying for Research Grants, Carrying out experiments on scientific projects in the field of Neuroscience, **Business or sector:** Medical Research

EDUCATION AND TRAINING

- 1999-2003 **PhD in Neuroscience** EQF Level 8
 Federico II University of Naples, School of Medicine
 Neuroscience, Pharmacology, Neuropharmacology, Molecular Biology , In vivo models of stroke
- 2002-2007 **Medical Degree** EQF Level 7
 Federico II University of Naples, School of Medicine
 Neuroscience, Neurology, Pharmacology, Internal Medicine
- 1994-1999 **Doctor in Medicinal Chemistry** EQF Level 7
 Federico II University of Naples, School of Pharmacy
 Medicinal Chemistry, Pharmacology, Pharmaceutical Techniques, Drug development

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	Professional Working English
Job-related skills	Writing papers and book chapters in English. Presentation of scientific data and teaching activity at School of Medicine and Doctorate Courses in English.

Technology Transfer skills	<ul style="list-style-type: none"> • Pignataro G., Annunziato L., Molinaro P., Scorziello A., Secondo A., Pannaccione A., Cuomo O., Cantile M., Di Renzo G., Caliendo G., Santagada V., Severino B., Fiorino F. (2012). 7-nitro-5-phenyl-1-(pyrrolidin-1-ylmethyl)-1H-benzo[E][1,4]diazepin-2(3H)-one and other benzodiazepine derivatives. PCT/EP2011/071252, Università degli Studi di Napoli "Federico II" • Annunziato L, Pignataro G, Cuomo O, Gala R, Scorziello A, Di Renzo G, Piazza O, Gravino E, Tufano R (2006). Uso dell'Antitrombina III (ATIII) per la preparazione di formulazioni farmaceutiche per uso parenterale per il trattamento dei danni cerebrali secondari all'insulto ischemico o ad altre malattie degenerative del sistema nervoso centrale e periferico. FI2006A000225, Università di Napoli "Federico II" • Pignataro G, Vinciguerra A, Di Renzo G, Annunziato L (2014) Use of anti-miRNA103/107 for the treatment of brain ischemia PTIT13207. Università di Napoli "Federico II"
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Higher Education & Training skills

Giuseppe Pignataro is full professor in Pharmacology at the department of Neuroscience at University of Napoli, "Federico II", Italy. He is member of several scientific societies as Italian Society for Neuroscience (SINS), Society for Neuroscience (SFN), International Society for Cerebral Blood Flow and Metabolism (ISCBM), European Society of Neuroscience (FENS), Italian Society of Pharmacology (SIF), Associazione Italiana Invecchiamento Cerebrale (AIRIC). He is referee for numerous scientific international journals such as Stroke and Journal of Cerebral Blood Flow. He is member of the Editorial Board of two international scientific journals: International Journal of Physiology, Pathophysiology and Pharmacology and Frontiers of Physiology. He is author of 30 papers published on internationally qualified scientific journals. He participated as invited speaker in numerous national and international Meetings.

Over the years Dr. Pignataro has used in vivo and in vitro approaches to study the mechanisms underlying brain damage induced by episodes of brain ischemia and other neurological disorders such as Amyotrophic Lateral Sclerosis. A considerable effort has been devoted to the study of endogenous mechanisms of neuroprotection such as ischemic tolerance. He received his M.D. and PhD. in Neuroscience from "Federico II" University in Napoli, Italy and performed postdoctoral training at the Legacy Research Institute, Portland, Or, US. He is author of more than 100 scientific publications and book chapters and 3 patents for new compounds to be used in neurological disorders.

Project Management skills	<p>Principal Investigator in the following selected Grants.</p> <ul style="list-style-type: none"> • PRIN 2015 (2017-2020): "Monitoring of peripheral levels of a microRNA pool, through the development of a multiprobe device based on optical fiber nano-sensors, for the diagnosis and prognosis of cerebral ischemia" • CHIESI Chiesi Foundation Onlus- Call for Scientific Research Proposals 2017: "Identification of molecular targets to develop prognostic markers and drugs able to alleviate the burden of neurological disability associated to neonatal hypoxia" • Ministero Sviluppo Economico, Bando MISE 2017 (2018-2021): "Development of a drug for the treatment of cerebral ischemia with anti-miRNA103 / 107 strategy in nano vectors – NANOMiRNICTUS" • PON 2019 ARS01_00769 (2019-2022): "NEON - Nanophotonics for new diagnostic and therapeutic approaches in Oncology and Neurology"
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ADDITIONAL INFORMATION

Projects	<ul style="list-style-type: none"> • PRIN 2006: Meccanismi molecolari e cellulari della selettività del danno cerebrale eccitotossico e post-ischemico: identificazione di nuovi bersagli per molecole con attività neuroprotettiva • Ministero Affari Esteri 2007: New therapeutic strategies for ischemic stroke targeting TREK channels and NCX: identification of new drugs and optimization of their use • European Project FP7/2007-2013, HEALTH-F2-2011-278850: Integrated large scale project: INMiND "Imaging of Neuroinflammation in Neurodegenerative Diseases" • PRIN MIUR 2008: Ischemia cerebrale e modificazioni trascrizionali nell'unità neurovascolare: basi per l'identificazione di nuovi bersagli molecolari per agenti neuroprotettivi ischemia cerebrale e modificazioni trascrizionali nell'unità neurovascolare: basi per l'identificazione di nuovi bersagli molecolari per agenti neuroprotettivi
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- Ministero Affari Esteri 2008: Nuove strategie terapeutiche per il trattamento dell'ischemia cerebrale dirette verso NCX: identificazione di nuovi farmaci e ottimizzazione del loro impiego
- PON PROGETTO OPERATIVO NAZIONALE 2009 PON01_01602 Ricerca e Sviluppo di Farmaci Innovativi per l'ischemia cerebrale
- PON PROGETTO OPERATIVO NAZIONALE 2011: PON03_00785 Aggregazione Biomedica Bioingegneristica Campana, BIOCAM

Publication Track record

Total number of publications in peer-reviewed journals : 95
 Total Impact Factor (IF) 483.6 ;
 Average IF/paper, 6.2
 Total number of citations 3530, H index 33 (Scopus)

10 Most Relevant Publications

1. Pignataro G., Gala R., Cuomo O., Tortiglione A., Castaldo P., Sirabella R., Matrone C., Amoroso S., Di Renzo G.F. and Annunziato L.. The two sodium/calcium exchanger gene products, NCX1 and NCX3, play a major role in the development of permanent focal cerebral ischemia. *Stroke* 2004, 35(11): 2566-2570 (IF 7.9, Scopus cit. 130)
2. Pignataro G, Simon RP, Boison D. Transgenic overexpression of adenosine kinase aggravates cell death in ischemia. *J Cereb Blood Flow Metab* 2007, Jan;27(1):1-5 (IF 6.2, Scopus cit. 72)
3. Pignataro G, Studer FE, Wilz A, Simon RP, Boison D. Neuroprotection in ischemic mouse brain induced by stem cell derived brain implants. *J Cereb Blood Flow Metab* 2007, May;27(5):919-27 (IF 6.2, Scopus cit. 31)
4. Pignataro G, Simon RP, Xiong Z. Prolonged activation of ASIC1a and the time window for neuroprotection in cerebral ischemia. *Brain* 2007, Jan;130(Pt 1):151-8 (IF 13.5, Scopus cit. 205)
5. Pignataro G, Meller R, Inoue K, Ordonez AN, Ashley MD, Gala R, Xiong Z, Simon RP. In vivo and in vitro characterization of a novel neuroprotective strategy for stroke: ischemic postconditioning. *J Cereb Blood Flow Metab.* 2008, Feb;28(2):232-41 (IF 6.2, Scopus cit. 175)
6. Pignataro G. ; Esposito E.; Sirabella R., Vinciguerra A., Cuomo O., Di Renzo G.F., Annunziato L. nNOS and p-ERK involvement in the neuroprotection exerted by remote postconditioning in rats subjected to transient middle cerebral artery occlusion. *Neurobiology of Disease*, 2013, 54:105-114 (IF 6.0, Scopus cit. 41)
7. Vinciguerra A, Formisano L, Cerullo P, Guida N, Cuomo O, Esposito A, Di Renzo G, Annunziato L, Pignataro G. microRNA-103-1 Selectively Downregulates Brain NCX1 and its Inhibition by AntimiRNA Ameliorates Stroke Damage and Neurological Deficits *Mol Ther* 2014 Epub (IF 11.5, Scopus cit. 45)
8. Cerullo P, Brancaccio P, Anzilotti S, Vinciguerra A, Cuomo O, Fiorino F, Severino B, Di Vaio P, Di Renzo G, Annunziato L, Pignataro G. Acute and long-term NCX activation reduces brain injury and restores behavioral functions in mice subjected to neonatal brain ischemia. *Neuropharmacology.* 2018 Mar 15;135:180-191 (IF 5.2, Scopus cit. 10)
9. Vinciguerra A, Cepparulo P, Anzilotti S, Cuomo O, Valsecchi V, Amoroso S, Annunziato L, Pignataro G. Remote postconditioning ameliorates stroke damage by preventing let-7a and miR-143 up-regulation. *Theranostics.* 2020 Oct 27;10(26):12174-12188. doi: 10.7150/thno.48135. (I.F. 11.6, Scopus cit. 4)
10. Valsecchi V, Laudati G, Cuomo O, Sirabella R, Annunziato L, Pignataro G. The hypoxia sensitive metal transcription factor MTF-1 activates NCX1 brain promoter and participates in remote postconditioning neuroprotection in stroke. *Cell Death & Disease* 2021 volume 12, 423 (I.F 8.5, Scopus cit. 2)