

NAME GIUSEPPE ESPOSITO Email: giuseppe.esposito@uniroma1.it	POSITION TITLE Associate Professor of Pharmacology and Therapeutics Publications (Scopus) 95 Total Citations (scopus) 5328 Hirsch (H) index (scopus) 39
BIRTHDATE: January 30, 1974 Place: Caserta (Italy)	

A. Position and employment

2018-present: Associate professor of Pharmacology and therapeutics at Sapienza University of Rome

2017 ASN Award of the national scientific qualification as *Full professor* in pharmacology

2012-present Assistant professor (University Researcher) in Toxicology and Pharmacoepidemiology and pharmacovigilance courses at University of Rome La Sapienza

2012 ASN Award of the national scientific qualification as Associate professor in pharmacology

2012-2013 (January-April) Visiting assistant professor at Beth Israel Deaconess Medical Center, Department of Neurology Boston, United States

Other academic appointments

2011-present: Member of the college of Pharmacology and Toxicology PhD program (Collegio dei docenti) University of Rome La Sapienza

2010 Lecturer of Clinical trials, pharmacoepidemiology and pharmacovigilance course at University of Rome La Sapienza

2008 Researcher (Assistant Professor in pharmacology and therapeutics) Sapienza University of Rome, Department of Physiology and Pharmacology "Vittorio Ersparmer" Rome, Italy

B. Education and training

Post doctoral

2012-2013 (November- March) Visiting research scientist at Beth Israel Deaconess Medical Center, Department of Neurology- Harvard Medical School, Boston, MA United States

2006-2008 Research assistant fellow at Sapienza University of Rome, Department of Physiology and Pharmacology "Vittorio Ersparmer" Rome, Italy

2006 Supplementary teaching activities in Pharmacology and pharmacotherapy

2005 (June-October) Visiting research scientist at Beth Israel Deaconess Medical Center, Department of Neurology- Harvard Medical School, Boston, MA United States

2005 Lecturer for training course Biotechnological Pharmacology

2003 (March-December) Visiting PhD student Max Planck Institute for molecular genetics Munchen, Germany

2001-2004 PhD Student University of Naples Federico II, Department of Pharmacy, Italy

C. Scientific activity

Prof. Esposito scientific interests are addressed to the comprehension of the role of the reactive gliosis and neuroinflammatory processes both in the central and in the enteric nervous system. He is also involved in the characterization of the role of glia–neuron interplay during neuropathological disorders and pharmacological approaches to neurodegenerative diseases in the so-called gut-brain axis by ALIAmides and cannabinoids. In the last years, he has been mainly involved in gastrointestinal pharmacology and he is author of almost 100 articles published in international peer review journals. Prof. Esposito has been awarded with Benedicenti's Prize in 2008 as the most productive under-40 years old Italian pharmacologist and received NASS prize 2012 for his research in the field of enteric glia transplantation. Dr. Esposito cooperates with several Italian as well as UE, USA and China scientific research groups and is permanent member of editorial board of international peer review pharmacology journals, as Phytotherapy Research and associate editor for Frontiers in pharmacology (gastrointestinal session).

D. Other Experience and Professional Memberships

2001 Società Italiana di Farmacologia (SIF) member

2008 Alberico Benedicenti Prize Award

2008 Official member in Phytotherapy res editorial board

2010 ICERS membership

2012 Member of Editorial Board of Journal of Gastroenterology and hepatology research

2013 Società Italiana di Gastroenterologia ed Endoscopia (SIGE)

2014 Lead guest Editor for Biomed Res Int.

2016 Associate Editor for Gastrointestinal and Hepatic Pharmacology-Frontiers in Pharmacology

2018 Associate Editor in Frontiers in Pharmacology-section Gastrointestinal and hepatic pharmacology

2019 Associate Editor in Frontiers in Pharmacology- section Etnopharmacology

2019 Guest editor for International Journal of Molecular Sciences (IJMS)

2020 Co-founder and CTO of Nextbiomics srl (<https://nextbiomics.com>)

2023 Nomina membro esperto alla stesura delle Linee Guida Linee guida diagnostiche e terapeutiche Malattia da Reflusso Gastroesofageo e della Dispepsia- ISS

commissionate dall'Istituto Superiore di Sanità – Centro Nazionale Eccellenza Clinica

2023 Editorial Board member di J Clin Transl Res

2023 Co-funder and Scientific comitee coordinator of SOCIETA' ITALIANA EDUCAZIONALE MEDICINA DI PRECISIONE (S.I.E.M.PRE.)

E. Funded grants/awards

2023 PRIN research unit lead investigator **2022LXS875** "The gut-brain-microbiota axis in Rett syndrome: a unifying hypothesis tying intestinal dysfunction and microbiota alteration to Rett's neuropathology"

2021-2022 "ATTO PER LA CONCESSIONE DEL CONTRIBUTO IN CONTO CAPITALE DI CUI AL PROGRAMMA "BREVETTI+" MISE **PI**

2021-2022 Enteric glia activation and gut microbiome changes: the perfect storm promoting tardive onset of neurocognitive dysfunctions induced by intestinal sepsis through a gut-brain axis route in mice. Ateneo Sapienza **PI**

2020: The brain-gut connection in Post-Traumatic Stress Disorder (PTSD): in search of innovative therapeutic intervention cross-linking microbiota and behavior (component)

2019: Ateneo Sapienza Progetto medio RM11916B8876093E (component)

2019: The Parkinson's & Movement Disorder Foundation grant **PI**

2018: MIUR Grant for basic research funding **PI**

2018: Ateneo Sapienza Progetto medio: RM118164361B425B (component)

2017: Alfa-Sigma grant: "Effetto della Rifaximina nella regolazione della permeabilità intestinale PXR-mediata" **PI**

2017: Sapienza grant: Antibiotic-induced leaky-gut syndrome and enteric neuropathology: a possible starting point for parkinsonism-related neuropathology triggering through a gut-brain axis connection in mice. **PI**

2016: Sapienza interdisciplinary grant award research unit lead investigator C26M15SP9F. (component)

2016: SIFFRA award for Pharmacogenomic e Nutrigenomic research field. **PI**

2012: North American Spine Society (NASS) travel grant award

2009: PRIN research unit lead investigator 2009HLNNRL_007 "Palmitoylethanolamide in enteric glia sustained neuro-inflammation"

PI2009: Sapienza grant C26F09PW5L "ALIAmides efficacy in neurodegeneration" **PI**

F. Patents

2016 Sannetti A, Cuomo R, Sarnelli G, Esposito G, Lu J European Patent Office EP3067058A1 Biological composition based on engineered lactobacillus paracasei subsp. paracasei f19 for the biosynthesis of cannabinoids

2016 Sannetti A; Cuomo R, Sarnelli G, Esposito G European Patent Office EP 3040070 A1 20160706 (EN)DIETARY METHODS USING LACTOBACILLUS PARACASEI SUBSP. PARACASEI F19 AS NAPE-PLD GENE CARRIER FOR PRODUCING ON DEMAND PEA OR OEA AND RELATIVE BIOLOGICAL DIETARY COMPOSITIONS THEREOF (2016)

2022 SARNELLI, Giovanni; ESPOSITO, Giuseppe; LU, Jie; SANSEVERINO, Walter ENGINEERING OF PROBIOTIC E. COLI NISSLE 1917 EXPRESSING THE SARS- COV-2 SPIKE PROTEIN AS A CHIMERIC MODEL OF INTESTINAL IMMUNIZATION AGAINST COVID19 2022

2022 Della Valle F, Della Valle MF, Marcolongo G, Claps G, Gomiero C, Safina A, Noce S, Cuzzocrea S, Esposito G. US20220304956A1 Method for the treatment of covid-19 infections with palmitoylethanolamide (2022)

G. Teaching experience

2005-University of Naples "Federico II" Training course Biotechnological Pharmacology

2006-Sapienza University of Rome Training supplementary teaching activities- Pharmacology and pharmacotherapy course

2010-Sapienza University of Rome, 5646Lecturer of Clinical trials, pharmacoepidemiology and pharmacovigilance (8 CFU)

2012-2014-Sapienza University of Rome, Lecturer of Toxicology; Lecturer of Molecular and general Pharmacology (6CFU)

2015-2018-Sapienza University of Rome, Lecturer of Toxicology; (12 CFU) Lecturer of Clinical trials, pharmacoepidemiology and pharmacovigilance (8CFU)

2015-present-Teaching activity for PhD students, techniques in experimental pharmacology (1CFU)

2020-present-Sapienza University of Rome, Associate professor of Pharmacology and therapeutics (10 CFU); Associate professor of Clinical trials, pharmacoepidemiology and pharmacovigilance (8 CFU)

G. Other academic appointments:

2011-present: Member of the college of Pharmacology and Toxicology PhD program (Collegio dei docenti) University of Rome La Sapienza

2021-present Member of Scientific Didactic Council Master in Integrative Medicine, University of Rome La Sapienza

H. Selected publications

1: Esposito G. et al., Br J Pharmacol. 2020 Nov;177(21):4967-4970. doi: 10.1111/bph.15157. (IF:9,473) 2. Sarnelli G. et al., Cell Mol Gastroenterol Hepatol. 2021;11(3):841-855. (IF: 8,797) 3. Sarnelli G et al., J Neuroinflammation. 2018 Mar 24;15(1):94. doi:10.1186/s12974-018-1126-4. (IF:9.589) 4: Esposito G et al., Gut. 2014 63(8):1300-12. doi: 10.1136/gutjnl-2013-305005. (IF: 24.5) 5: Esposito G et al., J Neuroinflammation. 2012 Dec 23;9:277. doi: 10.1186/1742-2094-9-277. (IF: 9.589) 6: Esposito G et al., Gastroenterology. 2007 Sep;133(3):918-25. (IF:29.40)

Complete list of Publications

Sequella L, Palenca I, Franzin SB, Zilli A, Esposito G. Mini-review: Interaction between intestinal microbes and enteric glia in health and disease. Neurosci Lett. 2023 May 29; 806:137221. doi: 10.1016/j.neulet.2023.137221. Epub 2023 Apr 7. PMID: 37031943.

Sarnelli G, Del Re A, Pesce M, Lu J, Esposito G, Sanseverino W, Corpetti C, Basili Franzin S, Sequella L, Palenca I, Rurgo S, De Palma FDE, Zilli A, Esposito G. Oral Immunization with *Escherichia coli* Nissle 1917 Expressing SARS-CoV-2 Spike Protein Induces Mucosal and Systemic Antibody Responses in Mice. Biomolecules. 2023 Mar 21;13(3):569. doi: 10.3390/biom13030569. PMID: 36979504; PMCID: PMC10046078.

Romano Spica V, Valeriani F, Orsini M, Clementi ME, Sequella L, Gianfranceschi G, Di Liddo R, Di Sante G, Ubaldi F, Ria F, Esposito G, Michetti F. S100B Affects Gut Microbiota Biodiversity. Int J Mol Sci. 2023 Jan 23;24(3):2248. doi: 10.3390/ijms24032248. PMID: 36768570; PMCID: PMC9916897.

Borrelli F, Esposito G, Montmayeur JP, Silvestri C. Editorial: Implications of gut-brain interactions for the effects of compounds derived from *Cannabis* or modulating the endocannabinoid system in physiological and pathological processes. Front Cell Neurosci. 2022 Oct 20;16:1042821. doi: 10.3389/fncel.2022.1042821. PMID: 36339815; PMCID: PMC9632282.

Marzocco S, Esposito G, Esposito E, Hassan STS. Editorial: Enteric inflammation and chronic diseases: Is there a link? Front Pharmacol. 2022 Oct 13;13:1018144. doi: 10.3389/fphar.2022.1018144. PMID: 36313353; PMCID: PMC9607915.

Palenca I, Sequella L, Del Re A, Franzin SB, Corpetti C, Pesce M, Rurgo S, Steardo L, Sarnelli G, Esposito G. N-Palmitoyl-D-Glucosamine Inhibits TLR-4/NLRP3 and Improves DNBS-Induced Colon Inflammation through a PPAR- α -Dependent Mechanism. Biomolecules. 2022 Aug 22;12(8):1163. doi: 10.3390/biom12081163. PMID: 36009057; PMCID: PMC9405927.

Rurgo S, Cantone E, Pesce M, Efficie E, Musella M, Polese B, De Conno B, Pagliaro M, Sequella L, Guida B, Esposito G, Sarnelli G. Sleeve Gastrectomy-Induced Body Mass Index Reduction Increases the Intensity of Taste Perception's and Reduces Bitter-Induced Pleasantness in Severe Obesity. J Clin Med. 2022 Jul 7;11(14):3957. doi: 10.3390/jcm11143957. PMID: 35887721; PMCID: PMC9321134.

Del Re A, Palenca I, Sequella L, Pesce M, Corpetti C, Steardo L, Rurgo S, Sarnelli G, Esposito G. Oral Adelmidrol Administration Up-Regulates Palmitoylethanolamide Production in Mice Colon and Duodenum through a PPAR- γ Independent Action. Metabolites. 2022 May 19;12(5):457. doi: 10.3390/metabo12050457. PMID: 35629962; PMCID: PMC9144287.

De Conno B, Pesce M, Chiurazzi M, Andreozzi M, Rurgo S, Corpetti C, Sequella L, Del Re A, Palenca I, Esposito G, Sarnelli G. Nutraceuticals and Diet Supplements in Crohn's Disease: A General Overview of the Most Promising Approaches in the Clinic. Foods. 2022 Apr 4;11(7):1044. doi: 10.3390/foods11071044. PMID: 35407131; PMCID: PMC8998137.

Pesce M, Sequella L, Del Re A, Lu J, Palenca I, Corpetti C, Rurgo S, Sanseverino W, Sarnelli G, Esposito G. Next-Generation Probiotics for Inflammatory Bowel Disease. Int J Mol Sci. 2022 May 13;23(10):5466. doi: 10.3390/ijms23105466. PMID: 35628274; PMCID: PMC9141965.

Lucarini E, Sequella L, Vincenzi M, Parisio C, Micheli L, Toti A, Corpetti C, Del Re A, Squillace S, Maftei D, Lattanzi R, Ghelardini C, Di Cesare Mannelli L, Esposito G. Role of Enteric Glia as Bridging Element between Gut Inflammation and Visceral Pain Consolidation during Acute Colitis in Rats. Biomedicines. 2021 Nov 12;9(11):1671. doi: 10.3390/biomedicines9111671. PMID: 34829900; PMCID: PMC8616000.

Corpetti C, Del Re A, Sequella L, Palenca I, Rurgo S, De Conno B, Pesce M, Sarnelli G, Esposito G. Cannabidiol inhibits SARS-CoV-2 spike (S) protein-induced cytotoxicity and inflammation through a PPAR γ -dependent TLR4/NLRP3/Caspase-1 signaling suppression in Caco-2 cell line. Phytother Res. 2021 Dec;35(12):6893-6903. doi: 10.1002/ptr.7302. Epub 2021 Oct 12. PMID: 34643000; PMCID: PMC8662250.

Del Re A, Corpetti C, Pesce M, Sequella L, Steardo L, Palenca I, Rurgo S, De Conno B, Sarnelli G, Esposito G. Ultramicrosized Palmitoylethanolamide Inhibits NLRP3 Inflammasome Expression and Pro-Inflammatory Response Activated by SARS-CoV-2 Spike Protein in Cultured Murine Alveolar Macrophages. Metabolites. 2021 Sep 2;11(9):592. doi: 10.3390/metabo11090592. PMID: 34564408; PMCID: PMC8472716.

Esposito G, Corpetti C, Pesce M, Sequella L, Annunziata G, Del Re A, Vincenzi M, Lattanzi R, Lu J, Sanseverino W, Sarnelli G. A Palmitoylethanolamide Producing *Lactobacillus paracasei* Improves *Clostridium difficile* Toxin A-Induced Colitis. Front Pharmacol. 2021 Apr 27;12:639728. doi: 10.3389/fphar.2021.639728. PMID: 33986673; PMCID: PMC8111445.

Giuseppe Esposito, Marcella Pesce, Luisa Sequella, Jie Lu, Chiara Corpetti, Alessandro Del Re, Fatima Domenica Elisa De Palma, Giovanni Esposito, Walter Sanseverino and Giovanni Sarnelli. Engineered *Lactobacillus paracasei* Producing Palmitoylethanolamide (PEA) Prevents Colitis in Mice. Int. J. Mol. Sci. 2021, 22(6), 2945; https://doi.org/10.3390/ijms22062945

Pesce M, Sequella L, Cassarano S, Aurino L, Sanseverino W, Lu J, Corpetti C, Del Re A, Vincenzi M, Sarnelli G, Esposito G. Phytotherapies in COVID19: Why palmitoylethanolamide? Phytother Res. 2020 Dec 9. doi: 10.1002/ptr.6978. Epub ahead of print. PMID: 33296131.

Seguella L, Pesce M, Capuano R, Casano F, Pesce M, Corpetti C, Vincenzi M, Maftai D, Lattanzi R, Del Re A, Sarnelli G, Gulbransen BD, Esposito G. High-fat diet impairs duodenal barrier function and elicits glia-dependent changes along the gut-brain axis that are required for anxiogenic and depressive-like behaviors. *J Neuroinflammation*. 2021 May 16;18(1):115. doi: 10.1186/s12974-021-02164-5. PMID: 33993886; PMCID: PMC8126158.

Esposito G, Pesce M, Seguella L, Sanseverino W, Lu J, Corpetti C, Sarnelli G. The potential of cannabidiol in the COVID-19 pandemic. *Br J Pharmacol*. 2020 Nov;177(21):4967-4970. doi: 10.1111/bph.15157. Epub 2020 Jul 16. PMID: 32519753; PMCID: PMC7300643.

Esposito G, Pesce M, Seguella L, Sanseverino W, Lu J, Sarnelli G. Can the enteric nervous system be an alternative entrance door in SARS-CoV2 neuroinvasion? *Brain Behav Immun*. 2020 Jul;87:93-94. doi: 10.1016/j.bbi.2020.04.060. Epub 2020 Apr 23. PMID: 32335192; PMCID: PMC7179488.

Sarnelli G, Pesce M, Seguella L, Lu J, Efficie E, Tack J, Elisa De Palma FD, D'Alessandro A, Esposito G. Impaired Duodenal Palmitoylethanolamide Release Underlies Acid-Induced Mast Cell Activation in Functional Dyspepsia. *Cell Mol Gastroenterol Hepatol*. 2021;11(3):841-855. doi: 10.1016/j.jcmgh.2020.10.001. Epub 2020 Oct 14. PMID: 33065341; PMCID: PMC7858681.

Luisa Seguella, Federica Rinaldi, Carlotta Marianecchi, Riccardo Capuano, Mirella Pesce, Giuseppe Annunziata, Fabrizio Casano, Gabrio Bassotti, Angelo Sidoni, Marco Milone, Giovanni Aprea, Giovanni Domenico de Palma, Maria Jole Carafa, Marcella Pesce, Giuseppe Esposito, Giovanni Sarnelli. Pentamidine niosomes thwart S100B effects in human colon carcinoma biopsies favouring wtp53 rescue. *J Cell Mol Med*. 2020 Mar;24(5):3053-3063. doi: 10.1111/jcmm.14943.

Seguella L, Sarnelli G, Esposito G. Leaky gut, dysbiosis, and enteric glia activation: the trilogy behind the intestinal origin of Parkinson's disease. *Neural Regen Res*. 2020 Jun;15(6):1037-1038. doi: 10.4103/1673-5374.270308. PMID: 31823880; PMCID: PMC7034261.

Luisa Seguella, Riccardo Capuano, Mirella Pesce, Giuseppe Annunziata, Marcella Pesce, Barbara de Conno, Giovanni Sarnelli, Laura Aurino, Giuseppe Esposito. S100B Protein Stimulates Proliferation and Angiogenic Mediators Release through RAGE/pAkt/mTOR Pathway in Human Colon Adenocarcinoma Caco-2 Cells. *Int J Mol Sci*. 2019 Jul 1;20(13). pii: E3240. doi: 10.3390/ijms20133240.

Paola Pietrangeli, Luisa Seguella, Giuseppe Annunziata, Fabrizio Casano, Riccardo Capuano, Mirella Pesce, Barbara De Conno, Stefano Gigli, Giovanni Sarnelli, Marcella Pesce, Mircea Mateescu, Giuseppe Esposito G, Lucia Marcocci. *Lathyrus sativus* diamine oxidase counteracts histamine-induced cell proliferation, migration and pro-angiogenic mediators release in human colon adenocarcinoma cell line Caco-2. *Phytother Res*. 2019 May 29. doi: 10.1002/ptr.6378.

Luisa Seguella, Riccardo Capuano, Giovanni Sarnelli, Giuseppe Esposito. Play in advance against neurodegeneration: exploring enteric glial cells in gut-brain axis during neurodegenerative diseases. *Expert Rev Clin Pharmacol*. 2019 Jun;12(6):555-564. doi: 10.1080/17512433.2019.1612744.

Federica Rinaldi, Luisa Seguella, Stefano Gigli, Patrizia Nadia Hanieh, Elena Del Favero, Laura Cantù, Marcella Pesce, Giovanni Sarnelli, Carlotta Marianecchi, Giuseppe Esposito, Maria Carafa inPentosomes: An innovative nose-to-brain pentamidine delivery blunts MPTP parkinsonism in mice. *J Control Release*. 2019 Jan 28;294:17-26. doi: 10.1016/j.jconrel.2018.12.007. Epub 2018 Dec 7.

Marcella Pesce, Giuseppe Esposito, Giovanni Sarnelli: Endocannabinoids in the treatment of gasytointestinal inflammation and symptoms. *Curr Opin Pharmacol*. 2018 Sep 12;43:81-86. doi: 10.1016/j.coph.2018.08.009

Giovanni Sarnelli, Luisa Seguella, Marcella Pesce, Jie Lu, Stefano Gigli, Eugenia Bruzzese, Roberta Lattanzi, Alessandra D'Alessandro, Rosario Cuomo, Luca Steardo, Giuseppe Esposito: HIV-1 Tat-induced diarrhea is improved by the PPAR α agonist, palmitoylethanolamide, by suppressing the activation of enteric glia. *Journal of Neuroinflammation* 03/2018; 15(1), DOI:10.1186/s12974-018-1126-4

Marcella Pesce, Alessandra D'Alessandro, Osvaldo Borrelli, Stefano Gigli, Luisa Seguella, Rosario Cuomo, Giuseppe Esposito, Giovanni Sarnelli: Endocannabinoid-related compounds in gastrointestinal diseases. *Journal of Cellular and Molecular Medicine* 10/2017; 22(Suppl), DOI:10.1111/jcmm.13359

Giuseppe Esposito, Elena Capoccia, Stefano Gigli, Marcella Pesce, Eugenia Bruzzese, Alessandra D'Alessandro, Carla Cirillo, Alessandro Di Cerbo, Rosario Cuomo, Luisa Seguella, Luca Steardo, Giovanni Sarnelli: HIV-1 Tat-induced diarrhea evokes an enteric glia-dependent neuroinflammatory response in the central nervous system. *Scientific Reports* 08/2017; 7(7735):1-11., DOI:10.1038/s41598-017-05245-9

Stefano Gigli, Luisa Seguella, Marcella Pesce, Eugenia Bruzzese, Alessandra D'Alessandro, Rosario Cuomo, Luca Steardo, Giovanni Sarnelli, Giuseppe Esposito: Cannabidiol restores intestinal barrier dysfunction and inhibits the apoptotic process induced by *Clostridium difficile* toxin A in Caco-2 cells. *United European Gastroenterology Journal* 03/2017; 5(8):205064061769862., DOI:10.1177/2050640617698622

Giuseppe Esposito, Stefano Gigli, Luisa Seguella, Nicola Nobile, Alessandra D'Alessandro, Marcella Pesce, Elena Capoccia, Luca Steardo, Carla Cirillo, Rosario Cuomo, Giovanni Sarnelli: Rifaximin, a non-absorbable antibiotic, inhibits the release of pro-angiogenic mediators in colon cancer cells through a pregnane X receptor-dependent pathway. *International Journal of Oncology* 06/2016; 49(2), DOI:10.3892/ijo.2016.3550

Giovanni Sarnelli, Alessandra D'Alessandro, Teresa Iuvone, Elena Capoccia, Stefano Gigli, Marcella Pesce, Luisa Seguella, Nicola Nobile, Giovanni Aprea, Francesco Maione, Giovanni Domenico de Palma, Rosario Cuomo, Luca Steardo, Giuseppe Esposito: Palmitoylethanolamide Modulates Inflammation-Associated Vascular Endothelial Growth Factor (VEGF) Signaling via the Akt/mTOR Pathway in a Selective Peroxisome Proliferator-Activated Receptor Alpha (PPAR- α)-Dependent Manner. *PLoS ONE* 05/2016; 11(5):e0156198., DOI:10.1371/journal.pone.0156198

Fabio Turco, Ilaria Palumbo, Paolo Andreozzi, Giovanni Sarnelli, Francesca De Ruberto, Giuseppe Esposito, Adriana Basile, Rosario Cuomo: Acetonic Extract from the Feijoa sellowiana Berg. Fruit Exerts Antioxidant Properties and Modulates Disaccharidases Activities in Human Intestinal Epithelial Cells: Effects of F. sellowiana on Intestinal Epithelial Cells. *Phytotherapy Research* 05/2016; 30(8), DOI:10.1002/ptr.5629

Giovanni Sarnelli, Michela Grosso, Ilaria Palumbo, Marcella Pesce, A. D'Alessandro, Giovanni Zaninotto, Vito Annese, Raffaella Petruzzelli, Paola Izzo, Rossana Sepulveres, Dario Bruzzese, Giuseppe Esposito, Rosario Cuomo: Allele-specific transcriptional activity of the variable number of tandem repeats of the inducible nitric oxide synthase gene is associated with idiopathic achalasia. *United European Gastroenterology Journal* 05/2016; 5(2), DOI:10.1177/2050640616648870

Giuseppe Esposito, Nicola Nobile, Stefano Gigli, Luisa Seguella, Marcella Pesce, Alessandra d'Alessandro, Eugenia Bruzzese, Elena Capoccia, Luca Steardo, Rosario Cuomo, Giovanni Sarnelli: Rifaximin Improves *Clostridium difficile* Toxin A-Induced Toxicity in Caco-2 Cells by the PXR-Dependent TLR4/MyD88/NF- κ B Pathway. *Frontiers in Pharmacology* 05/2016; 7(e36075), DOI:10.3389/fphar.2016.00120

Giuseppe Esposito, Giovanni Sarnelli, Elena Capoccia, Carla Cirillo, Marcella Pesce, Jie Lu, Gaetano Cali, Rosario Cuomo, Luca Steardo: Autologous transplantation of intestine-isolated glia cells improves neuropathology and restores cognitive deficits in β amyloid-induced neurodegeneration. *Scientific Reports* 03/2016; 6., DOI:10.1038/srep22605

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Jie Lu, Monika McCarter, Gewei Lian, Giuseppe Esposito, Elena Capoccia, Laurent C. Delli-Bovi, Jonathan Hecht, Volney Sheen: Global hypermethylation in fetal cortex of Down syndrome due to DNMT3L overexpression. *Human Molecular Genetics* 02/2016; 25(9):ddw043., DOI:10.1093/hmg/ddw043

Elena Capoccia, Carla Cirillo, Stefano Gigli, Marcella Pesce, Alessandra D'Alessandro, Rosario Cuomo, Giovanni Sarnelli, Luca Steardo, Giuseppe Esposito: Enteric glia: A new player in inflammatory bowel diseases. *International journal of immunopathology and pharmacology* 12/2015; 28(4):443-451., DOI:10.1177/0394632015599707

Luca Steardo, Maria Rosanna Bronzuoli, Aniello Iacomino, Giuseppe Esposito, Caterina Scuderi: Does neuroinflammation turn on the flame in Alzheimer's disease? Focus on astrocytes. *Frontiers in Neuroscience* 08/2015; 9(259):259., DOI:10.3389/fnins.2015.00259

Elena Capocchia, Carla Cirillo, Annalisa Marchetto, Samanta Tiberi, Youssef Sawikr, Marcella Pesce, Alessandra d'Alessandro, Caterina Scuderi, Giovanni Sarnelli, Rosario Cuomo, Luca Steardo, Giuseppe Esposito: S100B-p53 disengagement by pentamidine promotes apoptosis and inhibits cellular migration via aquaporin-4 and metalloproteinase-2 inhibition in C6 glioma cells. *Oncology letters* 04/2015; 9(6), DOI:10.3892/ol.2015.3091

Giovanna Giuseppina Altobelli, Donatella Cimini, Giuseppe Esposito, Teresa Iuvone, Vincenzo Cimini: Analysis of calretinin early expression in the rat hippocampus after beta amyloid (1-42) peptide injection. *Brain research* 03/2015; 1610, DOI:10.1016/j.brainres.2015.03.029

Mariateresa Cipriano, Giuseppe Esposito, Luana Negro, Elena Capocchia, Giovanni Sarnelli, Caterina Scuderi, Daniele De Filippis, Luca Steardo, Teresa Iuvone: Palmitoylethanolamide Regulates Production of Pro-Angiogenic Mediators in a Model of β Amyloid-Induced Astroglial In Vitro. *CNS & neurological disorders drug targets* 03/2015; 14(7), DOI:10.2174/1871527314666150317224155

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