

CURRICULUM VITAE



PERSONAL INFORMATION

Name Surname	ROBERTO RUSSO
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Nationality	Italy
Date of birth	13/01/1975

EMPLOYMENT/PROFESSIONAL SECTOR

Associate Professor, Disciplinary Sector BIO/14

PROFESSIONAL EXPERIENCE

2001 – DEGREE IN CHEMISTRY IN CHEMISTRY AND PHARMACEUTICAL TECHNOLOGIES
2003 – Specialization in Pharmacology
2005 - Visiting Scientist at the Center for Drug Discovery, Dept. of Pharmacology, University of California, Irvine.
2006 – PhD in Pharmaceutical Sciences
2008 – Researcher at the Department of Experimental Pharmacology of the Faculty of Pharmacy, University of Naples Federico II
2018- Associate Professor at the Department of Pharmacy, University of Naples Federico II
2018 - Visiting Scientist at the ISID research institute, University of Santiago de Compostela
2022 – Scientific qualification for Full Professor
Memberships: Italian Society of Pharmacology (SIF), and of the Italian Society of Toxicology (SITOX).

WORK EXPERIENCE

- His scientific production is validated by several national and international cooperation with Italian and foreign researchers, and by several participations as speaker to national and international conferences and meetings.
- Reviewer for numerous scientific journals, including: Biochemical Pharmacology, Drugs, Expert Opinion on Investigational Drugs, Journal of Neurochemistry, Frontiers, Pharmacological Research, Journal, Brain and behavior, cells, current

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neuropharmacology, pharmacological reports, British Journal of Pharmacology.

- Editor for the "Newsletter" present on the site of the Italian Society of Pharmacology in the "publications" section, a scientific monthly for the dissemination of preclinical studies with high scientific impact.

- Associate Editor Board of the journal "Experimental Pharmacology and Drug Discovery", special section of Frontiers in Pharmacology. Associate Editor Board of the journal "Journal of Integrative Neuroscience",

Patent

Italian (MI2012A002127) USA (US20150157733A1) Canada (CA2836069A1) Europe (EP2742957A1) Title: Polyethylene glycol derivatives of palmitoylethanolamide and analogous acylethanolamides from 01-06-2014 to today.

Italian : n° NA2008A000047 Abignente E., Boatto G., Calignano A., Curcio A., De Lucia S., La Rana G., Russo R., Melisi D., Nieddu M., Rimoli M.G., Sasso O. Profarmaco galattosilato del ketorolac ad uso analgesico e antinfiammatorio con migliori caratteristiche farmacocinetiche e profilo tossicologico del farmaco di partenza.

Grants

Her research has been supported by the Ministero della Università e della Ricerca (MIUR) with PRIN grants as principal investigator or participant in 2012, 2017, 2020

FARO grants (Finanziamenti per l'Avvio di Ricerche Originali) by the Pole of Sciences and Technologies for Life of the University of Naples "Federico II"

Collaborations

-Prof. Daniele Piomelli (Department of Anatomy and Neurobiology, Gillespie Neuroscience Research Facility, University of California, IRVINE, USA)

-Prof. Roberto Berni Canani (Department of Translational Medical Science and European Laboratory for Investigation of Food Induced Diseases, University of Naples Federico II, Naples, Italy)

-Dr Oreste Gualillo, PharmD, PhD, Santiago University Clinical Hospital NEIRID Lab, NeuroEndocrine Interactions in Rheumatology and Inflammatory Diseases, Santiago de Compostela SPAIN)

-Prof. Emilio Russo (Science of Health Department, School of Medicine, University "Magna Graecia" of Catanzaro, Italy)

Number of scientific articles (international journals with peer review) in extenso: 82

ORCID: 0000-0001-5950-1617

- **H-index** (Scopus – December 2022): **33**
- **Total citations** (Scopus – December 2022): **4115**

Some papers of last 5 years

1. **Russo R**, Cristiano C, Avagliano C, De Caro C, La Rana G, Raso GM, Canani RB, Meli R, Calignano A. Gut-brain Axis: Role of Lipids in the Regulation of Inflammation, Pain and CNS Diseases. **Curr Med Chem.** **2018**; 25(32):3930-3952. doi: 10.2174/0929867324666170216113756 (IF:4.184).
2. Di Guida F, Pirozzi C, Magliocca S, Santoro A, Lama A, **Russo R**, Nieddu M, Burrai L, Boatto G, Mollica MP, Sodano F, Lazzarato L, Chegaev K, Meli R, Raso GM, Rimoli MG. Galactosylated Pro-Drug of Ursodeoxycholic Acid: Design, Synthesis, Characterization, and Pharmacological Effects in a Rat Model of Estrogen-Induced Cholestasis. **Mol Pharm.** **2018** Jan 2;15(1):21-30. doi: 10.1021/acs.molpharmaceut.7b00626.
3. De Caro C, **Russo R**, Avagliano C, Cristiano C, Calignano A, Aramini A, Bianchini G, Allegretti M, Brandolini L. Antinociceptive effect of two novel transient receptor potential melastatin 8 antagonists in acute and chronic pain models in rat. **Br J Pharmacol.** **2018** May;175(10):1691-1706. doi: 10.1111/bph.14177 (IF8.314).
4. Aponte M, Ungaro F, d'Angelo I, De Caro C, **Russo R**, Blaiotta G, Dal Piaz F, Calignano A, Miro A. Improving in vivo conversion of oleuropein into hydroxytyrosol by oral granules containing probiotic *Lactobacillus plantarum* 299v and an *Olea europaea* standardized extract. **Int J Pharm.** **2018** May 30;543(1-2):73-82. doi: 10.1016/j.ijpharm.2018.03.013. Epub 2018 Mar 8. PMID: 29526619.
5. **Russo R**, Cattaneo F, Lippiello P, Cristiano C, Zurlo F, Castaldo M, Irace C, Borsello T, Santamaria R, Ammendola R, Calignano A, Miniaci MC. Motor coordination and synaptic plasticity deficits are associated with increased cerebellar activity of NADPH oxidase, CAMKII, and PKC at preplaque stage in the TgCRND8 mouse model of Alzheimer's disease. **Neurobiol Aging.** **2018** Aug;68:123-133. doi: 10.1016/j.neurobiolaging.2018.02.025 (IF:4.673).
6. Aiello E, **Russo R**, Cristiano C, Calignano A. The safety assessment of herbals with a new and ethical approach. **Nat Prod Res.** **2018** Aug;32(15):1838-1848. doi: 10.1080/14786419.2017.1402316.
7. Magliocca S, De Caro C, Lazzarato L, **Russo R**, Rolando B, Chegaev K, Marini E, Nieddu M, Burrai L, Boatto G, Cristiano C, Marabello D, Gazzano E, Riganti C, Sodano F, Rimoli MG. Aceclofenac-Galactose Conjugate: Design, Synthesis, Characterization, and Pharmacological and Toxicological Evaluations. **Mol Pharm.** **2018** Aug 6;15(8):3101-3110. doi: 10.1021/acs.molpharmaceut.8b00195.
8. Cristiano C, Pirozzi C, Coretti L, Cavaliere G, Lama A, **Russo R**, Lembo F, Mollica MP, Meli R, Calignano A, Mattace Raso G. Palmitoylethanolamide counteracts autistic-like behaviours in BTBR T+tf/J mice: Contribution of central and peripheral mechanisms. **Brain Behav Immun.** **2018** Nov;74:166-175. doi: 10.1016/j.bbi.2018.09.003.
9. Sodano F, Lazzarato L, Rolando B, Spyraakis F, De Caro C, Magliocca S, Marabello D, Chegaev K, Gazzano E, Riganti C, Calignano A, **Russo R**, Rimoli MG. Paracetamol-Galactose Conjugate: A Novel Prodrug for an Old Analgesic Drug. **Mol Pharm.** **2019** Oct 7;16(10):4181-4189. doi: 10.1021/acs.molpharmaceut.9b00508.
10. Micheli L, Lucarini E, Trallori E, Avagliano C, De Caro C, **Russo R**, Calignano A, Ghelardini C, Pacini A, Di Cesare Mannelli L. Phaseolus vulgaris L. Extract: Alpha-Amylase Inhibition against Metabolic Syndrome in Mice. **Nutrients.** **2019** Aug 1;11(8):1778. doi: 10.3390/nu11081778.
11. De Caro C, Cristiano C, Avagliano C, Bertamino A, Ostacolo C, Campiglia P, Gomez-Monterrey I, La Rana G, Gualillo O, Calignano A, **Russo R**. Characterization of New TRPM8 Modulators in Pain Perception. **Int J Mol Sci.** **2019** Nov 7;20(22):5544. doi: 10.3390/ijms20225544 (IF:4.556).
12. Brandolini L, Castelli V, Aramini A, Giorgio C, Bianchini G, **Russo R**, De Caro C, d'Angelo M, Catanesi M, Benedetti E, Giordano A, Cimini A, Allegretti M. DF2726A, a new IL-8 signalling inhibitor, is able to counteract chemotherapy-induced neuropathic pain. **Sci Rep.** **2019** Aug 13;9(1):11729. doi: 10.1038/s41598-019-48231-z.
13. Citraro R, Leo A, De Caro C, Nesci V, Gallo Cantafio ME, Amodio N, Mattace Raso G, Lama A, **Russo R**, Calignano A, Tallarico M, Russo E, De Sarro G. Effects of Histone Deacetylase Inhibitors on the Development of Epilepsy and Psychiatric Comorbidity in WAG/Rij Rats. **Mol Neurobiol.** **2020** Jan;57(1):408-421. doi: 10.1007/s12035-019-01712-8.
14. Cifani C, Avagliano C, Micioni Di Bonaventura E, Giusepponi ME, De Caro C, Cristiano C, La Rana G, Botticelli L, Romano A, Calignano A, Gaetani S, Micioni Di Bonaventura MV, **Russo R**. Modulation of Pain Sensitivity by Chronic Consumption of Highly Palatable Food Followed by

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- Abstinence: Emerging Role of Fatty Acid Amide Hydrolase. **Front Pharmacol.** **2020** Mar 16;11:266. doi: 10.3389/fphar.2020.00266 (IF: 5.988).
15. Bertamino A, Ostacolo C, Medina A, Di Sarno V, Lauro G, Ciaglia T, Vestuto V, Pepe G, Basilicata MG, Musella S, Smaldone G, Cristiano C, Gonzalez-Rodriguez S, Fernandez-Carvajal A, Bifulco G, Campiglia P, Gomez-Monterrey I, **Russo R**. Exploration of TRPM8 Binding Sites by β -Carboline-Based Antagonists and Their In Vitro Characterization and In Vivo Analgesic Activities. **J Med Chem.** **2020** Sep 10;63(17):9672-9694. doi: 10.1021/acs.jmedchem.0c00816 (IF:7.446).
 16. Gemei M, Talarico C, Brandolini L, Manelfi C, Za L, Bovolenta S, Liberati C, Vecchio LD, **Russo R**, Cerchia C, Allegretti M, Beccari AR. Binding Mode Exploration of B1 Receptor Antagonists' by the Use of Molecular Dynamics and Docking Simulation-How Different Target Engagement Can Determine Different Biological Effects. **Int J Mol Sci.** **2020** Oct 16;21(20):7677. doi: 10.3390/ijms21207677.
 17. Lippiello P, Hoxha E, Cristiano C, Malvicini E, Stanley A, **Russo R**, Tempia F, Miniaci MC. Role of β 3-adrenergic receptor in the modulation of synaptic transmission and plasticity in mouse cerebellar cortex. **J Neurosci Res.** **2020** Nov;98(11):2263-2274. doi: 10.1002/jnr.24712.
 18. De Caro C, Di Cesare Mannelli L, Branca JJV, Micheli L, Citraro R, Russo E, De Sarro G, Ghelardini C, Calignano A, **Russo R**. Pain Modulation in WAG/Rij Epileptic Rats (A Genetic Model of Absence Epilepsy): Effects of Biological and Pharmacological Histone Deacetylase Inhibitors. **Front Pharmacol.** **2020** Dec 3;11:549191. doi: 10.3389/fphar.2020.549191. (if 5.988)
 19. Deplano A, Karlsson J, Moraca F, Svensson M, Cristiano C, Morgillo CM, Fowler CJ, **Russo R**, Catalanotti B, Onnis V. Design, synthesis and in vitro and in vivo biological evaluation of flurbiprofen amides as new fatty acid amide hydrolase/cyclooxygenase-2 dual inhibitory potential analgesic agents. **J Enzyme Inhib Med Chem.** **2021** Dec;36(1):940-953. doi: 10.1080/14756366.2021.1875459. (IF:5.051)
 20. Citraro R, Lembo F, De Caro C, Tallarico M, Coretti L, Iannone LF, Leo A, Palumbo D, Cuomo M, Buommino E, Nesci V, Marascio N, Iannone M, Quirino A, **Russo R**, Calignano A, Constanti A, Russo E, De Sarro G. First evidence of altered microbiota and intestinal damage and their link to absence epilepsy in a genetic animal model, the WAG/Rij rat. **Epilepsia.** **2021** Feb;62(2):529-541. doi: 10.1111/epi.16813.
 21. De Caro C, Cristiano C, Avagliano C, Cuozzo M, La Rana G, Aviello G, De Sarro G, Calignano A, Russo E, **Russo R**. Analgesic and Anti-Inflammatory Effects of Perampanel in Acute and Chronic Pain Models in Mice: Interaction With the Cannabinergic System. **Front Pharmacol.** **2021** Feb 1;11:620221. doi: 10.3389/fphar.2020.620221.
 22. Cuozzo M, Castelli V, Avagliano C, Cimini A, d'Angelo M, Cristiano C, **Russo R**. Effects of Chronic Oral Probiotic Treatment in Paclitaxel-Induced Neuropathic Pain. **Biomedicines.** **2021** Mar 30;9(4):346. doi: 10.3390/biomedicines9040346.
 23. Paparo L, Nocerino R, Ciaglia E, Di Scala C, De Caro C, **Russo R**, Trinchese G, Aitoro R, Amoroso A, Bruno C, Di Costanzo M, Passariello A, Messina F, Agangi A, Napolitano M, Voto L, Gatta GD, Pisapia L, Montella F, Mollica MP, Calignano A, Puca A, Berni Canani R. Butyrate as a bioactive human milk protective component against food allergy. **Allergy.** **2021** May;76(5):1398-1415. doi: 10.1111/all.14625.
 24. Sodano F, Avallone B, Tizzano M, Fogliano C, Rolando B, Gazzano E, Riganti C, Magliocca S, Cuozzo M, Albrizio S, Calignano A, Cristiano C, **Russo R**, Rimoli MG. Ketogal Safety Profile in Human Primary Colonic Epithelial Cells and in Mice. **Pharmaceuticals (Basel).** **2021** Nov 11;14(11):1149. doi: 10.3390/ph14111149.
 25. De Filippis F, Paparo L, Nocerino R, Della Gatta G, Carucci L, **Russo R**, Pasolli E, Ercolini D, Berni Canani R. Specific gut microbiome signatures and the associated pro-inflammatory functions are linked to pediatric allergy and acquisition of immune tolerance. **Nat Commun.** **2021** Oct 13;12(1):5958. doi: 10.1038/s41467-021-26266-z.
 26. Brandolini L, d'Angelo M, Novelli R, Castelli V, Giorgio C, Sirico A, Cocchiaro P, D'Egidio F, Benedetti E, Cristiano C, Bugatti A, Ruocco A, Amendola PG, Talarico C, Manelfi C, Iaconis D, Beccari A, Quadros AU, Cunha TM, Caruso A, **Russo R**, Cimini A, Aramini A, Allegretti M. Paclitaxel binds and activates C5aR1: A new potential therapeutic target for the prevention of chemotherapy-induced peripheral neuropathy and hypersensitivity reactions. **Cell Death Dis.** **2022** May 25;13(5):500. doi: 10.1038/s41419-022-04964-w.

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27. Sodano F, Cristiano C, Rolando B, Marini E, Lazzarato L, Cuozzo M, Albrizio S, **Russo R**, Rimoli MG. Galactosylated Prodrugs: A Strategy to Improve the Profile of Nonsteroidal Anti-Inflammatory Drugs. **Pharmaceuticals (Basel)**. 2022 Apr 29;15(5):552. doi: 10.3390/ph15050552
28. Brandolini L, Aramini A, Bianchini G, Ruocco A, Bertini R, Novelli R, Angelico P, Valsecchi AE, **Russo R**, Castelli V, Cimini A, Allegretti M. Inflammation-Independent Antinociceptive Effects of DF2755A, a CXCR1/2 Selective Inhibitor: A New Potential Therapeutic Treatment for Peripheral Neuropathy Associated to Non-Ulcerative Interstitial Cystitis/Bladder Pain Syndrome **Front Pharmacol**. 2022 Apr 28;13:854238. doi: 10.3389/fphar.2022.854238
29. Cristiano C, Cuozzo M, Coretti L, Liguori FM, Cimmino F, Turco L, Avagliano C, Aviello G, Mollica MP, Lembo F, **Russo R**. Oral sodium butyrate supplementation ameliorates paclitaxel-induced behavioral and intestinal dysfunction. *Biomed Pharmacother*. 2022 Sep;153:113528. doi: 10.1016/j.biopha.2022.113528. Epub 2022 Aug 13. PMID: 36076609
30. Avagliano C, De Caro C, Cuozzo M, Liguori FM, La Rana G, Micheli L, Di Cesare Mannelli L, Ghelardini C, Paciello O, **Russo R**. Phaseolus vulgaris extract ameliorates high-fat diet-induced colonic barrier dysfunction and inflammation in mice by regulating peroxisome proliferator-activated receptor expression and butyrate levels. *Front Pharmacol*. 2022 Aug 11;13:930832. doi: 10.3389/fphar.2022.930832. (IF 4.40 Q1)
31. Cristiano C, Avagliano C, Cuozzo M, Liguori FM, Calignano A, **Russo R**. The Beneficial Effects of Ultramicronized Palmitoylethanolamide in the Management of Neuropathic Pain and Associated Mood Disorders Induced by Paclitaxel in Mice. **Biomolecules** 2022 Volume 12, Issue 8,

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