

SILVANA GAETANI, born in Lecce, Italy, on July 8th 1972

CURRENT POSITION:

Full Professor of Pharmacology, Sapienza Univ. of Rome, Dept. of Physiology and Pharmacology V Erspamer

EDUCATION

1998: Master in Biological Sciences magna cum laude. Univ. of Lecce Italy

2000: Board Certified Biologist (Full score). Univ. of Bari, Italy

2003: Ph.D in Pharmacology. Univ. of Bari Italy, School of Medicine

OTHER QUALIFICATIONS

Graduate Minor in Bioethics, Univ. of Lecce, Italy

First Certificate in English, Univ. of Cambridge, UK

Accent reduction II for nonnative English speakers, Univ. of California Irvine, USA

ACADEMIC HISTORY

2001-2003: Junior Specialist Univ. of California Irvine, Dept. of Pharmacology.

2003-2004: Post Doctoral fellow step III Univ. of California Irvine, Dept. of Pharmacology.

2004-2005: Adjunct Assistant Professor of Pharmacology "Brain Gain program" (Rientro dei Cervelli), Dept. of Physiology and Pharmacology "V. Erspamer", Sapienza Univ.

2005-2012: Assistant Professor of Pharmacology, Dept. of Physiology and Pharmacology "V. Erspamer", Sapienza Univ.

2012-2019: Associate Professor of Pharmacology, Dept. of Physiology and Pharmacology "V. Erspamer", Sapienza Univ.

November 2019-present: Full Professor in Pharmacology (SSD BIO/14 SSC 05/G1)

MANDATORY MATERNITY LEAVE (L. 1204/1971)

from 24/05/2014 to 23/10/2014 (5 months)

from 15/05/2012 to 14/10/2012 (5 months)

AWARDS AND RESEARCH GRANTS OBTAINED AS COORDINATOR AND/OR PRINCIPAL INVESTIGATOR

2001: Short-Term Fellowship for Specialized Studies Abroad, Italian Society of Pharmacology.

2004-2008: Italian Ministry of University and Research (MIUR), "Brain Gain Program" (Programma Rientro dei Cervelli) (€139000)

2005: NIDA-IUPHAR Travel Award

2007-2008: Sapienza Univ. Intramural Research Grant (RICERCHE DI ATENEO FEDERATO) (€5300)

2008: Selected Researcher for "Atomium Culture: the permanent platform for European excellence"

2007-2009: (NATIONAL COORDINATOR) MIUR National Research Grant (PRIN) (€158000)

2013-2017 (PRINCIPAL INVESTIGATOR) MIUR Futuro in Ricerca (€228798)

2014-2018: (PRINCIPAL INVESTIGATOR) MIUR National Research Grant (PRIN) (€103386)

2013-2014: Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2013) (€25946)

2017-2020: (PRINCIPAL INVESTIGATOR) MIUR National Research Grant (PRIN) (€ 40000)

2018 Sapienza Univ. Intramural Research Grant for conferences, seminars, WORKSHOP - CLASS A

2019-2021 (PRINCIPAL INVESTIGATOR) MIUR National Research Grant (PRIN) (€ 114731)

2019-2022 Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2018) (€ 33800)

2022-2025 Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2021) (€ 63787)

2022-2024 Sapienza Univ. Grant for equipment upgrades (ammodernamento infrastrutture) (€243872)

2025-ongoing Sapienza Horizon Haward (PI) (€12970)

2025-ongoing Sapienza Rome technopole, International Network (PI) (€20000)

2025-ongoing ERA4Health – NutriBrain (PI) (€1571164)

RESEARCH GRANTS OBTAINED AS PARTICIPANT

2005-2006: Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2005) (€28500)

2006-2008: Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2006-2007) (€43600-€18000)

2007-2010 MIUR FIRB Piattaforme Reti (€228154)

2008-2010: Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2008-2009) (€27000-€20000)

2010-2011: Sapienza Univ. Intramural Research Grant (RICERCHE UNIVERSITARIE 2010) (€31500)

2011-2013: MIUR National Research Grant (PRIN) (€ 79984)

SCIENTIFIC PRODUCTION

SG is author of 98 papers published in peer reviewed journals included in the most important databases (SCOPUS, ISI, PUBMED), which include papers published in high impact journals (Nature, Nature Medicine, Cell Metabolism, Journal of Biological Chemistry, Trends in Molecular Medicine, Journal of Neuroscience, Neuropsychopharmacology, PNAS, Neuroscience and Biobehavioural Reviews). Dr Gaetani's research activities focus on the study of the therapeutic potential of exogenous modulators of the endocannabinoid/paracannabinoid system (particularly direct and indirect agonists) in experimental models of neuropsychiatric,

metabolic and/or neurodegenerative diseases, (particularly eating disorders, mood disorders, obesity, Alzheimer's disease). The results of these activities have been reported in 98 scientific publications (H index: 44; 8659 citations - SCOPUS), many lectures and conference presentations.

SG is author, also, of more than 150 abstracts presented (also upon invitation) in prestigious national and international scientific meetings (e.g. The Neuroscience meeting held by the Society for Neuroscience; The World Congress of Pharmacology; The meeting of the International Cannabinoid Society, etc.).

SG is author of 4 books on the Basic principles of Pharmacology for Master Students

SG gave 9 invited plenary lectures at Italian and International Universities (including Wakayama Medical Univ., Japan, Univ. of Lille, France, and European Research Institute of Rome, Italy, University of Cardiff, UK).

SG is author of 2 international patents

OTHER SCIENTIFIC ACTIVITIES:

2007: CHAIR of the Scientific Organizing Committee of the Workshop of the Italian Society of Pharmacology: "Behavioral and metabolic aspects of obesity and eating disorders", Rome March 17th, 2007

2012: CHAIR of the Scientific Organizing Committee of the Workshop of the European Behavioural Pharmacology Society: "Eating Behaviour and obesity, Lecce, 7-9 September 2012

2013-2015-2017-2021-2022: CHAIR of the Scientific Organizing Committee of six Symposia within the Biennial meeting of the Italian Society of Pharmacology

2016-2023: CHAIR of the Scientific Organizing Committee of two Symposia within the Annual meeting of the Italian Society for Neuroscience

2017: CHAIR of the Scientific Organizing Committee of a Symposium within the Biennial meeting of the European Behavioural Pharmacology Society

2019: CHAIR of the Scientific Organizing Committee of a Symposium within the Biennial meeting of the European Behavioural Pharmacology Society Mediterranean neuroscience conference, Marrakech (Morocco) June 23-27 2019

2007: MEMBER of the Scientific Organizing Committee of the II Workshop of the Italian Society of Pharmacology: "Behavioral and metabolic aspects of obesity and eating disorders", Camerino, June 6-7 2024

2024: CHAIR of the Scientific Organizing Committee of a Symposium within the EPHAR - 9th European Congress of Pharmacology

MEMBER OF NATIONAL AND INTERNATIONAL SCIENTIFIC BOARDS

2009-2013 Co-opted Member European Behavioural Pharmacology Society Executive Committee

2008-2021 ACADEMIC EDITOR for the Journal "Plos One"

2013-present ASSOCIATE EDITOR for the Journal Frontiers in Pharmacology, section Experimental Pharmacology and Drug Discovery

2015-present MEMBER OF THE EDITORIAL BOARD of the "Journal of Drug Research and Development"

2012-2015 MEMBER OF THE EDITORIAL BOARD of the Journal "Behavioural Pharmacology"

2012 GUEST EDITOR for the special issue of the Journal "Behavioural Pharmacology" titled "Pharmacological Approaches to Feeding Behaviour and Eating Disorders"

2013: TOPIC EDITOR for the Special issue "Preclinical and clinical issues in Alzheimer's disease drug research and development" della rivista Frontiers in Pharmacology Research

2016-present Member of the Editorial Board of Mathews Journal of Diabetes & Obesity

2017- present Member of the Editorial Board of Journal of Drug Research and Development

2017- present Member of the Editorial Board of Translational Neuroscience Research and Reviews

2015: GRANT REFEREE for the FRENCH NATIONAL RESEARCH AGENCY (ANR); Strasbourg Institute of Advanced Study's (USIAS, Fellowship programme); MIUR (Programma per Giovani Ricercatori "Rita Levi Montalcini" 2015); Università di Verona (JOINT PROJECTS); Università di Camerino (SAS Award 2017)

2017 Referee for Italian VQR 2011-2014

2004-present REFEREE for numerous scientific journals, including high impact journals

ACADEMIC TEACHING ACTIVITY

-Research Supervisor of Pharmacology" for undergraduate students of Biological Sciences (January 2002-June 2004) Univ. of California Irvine, USA

-“Course of Pharmacology II” of the Master Course in Pharmaceutical Biotechnology (September 2004-September 2010) Faculty of Pharmacy, Sapienza Univ. of Rome

-Course of “Experimental and Clinical Pharmacokinetics” of the Master Course in Medicinal Chemistry (November 2006-October 2008, October 2011-September 2012) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome

-Course of “Special Pharmacology, pharmacotherapy and Pharmacological Biotechnology” Master Course in Pharmaceutical Biotechnology (October 2010-present) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome

-Course of “General and Molecular Pharmacology” Master Course in Pharmacy (October 2012-December 2017) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome

-Course of “Pharmacovigilance” Undergraduate Course in Applied Pharmacological Sciences (October 2013-September 2017) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome

- “Course of in vivo techniques for the evaluation of xenobiotic activity” PhD program in Toxicology (2013-July 2017), Sapienza Univ. of Rome
- Course of “Preclinical and clinical pharmacological research” Master Course in Genetics and Molecular Biology in the Basic and Biomedical Research (October 2015-September 2016) Faculty of Sciences, Sapienza Univ. of Rome
- Course of “Pharmacology in drug Discovery” English Master Course in Genetics and Molecular Biology (October 2016-present) Faculty of Sciences, Sapienza Univ. of Rome**
- Course of “Special Pharmacology and pharmacotherapy” Master Course in Pharmacy (March 2018-October 2024) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome
- **Course of “Pharmacology II and pharmacotherapy” Master Course in Pharmacy (March 2025-present) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome**
- **Course of “Exercise and Sports Pharmacology”, Master Course in Sports Sciences and Biomedical-Oriented Physical Activity, Faculty of Pharmacy and Medicine, Sapienza University of Rome (from October 2025- present)**
- **Course of Pharmacology I and modules of Pharmacology II MD Degree Programme in Medicine and Surgery, Faculty of Pharmacy Medicine and Dentistry, Sapienza University of Rome (from October 2025-present)**

Italian and International MENTORSHIP ACTIVITY (2005-PRESENT)

- Mentor of 24 PhD students at Sapienza Univ. of Rome (2006-present), including 3 international PhD Students (from **India**, **Pakistan** and **Iran**).
- Mentor of 68 master thesis in Pharmaceutical Biotechnology, Medicinal Chemistry, Pharmacy, Neurobiology, at Sapienza Univ. of Rome (2005-present)
- Mentor of the research activity conducted by Dr Florencia Andreoli, Visiting Researcher from Universidad Nacional del Litoral Santa Fe, **Argentina**, (2013-2014)
- Mentor of the research activity conducted by Ms Jessica de Sá, Visiting Student from Faculdade de Ciências Farmacêuticas, UNESP Araraquara, **Brasil**, according to the mobility program “science without borders” (20/01/2015 al 19/06/2015)
- Mentor of the research activity conducted by Prof. Yan Qiu, Yan Qiu Associate Professor and Visiting Professor from Medical College of Xiamen University, **Cina**, (2015-2016)
- Mentor of the research activity conducted by Ms Tatiana Soares Costa, Visiting Biochemistry Student from University of Coimbra, **Portugal** according to the Erasmus Plus program (01/10/2016-31/06/2017)
- Mentor of the research activity conducted by Ms Vera Weinberg, Visiting Pharmacy Student from Utrecht University, **the Netherlands** according to the Erasmus Plus program (13/02/2017-13/08/2017)
- Mentor of the research activity conducted by Dr Owein Guillemot-Legrís, Visiting Fellow from Université Catholique de Louvain, Brussels (**Belgium**), through the Wallonie-Bruxelles International Excellence grant (2017)
- Mentor of the research activity conducted by Ms Dorien Smeets, Visiting Pharmacy Student from Utrecht University, **the Netherlands** according to the Erasmus Plus program (2018-2019)
- Collaborator within the research activity conducted by Prof. Fernando Rodriguez de Fonseca, Full Professor and Visiting Professor from the University of Malaga, **Spain**, (2023)
- Mentor of the research activity conducted by Ms Konstantina Karagiota, Visiting Student from University of West Attica, **Greece**, Erasmus Plus program (2023)

OTHER ACADEMIC ACTIVITIES

- February 2020-present: elected **Coordinator of the Ph.D program in Pharmacology and Toxicology**, Sapienza University of Rome
- 2017-2020: Nominated Secretary (Referente) of the Ph.D program in Pharmacology and Toxicology, Sapienza Univ. of Rome
- 2006-present: Member of the Board of Professors of the Ph.D program in Pharmacology and Toxicology, Sapienza Univ. of Rome
- 2008-2012 and 2017-present: **ELECTED MEMBER OF THE DEPARTMENT ADVISORY BOARD** (Giunta di Dipartimento) of the Dept. of Physiology and Pharmacology “V. Erspamer”, Sapienza Univ. of Rome
- 2017-present: **ELECTED MEMBER OF THE FACULTY ADVISORY BOARD** (Giunta di Facoltà) Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome
- 2008-2019: **MEMBER OF DIDACTIC COMMITTEE** Master Course in Pharmaceutical Biotechnology, Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome
- 2011-2012: **MEMBER OF THE RESEARCH COMMITTEE** of Sapienza Univ. of Rome
- 2012-2023: Coordinator of the didactic quality team of the Master Course in Pharmaceutical Biotechnology, Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome
- 2014-2025: member of the “**ANIMAL WELFARE BODY**” (OBPA) of the Dept. of Physiology and Pharmacology “V. Erspamer”, Sapienza Univ. of Rome
- 2015-2023: member of the **ACADEMIC COMMITTEE** for the evaluation of the **PHARMACY PROFESSIONAL TRAINING**, Faculty of Pharmacy and Medicine, Sapienza University of Rome
- 2016–2017: **Academic Responsible for International Mobility (RAM)**, Degree Programme in Applied Pharmaceutical Sciences, Faculty of Pharmacy and Medicine, Sapienza University of Rome
- 2018–2024: **Academic Responsible for International Mobility (RAM)**, Master Course in Pharmaceutical Biotechnology, Faculty of Pharmacy and Medicine, Sapienza University of Rome
- 2018-present: Member of the **Monitoring Committee**, Faculty of Pharmacy and Medicine, Sapienza University of Rome

-2017-2020: member of the **PhD STEERING COMMITTEE** (Comite d'accompagnement), Université Catholique de Louvain, Belgium

-2020- present MEMBER OF DIDACTIC COMMITTEE Master Course in Pharmacy, Faculty of Pharmacy and Medicine, Sapienza Univ. of Rome

SCIENCE COMMUNICATION (Third Mission) AND MAJOR COVERAGE IN NATIONAL AND INTERNATIONAL MEDIA AND WEB PORTALS

Intensive public engagement and science communication activity (2003–2025), including more than 25 interviews and features in national and international newspapers and magazines (e.g. *ScienceDaily*, *Corriere della Sera*, *la Repubblica*, *El País*, *Frankfurter Allgemeine Zeitung*, *Focus*), 8 radio interviews (RAI Radio 1 and national radio networks), 1 national television interview (RAI TV – *Elisir*), multiple institutional press releases, invited public lectures and museum events, science cafés, school outreach laboratories, and participation in public and institutional round tables, including a parliamentary event on public health and obesity prevention.

LIST OF PUBLICATIONS ON PEER REVIEWED SCIENTIFIC JOURNALS

1. Trabace L, Coluccia A, **Gaetani S**, Tattoli M, Cagiano R, Pietra C, Kendrick KM, Cuomo V. *In vivo neurochemical effects of the acetylcholinesterase inhibitor ENA713 in rat hippocampus*. **Brain Research** 2000 865(2):268-71
2. Tattoli M, Cagiano R, **Gaetani S**, Ghiglieri V, Giustino A, Mereu G, Trabace L, Cuomo V. *Neurofunctional effects of developmental alcohol exposure in alcohol-preferring and alcohol-nonpreferring rats*. **Neuropsychopharmacology** 2001 24(6):691-705
3. Rodriguez de Fonseca F, Navarro M, Gomez R, Escuredo L, Nava F, Fu J, Murillo-Rodriguez E, Giuffrida A, LoVerme J, **Gaetani S**, Kathuria S, Gall C, Piomelli D. *An anorexic lipid mediator regulated by feeding*. **Nature** 2001 414(6860):209-12. I.F. 2017: 41,577
4. Cagiano R, Cassano T, Coluccia A, **Gaetani S**, Giustino A, Steardo L, Tattoli M, Trabace L, Cuomo V. *Genetic factors involved in the effects of developmental low-level alcohol induced behavioral alterations in rats*. **Neuropsychopharmacology** 2002 26(2):191-203
5. Kathuria S, **Gaetani S**, Fegley D, Valino F, Duranti A, Tontini A, Mor M, Tarzia G, Rana GL, Calignano A, Giustino A, Tattoli M, Palmery M, Cuomo V, Piomelli D. *Modulation of anxiety through blockade of anandamide hydrolysis*. **Nature Medicine** 2003 9(1):76-81
6. **Gaetani S**, Oveisi F and Piomelli D. *Modulation of meal pattern in the rat by the anorexic lipid mediator oleylethanolamide*. **Neuropsychopharmacology** 2003 28(7):1311-6.
7. Fu J, **Gaetani S**, Oveisi F, Lo Verme J, Serrano A, Rodriguez De Fonseca F, Rosengarth A, Luecke H, Di Giacomo B, Tarzia G, Piomelli D. *Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR-alpha*. **Nature** 2003 425(6953):90-3.
8. **Gaetani S**, Cuomo V, Piomelli D. *Anandamide hydrolysis: a new target for anti-anxiety drugs?* **Trends in Molecular Medicine** 2003 9(11):474-8.
9. Oveisi F, **Gaetani S**, Eng KTP, Piomelli D *Oleylethanolamide inhibits food intake in free-feeding rats after oral administration*. **Pharmacological Research** 2004 49(5):461-466
10. Fegley D, **Gaetani S**, Duranti A, Tontini A, Mor M, Tarzia G, Piomelli D *Characterization of the fatty-acid amide hydrolase inhibitor URB597: Effects on anandamide and oleylethanolamide deactivation*. **The Journal of Pharmacology and Experimental Therapeutics** 2005 313(1):352-8
11. LoVerme J, **Gaetani S**, Fu J, Oveisi F, Burton K and Piomelli D *Regulation of food intake by oleylethanolamide* **Cellular and Molecular Life Sciences** 2005 62(6):708-16
12. Fu J, Oveisi F, **Gaetani S**, Lin E, Piomelli D. *Oleylethanolamide, an endogenous PPAR-alpha agonist, lowers body weight and hyperlipidemia in obese rats*. **Neuropharmacology**. 2005 48(8):1147-53
13. Astarita G, Di Giacomo B, **Gaetani S**, Oveisi F, Compton TR, Rivara S, Tarzia G, Mor M, Piomelli D. *Pharmacological characterization of hydrolysis-resistant analogs of oleylethanolamide with potent anorexiatic properties*. **Journal of Pharmacology and Experimental Therapeutics** 2006 318(2):563-70
14. Loverme J, Guzman M, **Gaetani S**, Piomelli D. *Cold exposure stimulates synthesis of the bioactive lipid oleylethanolamide in rat adipose tissue*. **Journal of Biological Chemistry** 2006 281(32):22815-8
15. Fu J, Astarita G, **Gaetani S**, Kim J, Cravatt BF, Mackie K, Piomelli D. *Food intake regulates oleylethanolamide formation and degradation in the proximal small intestine*. **Journal of Biological Chemistry** 2007 282(2):1518-28
16. Campolongo P, Trezza V, Cassano T, **Gaetani S**, Morgese MG, Ubaldi M, Soverchia L, Antonelli T, Ferraro L, Massi M, Ciccocioppo R, Cuomo V. *Perinatal exposure to delta-9-tetrahydrocannabinol causes enduring cognitive deficits associated with alteration of cortical gene expression and neurotransmission in rats*. **Addiction Biology** 2007 12(3-4):485-95
17. Castaldo P, Magi S, **Gaetani S**, Cassano T, Ferraro L, Antonelli T, Amoroso S, Cuomo V. *Prenatal exposure to the cannabinoid receptor agonist WIN 55,212-2 increases glutamate uptake through overexpression of GLT1 and EAAC1 glutamate transporter subtypes in rat frontal cerebral cortex*. **Neuropharmacology**. 2007 53(3):369-78. I.F. 2017: 4,249

18. Trezza V, Campolongo P, Cassano T, Macheda T, Dipasquale P, Carratù MR, **Gaetani S**, Cuomo V. *Effects of perinatal exposure to delta-9-tetrahydrocannabinol on the emotional reactivity of the offspring: a longitudinal behavioral study in wistar rats.* **Psychopharmacology** 2008, 198(4):529-37
19. **Gaetani S**, Kaye W, Cuomo V, Piomelli D. *Role of endocannabinoids and their analogues in obesity and eating disorders.* **Eating and weight disorders** 2008, 13(3):e42-8
20. Schwartz GJ, Fu J, Astarita G, Xiaosong Li¹, **Gaetani S**, Campolongo P, Cuomo V, Piomelli D. *The lipid messenger OEA links dietary fat intake to satiety.* **Cell Metabolism** 2008, 8(4):281-8
21. Morgese MG, Cassano T, **Gaetani S**, Macheda T, Laconca L, Dipasquale P, Ferraro L, Antonelli T, Cuomo V, Giuffrida A. *Neurochemical changes in the striatum of dyskinetic rats after administration of the cannabinoid agonist WIN55,212-2.* **Neurochemistry International** 2009 54(1):56-64
22. Ferraro L, Tomasini Mc, Tanganelli S, Mazza R, Coluccia A, Carratu' MR, **Gaetani S**, Cuomo V, Antonelli T. *Developmental exposure to methylmercury elicits early cell death in the cerebral cortex and long-term memory deficits in the rat.* **International Journal of Developmental Neuroscience** 2009 27: 165–174
23. Celentano M, Caprioli D, Di Pasquale P, Cardillo V, Nencini P, **Gaetani S**, Badiani A. *Drug context differently regulates cocaine versus heroin self-administration and cocaine- versus heroin-induced Fos mRNA expression in the rat.* **Psychopharmacology** 2009, 204(2):349-60
24. Antonelli T, Tomasini MC, Mazza R, Fuxe K, **Gaetani S**, Cuomo V, Tanganelli S, Ferraro L. *Cannabinoid CB1 and Cholecystokinin CCK2 receptors modulate, in an opposing way, electrically-evoked [3H]GABA efflux from rat cerebral cortex cell cultures. Possible relevance for cortical GABA transmission and anxiety.* **Journal of Pharmacology and Experimental Therapeutics** 2009, 329(2):708-17
25. **Gaetani S**, Dipasquale P, Romano A, Righetti L, Cassano T, Piomelli D and Cuomo V. *The endocannabinoid system as a target for novel anxiolytic and antidepressant drugs.* **International Review of Neurobiology** 2009, 85: 57-72
26. Cassano T*, **Gaetani S***, Morgese MG, Macheda T, Laconca L, Dipasquale P, Taltavull J, Shippenberg TS, Cuomo V, Gobbi G. *Monoaminergic changes in locus coeruleus and dorsal raphe nucleus following noradrenaline depletion.* **Neurochemical Research** 2009 34(8):1417-26 *equal contribution
27. Ferraro L, Tomasini MC, Beggiato S, **Gaetani S**, Cassano T, Cuomo V, Amoroso S, Tanganelli S, Antonelli T. *Short- and long-term consequences of prenatal exposure to the cannabinoid agonist WIN55,212-2 on rat glutamate transmission and cognitive functions.* **Journal of Neural Transmission** 2009, 116(8): 1017-27
28. vanRijn CM, **Gaetani S**, Santolini I, Badura A, Gabova A, Fu J, Watanabe M, Cuomo V, vanLuijtelaaar G, Nicoletti F, and Ngomba RT Wag/rij rats show a reduced expression of CB₁ receptors in thalamic nuclei and respond to the CB₁ receptor agonist, R(+)WIN55,212-2, with a reduced incidence of spike-wave discharges. **Epilepsia** 2010 51(8):1511-21
29. **Gaetani S**, Fu J, Cassano T, Dipasquale, Romano A, Righetti L, Cianci S, Laconca L, Giannini E, Scaccianoce S, Mairesse J, Cuomo V, and Piomelli D. *The fat-induced satiety factor OEA suppresses feeding through central release of oxytocin.* **Journal of Neuroscience** 2010 30(24):8096-101
30. Cassano T*, **Gaetani S***, Macheda T, Laconca L, Romano A, Morgese MG, Cimmino CS, Chiarotti F, Bambico FR, Gobbi G, Cuomo V, and Piomelli D. *Evaluation of the emotional phenotype and serotonergic neurotransmission of fatty acid amide hydrolase-deficient mice.* **Psychopharmacology**, 2010 214(2):465-76 *equal contribution
31. Dipasquale P, Romano A, Cianci S, Righetti L, **Gaetani S**. *Oleylethanolamide: a new player in energy metabolism control. Role in food intake* **Drug Discovery Today: Disease Mechanisms** 2011, 7(3–4): e159–e226
32. Fu J, DiPatrizio NV, Guijarro A, Schwartz GJ, Li X, **Gaetani S**, Astarita G, Piomelli D. *Sympathetic activity controls fat-induced OEA signaling in small intestine* **Journal of Neuroscience** 2011 31(15):5730-6
33. Cassano T, Romano A, Macheda T, Colangeli R, Cimmino CS, Petrella A, LaFerla FM, Cuomo V, **Gaetani S**. *Olfactory memory is impaired in a triple transgenic model of Alzheimer disease.* **Behavioural Brain Research** 2011, 31;224(2):408-12
34. Trapani A, De Giglio E, Cafagna D, Denora N, Agrimi G, Cassano T, **Gaetani S**, Cuomo V, Trapani G. *Characterization and evaluation of chitosan nanoparticles for dopamine brain delivery.* **International Journal of Pharmaceutics**. 2011 419(1-2):296-307
35. Cassano T, Serviddio G, **Gaetani S**, Romano A, Dipasquale P, Cianci S, Bellanti F, Laconca L, Romano AD, Padalino I, LaFerla FM, Nicoletti F, Cuomo V, Vendemiale V. *Glutamatergic alterations and mitochondrial impairment in a murine model of Alzheimer disease* **Neurobiology of Aging** 2012 33(6):1121.e1-12
36. Mairesse J, Silletti V, Laloux C, Zuenen AR, Giovine A, Consolazione M, van Camp G, Malagodi M, **Gaetani S**, Cianci S, Catalani A, Mennuni G, Mazzetta A, van Reeth O, Gabriel C, Mocaër E, Nicoletti F, Morley-Fletcher S, Maccari S. *Chronic agomelatine treatment corrects the abnormalities in the circadian rhythm of motor activity and sleep/wake cycle induced by prenatal restraint stress in adult rats.* **International Journal of Neuropsychopharmacology** 2013 16(2):323-38
37. Romano A, Cassano T, Tempesta B, Cianci S, Dipasquale P, Coccorello R, Cuomo V, **Gaetani S**. *The satiety signal oleylethanolamide stimulates oxytocin neurosecretion from rat hypothalamic neurons.* **Peptides**. 2013 49C:21-26
38. Romano A, Potes CS, Tempesta B, Cassano T, Cuomo V, Lutz T, **Gaetani S**. *Hindbrain noradrenergic input to the hypothalamic PVN mediates the activation of oxytocinergic neurons induced by the satiety factor*

oleoylethanolamide. **American Journal of Physiology-Endocrinology And Metabolism**. 2013. 305(10):E1266-73

39. Aureli C, Cassano T, Masci A, Francioso A, Martire S, Cocciolo A, Chichiarelli S, Romano A, **Gaetani S**, Mancini P, Fontana M, d'Erme M, Mosca L. *5-S-Cysteinyldopamine neurotoxicity: influence on the expression of alpha-Synuclein and of ERp57 in cellular and animal models of Parkinson's disease*. **Journal of Neuroscience Research**. 2014 92(3):347-58
40. Bedse G, Romano A, Cianci S, Lavecchia AM, Pace L, Elphick MR, LaFerla FM, Vendemiale G, Grillo C, Altieri F, Cassano T and **Gaetani S**. *Altered expression of the CB1 cannabinoid receptor in the triple transgenic mouse model of Alzheimer's disease*. **Journal of Alzheimers Disease**. 2014 40(3):701-12
41. Schepisi C, Cianci S, Bedse G, Fu J, **Gaetani S**, Nencini P. *Differences in the structure of drinking, cart expression and dopamine turnover between polydipsic and non polydipsic rats in the quinpirole model of psychotic polydipsia*. **Psychopharmacology**. 2014 231(19):3889-97
42. Romano A, Coccurello R, Giacobazzo G, Bedse G, Moles A and **Gaetani S**. *Oleoylethanolamide: a novel potential pharmacological alternative to cannabinoid antagonists for the control of appetite*. **BioMed Research International** (formerly titled Journal of Biomedicine and Biotechnology) 2014 2014:203-425
43. Romano A, Karimian Azarib E, Tempesta B, Mansourib A, Micioni Di Bonaventura MV, Ramachandran D, Lutz TA, Bedse G, Langhans W, and **Gaetani S**. *High dietary fat intake influences the activation of specific hindbrain and hypothalamic nuclei by the satiety factor oleoylethanolamide*. **Physiology & Behavior** 2014 136:55-62
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