

DR GASPERI VALERIA

University of Rome "Tor Vergata"

Faculty of Medicine and Surgery

Department of Experimental Medicine

Via Montpellier 1, 00133 Rome

Phone +39 06 7259 6465; e-mail: gasperi@med.uniroma2.it;

ACTUAL POSITION

Qualification: University Assistant Professor tenured position (BIO/10-Biochemistry) at the University of Rome "Tor Vergata" Department of Experimental Medicine.

National Scientific Qualification required to function as University Associate Professor (BIO/10-Biochemistry) Disciplinary Area – 05/E1 – General Biochemistry (D.D. 1532/2016). Valid from 1/13/2020 to 1/13/2029.

National Scientific Qualification required to function as University Associate Professor (BIO/10-Biochemistry) Disciplinary Area – 05/E1 – General Biochemistry (D.D. 222/2012). Valid from 6/16/2014 to 6/16/2023.

23-11-2018 Eligibility for the role of University Associate Professor (BIO/10-Biochemistry) Disciplinary Area – 05/E1 – General Biochemistry at Department of Biology of the University of Rome "Tor Vergata" (D.R. 584 3/29/2018 (Rif. 1350) G.U. 31 4/17/2018).

EDUCATION

7/2001 - University Degree at Faculty of Biotechnological Sciences of the University of Naples "Federico II"- Final score 110/110

11/2005 - Ph Doctorate in Biochemistry and Molecular Biology-XVIII Cycle at the Department of Experimental Medicine and Biological Sciences of the University of Rome "Tor Vergata".

PREVIOUS POSITIONS

10/1/2008 – 11/9/2011

University Researcher in tenure-track (BIO/10-Biochemistry) at the University of Rome "Tor Vergata" Department of Experimental Medicine.

5/9/2006 – 5/8/2008

Postdoctoral fellowship for the project "Multidisciplinary approach for the development of defense mechanisms of bivalve molluscs for environmental and project quality" (BIO/10 and VET/05) at Department of Comparative Biochemical Sciences of University of Teramo and Department of Experimental Medicine and Biological Sciences of the University of Rome "Tor Vergata" (DR 247 5/4/2006)

2002/2005

Ph Doctorate in Biochemistry and Molecular Biology at the Department of Experimental Medicine and Biological Sciences of the University of Rome "Tor Vergata".

6/7/2005- 7/31/2005 - Fellowship for the project "Study of molecular modifications in enzymes and constitutive proteins of milk following high pressure homogenization treatment" (DM 44673031 12/3/2001 MIPAF) at the Department of Experimental Medicine and Biological Sciences of the University of Rome "Tor Vergata".

7/4/2002 – 10/4/2002

Fellowship for the project "Role of NO/NO synthase S-nitrosylation in the regulation of death by necrosis or apoptosis in tumor cells" at the Department of Experimental Medicine and Biological Sciences of the University of Rome "Tor Vergata".

12/7/2001 –9/9/2002

Fellowship at Gastroenterology research laboratory of "Casa Sollievo della Sofferenza" Hospital IRCCS (San Giovanni Rotondo, FG).

TEACHING ACTIVITY

Dr Gasperi Valeria carries out the following teaching activities at the Faculty of Medicine and Surgery of the University of Rome "Tor Vergata":

Master Degree in Medicine and Surgery

- Teacher of Biochemical Techniques course SSD BIO/10 (1 CFU) - CI Practical Medicine II (from 2019/2020 AA until now).
- Biochemistry exams.
- Seminars and theoretical-practical exercises as part of the teaching of the Biochemistry course.

Master Degree in Human Nutrition Sciences

- Teacher of Chemistry of Food course SSD CHIM/10 (2 CFU) - CI Food Chemistry and Food Technology (from 2014/2015 AA until now).

- Teacher of New Food course SSD BIO / 10 (2 CFU) - CI New Foods and Food Safety. Coordinator of Integrated Course (from 2019/2020 AA until now)

Bachelor degree in Dietetics

- Teacher of Biochemistry course SSD BIO/10 (3 CFU) – IC Biochemistry, Physiology and Immunology (from 2008/2009 until now). Coordinator of Integrated Course
- Teacher of Nutritional Biochemistry course SSD MED/49 (3 CFU) - IC Nutritional Biochemistry and Functional Foods (from 2008-2009 until now)
- Teacher of Food Chemistry course SSD CHIM/10 (3 CFU) - IC Chemistry, Technology and Commodity of Food - Coordinator of Integrated Course (from 2018/2019 to 2020/2021).
- Seminars and exams for Professional Laboratory course of the specific Disciplinary Area (from 2008/2009 until now).

Bachelor Degree in Motor Sciences

- Biochemistry Exams

International First Level Specializing Master in Teaching and Coaching Judo

- Teacher of Applied Biochemistry SSD BIO/10 (1 CFU) (2011/2012)

First Level Specializing Master in Nutrition and Cosmetics

- Teacher of Dietary Bioactive compounds with Cosmetics Application course SSD BIO/10 (1 CFU) (from 2016/2017 until now)
- Teacher of Skin Proteins and Glucides SSD BIO/10 (1 CFU) (from 2009/2010 to 2013/2014)
- Didactic Secretary (from 2009/2010 to 2013/2014)

Second Level Specializing Master in Personalized Nutrition: Molecular and Genetic Bases

- Teacher of Macronutrient polymorphism and metabolism course SSD BIO/10 (2 CFU) (from 2019/2020 until now)
- Teacher of Dietary bioactive compounds course SSD BIO/10 (1 CFU) (from 2014/2015 to 2018/2019)
- Didactic Secretary (from 2014/2015 to 2015/2016)

2009-2019 Member of the Academic Board of the PhD in "Biochemistry and Molecular Biology" University of Rome "Tor Vergata".

2008-2012 Member of the Academic Board of the PhD in "Biochemical Sciences and Technologies Applied to Food and Nutrition" at University "Campus Bio-medico" of Roma.

Dr Gasperi followed as supervisor more than 30 theses.

SCIENTIFIC ACTIVITY

The main fields of investigation of Dr. Gasperi are focused on:

- Characterization of platelet-derived miRNAs in cancer and their role in tumor biology.
- Study of miRNome in physiological and pathological conditions with particular focus on biomarker identification in clinical research by bioinformatics analysis of Omics data.
- Study of the regulation of intercellular communication (platelets, leukocytes, endothelium, tumor cells) with implications in cardiovascular and oncological fields.
- Impact of phytochemical compounds on oxidative stress and inflammation associated with cancer, cardiovascular disease and obesity.
- Study of megakaryocyte differentiation, thrombogenesis and platelet activation in diabetes.

International and national research projects, admitted for funding

2022	Tor Vergata Research Program. Title: "miR126-CB2 crosstalk in breast cancer (miRCBBC)"
2018	Individual Annual Funding of Basic Research Activities (ANVUR 20/2017 15/6/2017)
2017	Tor Vergata Research Program "Mission Sustainability 2017" NanOArt project
2015/2016	Programma di ricerca Tor Vergata Research Program "Uncovering excellence 2014" (DR 920 5/5/2014) "ACUMEN <i>Dissecting the role of the E3 ubiquitin ligase WWP1 in acute myeloid leukaemia pathogenesis</i> ". Prot. 0006338/2015. Principal investigator
2009/2012	Project "New modulator of cannabinoid receptors"- NuMoReCa I° Distretto Tecnologico delle Bioscienze (DTB) - Regione Lazio. Co-principal investigator
2011/2013	PRIN - (DM 51 9/19/2010. prot. 20095SWFHZ_003 – "Ruolo degli endocannabinoidi nella modulazione della megacariopoiesi e piastrinogenesi: studi in modelli cellulari".
2008/2010	PRIN (DM 1175 9/18 2007). prot. 2007NMKBKL_003) "Differenziamento e morte cellulare indotti dagli endocannabinoidi in piastrine e loro precursori: ruolo dello stato redox".
2006/2009	Italian Space Agency Project (ASI-ESA-NASA) – "Disturbi del Controllo Motorio e Cardiorespiratorio (DCMC)" contract I006/06/0: Workpackage WP 1B1521: "The Endocannabinoid System and Apoptosis of

- Human Neuronal Cells under Space conditions*".
- 2006/2009 Italian Space Agency Project (ASI-ESA-NASA)– “*Disturbi del Controllo Motorio e Cardiorespiratorio (DCMC)*” contract I006/06/0: Workpackage WP 1B1/6: “*Programmed cell death: new tools from space research*”
- 2006/2009 Italian Space Agency Project (ASI-ESA-NASA) – “*From Molecules To Man: Biotechnological Applications of Space Research (MoMa)*” contract I014/06/0: Workpackage WP 1B1241-XA: “*LIF, lymphocytes, Apoptosis & Ageing*”.
- 2006/2009 Italian Space Agency Project (ASI-ESA-NASA) – “*From Molecules To Man: Biotechnological Applications of Space Research (MoMa)*” contract I014/06/0: Workpackage WP 1B1241-X9 “*Dysregulation and ageing*”.
- 2006/2009 Italian Space Agency Project (ASI-ESA-NASA) – “*From Molecules To Man: Biotechnological Applications of Space Research (MoMa)*” contract I014/06/0: Workpackage WP 1B1242-X2 “*Lymphocytes survival, ageing and death*”.

Participation to Scientific Societies

Member of the Platelet Study Group (GSP)

Member of the Italian Society of Human Nutrition (SINU)

Editorial Board member

- Editorial Board member of "International Journal of Molecular Sciences" (IJMS)
- Review editor for “Frontiers in Membrane Physiology and Biophysics” and “Frontiers in Cardiovascular Medicine”
- Guest editor for the following Special issues in IJMS:
 - ✓ Molecular Research on Platelet Activity in Health and Disease
 - ✓ Molecular Research on Platelet Activity in Health and Disease 2.0
 - ✓ Molecular Research on Platelet Activity in Health and Disease 3.0
 - ✓ Molecular Research on Platelet Activity in Health and Disease 2022
 - ✓ Noncoding RNAs: Molecular Mechanisms and Physio-Pathological Implications
 - ✓ Diet and lifestyle: impact on the molecular and cellular mechanism of NCDs
 - ✓ The epigenetic landscape in cancer

Referee for several international scientific peer-reviewed journals, including International Journal of Molecular Sciences, Cells, Toxics, Experimental Neurology, Antioxidants, Cannabis and Cannabinoid Research, Theranostics, Communications Biology – Nature.

SCIENTIFIC PRODUCTION

The global research activity of Dr. Gasperi has led to the publication of over 70 articles in international scientific journals (H-index = 29; over 3100 citations), 3 monographs/book chapters and more than 50 presentations at National and International Congresses.

ORCID ID: <https://orcid.org/0000-0003-3200-8093>

Below is the complete list of publications (original works, reviews, monographs and book chapters):

(* *corresponding author*)

1. **Gasperi V**, Gambacorta N, Guzzo T, Di Leva FS, Ciriaco F, Sánchez C, Tullio V, Rozzi D, Marinelli L, Topai A, Nicolotti O, Maccarrone M. A novel 1,3-benzoxazine chemotype for the rational design of potent and selective type-2 cannabinoid receptor agonists. *Journal of Medicinal Chemistry* 2023; under review
2. **Gasperi V**, Savini I, Catani MV. Assay of CB1 Receptor Binding. *Methods Mol Biol.* 2023; 2576:95-109. doi: 10.1007/978-1-0716-2728-0_7.
3. Catani MV, Tullio V, Maccarrone M, **Gasperi V***. DNA-Protein-Interaction (DPI)-ELISA Assay for PPAR- γ Receptor Binding. *Methods Mol Biol.* 2023; 2576:133-143. doi: 10.1007/978-1-0716-2728-0_10.
4. **Gasperi V***, Guzzo T., Topai A, Gambacorta N, Ciriaco F, Nicolotti O, Maccarrone M. Recent advances on type-2 cannabinoid (CB2) receptor agonists and their therapeutic potential. *Current Medicinal Chemistry.* 2022 doi: 10.2174/0929867329666220825161603.
5. Catani MV, Savini I, **Gasperi V***. Molecular Research on Platelet Activity in Health and Disease 3.0. *Int J Mol Sci.* 2022 May 16;23(10):5530. doi: 10.3390/ijms23105530.
6. Tullio V, Sibilano M, Adorno S, Savini I, Catani MV, **Gasperi V***. Platelet-Derived miR-126-3p directly targets AKT2 and exerts anti-tumor effects in breast cancer cells: further insights in platelet-cancer interplay. *Int. J. Mol.Sci.* Int. J. Mol. Sci. 2022, 23, 5484. <https://doi.org/10.3390/ijms23105484>.
7. Catani MV, Rinaldi F, Tullio V, Savini I, **Gasperi V***. Comparative analysis of phenolic composition and antioxidant activity of six commercially available chamomile (*Matricaria chamomilla L.*) extracts on human colon Caco2 cells. *Int. J. Mol.Sci.* **2021**, 22, 10601. <https://doi.org/10.3390/ijms221910601>
8. Catani MV, Savini I, Tullio V, **Gasperi V***. Molecular Research on Platelet Activity in Health and Disease 2.0. *Int J Mol Sci.* 2021 May 7;22(9):4968. doi: 10.3390/ijms22094968.

9. Croci S, D'Apolito LI, **Gasperi V***, Catani MV, Savini I. Dietary Strategies for Management of Metabolic Syndrome: Role of Gut Microbiota Metabolites. *Nutrients*. 2021 Apr 21;13(5):1389.
10. **Gasperi V***, Tullio V, Catani MV, Savini I. The Impact of Whole Grain Intake on Gastrointestinal Tumors: A Focus on Colorectal, Gastric, and Esophageal Cancers. *Nutrients*. 2020 Dec 29;13(1):E81. doi: 10.3390/nu13010081.
11. Catani MV, Savini I, **Gasperi V***. Molecular research on platelet activity in health and disease. *Int. J. Mol. Sci.* 2020,21, 3804.
12. **Gasperi V***, Catani MV, Savini I, Platelet Responses in Cardiovascular Disease: Sex-Related Differences in Nutritional and Pharmacological Interventions. *Cardiovascular Therapeutics* 2020,2342837
13. Catani MV, Savini I, Tullio V, **Gasperi V***. The “Janus Face” of Platelets in Cancer. *Int. J. Mol. Sci.* 2020, 21, 788.
14. **Gasperi V***, Vangapandu C, Savini I, Ventimiglia G, Adorno G, Catani MV. Polyunsaturated fatty acids modulate the delivery of platelet microvesicle-derived microRNAs into breast cancer cells. *J Nutr Biochem*. 2019 27;74:108242. doi: 10.1016/j.jnutbio.2019.108242.
15. De Cicco P, Catani MV, **Gasperi V**, Sibilano M, Quaglietta M, Savini I. Nutrition and Breast Cancer: A Literature Review on Prevention, Treatment and Recurrence. *Nutrients*. 2019 Jul 3;11(7). pii: E1514. doi: 10.3390/nu11071514
16. **Gasperi V***, Sibilano M, Savini I, Catani MV. Niacin in the central nervous system: an update of biological aspects and clinical applications. *Int J Mol Sci*. 2019. Feb 23;20(4). pii: E974. doi: 10.3390/ijms20040974.
17. Catani MV, **Gasperi V**, Bisogno T, Maccarrone M. Essential dietary bioactive lipids in neuroinflammatory diseases. *Antioxid Redox Signal*. 2018 1;29(1):37-60. doi: 10.1089/ars.2016.6958
18. **Gasperi V**, Vangapandu C, Catani MV, & Savini I. *Nutrigenomics eLS*. John Wiley & Sons, Ltd: Chichester. 2017. DOI: 10.1002/9780470015902.a0021027.
19. Savini I. **Gasperi V**, Catani MV. *Nutrigenetics*. In: *eLS*. John Wiley & Sons, Ltd: Chichester. 2016. DOI: 10.1002/9780470015902.a0021028
20. Catani VM, **Gasperi V***. Assay of CB1 Receptor Binding. *Methods Mol Biol*. 2016; 1412:41-55. doi: 10.1007/978-1-4939-3539-0_5
21. Savini I, **Gasperi V**, Catani MV, Oxidative stress and obesity. *Obesity-a practical guide*. In: Ahmad S., Imam S. (eds) *Obesity*. Springer, Cham 2016. Doi: 10.1007/978-3-319-19821-7_6
22. Catani MV, **Gasperi V**, Savini I, Del Principe D. Platelets and their disorders. In *eLS*. John Wiley & Sons, Ltd: Chichester 2015. doi:10.1002/9780470015902.a0002253.
23. Vangapandu C, **Gasperi V**, Catani MV, & Savini I. Obesity and gastrointestinal malignancies. *Reviews In Gastroenterology, Hepatology And Nutrition*. 2015. 2(1), 47-56.
24. **Gasperi V**, Evangelista D, Savini I, Del Principe D, Avigliano L, Maccarrone M, Catani MV. Downstream effects of endocannabinoid on blood cells: implications for health and disease. *Cell Mol Life Sci*. 2015. 2015 72(17):3235-3252.
25. **Gasperi V**, Evangelista D, Oddi S, Florenzano F, Chiurchiù V, Avigliano L, Catani MV, Maccarrone M. Differential regulation of inflammation and proliferation of human bladder carcinoma cells by type-1 and type-2 cannabinoid receptors. *Life Sciences*. 2015; 138:41-51. doi: 10.1016/j.lfs.2014.09.031
26. **Gasperi V**, Avigliano L, Evangelista D, Oddi S, Chiurchiù V, Lanuti M, Maccarrone M, Catani MV. 2-Arachidonoylglycerol enhances platelet formation from human megakaryoblasts. *Cell Cycle*. 2014 15;13(24):3938-47.
27. **Gasperi V***, Rapino C, Battista N, Bari M, Mastrangelo N, Angeletti S, Dainese E, Maccarrone M. A Functional Interplay between 5-Lipoxygenase and μ -Calpain Affects Survival and Cytokine Profile of Human Jurkat T Lymphocyte Exposed to Simulated Microgravity. *BioMed Research International* 2014;2014: 782390.
28. **Gasperi V**, Evangelista D, Chiurchiù V, Florenzano F, Savini I, Oddi S, Avigliano L, Catani MV, Maccarrone M. 2-Arachidonoylglycerol modulates human endothelial cell/leukocyte interactions by controlling selectin expression through CB(1) and CB(2) receptors. *Int J Biochem Cell Biol*. 2014 8;51C:79-88.
29. Tantimonaco M, Ceci R, Sabatini S, Catani MV, Rossi A, Maccarrone M, **Gasperi V**. Physical activity and the endocannabinoid system: an overview. *Cell Mol Life Sci*. 2014. 71(14):2681-98.
30. **Gasperi V***, Ceci R, Tantimonaco M, Talamonti E, Battista N, Parisi A, Florio R, Sabatini S, Rossi A, Maccarrone M. The fatty acid amide hydrolase in lymphocytes from sedentary and active subjects. *Med Sci Sports Exerc*. 2014;46(1):24-32
31. Savini I, Catani MV, Evangelista D, **Gasperi V**, Avigliano L. Obesity-associated oxidative stress: strategies finalized to improve redox state. *Int J Mol Sci*. 2013. 21;14(5):10497-538
32. **Gasperi V***, Dainese E, Oddi S, Sabatucci AL, Maccarrone M. GPR55 and its Interaction with Membrane Lipids: Comparison with other Endocannabinoid-Binding Receptors. *Curr Med Chem*. 2013;20(1):64-78.
33. Perrotta A, Arce-Leal N, Tassorelli C, **Gasperi V**, Sances G, Blandini F, Serrao M, Bolla M, Pierelli F, Nappi G, Maccarrone M, Sandrini G. Acute Reduction of Anandamide-Hydrolase (FAAH) Activity is Coupled With a Reduction of Nociceptive Pathways Facilitation in Medication-Overuse Headache Subjects After Withdrawal Treatment. *Headache*. 2012;52(9):1350-136
34. Bari M, Tedesco M, Battista N, Pasquariello N, Pucci M, **Gasperi V**, Scaldaferrì ML, Farini D, De Felici M, Maccarrone M. Characterization of the endocannabinoid system in mouse embryonic stem cells. *Stem Cells Dev*. 2011;20(1):139-47.
35. **Gasperi V**, Catani MV, Catanzaro G, Baldassarri S, Bertoni A, Sinigaglia F, Avigliano L, Maccarrone M. Human Platelets Express Authentic CB(1) and CB(2) Receptors. *Curr Neurovasc Res*. 2010. 7(4):311-8
36. Maccarrone M, **Gasperi V**, Catani MV, Diep TA, Dainese E, Hansen HS, Avigliano L. The endocannabinoid system and its relevance for nutrition. *Annu Rev Nutr*. 2010 21;30:423-40.

37. Greco R, **Gasperi V**, Maccarrone M, Tassorelli C. The endocannabinoid system and migraine. *Exp Neurol*. 2010; 224(1):85-91.
38. **Gasperi V**, Catani MV, Evangelista D, Finazzi Agrò A, Avigliano L, and Maccarrone M. Anandamide extends platelets survival through CB(1)-dependent Akt signaling. *Cell Mol Life Sci*. 2010;67(4):601-10.
39. Greco R, **Gasperi V**, Sandrini G, Bagezza G, Nappi G, Maccarrone M, Tassorelli C. Alterations of the endocannabinoid system in an animal model of migraine: evaluation in cerebral areas of rat. *Cephalalgia*. 2010. 30(3):296-302.
40. Centonze D, Bari, M, Di Michele B, Rossi S, **Gasperi V**, Pasini A, Battista N, Bernardi G, Curatolo P, and Maccarrone M. Altered anandamide degradation in attention-deficit/hyperactivity disorder. *Neurology* 2009. 72(17):1526-7.
41. Maccarrone M, De Chiara V, **Gasperi V**, Viscomi MT, Rossi S, Oddi S, Molinari M, Musella A, Finazzi-Agrò A, Centonze D. Lipid rafts regulate 2-arachidonoylglycerol metabolism and physiological activity in the striatum. *J Neurochem*. 2009. 109(2):371-81.
42. Catani MV, Fezza F, Baldassarri S, **Gasperi V**, Bertoni A, Pasquariello N, Finazzi-Agrò A, Sinigaglia F, Avigliano L, Maccarrone M. Expression of the endocannabinoid system in the bi-potential HEL cell line: commitment to the megakaryoblastic lineage by 2-arachidonoylglycerol. *J Mol Med*. 2009. 87(1):65-74
43. Turco MY, Matsukawa K, Czernik M, **Gasperi V**, Battista N, Della Salda L, Scapolo PA, Loi P, Maccarrone M, Ptak G. High levels of anandamide, an endogenous cannabinoid, block the growth of sheep preimplantation embryos by inducing apoptosis and reversible arrest of cell proliferation. *Hum Reprod*. 2008;23(10):2331-8.
44. De March Z, Zuccato C, Giampà C, Patassini S, Bari M, **Gasperi V**, De Ceballos ML, Bernardi G, Maccarrone M, Cattaneo E, Fusco FR. Cortical expression of brain derived neurotrophic factor and type-1 cannabinoid receptor after striatal excitotoxic lesions. *Neuroscience*. 2008;152(3):734-40.
45. Maccarrone M, Rossi S, Bari M, De Chiara V, Fezza F, Musella A, **Gasperi V**, Prosperetti C, Bernardi G, Finazzi-Agrò A, Cravatt BF, Centonze D. Anandamide inhibits metabolism and physiological actions of 2-arachidonoylglycerol in the striatum. *Nat Neurosci*. 2008;11(2):152-9.
46. Massi P, Valenti M, Vaccani A, **Gasperi V**, Perletti G, Marras E, Fezza F, Maccarrone M, Parolaro D. 5-Lipoxygenase and anandamide hydrolase (FAAH) mediate the antitumor activity of cannabidiol, a non-psychoactive cannabinoid. *J Neurochem*. 2008;104(4):1091-100.
47. Bari M, Oddi S, De Simone C, Spagnolo P, **Gasperi V**, Battista N, Centonze D, Maccarrone M. Type-1 cannabinoid receptors colocalize with caveolin-1 in neuronal cells. *Neuropharmacology*. 2008;54(1):45-50.
48. Battista N, Rapino C, **Gasperi V**, Finazzi-Agrò A, Maccarrone M. Effect of RNAi on lipoxygenase activity and expression, and immune cell apoptosis: opening the gate to the "ROALD" experiment aboard the space shuttle. *J Gravit Physiol*. 2007;14(1):P131-2.
49. Nucci C, **Gasperi V**, Tartaglione R, Cerulli A, Terrinoni A, Bari M, De Simone C, Agrò AF, Morrone LA, Corasaniti MT, Bagezza G, Maccarrone M. Involvement of the endocannabinoid system in retinal damage after high intraocular pressure-induced ischemia in rats. *Invest Ophthalmol Vis Sci*. 2007;48(7):2997-3004.
50. Varani K, Bachoud-Lévi AC, Mariotti C, Tarditi A, Abbracchio MP, **Gasperi V**, Borea PA, Dolbeau G, Gellera C, Solari A, Rosser A, Naji J, Handley O, Maccarrone M, Peschanski M, Di Donato S, Cattaneo E. Biological abnormalities of peripheral A(2A) receptors in a large representation of polyglutamine disorders and Huntington's disease stages. *Neurobiol Dis*. 2007; 27(1):36-43.
51. Centonze D, Rossi S, Prosperetti C, **Gasperi V**, De Chiara V, Bari M, Tschertner A, Febbraro F, Bernardi G, Maccarrone M. Endocannabinoids limit metabotropic glutamate 5 receptor-mediated synaptic inhibition of striatal principal neurons. *Mol Cell Neurosci*. 2007. 35(2):302-10.
52. **Gasperi V**, Fezza F, Pasquariello N, Bari M, Oddi S, Finazzi Agrò A, Maccarrone M. Endocannabinoids in Adipocytes during Differentiation and their Role in Glucose Uptake. *Cell Mol Life Sci*. 2006. 64(2):219-29
53. Mei G, Di Venere A, **Gasperi V**, Nicolai E, Masuda K, Finazzi-Agro' A, Cravatt B F, Maccarrone M. Closing the gate to the active site: Effect of the inhibitor MAFP on the conformation and membrane binding of fatty acid amide hydrolase. *J. Biol. Chem*. 2006. 282(6):3829-36.
54. **Gasperi V**, Rossi G, Paro R, Barsacchi D, Cecconi S, Maccarrone M. Follicle-Stimulating Hormone Activates Fatty Acid Amide Hydrolase by Protein Kinase A and Aromatase-Dependent Pathways in Mouse Primary Sertoli Cells. *Endocrinology*. 2006. 148(3):1431-9.
55. Spoto B, Fezza F, Parlongo G, Battista N, Sgro' E, **Gasperi V**, Zoccali C, Maccarrone M. Human adipose tissue binds and metabolizes the endocannabinoids anandamide and 2-arachidonoylglycerol. *Biochimie*. 2006; 88(12):1889-97.
56. Maccarrone M, Fiori A, Bari M, Granata F, **Gasperi V**, De Stefano ME, Finazzi-Agro A, Strom R. Regulation by cannabinoid receptors of anandamide transport across the blood-brain barrier and through other endothelial cells. *Thromb Haemost*. 2006; 95(1):117-27.
57. Dainese E, **Gasperi V**, Maccarrone M. Partial QSAR analysis of some selected natural inhibitors of FAAH suggests a working hypothesis for the development of endocannabinoid-based drugs. *Curr Drug Targets CNS Neurol Disord*. 2005; 4(6):709-14.
58. Catani, MV, Fezza, F, **Gasperi V**, Del Principe D, Finazzi Agrò A, Maccarrone M, Avigliano L. "Endocannabinoids and platelets – Signalling pathways. 2005 *Ital. J. Biochem*. 54: 4.07.
59. Catani, MV, Fezza, F, **Gasperi V**, Sinigaglia F, Finazzi Agrò A, Avigliano L, Maccarrone M. "Endocannabinoids and platelets – Differentiation". 2005 *Ital. J. Biochem*. 54: 4.06.
60. Maccarrone M, Bari M, **Gasperi V**, Demmig-Adams B. The photoreceptor protector zeaxanthin induces cell death in neuroblastoma cells. *Anticancer Res*. 2005; 25(6B):3871-6.

61. Bari M, Battista N, Fezza F, **Gasperi V**, Maccarrone M. New Insights into Endocannabinoid Degradation and Its Therapeutic Potential". *Mini Reviews in Medicinal Chemistry*. 2005; 6(3):257-68.
62. Maccarrone M, Barboni B, Paradisi A, Bernabo' N, **Gasperi V**, Pistilli MG, Fezza F, Lucidi P, and Mattioli M. Characterization of the Endocannabinoid System in Boar Spermatozoa and Implications for Sperm Capacitation and Acrosome Reaction". *J Cell Sci*. 2005;118 (Pt 19):4393-404.
63. **Gasperi V**, Fezza F, Spagnuolo P, Pasquariello N, Maccarrone M. Further Insights into the Regulation of Human FAAH by Progesterone and Leptin Implications for Endogenous Levels of Anandamide and Apoptosis of Immune and Neuronal Cells. *Neurotoxicology*. 2005; (26) 811-817.
64. Fezza F, **Gasperi V**, Mazzei C, Maccarrone M. Radiochromatographic assay of N-acyl-phosphatidylethanolamine-specific phospholipase D activity. *Anal Biochem*. 2005; 339 (1):113-20.
65. Battista N, **Gasperi V**, Fezza F, Maccarrone M. The anandamide membrane transporter and the therapeutic implications of its inhibition. *Therapy*. 2005; 2 (1): 141-150.
66. Maccarrone M, **Gasperi V**, Fezza F, Finazzi-Agrò A, Rossi A. Differential regulation of fatty acid amide hydrolase promoter in human immune cells and neuronal cells by leptin and progesterone. *Eur J Biochem*. 2004; 271(23-24):4666-76.
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