

## *Curriculum Vitae*

*Name:* Rosalia Pellitteri

*Citizenship:* Italian

*Languages:* Italian, English

*Addresses:* Institute for Biomedical Research and Innovation (IRIB)

Via Paolo Gaifami, 18

95126 Catania (Italy)

phone: +39 095 7338131

fax: +39 095 7338110

*e-mail:* [rosalia.pellitteri@cnr.it](mailto:rosalia.pellitteri@cnr.it)

*Accademic qualification:* Researcher at National Research Council of Italy (CNR), Institute for Biomedical Research and Innovation (IRIB).

### *Degrees:*

1980: High school Diploma

1985: Degree in Biological Sciences (110/110) at University of Catania (Italy) with thesis in Physiology entitled: Functional and morphological study of trigeminal projections to the cerebellar nuclei.

1991: PhD in Physiology and Biochemistry at University of Catania with a thesis entitled: Functional neuroanatomy of neurons branching of pontine reticular nuclei.

### *Training:*

1988-1991: Ph.D program in Physiology and Biochemistry at University of Catania.

1990: Research activity at Institute of Neurobiology – NRC in Rome (Italy) to study cell culture techniques.

1991-1992: Research activity at Physiological Laboratory at Cambridge University (UK) to learn the technique of tissue culture of the nervous system.

1993-1994 PostDoc in Physiology and Biochemistry at University of Catania.

1995-1996 Grant NRC at Genoa University (Italy) where she studied the effect of Schwann cells on neurons *in vitro*.

1997-2003: Research activity at Department of Physiological Sciences of Catania University.

2004-today: researcher at National Research Council of Italy (CNR), Institute for Biomedical Research and Innovation (IRIB).

*Scientific activity:* research in neurobiology and neuroanatomy.

- 1) Functional neuroanatomy of direct and collateralized axonal projections within the CNS with administration of retrograde fluorescent substances, such as Fluoro Gold, Fast Blue, Dil;
- 2) Immunohisto and -cytochemical techniques;
- 3) Behavioral analysis;
- 4) Effect of trophic or growth factors on development and survival of CNS neurons *in vitro*;
- 5) Interaction between neurons and glial cells (Schwann cell and Olfactory Ensheathing cells);
- 6) Fluorescence and Confocal Microscopy.

At the present she conducts the following lines of ongoing research:

- 1) Phenotypic characterization and protective effects of olfactory glial cells, Olfactory Ensheathing Cells (OECs);
- 2) Protective effect of phyto-molecules on olfactory glial cells (OECs) cultured *in vitro* exposed to cytotoxicity by beta-amyloid fragments;

- 3) Cyto-compatibility of polymer nano-particles and their uptake at the cellular level, for the intranasal transport of drugs used for the treatment of CNS pathologies (epilepsy).
- 4) Biocompatibility between silicon supports and stem cells (dental pulp cells and OECs) as a possible regenerative model in damaged areas of the Nervous System.
- 5) Differentiation of stem cells derived from human adipose tissue stimulated by conditioned media from glial cells (OECs and Schwann cells) towards neural phenotypes.

*Collaborations:*

- Department of Biomedical and Biotechnological Sciences, Section of Physiology, University of Catania, (Italy).
- Department of Drug and Health Sciences, University of Catania, Catania, Italy
- Dep. of Pharmaceutical Sciences, University of Catania (Italy).
- Inst. Auxologico Italian-IRCCS of Milan (Italy).
- Department of Pharmacy-Drug Sciences, University of Bari (Italy).
- Department of Anatomía, Histología y Neurociencia, Universidad Autónoma de Madrid, (Spain).

She is member of the Italian Society for Neuroscience (SINS) and she is member of the board of directors of the Italian Group for the Study of Neuromorphology (GISN).

2007: Organization of XVII National Meeting of the Italian Group for the study of Neuromorphology (GISN).

From 2009 to May 31, 2019, she was a member of the Council of the Institute.

She has participated in several national and international congresses.

She is reviewer for several international neuroscience journals.

In addition, Dr. Pellitteri holds the position of expert on the subject in Integrative Physiology, Neurobiology (scientific-disciplinary sector Bio / 09) within the Degree Course in Health Biology.

In the A.Y. 2010-2011 she had a teaching assignment of Neurobiology at the Faculty of Sciences, specialist degree course in Health Biology at the University of Catania. In the A.Y. 2015-2016 she was awarded a teaching in food and human nutrition at the Faculty of Sciences, specialist degree course in Health Biology of the University of Catania.

She is co-supervisor of several degree thesis.

## **GRANTS**

-PRIN 2010-2011 (prot. 2010H834LS\_005). Title: Advanced technologies for the delivery of pharmacologically active molecules through the organism's biological barriers. In collaboration with University of Catania (Italy).

-FIR 2014 (cod. n. 764AAD) Title: Delivery of antioxidants using lipid nanocarriers for the treatment of neurodegenerative diseases associated with mitochondrial dysfunctions. In collaboration with University of Catania (Italy).

- Assignment to carry out activities on the "DNA on Disk: Platform and diagnostic kits for human health in oncology, neurology and infectious diseases and diseases related to poverty" (Prot. n. 002389 del 18-12-2013).

-Participation in the project "Development and integration of innovative methodologies and skills in genomics and proteomics for the diagnosis and treatment of diseases of the nervous system" (Prot. n. 002733 del 21-11-2014).

-PRIN 2015 (Prot. n. 2015SKN9YT). Title: Stress in adolescence: from cognitive alterations to susceptibility to psychiatric pathologies. In collaboration with the University of Catania (Italy).

## Elenco delle pubblicazioni

1. Origine delle proiezioni afferenti al complesso basolaterale dell'amigdala ed al nucleo dorsale del rafe. Studio mediante marcatura con traccianti fluorescenti. (G. Leanza, **R. Pellitteri**, A. Russo e S. Stanzani). Boll. Soc. It. Biol. Sper. 1986, n. 6 vol. LXII, 793-798.
2. Proiezioni afferenti al "Raphe Pontino" ed alla "Zona Incerta". Studio effettuato mediante marcatura con traccianti fluorescenti. (G. Leanza, **R. Pellitteri**, A. Russo, S. Stanzani). Boll. Soc. It. Biol. Sper. 1986, n. 11 vol. LXII, 1389-93.
3. Branching axons from Subcoeruleus area project to the nucleus Raphe Pontis and Hypothalamic Zona Incerta, as studied with the double fluorescent retrograde tracing technique. (G. Leanza, **R. Pellitteri**, A. Russo and S. Stanzani). Neuroscience Letters, 1988, 92, 132-136.
4. Branching projections from Subcoeruleus area neurons to medial preoptic area and cervical spinal cord revealed by double retrograde neuronal labeling. (G. Leanza, **R. Pellitteri**, A. Russo and S. Stanzani). Neuroscience letters, 1989, 103, 11-16. I.F.
5. Intrathecal TRH-T after lesions of the rat spinal cord. Effects on neurological recovery and on ir-dynorphin B. (S. Stanzani, G. Leanza, A. Russo, **R. Pellitteri**, T. Bachetti, M. Canossa and S. Spampinato). Neuroscience Res. Comm. 1990, 7, No.3, 191-200.
6. Neurons in Raphe Nuclei Pontis and Magnus have branching axons that project to Medial Preoptic area and cervical spinal cord. A fluorescent retrograde double labeling study in the rat. (G. Leanza, **R. Pellitteri**, A. Russo and S. Stanzani). Neuroscience Letters, 1991, 123, 195-199.
7. Basic fibroblast growth factor promotes the survival of embryonic ventral mesencephalic dopaminergic neurons -1. Effects "in vitro". (E. Mayer, S.B. Dunnett, **R. Pellitteri** and J.W. Fawcett). Neuroscience, 1993, 2, 379-388.
8. Activation of metabotropic glutamate receptors protects cultured neurons against apoptosis induced by  $\beta$ -amyloid peptide. (A. Copani, V. Bruno, G. Battaglia, G. Leanza, **R. Pellitteri**, A. Russo, S. Stanzani and F. Nicoletti) Mol. Pharmacology 1995, May 47(5), 890-7.
9. Branching serotonergic and non-serotonergic branching projections from caudal brainstem to the medial preoptic area and lumbar spinal cord in the rat. (G. Leanza, S. Perez, **R. Pellitteri**, A. Russo e S. Stanzani) Neuroscience Lett. 1995, 200, 5-8.
10. Schwann cells derived-factors support serotonergic neurons survival and promote neurite outgrowth. (**R. Pellitteri**, A. Zicca, G.L. Mancardi, T. Savio and A. Cadoni) Europ. J. Histochem. (2001), 45, 367-376.
11. Branching projections of catecholaminergic ventrolateral reticular neurons to the fastigial nucleus and superior colliculus: triple labelling procedure. (S. Stanzani, A. Russo, **R. Pellitteri**, G. Storaci, T. Cataudella) Neurosc. Lett. (2001), 307, 135-138.
12. Chromogranin A expression in human colonic adenocarcinoma. (R. Romeo, **R. Pellitteri**, and M.F. Marcello) It. J. Anat. Embryol. (2002), 107(3), 177-183.
13. Olfactory-hypoglossal connections. (O. Mameli, A. Russo, R. Borke, F. Melis, M.A. Caria, **R. Pellitteri**, C. Tavera, S. Stanzani). Pflugers Archiv- Europ. J. of Physiol. 2003, 445, 705-715.
14. Serotonergic collateralized projections from Barrington's nucleus to the medial preoptic area and lumbo-sacral spinal cord. (Russo A, Monaco S, Romeo R, **Pellitteri R**, Stanzani S.) Brain Res. (2004) 1019 (1-2): 64-7.
15. Catecholaminergic phenotype of human Leydig cells. (R. Romeo, **R. Pellitteri**, A. Russo and M.F. Marcello) It. J. Anat. Embryol. (2004), 109 (1), 45-54.
16. "In vitro" postnatal expression of 5-HT(7) receptors in the rat hypothalamus: an immunohistochemical analysis. (Russo A, **Pellitteri R**, Monaco S, Romeo R, Stanzani S.) Brain Res Dev Brain Res. (2005) 154 (2): 211-216.

17. Branching projections of ventrolateral reticular neurons to the medial preoptic area and lumbo-sacral spinal cord. (Russo A, **Pellitteri R**, Romeo R, Stanzani S and Jean A) *Behav. Brain Function* (2005) 1:17-22.
18. Schwann Cell: a source of neurotrophic activity on cortical glutamatergic neurons in culture. (**Pellitteri R.**, Russo A., Stanzani S.) *Brain Res.* (2006), 1069, 139-144.
19. Role of the trigeminal nerve on regrowth of hypoglossal motoneurons after hypoglossal-facial anastomosis.(O.Mameli, **R. Pellitteri**, A. Russo, S. Stanzani, M. Alessandro Caria, P.L.De Riu) *Acta Oto-Laryngologica* (2006), 126 (12):1334-8.
20. Olfactory ensheathing cells exert a trophic effect on the hypothalamic neurons "in vitro". (**R.Pellitteri**, M. Spatuzza,A. Russo, S. Stanzani) *Neurosci. Letters*, 2007, 417 (1):24-29.
21. Expression of Pannexin 2 protein in healthy and ischemized brain of adult rats. (Zappalà A., Li Voti G., Serapide M.F., **Pellitteri R.**, Falchi M., La Delia F., Cicirata V. and Cicirata F.) *Neurosci.*, 2007, 148(3):653-667.
22. Hypoglossal nuclei participation in rat mystacial pad control. (Mameli O, Stanzani S, Russo A, Romeo R, **Pellitteri R**, Spatuzza M, Caria MA, De Riu PL) *Pflugers Arch.* 2008, 456(6):1189-98.
23. Induction of nuclear receptors and drug resistance in the brain microvascular endothelial cells treated with antiepileptic drugs. (Lombardo L, Pellitteri R, Balazy M, Cardile V.) *Curr Neurovasc Res.* 2008, 5(2):82-92.
24. Primary afferent plasticity following deafferentation of the trigeminal brainstem nuclei in the adult rat. (De Riu PL, Russo A., **Pellitteri R**, Stanzani S, Tringali G, Roccazzello AM, De Riu G, Marongiu P, Mameli O) *Exper. Neurol.*, (2008), 213(1):101-7.
25. Hypoglossal nucleus projections to the rat masseter muscle. (O. Mameli, S. Stanzani, A. Russo, **Pellitteri R**, Spatuzza M, Caria M.A., Mulliri G., P.L. De Riu) *Br. Res.* 2009, 1283: 34-40.
26. Olfactory ensheathing cells represent an optimal substrate for hippocampal neurons: an in vitro study. (**Pellitteri R**, Spatuzza M, Russo A, Zaccheo D, Stanzani S.) *Int J Dev Neurosci.* 2009; 27(5):453-458.
27. Biomarkers expression in rat olfactory ensheathing cells. (**R. Pellitteri**, M. Spatuzza, S. Stanzani and D. Zaccheo) *Frontiers in Bioscience* 2010, 2: 289-298.
28. Role of the trigeminal mesencephalic nucleus in rat whisker pad proprioception (O. Mameli, S. Stanzani, G. Mulliri, **R. Pellitteri**, M.A. Caria, A. Russo, P.G. De Riu) *Behav. Brain Function*, 2010, 6: 69-79.
29. Tin chloride enhances parvalbumin-positive interneuron survival by modulating heme metabolism in a model of cerebral ischemia. (Li Volti G, Zappalà A, Leggio GM, Mazzola C, Drago F, La Delia F, Serapide MF, **Pellitteri R**, Giannone I, Spatuzza M, Cicirata V, Cicirata F.) *Neurosci Lett.* 2011, 492(1):33-38.
30. Markers of Stem Cells in Gliomas. (P. Dell'Albani, **R. Pellitteri**, E.M. Tricarichi, S. D'Antoni, A. Berretta, and M.V. Catania) in: *Tumors of the Central Nervous System, Vol. 1 chapter 19*, (2011) M.A. Hayat (ed.), Springer Science.
31. Expression of tissue transglutaminase on primary olfactory ensheathing cells cultures exposed to stress conditions. (Campisi A, Spatuzza M, Russo A, Raciti G, Vanella A, Stanzani S, **Pellitteri R**) *Neurosci Res.* 2012, 72(4):289-95.
32. Differentiation of Human Adipose Stem Cells into Neural Phenotype by Neuroblastoma-or Olfactory Ensheathing Cells-Conditioned Medium (D Lo Furno, **R Pellitteri**, A. Graziano, R. Giuffrida, C. Vancheri, E. Gili, V. Cardile) *J. Cell. Physiol.*, 228: 2109–2118, 2013.
33. Evaluation of new amphiphilic PEG derivatives for preparing stealth lipid nanoparticles. (R. Pignatello, A. Leonardi, **R. Pellitteri**, C. Carbone, S. Caggia, A. C. Graziano, V. Cardile) *Colloids and Surfaces A: Physicochem. Eng. Aspects* 434 (2013) 136– 144.

34. Endothelin-1 is over-expressed in amyotrophic lateral sclerosis and induces motor neuron cell death. (Ranno E, D'Antoni S, Spatuzza M, Berretta A, Laureanti F, Bonaccorso CM, **Pellitteri R**, Longone P, Spalloni A, Iyer AM, Aronica E, Catania MV). *Neurobiol Dis.* 2014;65C:160-171.
35. Differential patterns of notch-1-4 receptor expression are markers of glioma cell differentiation. (P.Dell'Albani, M. Rodolico, **R. Pellitteri**, E. Tricarichi, S.A. Torrissi, S. D'Antoni, M. Zappia, V. Albanese, R. Caltabiano, N. Platania, E. Aronica and M.V. Catania). *Neuro-Oncology*, 2014 *Neuro Oncol.* 2014 16(2):204-16.
36. Involvement of trigeminal mesencephalic nucleus in kinetic encoding of whisker movements. (O. Mameli, S. Stanzani, A. Russo, **R. Pellitteri**, P.Manca, P.L. De Riu, M. A.Caria) *Br Res Bull*, 2014 Feb 8;102C:37-45.
37. Nose-to-Brain delivery: evaluation of polymeric nanoparticles on Olfactory Ensheathing Cells uptake. (Musumeci T. , **Pellitteri R.**, Spatuzza M. and Puglisi G.) *J. Pharm. Sci.* 2014, 103(2):628-35.
38. Characterization of Glial Cell Models and In Vitro Manipulation of the Neuregulin1/ErbB System. (D. Pascal, A. Giovannelli, S. Gnavi, S. A. Hoyng, F. de Winter, M. Morano, F. Fregnan, P. Dell'Albani, D. Zaccheo, I. Perroteau, **R. Pellitteri** and G. Gambarotta) *BioMed Research International*. 2014, Article ID 310215, 15 pages <http://dx.doi.org/10.1155/2014/310215>.
39. Viability of olfactory ensheathing cells after hypoxia and serum deprivation: implication for therapeutic transplantation (**R. Pellitteri**, MV Catania, CM. Bonaccorso, E. Ranno, P. Dell'Albani, D. Zaccheo). *J. Neurosc. Reserch*, 2014, 92(12):1757-66.
40. Olfactory ensheathing cells protect cortical neurons cultures exposed to hypoxia. (**R. Pellitteri**, A. Russo, S. Stanzani and D. Zaccheo). *CNS Neurological Disorders-Drug Targets*, 2015, 14, 68-76.
41. Mechanical deflection of macrovibrissae induces in rats activation of trigeminal mesencephalic nucleus neurons. (Russo A., Stanzani S, **Pellitteri R.**, Caria M.A., Mameli O) *J. Biol. Res.*, 2015, 88, 129-130.
42. Phenotypic Modulation and Neuroprotective Effects of Olfactory Ensheathing Cells: a Promising Tool for Cell Therapy. (**Pellitteri R**, Cova L, Zaccheo D, Silani V, Bossolasco P.) *Stem Cell Rev.* 2016, 12(2):224-34.
43. Evidence for a trigeminal mesencephalic-hypoglossal nuclei loop involved in controlling vibrissae movements in the rat. (Mameli O., Caria M.A., **Pellitteri R.**, Russo A., Saccone S., Stanzani S.). *Exp Brain Res.* 2016, 234(3):753-61.
44. The antineoplastic drug flavopiridol reverses memory impairment induced by Amyloid- $\beta$ 1-42 oligomers in mice. (Leggio GM, Catania MV, Puzzo D, Spatuzza M, **Pellitteri R**, Gulisano W, Torrissi SA, Giurdanella G, Piazza C, Impellizzeri AR, Gozzo L, Navarria A, Bucolo C, Nicoletti F, Palmeri A, Salomone S, Copani A, Caraci F, Drago F.) *Pharmacol Res.* 2016, 106:10-20.
45. Effect of some growth factors on tissue transglutaminase overexpression induced by  $\beta$ -amyloid in olfactory ensheathing cells. (**Pellitteri R**, Bonfanti R, Spatuzza M, Cambria MT, Ferrara M, Raciti G and Campisi A.) *Molec Neurobiol*, 2017, 54:6785–6794.
46. The protective effect of curcumin in Olfactory Ensheathing Cells exposed to hypoxia. (Bonfanti R, Musumeci T, Russo C, **Pellitteri R.**) *Eur J Pharmacol.* 2017, 796:62-68.
47. Nose to brain delivery in rats: Effect of surface charge of rhodamine B labeled nanocarriers on brain subregion localization. (Bonaccorso A, Musumeci T, Serapide MF, **Pellitteri R**, Uchehgbu IF, Puglisi G.) *Colloids Surf B Biointerfaces.* 2017, 154:297-306.
48. Inhibition of Cx43 mediates protective effects on hypoxic/reoxygenated human neuroblastoma cells (Vicario N., Calabrese G., Zappalà A., Parenti C., Forte S., Graziano A.C.E., Vanella L., **Pellitteri R.**, Cardile V., Parenti R.) *J. Cell. and Mol. Medicine*, 2017 DOI: 10.1111/jcmm.13177.

49. Hippocampal Ghrelin-positive neurons directly project to arcuate hypothalamic and medial amygdaloid nuclei. Could they modulate food-intake? (Russo C., Russo A., **Pellitteri R.**, Stanzani S.) *Neurosc. Lett.* 2017, 653:126-131.
50. Effects of different musical frequencies on NPY and Ghrelin secretion in the rat hypothalamus. (Russo C., Russo A., Gulino R., **Pellitteri R.**, Stanzani S.) *Brain Res Bull.* 2017, 132:204-212.
51. NMR Metabolomics for Stem Cell type discrimination. (Castiglione F, Ferro M, Mavroudakis E, **Pellitteri R**, Bossolasco P, Zaccheo D, Morbidelli M, Silani V, Mele A, Moscatelli D, Cova L). *Sci Rep.* 2017 7(1):15808. doi: 10.1038/s41598-017-16043-8.
52. Ghrelin-containing neurons in the olfactory bulb send collateralized projections into medial amygdaloid and arcuate hypothalamic nuclei: neuroanatomical study. (Russo C, Russo A, **Pellitteri R**, Stanzani S). *Exp Brain Res.* 2018 236(8):2223-2229. doi: 10.1007/s00221-018-5298-z.
53. Neural differentiation of human adipose-derived mesenchymal stem cells induced by glial cell conditioned media. (Lo Furno D, Mannino G, Giuffrida R, Gili E, Vancheri C, Tarico MS, Perrotta RE, **Pellitteri R**). *J Cell Physiol.* 2018 233(10):7091-7100. doi: 10.1002/jcp.26632.
54. Oxcarbazepine free or loaded PLGA nanoparticles as effective intranasal approach to control epileptic seizures in rodents. (Musumeci T, Francesca Serapide M, **Pellitteri R**, Dalpiaz A, Ferraro L, Dal Magro R, Bonaccorso A, Carbone C, Veiga F, Sancini G, Puglisi G.) *Eur J Pharm Biopharm.* 2018 133: 309-320. doi: 10.1016/j.ejpb.2018.11.002.
55. Conditioned Media From Glial Cells Promote a Neural-Like Connexin Expression in Human Adipose-Derived Mesenchymal Stem Cells.(Lo Furno D, Mannino G, **Pellitteri R**, Zappalà A, Parenti R, Gili E, Vancheri C, Giuffrida R) *Front. Physiol.* 9:1742. Doi: 10.3389/fphys.2018.01742
56. Biocompatibility between Silicon or Silicon Carbide surface and Neural Stem Cells. (Bonaventura G., Iemmolo R, La Cognata V, Zimbone M, La Via F, Barcellona ML, **Pellitteri R**, Cavallaro S.) *Scientific Reports*, 2019, *Sci Rep.* 2019, 9(1):11540.
57. Delayed Luminescence for in vitro study of mitochondrial dysfunctions in neurodegenerative diseases. (Grasso R, **Pellitteri R**, Musumeci F, Rapicavoli V, Sposito G, Triglia A, Scordino A, Campisi A.) *Proc. of SPIE*, 2019, Vol. 11075 110750K-1
58. Olfactory Ensheathing Cells express both Ghrelin and Ghrelin Receptor in vitro: a new hypothesis in favor of a neurotrophic effect. (Russo C, Patanè M, Vicario N, Di Bella V, Cosentini I, Barresi V, Gulino R, **Pellitteri R**, Russo A, Stanzani S.) *Neuropeptides*, 2020, vol. 79, p. 1-9.
59. Dental Mesenchymal Stem Cells and neuro-regeneration: a focus on Spinal Cord Injury (Bonaventura G, Incontro S, Iemmolo R, La Cognata V, Barbagallo I, Costanzo E, Barcellona ML, **Pellitteri R**, Cavallaro S.) *Cell and Tissue Res*, 2020, 379(3):421-428.
60. Dynamic changes in cytoskeleton proteins of olfactory ensheathing cells induced by radiofrequency electromagnetic fields. (Grasso R, **Pellitteri R**, Caravella SA, Musumeci F, Raciti G, Scordino A, Sposito G, Triglia A, Campisi A.) *J. Exp Biol.* 2020 doi: 10.1242/jeb.217190
61. Optimization of Curcumin Nanocrystals as Promising Strategy for Nose-to-Brain Delivery Application (A. Bonaccorso, MR. Gigliobianco, **R. Pellitteri**, D. Santonocito, C. Carbone, P. Di Martino, G. Puglisi and T. Musumeci) *Pharmaceutics* 2020, 12(5):476. doi:10.3390/pharmaceutics12050476.
62. Synthesis and characterization of novel chitosan-dopamine or chitosan-tyrosine conjugates for potential nose-to-brain delivery. (Cassano R, Trapani A, Di Gioia ML, Mandracchia D, **Pellitteri R**, Tripodo G, Trombino S, Di Gioia S, Conese M). *International Journal Pharmaceutics*, 2020, 589:119829.
63. Effects of Ghrelin on Olfactory Ensheathing Cell Viability and Neural Marker Expression. (Russo C, Patanè M, Russo A, Stanzani S, **Pellitteri R**) *J. Mol. Neurosci.* 2021, 71(5), 963-971.

64. Prenatal music exposure influences weight, ghrelin expression, and morphology of rat hypothalamic neuron cultures. (Russo C, Patanè M, **Pellitteri R**, Stanzani S, Russo A.) *Int J Dev Neurosci.* 2021, 81(2):151-158.
65. Curcumin Loaded Polymeric vs. Lipid Nanoparticles: Antioxidant Effect on Normal and Hypoxic Olfactory Ensheathing Cells. (Bonaccorso A, **Pellitteri R**, Ruozi B, Puglia C, Santonocito D, Pignatello R, Musumeci T.) *Nanomaterials (Basel).* 2021, 11(1):159.
66. Ghrelin peptide improves glial conditioned medium effects on neuronal differentiation of human adipose mesenchymal stem cells. (Russo C, Mannino G, Patanè M, Parrinello NL, **Pellitteri R**, Stanzani S, Giuffrida R, Lo Furno D, Russo A.) *Histochem Cell Biol.* 2021, doi: 10.1007/s00418-021-01980-3.
67. Amyloid-Beta Induces Different Expression Pattern of Tissue Transglutaminase and Its Isoforms on Olfactory Ensheathing Cells: Modulatory Effect of Indicaxanthin. (Campisi A, Raciti G, Sposito G, Grasso R, Chiacchio MA, Spatuzza M, Attanzio A, Chiacchio U, Tesoriere L, Allegra M, **Pellitteri R**.) *Int J Mol Sci.* 2021,22(7):3388.
68. Dopamine-loaded lipid based nanocarriers for intranasal administration of the neurotransmitter: A comparative study. (Trapani A, De Giglio E, Cometa S, Bonifacio MA, Dazzi L, Di Gioia S, Hossain MN, **Pellitteri R**, Antimisiaris SG, Conese M.) *Eur J Pharm Biopharm* 2021, 167:189-200.
69. mPEG-PLGA Nanoparticles Labelled with Loaded or Conjugated Rhodamine-B for Potential Nose-to-Brain Delivery. (Craparo EF, Musumeci T, Bonaccorso A, **Pellitteri R**, Romeo A, Naletova I, Cucci LM, Cavallaro G, Satriano C.) *Pharmaceutics*, 2021, 13(9):1508.
70. Effect of Unloaded and Curcumin-Loaded Solid Lipid Nanoparticles on Tissue Transglutaminase Isoforms Expression Levels in an Experimental Model of Alzheimer's Disease (A. Campisi, G. Sposito, **R. Pellitteri**, D. Santonocito, J. Bisicchia, G. Raciti, C. Russo, P. Nardiello, R. Pignatello, F. Casamenti and C. Puglia). *Antioxidants* 2022, 11, 1863. <https://doi.org/10.3390/antiox11101863>.
71. Early Life Stress (ELS) Effects on Fetal and Adult Bone Development. (Pappalardo XG, Testa G, **Pellitteri R**, Dell'Albani P, Rodolico M, Pavone V, Parano E.) *Children (Basel).* 2023, 10(1):102. doi: 10.3390/children10010102.
72. Nanonized carbamazepine for nose-to-brain delivery: pharmaceutical formulation development. (Bonaccorso A, Gigliobianco MR, Lombardo R, **Pellitteri R**, Di Martino P, Mancuso A, Musumeci T. *Pharm Dev Technol.* 2023, 28(2):248-263. doi: 10.1080/10837450.2023.2177673..

Chapter in the book:

**Pellitteri R.** and Spatuzza M. ANATOMIA DEL SISTEMA NERVOSO CENTRALE E PERIFERICO in *Neurologia Pediatrica*, Edra S.p.A. 2023.

According to law 679/2016 of the Regulation of the European Parliament of 27<sup>th</sup> April 2016, I hereby express my consent to process and use my data provided in this CV".