

ALLEGATO B

Decreto Rettore Università di Roma “La Sapienza” n 2032/2023 del 26/07/2023, codice bando 2023POR035

Maria Teresa Fiorenza

Curriculum Vitae

Place: Rome

Date: August, 9 2023

Part I – General Information

Full Name	Maria Teresa Fiorenza
Date of Birth	omissis
Place of Birth	omissis
Fiscal Code	omissis
Citizenship	Italian
Permanent Address	omissis
Mobile Phone	omissis
E-mail	omissis
Spoken Languages	Italian (mother tongue), english (proficient written and spoken)

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
Laurea degree	1989	University “La Sapienza”, Rome, Italy	M.S. Biological Sciences, <i>summa cum laude</i>
PhD	1995	University of L’Aquila, Italy	Biotechnology

Part III – Appointments

III-a Academic Appointments

Start	End	Institution	Position
1999	2004	Department of Psychology, University “La Sapienza”, Rome	Assistant Professor (Ricercatore a tempo indeterminato)
2005	present	Department of Psychology, University “La Sapienza”, Rome	Associate Professor (Professore Associato, II Fascia)

III-b Other Appointments

Start	End	Institution	Position
1988	1992	University 'La Sapienza', Rome Italy. Dept of Histology and Medical Embryology	Pre-laurea and PhD student
1990	1990	Jackson Laboratory, Bar Harbor, Maine, USA	Short stage (3 months)
1992	1994	University of Copenhagen (DK), Dept of Molecular and Cell Biology	PhD traineeship
1995	1997	University 'La Sapienza', Rome Italy. Dept of Histology and Medical Embryology	Post-doctoral training
1998	1999	National Institute of Child Health and Development, NIH, Bethesda, MD, USA	Post-doctoral training
2000	2000	National Institute of Child Health and Development, National NIH, Bethesda, MD, USA	Visiting scientist (1 month)

III-c Academic/Institutional Responsibilities

Start	End	Institution	Position
2008	2014	Dept. of Psychology, University "La Sapienza", Rome	Member of the Executive Board (Giunta di Dipartimento)
2014	present	Organismo Preposto Benessere Animale, OPBA, Dept. Psychology, University "La Sapienza"	President of OPBA
2020	present	"Centro Sperimentazione Preclinica e Benessere Animale" SPBA, University "La Sapienza", Rome	Member of the Executive Board and Scientific Committee
2020	2022	Faculty of Medicine and Psychology	Member of the Executive Board (Giunta di Facoltà)
2019	2022	Dept. of Psychology, University "La Sapienza", Rome	Member of the Executive Board (Giunta di Dipartimento)
2022	present	Dept. of Psychology, University "La Sapienza", Rome	Member of the Research Committee
2020	present	LM Neuroscienze Cognitive e Riabilitazione Psicologica, Dept. of Psychology, University "La Sapienza", Rome	Coordinator for student mobility (Erasmus program)
2022	present	PhD program in Behavioral Neuroscience, Dept. of Psychology, University "La Sapienza", Rome	Coordinator for the Curriculum in Psychobiology and Psychopharmacology

Part IV – Teaching experience

IV-a Teaching – Degree Courses

Year	Institution	Lecture/Course
1999-2001	University “La Sapienza”, Rome	Biologia Generale, CL Psicologia, Facoltà di Psicologia; SSD BIO/13
2001-2010	University “La Sapienza”, Rome Facoltà di Psicologia 1	Fondamenti di Neurobiologia e Genetica (formerly Biologia Applicata alle Scienze Psicologiche), CL in Scienze e Tecniche Psicologiche per l’Analisi dei Processi Cognitivi Normali e Patologici (CFU 8), Facoltà di Psicologia 1; SSD BIO/13; Titolarità del corso dal 2005
2002-2014	University “La Sapienza”, Rome Dept. of Psychology	Neurobiologia - corso avanzato, LM in Neuroscienze Cognitive e Riabilitazione Psicologica (formerly Diagnosi e Valutazione dei Disturbi Cognitivi) [CFU 6+2(lab)]; SSD BIO/13; Titolarità del corso dal 2005
2014-present	University “La Sapienza”, Rome. Dept. of Psychology	Neurobiologia, LM in Neuroscienze Cognitive e Riabilitazione Psicologica (CFU 6; since 2021-2022 CFU 3); SSD BIO/13; Titolarità del corso dal 2005
2012-present	University “La Sapienza”, Rome, Facoltà di Medicina e Psicologia	Biologia, Laurea Triennale, CL in Psicologia e Salute (CFU 3); SSD BIO/13
2014-present	University “La Sapienza”, Rome, Dept. Psicologia Dinamica e Clinica	Neurobiologia dei disturbi psichici, LM in Psicopatologia Dinamica dello Sviluppo (CFU 6; since 2021-2022 CFU 3); SSD BIO/13; Titolarità del corso dal 2015
2016-2017	University “La Sapienza”, Rome, Facoltà di Medicina e Psicologia	Basi Cellulari e Molecolari della Vita, CL in Tecniche di radiologia medica, per immagini e radioterapia (CFU 1); SSD BIO/13
2018-present	University “La Sapienza”, Rome. Dept. of Psychology	Applied Neurobiology (formerly Cellular and Molecular Neurobiology), LM in Cognitive Neuroscience (CFU 6); SSD BIO/13; Titolarità del corso dal 2018
2021-present	University “La Sapienza”, Rome. Dept. of Psychology	Genetica Forense - Laboratorio ad alta Specializzazione, LM in Psicologia Giuridica, Forense e Criminologica (CFU 3); SSD BIO/18

IV-b Teaching quality evaluation (Valutazioni OPIS, OPInioni Studenti)

Based on the output of student assessment, courses evaluation is above the average compared to other specific LM courses and to other second level and Faculty courses.

A detail for the last two completed academic years (2021-2022 and 2022-2023) is provided in a specific attachment (see OPIS evaluation).

IV-c Teaching – PhD and Specialization Courses

2005-present	University “La Sapienza”,	Faculty Member of the PhD course in Behavioral Neuroscience, Curriculum in Psychobiology and Psychopharmacology
2021	University “La Sapienza”	Lecture: Pathogenic mechanisms of Niemann-Pick C disease: beyond the engorgement of lysosomes to altered brain development; Dottorato di ricerca in Morfogenesi e Ingegneria Tissutale (MIT)
2020	University “La Sapienza	Lecture: Il contributo dell'epigenetica alle differenze interindividuali; Dottorato in Psicologia e Neuroscienze Sociali
2019	University of “Roma Tre”	Lecture: Pathogenic mechanisms of Niemann-Pick C disease: beyond the engorgement of lysosomes to altered brain development and neurotransmission; Dottorato di ricerca in Scienze e Tecnologie Biomediche
2017	Scuola Medica Ospedaliera, Borgo S Spirito 3, Rome	Lecture: La Neuro-epigenetica nello studio del comportamento umano: la complessa interazione tra un unico genoma e molteplici epigenomi; Corso Tematico: Epigenetica delle Malattie Psichiatriche
2014-2020	University “La Sapienza”	Dottorato di ricerca in Neuroscienze del Comportamento: Lecture: The interplay between genetic polymorphisms and synaptic transmission. Lecture: Genetic and Epigenetic Mechanisms in neurodevelopmental disorders. Lecture: Neurodiversity: genetic and epigenetic perspectives
2015-2020; 2021-present	University “La Sapienza”, Dipartimento di Psicologia dei processi di sviluppo e socializzazione	“Elementi di Farmacologia”, SSD BIO/13, Specialization Course in “Psicologia del Ciclo di Vita”; CFU 3 (2015-2020); CFU 1 (2021-present)

IV-d Tutoring and Mentoring activities

Year	Title
2005-present	Tutoring and Supervising activity of Bachelor’s and Master’s degree students (40 students since 2017), PhD students (10 students), Post-doctoral fellows (5 – assegnisti di ricerca, borsisti)

Part V - Society memberships, Awards and Honors

V-a Society memberships and Awards

Year	Title
	Member of: Society for Neuroscience; European Cell Death Organization; Federation of European Neurosciences; Italian Society for Biology and Genetics; Italian Society for Neuroscience.
1992-1994	Marie Curie European Communities, two-years fellowship.
1995-1997	Pasteur Institute - Cenci Bolognetti Foundation, two-years fellowship.
1998	Italian National Research Council (CNR), one-year fellowship.
1999	Fogarty International, Laboratory of Mammalian Genes and Development, National Institute of Child Health and Development, NIH, Bethesda, USA, one-year fellowship

V-b Invited Speaker (conference and seminars; more recent only)

Date	Title
May 2007	III Meeting on Molecular Mechanisms of Neurodegeneration, Milan, Italy. "Neurodegeneration in inherited ataxias: functional interactions of the product of the Thg-1pit gene in cerebellum granule and Purkinje cells of the mouse"
September 2008	XIV International Workshop on the Development and Function of the Reproductive Organs, Villa Mondragone, Frascati (RM), Italy. "The oncogenic factor TCL1 regulates the blastomere proliferation of early mouse preimplantation embryos by interacting with the AKT2 isoform of protein-kinase PKB/AKT".
September 2007	Department of Neuroscience, Turin University, Italy. "The nuclear transfer of THG-1PIT landmarks the onset of cerebellar granule neuron apoptosis".
November 2008	National Institute of Child Health and Development, NIH, Bethesda, USA. "Enlightening Thg-1pit function in the developing and adult mouse cerebellum".
June 2013	Convegno Ricerca di base, diagnosi e clinica della Malattia di Niemann Pick tipo C in Italia, "Modelli animali e cellulari di NPC", Regional Centre for Rare Diseases, University Hospital Santa Maria della Misericordia.
June 2014	Workshop on Current Concepts in Neurodegeneration, University of Montpellier, Montpellier, France, "Epigenetic approaches in Neurodegenerative diseases";
June 2015	Scientific Conference for Niemann-Pick Type C Research, University of Notre Dame, South Bend, Indiana, USA, "Neuronal dysfunction in Niemann Pick C1 disease: impact of early developmental defects and efficacy of hydroxypropyl-beta-cyclodextrin in correcting the phenotype"
June 2016	Scientific Conference for Niemann-Pick Type C Research, Tucson, Arizona, USA, "Altered Shh signaling at the primary cilium is responsible for abnormal cerebellum morphogenesis in Niemann Pick C1 (NPC1) disease"

April 2022	Centre for Transdisciplinary Neurosciences Rostock, Rostock Univ. Med. Ctr. Germany, “Pathogenic mechanisms of Niemann Pick C disease: altered neuronal and glial cell differentiation largely anticipates overt neurologic dysfunction”
May 2022	Scientific Conference for Niemann-Pick Type C Research, Tucson, Arizona, USA “The appearance of phagocytic microglia in the cerebellum and olfactory bulb of Niemann Pick C mice is developmentally-regulated and underscores shortfalls in fine odor discrimination”

V-c Other scientific and Professional Experience

Year	Title
2012-present	Review Editor, Frontiers in Neuroscience
2019-present	Academic Editor, PlosONE
2019-present	Associate Editor, Frontiers in Molecular Neuroscience
2013-present	<i>Ad hoc</i> reviewer for Developmental Biology, Journal of Cellular Physiology, Molecular and Cellular Neuroscience, Journal of Cell Science, Neuroscience, Plos ONE, Journal of Alzheimer Disease, Neurochemical Research, Scientific Reports, BMC Medicine, Cell Cycle, Human Reproduction, Gene, Neuroscience Research, International Journal of Molecular Science.
2014-present	Grant application reviewer for the following Institutions/Fundations: 1) “Vaincre les Maladies Lysosomales”, a French non-profit organization for lysosomal diseases; 2) “LifeArc Philanthropic”, a British medical research charity; 3) European Science Foundation (ESF); 4) NWO Talent program - Vidi 2022 SA; 5) Italian MUR (FIRB and SIR proposals)
2020	Reviewer for EC H2020-MSCA-IF-2020 grants

V-d Current Scientific collaborations

- Prof. Sergio Oddi, European Center for Brain Research (CERC)/Santa Lucia Foundation IRCCS, Rome, Italy;
- Aditya Kulkarni, Oraxion Therapeutics, Bangalore, India, <http://www.oraxiontx.com>;
- Prof. Robert P Erickson, Dept. of Pediatrics, University of Arizona School of Medicine, Tucson, AZ, USA.
- Prof. Lawrence I Grossman, Wayne State University, Detroit, MI, USA.
- Dr. Andrea Dardis, Regional Centre for Rare Diseases, Hospital of Udine, Italy.
- Prof. John Hiscott, Director of Laboratorio Pasteur, Istituto Pasteur-Fondazione Cenci Bolognetti in Rome Italy.

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2021	The interplay between cholesterol/sphingolipid dyshomeostasis and Sonic hedgehog (Shh) pathway in Niemann Pick C (NPC) disease; RG1221816B9646F5 (PI)	Sapienza Progetti Grandi	E 73890
2020	Hypoxic ischemic brain injury pathophysiology: a deeper understanding of hypoxia-resilient neurons and microvasculature modulation for post-cardiac arrest recovery (HIBImod) (PI)	Sapienza Horizon 2020	E 40000
2020	Inactivation of the Niemann Pick C1 protein as a strategy to inhibit SARSCoV2 infection. GSP20006_Covid050 (PI)	Fondazione Telethon	E 49980
2019	Investigating Niemann Pick C pathophysiology in mouse models (PI)	Ara Parseghian Medical Foundation	USD 10000
2017	Characterizing the efficacy of a β -cyclodextrin prodrug in Niemann Pick C mouse models (PI)	Oraxion Therapeutics	E 20000
2016	Visiting Professor Robert Porter Erickson	Sapienza	E 5000
2016	Investigating abnormal cerebellum morphogenesis in Niemann-Pick C 1 disease and the potential of novel therapeutic approaches (PI)	Sapienza	E 11000
2013	Enlighthening molecular mechanisms of abnormal cerebellum development in mouse models of human Niemann-Pick C 1 disease: the efficacy of hydroxypropyl- β -cyclodextrin in correcting the phenotype (PI)	Fondazione Telethon	E 111700
2012	Grandi e medie attrezzature (PI)	Sapienza	E 19000
2012	Visiting Professor Robert Porter Erickson	Sapienza	E 8100
2012	DevelAge - Pathways common to brain development and ageing (co-PI; Coordinator: G. Kovacs)	EC- FP7	E 130000
2010	How many roles for TSC22D4 protein in cerebellum granule neurons of the mouse: isoforms' subcellular localization and functional interactions (PI)	Sapienza	E 5000

2008	Caratterizzazione del ruolo funzionale del gene Thg-1pit nella regolazione del bilancio tra proliferazione/differenziamento e apoptosi nei granuli cerebellari del topo (PI)	Sapienza	E 6000
2008	Un approccio molecolare ed elettrofisiologico allo studio dello sviluppo dei circuiti della corteccia cerebellare (PI)	Sapienza	E 5000
2008	Molecular regulation of cell proliferation and apoptosis in early embryo blastomeres and granule neuron precursors of the mouse (co-PI; PI: Prof. F. Mangia)	Fondazione Cenci-Bolognetti	E 45000

Part VII – Research Activities

Keywords:

neuronal cell proliferation, differentiation and apoptosis; post-natal cerebellum development; cholesterol/sphingolipid dyshomeostasis; Shh and TGF-beta signalling; mouse models of Niemann Pick type C and Alzheimer diseases; neurodegeneration; primary cultures of neuronal and glial cells; transcriptional regulation of pre-implantation embryo development

Brief Description

(with emphasis to the participation and direction of national and international research groups)

I have a long-term experience in mammalian embryology and developmental neurobiology. At the beginning of my scientific career (1989-1992), I participated to the research activities led by Prof. F. Mangia at the Institute of Histology and Medical Embryology, University “La Sapienza” of Rome, investigating the heat shock response of mouse oocytes and pre-implantation embryos (*pubs. 60, 59*).

In 1992-1994, working at the Dept. of Molecular and Cell Biology of Copenhagen University in the laboratory directed by Dr. V. Zimarino, I investigated the molecular regulation of heat shock gene transcription factors (HSFs) and identified novel murine HSF1 and HSF2 splice isoforms having additional 66 (mHSF1) and 54 (mHSF2) "in frame" nucleotides, respectively. Results of this study are reported in *pub. 58*.

Back to Sapienza University in 1994, and for several years, I continued to work in Prof. Mangia's laboratory on molecular regulation of mouse embryo development. Hence, I have developed new micromethods aimed at analyzing molecular processes not approachable by standard techniques, including semiquantitative RT-PCR mRNA determinations on single oocytes/embryos and transcription factor titrations by intranuclear microinjection of competing oligonucleotides in single living cells. Using these methodologies, I studied the molecular regulation of zygotic genome transcription and embryo blastomere proliferation. Moreover, in collaboration with Prof. F. Blasi, Institute of Molecular Oncology Foundation, IFOM-IEO Campus, Milan, I contributed to the characterization of the role played by the transcription factor *Prepl* in post-implantation embryo development. I also studied the activity of DNA homologous recombination and DNA nonhomologous end joining in dyctiate oocytes and preimplantation embryos. To accomplish these

studies, I developed a functional assay based on a novel asymmetric PCR measuring the ability of single oocytes and embryos to recombine intranuclearly injected DNA fragments, containing a region of homology of various extents at either the 5' or 3' termini. Results of these studies are reported in *pubs. 57, 56, 55, 53, 51, 50, 46, 14, 13*.

During a two years post-doctoral stay (1998 - 1999) in Dr. Westphal's laboratory at the NIH in Bethesda (USA), I became well acquainted with the field of the developmental neurobiology. By exploiting *lhx3* null mutant mice, which display pituitary hypoplasia, I identified genes differentially expressed in the developing pituitary gland of *wild type* and *lhx3* null mutant E12.5 embryos by subtractive hybridization and library screening. This approach led me to identify several novel genes, among which is *Tsc22d4* (formerly *Thg-1pit*), a member of the family of TGFbeta1-stimulated genes (*pubs. 54, 52*).

Back to Sapienza University in Prof. Mangia's laboratory, starting from 2003 I took the scientific responsibility, as principal investigator (PI), of studies aimed at functionally characterize the *Tsc22d4* gene. To this end I developed specific tools to investigate neuronal development, with particular reference to the cerebellum. Results of studies on *Tsc22d4* are reported in *pubs. 47, 45, 42, 37*.

Starting from 2008 I initiated a scientific collaboration with Prof. S. Scarpa to study the epigenetic regulation of genes involved in the amyloid cascade, including *Psen1* and *Bace*, in murine models of Alzheimer disease (*pubs. 41, 40, 38, 27, 24, 11*). Within these studies funded by an EC FP7 project, *DevelAge – Pathways common to brain development and ageing*, I held the scientific responsibility, as co-PI, for tasks aimed at characterizing the expression patterns of key genes relevant for both neurodevelopment and neurodegeneration, *i.e. reelin, psen1 and psen2, BDNF*. These studies were carried out in collaboration with several scientists, including: GG Kovacs, Medical University of Vienna; E Aronica, Academic Medical Center, University of Amsterdam; E Zimmermann, University of Veterinary Medicine, Hannover; JM Verdier, University of Montpellier 2; H Adle-Biasette, University Paris Diderot; I Ferrer, University of Barcelona.

Roughly ten years ago I entered the field of genetic rare disease of lysosomal cholesterol storage and since 2013, I lead the laboratory of Neurobiology at the Dept. of Psychology of “La Sapienza” University. Exploiting genetic mouse models of the Niemann Pick type C (NPC) disease, I have characterized the anomalies of neuronal and glial cell differentiation/functional maturation and the ability of β -cyclodextrin to rescue these anomalies. My studies in this field have described a number of anomalies of cerebellar progenitor development, which associate to a derangement of circuit formation and to a delay in the acquisition of fine motor, sensory and cognitive abilities within the first three post-natal weeks. These anomalies are due to defective Sonic hedgehog (Shh) signal generation and signaling at the primary cilium. More recently, we have also reported that synapse connectivity is defective at the level of the olfactory bulb and associates to subtle olfaction deficits. Entering this field allowed me to establish a valuable scientific collaboration with Prof. R. Erickson, University of Arizona, who was hosted in my lab as visiting scientist several times (2012, 2016, 2018). More recently, this collaboration included the research group led by Prof. LI Grossmann, Wayne State University School of Medicine, to study how the cholesterol dyshomeostasis, typical of NPC, affects mitochondrial functions (*pub. 12*). Thanks to the specific expertise developed in mouse developmental neurobiology and in the NPC field, a few years ago I established a scientific collaboration with Dr. Kulkarni, Oraxion Therapeutics, to study the ability of novel cyclodextrin drugs in rescuing the neuronal anomalies of NPC mouse models. Results of these studies are reported in *pubs. 36, 34, 30, 29, 26, 23, 21, 20, 17, 16, 15, 12, 6, 5, 2*.

As a further development of studies carried out up to now, main issues that are presently investigated in my laboratory include:

1) How Chol/sphingolipid dyshomeostasis: i) affects the generation of mature and bioactive Shh; ii) alters the interplay between Shh and its receptor, Patched, at the primary cilium membrane, dampening the subsequent activation of the downstream effector – Smoothed (Smo).

2) How Npc1-deficiency affects the differentiation, functional maturation and circuit integration of sensory neurons and periglomerular granule neurons of the olfactory bulb, which both rely on Shh signaling for their differentiation and functional maturation.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers	60	Scopus	1991	2023
Papers in the last 10 years	38	Scopus	2013	2023
Books [scientific]	1			
Books [teaching]	1			

Total Impact factor	342,71	Journal Citation Reports
Impact factor in the last 10 years	234,686	Journal Citation Reports
Average Impact Factor	5,7	Journal Citation Reports
Total Citations	1537	Scopus
Average Citations per Product	25,6	Scopus
Hirsch (h) index	23	Scopus
Hirsh (h) index in the last 10 years	17	Scopus
Autorship position	First: 13; Corresponding/Last: 17	Scopus

Part IX– Selected Publications

(IF in relation to the publication year, Journal Citation Reports; number of citations, Scopus)

1. Lucarelli M, Camuso S, Di Pietro C, Bruno F, La Rosa P, Marazziti D, **Fiorenza MT**, Canterini S. (2023) Reduced Cerebellar BDNF Availability Affects Postnatal Differentiation and Maturation of Granule Cells in a Mouse Model of Cholesterol Dyshomeostasis. *Mol Neurobiol.* 2023 Jun 14. doi: 10.1007/s12035-023-03435-3.

IF 5,1 Citations 0

2. Rava A, La Rosa P, Palladino G, Dragotto J, Totaro A, Tiberi J, Canterini S, Oddi S, **Fiorenza MT** (2022) The appearance of phagocytic microglia in the cerebellum and olfactory bulb of Niemann Pick type C mice is developmentally-regulated and underscores shortfalls in fine odor discrimination. *Journal of Cellular Physiology*, 2022, 237(12), 4563- 4579 doi: 10.1002/jcp.30909.

IF 5,6 Citations 3

3. La Rosa P, Petrillo S, Turchi R, Berardinelli F, Schirinzi T, Vasco G, Lettieri-Barbato D, **Fiorenza MT**, Bertini ES, Aquilano K, Piemonte F. (2021) The Nrf2 induction prevents ferroptosis in Friedreich's Ataxia. *Redox Biology*, 2021, 38, 101791 doi: 10.1016/j.redox.2020.101791.

IF 10,787 Citations 67

4. Monti N, Cavallaro RA, Stoccoro A, Nicolia V, Scarpa S, Kovacs GG, **Fiorenza MT**, Lucarelli M, Aronica E, Ferrer I, Coppedè F, Troen AM, Fuso A. (2020) CpG and non-CpG Presenilin1 Methylation Pattern in Course of Neurodevelopment and Neurodegeneration Is Associated With Gene Expression in Human and Murine Brain. *Epigenetics* 15: 781–799. doi: 10.1080/15592294.2020.17229173.
IF 4,528 Citations 32
5. **Fiorenza MT**, Russo G, Narducci MG, Bresin A, Mangia F, Bevilacqua A. (2020) Protein kinase Akt2/PKB β is involved in blastomere proliferation of preimplantation mouse embryos. *J Cell Physiol.* 235:3393–3401. doi: 10.1002/jcp.29229.
IF 6,384 Citations 5
6. Oddi S, Caporali P, Dragotto J, Totaro A, Maiolati M, Scipioni L, Angelucci CB, Orsini C, Canterini S, Rapino C, Maccarrone M, **Fiorenza MT** (2019) The endocannabinoid system is affected by cholesterol dyshomeostasis: Insights from a murine model of Niemann Pick type C disease. *Neurobiol Dis.* 130:104531. doi: 10.1016/j.nbd.2019.104531.
IF 5,332 Citations 10
7. Dragotto J, Canterini S, Del Porto P, Bevilacqua A, **Fiorenza MT** (2019) The interplay between TGF- β -stimulated TSC22 domain family proteins regulates cell-cycle dynamics in medulloblastoma cells. *J Cell Physiol.* 234:18349-18360. doi: 10.1002/jcp.28468.
IF 5,546 Citations 10
8. Kulkarni A, Caporali P, Dolas A, Johny S, Goyal S, Dragotto J, Maccone A, Jayaraman R and **Fiorenza MT**. (2018) Linear Cyclodextrin Polymer Prodrugs as Novel Therapeutics for Niemann-Pick Type C1 Disorder. *Scientific Reports* 8:9547 doi:10.1038/s41598-018-27926-9.
IF 4,011 Citations 28
9. **Fiorenza MT**, Moro E, Erickson RP. (2018) The pathogenesis of lysosomal storage disorders: beyond the engorgement of lysosomes to abnormal development and neuroinflammation. *Hum Mol Genet* 27(R2):R119-R129 doi: 10.1093/hmg/ddy1556.
IF 4,544 Citations 48
10. Canterini S, Dragotto J, Dardis A, Zampieri S, De Stefano ME, Mangia F, Erickson RP, **Fiorenza MT** (2017) Shortened primary cilium length and dysregulated Sonic hedgehog signaling in Niemann-Pick C1 disease. *Hum Mol Genet.* 26: 2277-2289.
IF 4,902 Citations 49
11. Caporali P, Bruno F, Palladino G, Dragotto J, Petrosini L, Mangia F, Erickson RP, Canterini S, **Fiorenza MT**. (2016) Developmental delay in motor skill acquisition in Niemann-Pick C1 mice reveals abnormal cerebellar morphogenesis. *Acta Neuropathol Commun.* 4:94.
IF 5,414 (from 2017, first available IF) Citations 30
12. Dardis A, Zampieri S, Canterini S, Newell KL, Stuani C, Murrell JR, Ghetti B, **Fiorenza MT**, Bembi B, Buratti E. (2016) Altered localization and functionality of TAR DNA Binding Protein 43 (TDP-43) in niemann- pick disease type C. *Acta Neuropathol Commun.* 4:52.
IF 5,414 (from 2017, first available IF) Citations 19
13. Palladino G, Loizzo S, Fortuna A, Canterini S, Palombi F, Erickson RP, Mangia F, **Fiorenza MT**. (2015) Visual evoked potentials of Niemann-Pick type C1 mice reveal an impairment of the visual

pathway that is rescued by 2-hydroxypropyl- β -cyclodextrin. *Orphanet J Rare Dis.* 10(1):133. doi: 10.1186/s13023-015-0348-0.

IF 3,29 Citations 21

14. Niceta M, Stellacci E, Gripp KW, Zampino G, Kousi M, Anselmi M, Traversa A, Ciolfi A, Stabley D, Bruselles A, Caputo V, Cecchetti S, Prudente S, **Fiorenza MT**, Boitani C, Philip N, Niyazov D, Leoni C, Nakane T, Keppler-Noreuil K, Braddock SR, Gillessen-Kaesbach G, Palleschi A, Campeau PM, Lee BH, Pouponnot C, Stella L, Bocchinfuso G, Katsanis N, Sol-Church K, Tartaglia M. (2015) Mutations impairing GSK3-mediated MAF phosphorylation cause cataract, deafness, intellectual disability, seizure and Down syndrome-like facies. *Am J Hum Genet.* 7;96(5):816-25. doi: 10.1016/j.ajhg.2015.03.001.

IF 10,794 Citations 82

15. Nusca S, Canterini S, Palladino G, Bruno F, Mangia F, Erickson RP, **Fiorenza MT** (2014). A marked paucity of granule cells in the developing cerebellum of the *Npc1(-/-)* mouse is corrected by a single injection of hydroxypropyl- β -cyclodextrin. *Neurobiol Dis*; 70:117-26.

IF 5,078 Citations 31

16. Canterini S, Carletti V, Nusca S, Mangia F, **Fiorenza MT** (2013). Multiple TSC22D4 iso-/phospho-glycoforms display idiosyncratic subcellular localizations and interacting protein partners. *FEBS J.* 280(5):1320-9.

IF 3,986 Citations 11

Part X– Complete Publication list

(IF in relation to the publication year, Journal Citation Reports; number of citations, Scopus)

1. Oddi S, **Fiorenza MT**, Maccarrone M. (2023) Endocannabinoid signaling in adult hippocampal neurogenesis: A mechanistic and integrated perspective. *Prog Lipid Res.* 91:101239. doi: 10.1016/j.plipres.2023.101239

IF14,673 Citations 0

2. Lucarelli M, Camuso S, Di Pietro C, Bruno F, La Rosa P, Marazziti D, **Fiorenza MT**, Canterini S. (2023) Reduced Cerebellar BDNF Availability Affects Postnatal Differentiation and Maturation of Granule Cells in a Mouse Model of Cholesterol Dyshomeostasis. *Mol Neurobiol.* 2023 Jun 14. doi: 10.1007/s12035-023-03435-3.

IF 5,1 Citations 0

3. Tiberi J, Segatto M, **Fiorenza MT**, La Rosa P. (2023) Apparent Opportunities and Hidden Pitfalls: The Conflicting Results of Restoring NRF2-Regulated Redox Metabolism in Friedreich's Ataxia Pre-Clinical Models and Clinical Trials. *Biomedicines* 11(5):1293. doi: 10.3390/biomedicines11051293

IF 4,757 Citations 0

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IF 5,498 Citations 2

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