



Maria Meringolo

✉ Email address: maria.meringolo@unicamillus.org

WORK EXPERIENCE

[01/10/2022 – Current] **Researcher SSD BIO/16 (RTDA)**

Saint Camillus International University of Health and Medical Sciences - Unicamillus

City: Rome

Country: Italy

Main activities and responsibilities:

Human Anatomy Lecturer

Degree in medicine and surgery

Degree in dentistry and dental prosthetics

[2022 – 2022] **University Lecturer**

Saint Camillus International University of Health and Medical Sciences - Unicamillus

City: Rome

Country: Italy

Main activities and responsibilities:

Human Anatomy Lecturer

Degree in Dentistry and Dental Prosthetics

[2020 – 2022] **Research biologist**

Santa Lucia Foundation IRCCS

City: Rome

Country: Italy

[2021 – 2021] **Secondary school teacher**

Italian Minister of Public Education

City: Rome

Country: Italy

[2018 – 2020] **Research fellowship**

University of Rome Tor Vergata, Dept of Systems Medicine

City: Rome

Country: Italy

Main activities and responsibilities:

Project title "studio delle connessioni striatopallidali in un modello di dystonia DYT1".

[2017 – 2018] **Postgraduate scholarships**

Santa Lucia Foundation IRCCS

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "Valutazione dell'efficacia di nuovi approcci terapeutici in distonia, mediante tecniche di elettrofisiologia, biochimica e biologia molecolare".

[2016 – 2017] **Postgraduate scholarships**

University of Rome Tor Vergata, Dept of Systems Medicine

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "Evaluation of the effects of a novel nicotinic agonist, AZD1446, on neurochemical and electrophysiologic endpoints in DYT1 mouse models".

[2015 – 2016] **Postgraduate scholarships**

University of Rome Tor Vergata, Dept of Systems Medicine

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "Assessing the role of dopaminergic signal transduction pathway in primary dystonia".

[2015] **Postgraduate scholarships**

Santa Lucia Foundation IRCCS

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "In pursuit of novel neuroprotective strategies for Parkinson's disease: understanding the role of PINK1 in regulating autophagy and apoptosis".

[2012 – 2014] **Visiting fellowship**

Laboratory of Neuronal Ensembles, University of Sussex

City: Brighton

Country: United Kingdom

EDUCATION AND TRAINING

[2016 – 2017] **2nd level master in "Sviluppo preclinico e clinico del farmaco: aspetti tecnico-scientifici, regolatori ed etici".**

Università Cattolica del Sacro Cuore

Address: Rome, Italy

[2014 – 2015] **License to practice as a biologist**

University of Rome Tor Vergata

Address: Rome, Italy

[2010 – 2015] **Ph.D. in Pharmacology and Tossicology**

University "La Sapienza" of Rome

Address: Rome, Italy

Thesis: Titolo della tesi: "In vitro and in vivo characterization of a new recreational drug: Benzydamine"

[2007 – 2010] **Master degree in Neurobiology**

University "La Sapienza" of Rome

Address: Rome, Italy

Final grade: 110/110 cum laude

Thesis: Titolo della tesi: "Environmental modulation of ketamine self-administration in an animal model of drug addiction"

[2004 – 2008] **Bachelor degree in Biological Sciences**

Università della Calabria

Address: Cosenza, Italy

Final grade: 110/110 cum laude

Thesis: Titolo della tesi: "Genetic aspects of the X-fragile syndrome"

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

DIGITAL SKILLS

My Digital Skills

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc)

HONOURS AND AWARDS

- [2018] **Travel Grant for young Italian neuroscientists Awarding institution:** SINS (Italian Society of Neuroscience)
Travel Grant for young Italian neuroscientists, assigned by SINS (Italian Society of Neuroscience) for FENS forum of Neuroscience 2018 (Berlin, 7-11 of July, 2018)
- [2018] **Lia Vassena Young Investigator award Awarding institution:** AIRA (Italian association Research on Autism)
- [2011] **Ministerial doctoral fellowship Awarding institution:** Ministry for Education, University and Research

Member of SINS Awarding institution: SINS (Italian Society of Neuroscience)

CONFERENCES AND SEMINARS

[25/03/2018 – 26/03/2018]

"Impairment of corticostriatal long-term synaptic depression is partially rescued by activation of cannabinoid CB1 receptors in the R451C-neurologin 3 mouse model"

CNR, Roma

Oral presentation at III° Congresso Nazionale AIRA

[06/07/2018 – 10/07/2018]

"Impairment of striatal long-term synaptic depression is partially rescued by activation of cannabinoid CB1 receptors in the neurologin-3 R451C knock-in mouse model of autism"

Berlino

Poster presentation at the "forum for Neuroscience", FENS

[30/09/2017 – 03/10/2017] **Enhancement of Mor-dependent opioid transmission in a model of DYT1 dystonia** Lacco Ameno, Ischia.

Poster presentation at the XVII Congresso Nazionale SINS

[17/09/2017 – 18/09/2017] **Evaluation of a novel nicotinic agonist, AZD1446, in DYT1 Dystonia** Nobile Collegio Farmaceutico, Roma
Poster presentation at the biennial conference on Dystonia and Parkinson's disease, VII edition

[02/10/2013 – 04/10/2013]

Self-administration of the anti-inflammatory drug benzydamine in the rat: electrophysiological evidence of central glutamatergic mechanism of action

Roma

Poster presentation at the 15° National conference of Italian Society of Neuroscience

PUBLICATIONS

[2021]

Vesicular Acetylcholine Transporter Alters Cholinergic Tone and Synaptic Plasticity in DYT1 Dystonia

Reference: doi: 10.1002/mds.28698

Movement Disorders.

Tassone A, Martella G, Meringolo M, Vanni V, Sciamanna G, Ponterio G, Imbriani P, Bonsi P, Pisani A.

[2020] **The neuroligins and the synaptic pathway in Autism Spectrum Disorder**

Reference: doi: 10.1016/j.neubiorev.2020.09.017

Neurosci Biobehav Rev

Trobiani L*, Meringolo M*, Diamanti T, Bourne Y, Marchot P, Martella G, Dini L, Pisani A, De Jaco A, Bonsi P.

*co-first authors

[2020]

Excess Lipin enzyme activity contributes to TOR1A recessive disease and DYT-TOR1A dystonia

Reference: doi: 10.1093/brain/awaa139. PMID: 32516804.

Brain.

Cascalho A, Foroozandeh J, Hennebel L, Swerts J, Klein C, Rous S, Dominguez Gonzalez B, Pisani A, Meringolo M, Gallego SF, Verstreken P, Seibler P, Goodchild RE.

[2020]

Optogenetic Activation of Striatopallidal Neurons Reveals Altered HCN Gating in DYT1 Dystonia

Reference: doi: 10.1016/j.celrep.2020.107644. PMID: 32433955.

Cell Report.

Sciamanna G, Ponterio G, Vanni V, Laricchiuta D, Martella G, Bonsi P, Meringolo M, Tassone A, Mercuri NB, Pisani A.

[2019] **Loss of Non-Apoptotic Role of Caspase-3 in the PINK1 Mouse Model of Parkinson's Disease**

Reference: doi: 10.3390/ijms20143407. PMID: 31336695; PMCID: PMC6678522.

International Journal of Molecular Sciences

Imbriani P, Tassone A, Meringolo M, Ponterio G, Madeo G, Pisani A, Bonsi P, Martella G.

[2019]

Heroin versus cocaine: opposite choice as a function of context but not of drug history in the rat

Reference: doi: 10.1007/s00213-018-5115-1.

Psychopharmacology (Berl).

De Luca MT, Montanari C, [Meringolo M](#), Contu L, Celentano M, Badiani A.

[2019] **RGS9-2 rescues dopamine D2 receptor levels and signaling in DYT1 dystonia mouse models**

Reference: doi: 10.15252/emmm.201809283.

EMBO Molecular Medicine

Bonsi P, Ponterio G, Vanni V, Tassone A, Sciamanna G, Migliarini S, Martella G, [Meringolo M](#), Dehay B, Doudnikoff E, Zachariou V, Goodchild RE, Mercuri NB, D'Amelio M, Pasqualetti M, Bezard E, Pisani A.

[2018] **Dystonia: Are animal models relevant in therapeutics?**

Reference: doi: 10.1016/j.neurol.2018.07.003.

Rev Neurol (Paris).

Meringolo M, Tassone A, Imbriani P, Ponterio G, Pisani A.

[2018] **Centrality of Early Synaptopathy in Parkinson's Disease**

Reference: doi: 10.3389/fneur.2018.00103.

Frontiers in Neurology

Imbriani P, Schirinzi T, [Meringolo M](#), Mercuri NB, Pisani A.

[2018]

The neurobiological bases of autism spectrum disorders: the R451C-neuroigin 3 mutation hampers the expression of long-term synaptic depression in the dorsal striatum

Reference: doi: 10.1111/ejn.13705.

European Journal of Neuroscience

Martella G*, [Meringolo M*](#), Trobiani L, De Jaco A, Pisani A, Bonsi P.

*co-first authors

[2018]

Intravenous self-administration of benzydamine, a non-steroidal anti-inflammatory drug with a central cannabinoidergic mechanism of action

Reference: doi: 10.1111/adb.12516.

Addiction biology

Avisati R, [Meringolo M](#), Stendardo E, Malavasi E, Marinelli S, Badiani A.

[2018]

Enhanced mu opioid receptor-dependent opioidergic modulation of striatal cholinergic transmission in DYT1 dystonia

Reference: doi: 10.1002/mds.27212.

Movement disorder

Ponterio G, Tassone A, Sciamanna G, Vanni V, [Meringolo M](#), Santoro M, Mercuri NB, Bonsi P, Pisani A.

[2017] **Evaluation of AZD1446 as a Therapeutic in DYT1 Dystonia**

Reference: doi: 10.3389/fnsys.2017.00043.

Frontiers System in Neuroscience

Zimmerman CN, Eskow Jaunarajs KL, [Meringolo M](#), Rizzo FR, Santoro M, Standaert DG, Pisani A.

[2015]

Differential vulnerability to relapse into heroin versus cocaine-seeking as a function of setting

Reference: doi: 10.1007/s00213-015-3877-2.

Psychopharmacology

Montanari C, Stendardo E, De Luca MT, Meringolo M, Contu L, Badiani A.

[2012] **Induction of morphine-6-glucuronide synthesis by heroin self- administration in the rat**

Reference: doi: 10.1007/s00213-011-2534-7.

Psychopharmacology

Meringolo M, Brusadin V, De Luca MT, Montanari C, Antonilli L, Nencini P, Badiani A.

[2012] **The role of setting for ketamine abuse: clinical and preclinical evidence**

Reference: doi: 10.1515/revneuro-2012-0078.

Rev Neurosci.

De Luca MT, Meringolo M, Spagnolo PA, Badiani A.