

# GIUSEPPINA MARTELLA

## Curriculum Vitae

Place: Rome  
Date 02.08.2022

### Part I – General Information

|                     |                     |
|---------------------|---------------------|
| Full Name           | Martella Giuseppina |
| Date of Birth       |                     |
| Place of Birth      |                     |
| Citizenship         |                     |
| Permanent Address   |                     |
| Mobile Phone Number |                     |
| E-mail              |                     |
| Spoken Languages    | Italian, English    |

### Part II – Education

| Type                         | Year        | Institution  | Notes (Degree, Experience,...)  |
|------------------------------|-------------|--|---|
| <b>University graduation</b> | 2000        | University of Rome Tor Vergata   | <b>Master Degree in Biological Sciences</b>                                 |
| Post-graduate studies        | 2007        | Scuola di Alta Formazione per Naturopati e Discipline Olistiche, Campus Laboratori Borri, Roma | Non-medic Naturopathic Degree   |
| Post-graduate studies        | 2007        | Accredited by FELASA, Fondazione Santa Lucia, IRCCS Roma.                                      | Certificate Course on “Science of Laboratory Animals”                       |
| Post-graduate studies        | 2013        | Fondazione Santa Lucia, IRCCS Roma.  | Training Course, “Security and prevention schemes at workplace”             |
| Post-graduate studies        | 2017        | Fondazione Santa Lucia, IRCCS Roma.  | Certificate of Attendance, “Security and prevention schemes at workplace”   |
| Post-graduate studies        | 2017        | University of Rome Tor Vergata   | Professional extra training Course on MePa                                  |
| Post-graduate studies        | 2019        | University of Rome Tor Vergata   | Professional extra training Course on Chemical Risk                         |
| <b>PhD</b>                   | <b>2012</b> | <b>University of Rome Tor Vergata</b>  | <b>Neuroscience</b>   |
| <b>Specialty</b>             | <b>2007</b> | <b>University of Rome Tor Vergata</b>  | <b>Clinical Pathology</b>   |
| Pre-doctorate training       | 2000-2007   | University of Rome Tor Vergata   | Research Fellow, Laboratory of Neurophysiology, Department of Neuroscience. |
| <b>Licensure 01</b>          | <b>2001</b> | <b>University of Rome Tor</b>  | <b>Biology Licence</b>  |

|              |      |                     |                                  |
|--------------|------|---------------------|----------------------------------|
|              |      | <b>Vergata</b>      |                                  |
| Licensure 02 | 2017 | ASN -05/B2 –Rank II | Comparative Anatomy and Cytology |
| Licensure 03 | 2019 | ASN -05/D1 –Rank II | Physiology                       |

### Part III – Appointments

#### IIIA – Academic Appointments

| Start      | End        | Institution  | Position                     |
|------------|------------|--|------------------------------|
| 02/01/2001 | 31/12/2002 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 01/01/2003 | 31/12/2003 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 02/02/2004 | 01/02/2005 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 03/02/2005 | 02/02/2006 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 05/02/2006 | 04/02/2007 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 03/03/2007 | 02/03/2008 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 02/04/2008 | 30/07/2008 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post Graduate Fellowship     |
| 01/08/2008 | 31/07/2009 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Research Fellowship          |
| 01/08/2009 | 01/11/2009 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Research Fellowship          |
| 01/11/2009 | 31/10/2012 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | PhD Fellowship               |
| 01/11/2013 | 31/10/2014 | University of ROMA "Tor Vergata" –<br>Dept of Neuroscience- Via O.<br>Raimondo,18 - ROMA | Post PhD Research Fellowship |

#### IIIB – Other Appointments

| Start      | End        | Institution  | Position                   |
|------------|------------|--|----------------------------|
| 27/06/2006 | 07/10/2007 | <b>Oregon Health &amp; Science<br/>University (OHSU). Oregon<br/>USA</b> | <b>Visiting Researcher</b> |

|            |       |                               |            |
|------------|-------|-------------------------------|------------|
| 04/11/2014 | today | Fondazione Santa Lucia, IRCCS | Researcher |
|------------|-------|-------------------------------|------------|

#### Part IV – Teaching experience

| Year       | Institution  | Lecture/Course  |
|------------|--|---|
| 2008-2010  | Scuola di Alta Formazione per Naturopati e Discipline Olistiche, Campus Laboratori Borri, Roma | Human Anatomy, Kinesiology and Posturology. Frontal Lessons and Moodle Platform lessons<br><a href="https://docplayer.it/17315723-Campus-laboratori-borri-programma-dei-corsi-edizione-marzo-2008.html">https://docplayer.it/17315723-Campus-laboratori-borri-programma-dei-corsi-edizione-marzo-2008.html</a>  |
| From 2018- | University of Rome Tor Vergata, Faculty of Medical Biotechnology                               | Teaching assistant in: Neurology/ Neurophysiology   |
| From 2007  | University of Rome Tor Vergata. Dept. of Neuroscience/ and /Systems Medicine.                  | Research Tutor for student in Medical Degree Training, for Resident Student in Neurology, and PhD student in Neurosciences.   |
| From 2018  | University of Rome Tor Vergata. Dept. of Systems Medicine.                                     | Member of Boarding School Doctoral Program In Neuroscience (neurophysiology)  |
| From 2018  | University of Rome Tor Vergata. Dept. of Systems Medicine.                                     | Neurophysiology lesson for Doctoral Program also by <i>Webinar platform</i><br><a href="https://www.uninettunouniversity.net/it/webinar-in-neuroscienze.aspx">https://www.uninettunouniversity.net/it/webinar-in-neuroscienze.aspx</a><br><a href="https://web.uniroma1.it/dnsc/webinars-phd-neuroscienze/webinars-phd-neuroscienze">https://web.uniroma1.it/dnsc/webinars-phd-neuroscienze/webinars-phd-neuroscienze</a> |

#### Part V - Society memberships, Awards and Honors

| Year      | Title   |
|-----------|---|
| From 2007 | Member of SINS (Italian Society of Neuroscience)  |
| From 2007 | Member of SfN (Society for Neuroscience), USA   |
| From 2007 | Member of FENS (Federation of European Neuroscience Societies)  |
| From 2018 | Member of SiPMel (The Italian scientific and medical professional association dedicated to Laboratory Medicine and its application) |

#### Part VI – editorial board, Academic board, Peer Reviewer/ Meeting organization

| Year | Title   |
|------|---|
| 2017 | Hindawi Special Issue Lead Guest Editors:<br><a href="https://www.hindawi.com/journals/np/si/289617/cfp/">https://www.hindawi.com/journals/np/si/289617/cfp/</a><br>SPCHD: Synaptic Plasticity Changes: Hallmark for Neurological and Psychiatric Disorders |
| 2015 | Peer Reviewer for: Neuroscience, Parkinson Disease, Neurobiology of Disease, frontiers in Neuroscience, International Journal of Molecular Sciences, Neuropharmacology, British Journal of Pharmacology and other accredited journal.                       |

|              |  |
|--------------|--|
| 2007         | Local organising committee meeting: Update on Dystonia: from basic science to therapeutic strategies Rome, June 8-9 2007   |
| 2018         | Invited Editorial Board of Parkinson's Disease Academic Editor.<br><a href="https://www.hindawi.com/journals/pd/editors/">https://www.hindawi.com/journals/pd/editors/</a>   |
| 2018-present | International Journal of Molecular Sciences (ISSN 1422-0067). Special Issue Guest Editor: "Molecular Mechanisms of Synaptic Plasticity: I, II, II."<br><a href="https://www.mdpi.com/journal/ijms/special_issues/mechanisms_synaptic_plasticity">https://www.mdpi.com/journal/ijms/special_issues/mechanisms_synaptic_plasticity</a><br><a href="https://www.mdpi.com/journal/ijms/special_issues/synaptic_plasticity_2">https://www.mdpi.com/journal/ijms/special_issues/synaptic_plasticity_2</a><br><a href="https://www.mdpi.com/journal/ijms/special_issues/synaptic_plasticity_3">https://www.mdpi.com/journal/ijms/special_issues/synaptic_plasticity_3</a> |
| 2019         | Local organising committee meeting: 7th Biennial Workshop: "Cellular and molecular targets for novel therapeutics" 18-19 September, 2019 Rome.<br><a href="https://www.accademialimpedismov.it/filesito/patrocinati/2019/CellularAndMolecularTargets.pdf">https://www.accademialimpedismov.it/filesito/patrocinati/2019/CellularAndMolecularTargets.pdf</a>  |
| 2019         | International Journal of Molecular Sciences (ISSN 1422-0067). Topic Editor.  |
| 2020         | Invited Editorial Board NeuroSci (ISSN 2673-4087).<br><a href="https://www.mdpi.com/journal/neurosci/editors">https://www.mdpi.com/journal/neurosci/editors</a>  |

#### PART VII- Experiences:

|            |            |   |  |
|------------|------------|---|--|
| 15/03/2000 | 31/12/2001 | Trainee- traineeship for Professional Biologist License. Department of Biology, Lab of Physiology.  | University of the Study "Roma TRE" - Via Ostiense, 159 - ROMA<br>Structure: Dept. Biologia                             |
| 02/01/2001 | 30/07/2007 | Fellows, (Post degree Fellowships- Call by University of Roma Tor Vergata, financed By Italian Ministry of Health, Lazio's Region and MIUR (Italian Ministry of University and Research).<br>Decreets of nominees n. 99/2001; n. 3173 /2001; n. 3298/2001; n. 2362/2003; n. 2059/2004; n.1961/2005; n. 1907/2006; n. 2083/2007. | Laboratory of Neurophysiology, Dept. of Neuroscience, Faculty of Medicine and Surgery, University of Roma Tor Vergata. |
| 11/05/2002 | 12/12/2007 | Resident in Clinical Pathology  | University of ROMA "Tor Vergata" - Via O. Raimondo,18 - ROMA   |
| 01/08/2008 | 31/07/2009 | Research Fellowship, Lab. of Neurophysiology. Dept. of Neuroscience   | University of ROMA "Tor Vergata" - Via O. Raimondo,18 - ROMA   |
| 01/08/2009 | 31/10/2009 | Research Fellowship, Lab. of Neurophysiology. Dept. of Neuroscience   | University of ROMA "Tor Vergata" - Via O. Raimondo,18 - ROMA   |
| 01/11/2009 | 30/10/2012 | PhD Fellowship, Lab. of   | University of ROMA "Tor Vergata" -   |

|            |                 |  |  |
|------------|-----------------|--|--|
|            |                 | Neurophysiology. Dip. Of Systems Medicine.   | Via O. Raimondo,18 - ROMA                                    |
| 04/11/2012 | 31/10/2013      | Researcher, laboratory of Neurophysiology and Plasticity.  | Fodazione Santa Lucia, IRCCS, Via Ardeatina 306, Roma        |
| 02/11/2013 | 31/12/2014      | Research Fellowship, Lab. of Neurophysiology. Dept. of Systems Medicine.   | University of ROMA "Tor Vergata" - Via O. Raimondo,18 - ROMA |
| 04/11/2014 | Actual position | Researcher, laboratory of Neurophysiology and Plasticity.<br><a href="http://www.hsantalucia.it/cv/giuseppina-martella">http://www.hsantalucia.it/cv/giuseppina-martella</a> | Fodazione Santa Lucia, IRCCS, Via Ardeatina 306, Roma        |

### Part VIII – Research Activities

| Keywords                     | Brief Description   |
|------------------------------|---|
| Movement Disorders           | <p>My research interest is focused on the study of the physiopathology of neurological diseases. I have good expertise in synaptic plasticity and basal ganglia circuitry. Since 2000 I joined Professor Stefani Lab, where I acquired a good experience in the study of voltage-dependent channels on acutely isolated neurons from all basal ganglia nuclei. Then, I have acquired expertise in cell culture, stereotaxic surgery, and molecular biology to electrophysiology in vitro and ex vivo on neuron and glial cells.</p> <p>I have an excellent level of expertise in Laboratory Animals treatment and Welfare, as well as in translational research and Human protocols research. My best goal is in translational biomedical research and education.</p> <p>I am very interested and motivated for teaching General Physiology, Human Physiology, General Pathology, Neuro-pathology, Clinical Pathology, Neuroscience, Neurophysiology.</p> |
| Neurons                      |   |
| Basal Ganglia                |   |
| Synaptic Plasticity          |   |
| Channels and Channelopathies |   |

### Part IX – Summary of Scientific Achievements

| Product type           | Number | Data Base  | Start | End  |
|------------------------|--------|--|-------|------|
| Papers [international] | 50     | Web of Sciences, Scopus  | 2002  | 2019 |
| Papers [national]      | 1      | Calabresi P, Prosperetti C, Costa C, Martella G (2004). Farmaci antiepilettici e neuroprotezione. Boll Lega It Epil. vol. 125/126 suppl 2, p. 9-15.  | 2004  | 2004 |
| Books [scientific]     | 2      | 1- Chapter 7 in book: titled: Cholinergic Interneuron and Parkinsonism<br>Dario Cuomo, Paola Platania, Giuseppina Martella, Graziella Madeo, Giuseppe Sciamanna, Annalisa Tassone and Antonio Pisani. 2009 “Cortico-Subcortical Dynamics in Parkinson's Disease” edited by Kuei-Yuan Tseng | 2009  | 2011 |

|  |  |   |  |  |
|--|--|---|--|--|
|  |  | DOI:<br><a href="https://doi.org/10.1017/S0317167100117913">https://doi.org/10.1017/S0317167100117913</a>   |  |  |
|  |  | 2- Chapter in book: International Review of Neurobiology. Volum 98 2011;98:551-72. Copyright © 2011 Elsevier Inc. doi: 10.1016/B978-0-12-381328-2.00020-1. (Pub Med-Scopus) |  |  |

**Language:** ITALIAN                      **levels**                      native language  
ENGLISH                                   **levels**                      Business  
   **Full Professional Proficiency**                      Fluent  
SPANISH                                   **levels**                      Basic

|                  |                          |
|------------------|--------------------------|
| Total Citations  | 3291 (Scopus) 3153 (WOS) |
| Hirsch (H) index | 29 (Scopus), 29 (WOS)    |
| Total papers     | 68                       |

### Selected papers- Martella 2012-2022

Imbriani P, Martella G, Bonsi P, Pisani A. Oxidative stress and synaptic dysfunction in rodent models of Parkinson's disease. *Neurobiol Dis.* 2022 Aug 23;173:105851. doi: 10.1016/j.nbd.2022.105851. Epub ahead of print. PMID: 36007757.

Ponterio G, Faustini G, El Atiallah I, Sciamanna G, Meringolo M, Tassone A, Imbriani P, Cerri S, Martella G, Bonsi P, Bellucci A, Pisani A. Alpha-Synuclein is Involved in DYT1 Dystonia Striatal Synaptic Dysfunction. *Mov Disord.* 2022 May;37(5):949-961. doi: 10.1002/mds.29024. Epub 2022 Apr 14. PMID: 35420219; PMCID: PMC9323501.

Montanari M, Martella G, Bonsi P, Meringolo M. Autism Spectrum Disorder: Focus on Glutamatergic Neurotransmission. *Int J Mol Sci.* 2022 Mar 31;23(7):3861. doi: 10.3390/ijms23073861. PMID: 35409220; PMCID: PMC8998955.

Crittenden JR, Zhai S, Sauvage M, Kitsukawa T, Burguière E, Thomsen M, Zhang H, Costa C, Martella G, Ghiglieri V, Picconi B, Pescatore KA, Unterwald EM, Jackson WS, Housman DE, Caine SB, Sulzer D, Calabresi P, Smith AC, Surmeier DJ, Graybiel AM. CalDAG-GEFI mediates striatal cholinergic modulation of dendritic excitability, synaptic plasticity and psychomotor behaviors. *Neurobiol Dis.* 2021 Oct;158:105473. doi: 10.1016/j.nbd.2021.105473. Epub 2021 Aug 8. PMID: 34371144 Free PMC article.

Tassone A, Martella G, Meringolo M, Vanni V, Sciamanna G, Ponterio G, Imbriani P, Bonsi P, Pisani A. Vesicular Acetylcholine Transporter Alters Cholinergic Tone and Synaptic Plasticity in DYT1 Dystonia. *Mov Disord.* 2021 Jun 26. doi: 10.1002/mds.28698. Online ahead of print. PMID: 34173686

Martella G, Bonsi P, Imbriani P, Sciamanna G, Nguyen H, Yu-Taeger L, Schneider M, Poli SM, Lütjens R, Pisani A. Rescue of striatal long-term depression by chronic mGlu5 receptor negative allosteric modulation in distinct dystonia models. *Neuropharmacology*. 2021 Jul 1;192:108608. doi: 10.1016/j.neuropharm.2021.108608. Epub 2021 May 13. PMID: 33991565

D'Angelo V, Giorgi M, Paldino E, Cardarelli S, Fusco FR, Saverioni I, Sorge R, Martella G, Biagioni S, Mercuri NB, Pisani A, Sancesario G. A2A Receptor Dysregulation in Dystonia DYT1 Knock-Out Mice. *Int J Mol Sci*. 2021 Mar 7;22(5):2691. doi: 10.3390/ijms22052691. PMID: 33799994; PMCID: PMC7962104.

Trobiani L, Meringolo M, Diamanti T, Bourne Y, Marchot P, Martella G, Dini L, Pisani A, De Jaco A, Bonsi P. The neuroligins and the synaptic pathway in Autism Spectrum Disorder. *Neurosci Biobehav Rev*. 2020 Sep 28;119:37-51. doi: 10.1016/j.neubiorev.2020.09.017. Epub ahead of print. PMID: 32991906.

Sciamanna G, Ponterio G, Vanni V, Laricchiuta D, Martella G, Bonsi P, Meringolo M, Tassone A, Mercuri NB, Pisani A. Optogenetic Activation of Striatopallidal Neurons Reveals Altered HCN Gating in DYT1 Dystonia. *Cell Rep*. 2020 May 19;31(7):107644. doi: 10.1016/j.celrep.2020.107644. PMID: 32433955.

Imbriani P, D'Angelo V, Platania P, Di Lazzaro G, Scalise S, Salimei C, El Atiallah I, Colona VL, Mercuri NB, Bonsi P, Pisani A, Schirinzi T, Martella G. Ischemic injury precipitates neuronal vulnerability in Parkinson's disease: Insights from PINK1 mouse model study and clinical retrospective data. *Parkinsonism Relat Disord*. 2020 May;74:57-63. doi: 10.1016/j.parkreldis.2020.04.004. Epub 2020 Apr 20. PMID: 32335490.

Gorokhova E, Martella G, Motwani NH, Tretyakova NY, Sundelin B, Motwani HV. DNA epigenetic marks are linked to embryo aberrations in amphipods. *Sci Rep*. 2020 Jan 20;10(1):655. doi: 10.1038/s41598-020-57465-1. PMID: 31959811; PMCID: PMC6971077.

Yu-Taeger L, Ott T, Bonsi P, Tomczak C, Wassouf Z, Martella G, Sciamanna G, Imbriani P, Ponterio G, Tassone A, Schulze-Hentrich JM, Goodchild R, Riess O, Pisani A, Grundmann-Hauser K, Nguyen HP. Impaired dopamine- and adenosine- mediated signaling and plasticity in a novel rodent model for DYT25 dystonia. *Neurobiol Dis*. 2020 Feb;134:104634. doi: 10.1016/j.nbd.2019.104634. Epub 2019 Oct 31. PMID: 31678405.

Imbriani P, Tassone A, Meringolo M, Ponterio G, Madeo G, Pisani A, Bonsi P, Martella G. Loss of Non-Apoptotic Role of Caspase-3 in the PINK1 Mouse Model of Parkinson's Disease. *Int J Mol Sci*. 2019 Jul 11;20(14):3407. doi: 10.3390/ijms20143407. PMID: 31336695; PMCID: PMC6678522.

Schirinzi T, Martella G, Imbriani P, Di Lazzaro G, Franco D, Colona VL, Alwardat M, Sinibaldi Salimei P, Mercuri NB, Pierantozzi M, Pisani A. Dietary Vitamin E as a Protective Factor for Parkinson's Disease: Clinical and Experimental Evidence. *Front Neurol*. 2019 Feb 26;10:148. doi: 10.3389/fneur.2019.00148. PMID: 30863359; PMCID: PMC6399121.

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. RGS9-2 rescues dopamine D2 receptor levels and signaling in DYT1 dystonia mouse models. *EMBO Mol Med*. 2019 Jan;11(1):e9283. doi: 10.15252/emmm.201809283. PMID: 30552094; PMCID: PMC6328939.

Martella G, Bonsi P, Johnson SW, Quartarone A. Synaptic Plasticity Changes: Hallmark for Neurological and Psychiatric Disorders. *Neural Plast*. 2018 Oct 23;2018:9230704. doi: 10.1155/2018/9230704. PMID: 30425736; PMCID: PMC6218720.

Maltese M, Stanic J, Tassone A, Sciamanna G, Ponterio G, Vanni V, Martella G, Imbriani P, Bonsi P, Mercuri NB, Gardoni F, Pisani A. Early structural and functional plasticity alterations in a susceptibility period of DYT1 dystonia mouse striatum. *Elife*. 2018 Mar 5;7:e33331. doi: 10.7554/eLife.33331. PMID: 29504938; PMCID: PMC5849413.

Martella G, Meringolo M, Trobiani L, De Jaco A, Pisani A, Bonsi P. The neurobiological bases of autism spectrum disorders: the R451C-neurexins 3 mutation hampers the expression of long-term synaptic depression in the dorsal striatum. *Eur J Neurosci*. 2018 Mar;47(6):701-708. doi: 10.1111/ejn.13705. Epub 2017 Oct 4. PMID: 28921757.

Maltese M, Martella G, Imbriani P, Schuermans J, Billion K, Sciamanna G, Farook F, Ponterio G, Tassone A, Santoro M, Bonsi P, Pisani A, Goodchild RE. Abnormal striatal plasticity in a DYT11/SGCE myoclonus dystonia mouse model is reversed by adenosine A2A receptor inhibition. *Neurobiol Dis*. 2017 Dec;108:128-139. doi: 10.1016/j.nbd.2017.08.007. Epub 2017 Aug 18. PMID: 28823931.

Schirinzi T, Martella G, Pisani A. Double hit mouse model of Parkinson's disease. *Oncotarget*. 2016 Dec 6;7(49):80109-80110. doi: 10.18632/oncotarget.13460. PMID: 27876700; PMCID: PMC5348307.

Schirinzi T, Martella G, D'Elia A, Di Lazzaro G, Imbriani P, Madeo G, Monaco L, Maltese M, Pisani A. Outlining a Population "at Risk" of Parkinson's Disease: Evidence from a Case-Control Study. *Parkinsons Dis*. 2016;2016:9646057. doi: 10.1155/2016/9646057. Epub 2016 Aug 29. PMID: 27651975; PMCID: PMC5019913.

Schirinzi T, Madeo G, Martella G, Maltese M, Picconi B, Calabresi P, Pisani A. Early synaptic dysfunction in Parkinson's disease: Insights from animal models. *Mov Disord*. 2016 Jun;31(6):802-13. doi: 10.1002/mds.26620. Epub 2016 May 19. PMID: 27193205.

Martella G, Madeo G, Maltese M, Vanni V, Puglisi F, Ferraro E, Schirinzi T, Valente EM, Bonanni L, Shen J, Mandolesi G, Mercuri NB, Bonsi P, Pisani A. Exposure to low-dose rotenone precipitates synaptic plasticity alterations in PINK1 heterozygous knockout mice. *Neurobiol Dis*. 2016 Jul;91:21-36. doi: 10.1016/j.nbd.2015.12.020. Epub 2016 Feb 23. PMID: 26916954.



Madeo G, Schirinzi T, Maltese M, Martella G, Rapino C, Fezza F, Mastrangelo N, Bonsi P, Maccarrone M, Pisani A. Dopamine-dependent CB1 receptor dysfunction at corticostriatal synapses in homozygous PINK1 knockout mice. *Neuropharmacology*. 2016 Feb;101:460-70. doi: 10.1016/j.neuropharm.2015.10.021. Epub 2015 Oct 20. PMID: 26498506.

Maltese M, Martella G, Madeo G, Fagiolo I, Tassone A, Ponterio G, Sciamanna G, Burbaud P, Conn PJ, Bonsi P, Pisani A. Anticholinergic drugs rescue synaptic plasticity in DYT1 dystonia: role of M1 muscarinic receptors. *Mov Disord*. 2014 Nov;29(13):1655-65. doi: 10.1002/mds.26009. Epub 2014 Sep 4. PMID: 25195914; PMCID: PMC4216601.

Sciamanna G, Ponterio G, Tassone A, Maltese M, Madeo G, Martella G, Poli S, Schirinzi T, Bonsi P, Pisani A. Negative allosteric modulation of mGlu5 receptor rescues striatal D2 dopamine receptor dysfunction in rodent models of DYT1 dystonia. *Neuropharmacology*. 2014 Oct;85:440-50. doi: 10.1016/j.neuropharm.2014.06.013. Epub 2014 Jun 19. PMID: 24951854.

Martella G, Maltese M, Nisticò R, Schirinzi T, Madeo G, Sciamanna G, Ponterio G, Tassone A, Mandolesi G, Vanni V, Pignatelli M, Bonsi P, Pisani A. Regional specificity of synaptic plasticity deficits in a knock-in mouse model of DYT1 dystonia. *Neurobiol Dis*. 2014 May;65:124-32. doi: 10.1016/j.nbd.2014.01.016. Epub 2014 Feb 3. PMID: 24503369.

Madeo G, Schirinzi T, Martella G, Latagliata EC, Puglisi F, Shen J, Valente EM, Federici M, Mercuri NB, Puglisi-Allegra S, Bonsi P, Pisani A. PINK1 heterozygous mutations induce subtle alterations in dopamine-dependent synaptic plasticity. *Mov Disord*. 2014 Jan;29(1):41-53. doi: 10.1002/mds.25724. Epub 2013 Oct 25. PMID: 24167038; PMCID: PMC4022284.

Sciamanna G, Tassone A, Mandolesi G, Puglisi F, Ponterio G, Martella G, Madeo G, Bernardi G, Standaert DG, Bonsi P, Pisani A. Cholinergic dysfunction alters synaptic integration between thalamostriatal and corticostriatal inputs in DYT1 dystonia. *J Neurosci*. 2012 Aug 29;32(35):11991-2004. doi: 10.1523/JNEUROSCI.0041-12.2012. PMID: 22933784; PMCID: PMC3471539.

Sciamanna G, Hollis R, Ball C, Martella G, Tassone A, Marshall A, Parsons D, Li X, Yokoi F, Zhang L, Li Y, Pisani A, Standaert DG. Cholinergic dysregulation produced by selective inactivation of the dystonia-associated protein torsinA. *Neurobiol Dis*. 2012 Sep;47(3):416-27. doi: 10.1016/j.nbd.2012.04.015. Epub 2012 May 3. PMID: 22579992; PMCID: PMC3392411.

Grundmann K, Glöckle N, Martella G, Sciamanna G, Hauser TK, Yu L, Castaneda S, Pichler B, Fehrenbacher B, Schaller M, Nuscher B, Haass C, Hettich J, Yue Z, Nguyen HP, Pisani A, Riess O, Ott T. Generation of a novel rodent model for DYT1 dystonia. *Neurobiol Dis*. 2012 Jul;47(1):61-74. doi: 10.1016/j.nbd.2012.03.024. Epub 2012 Mar 26. PMID: 22472189.

**Roma 02/08/2021**

A handwritten signature in black ink, appearing to read "Silvestro", is centered within a light blue rectangular background.