

Summary: 55 publications, 17 as first author and 9 as last author.

2021

1. Quattrone, A., Antonini, A., Vaillancourt, D.E., Seppi, K., Ceravolo, R., Strafella, A.P., Morelli, M., Nigro, S., Vescio, B., Bianco, M.G., Vasta, R., Arcuri, P.P.I, Weis, L., Fiorenzato, E., Biundo, R., Burciu, R.G., Krismer, F., McFarland, N.R., Mueller, C., Gizewski, E.R., Cosottini, M., Del Prete, E., Mazzucchi, S., Quattrone, A. **A New MRI Measure to Early Differentiate Progressive Supranuclear Palsy From De Novo Parkinson's Disease in Clinical Practice: An International Study.** *Movement Disorders* Volume 36, Issue 3, March 2021, Pages 681-689

Under review

Roberta Biundo, Luca Weis, Eleonora Fiorenzato, Francesca Pistonesi, Annachiara Cagnin, Alessandra Bertoldo, Diego Cecchin, Angelo Antonini. **The contribution of Beta-Amyloid to dementia in Lewy Body Diseases: a 1-year follow-up study.** *Brain journal.*

Eleonora Fiorenzato, PhD, PsyD,1* Angelo Antonini, MD, PhD,2 Patrizia Bisiacchi, PhD,1 Luca Weis, PhD,2 Roberta Biundo. **Asymmetric dopamine transporter loss affects cognitive and motor progression in Parkinson disease: a PPMI study.** *Movement Disorder Journal*

Raquel Luis-Martinez, Roberto Di Marco*, Luca Weis, Valeria Cianci, Francesca Pistonesi, Alfonso Baba3, Myriam Carecchio, Roberta Biundo, Chiara Tedesco, Stefano Masiero, Angelo Antonini. **Impact of social and mobility restrictions in Parkinson's disease during COVID-19 lockdown.** (*BMC neurology*).

- Martini A, Weis L, Schifano R, Antonini A, Biundo R. **Neuroimaging correlates of ICBs in Parkinson's disease.** (under preparation)
- Porcaro C *Biundo R*, Weis L, Fiorenzato E, Antonini A. **BOLD complexity in PD patients according to cognitive states investigated by Fractal Dimension.** (under preparation).

2020

2. Martini A, Weis L, Schifano R, Pistonesi F, Fiorenzato E, Antonini A, Biundo R. **Differences in cognitive profiles between Lewy body and Parkinson's disease dementia.** *J Neural Transm (Vienna)*. 2020 Jan 2. doi: 10.1007/s00702-019-02129-2.
3. Di Censo R, Abdelnour C, Blanc F, Bousiges O, Lemstra AW, van Steenoven I, Onofrij M, Aarsland D, Bonanni L; European DLB consortium. **CSF tau proteins correlate with an atypical clinical presentation in dementia with Lewy bodies.** *J Neurol Neurosurg Psychiatry*. 2020 Jan;91(1):109-110. doi: 10.1136/jnnp-2019-320980. Epub 2019
4. Nigro S, Antonini A, Vaillancourt DE, Seppi K, Ceravolo R, Strafella AP, Augimeri A, Quattrone A, Morelli M, Weis L, Fiorenzato E, Biundo R, Burciu RG, Krismer F, McFarland NR, Mueller C, Gizewski ER, Cosottini M, Del Prete E, Mazzucchi S, Quattrone A. **Automated MRI Classification in Progressive Supranuclear Palsy: a Large International Cohort Study.** *Mov Disord*. 2020 Feb 24. doi: 10.1002/mds.28007. [Epub ahead of print]
5. Alice Martini, MSc^{a*}, Stefano Tamburin, MD, PhD^b, Roberta Biundo, PhD^c, Luca Weis, PhD^c, Angelo Antonini, MD, PhD^d, Clara Pizzolo, BSc^a, Giuseppe Leoni, BSc^a, Silvia Chimenton, MD^b, Nicola M.J.

Edelstyn, PhD^a. **Incentive-driven decision-making networks in de novo and drug-treated Parkinson's disease patients with impulsive-compulsive behaviors: A systematic review of neuroimaging studies** *Parkinsonism & Related Disorders* Parkinsonism Relat Disord. 2020 Sep;78:165-177. doi: 10.1016/j.parkreldis.2020.07.020. Epub 2020 Jul 28.

2019

6. Eleonora Fiorenzato, Antonio P. Strafella, Jinhee Kim, Roberta Schifano, Luca Weis, Angelo Antonini, Roberta Biundo* **Dynamic functional connectivity signature of cognitive deficits in Parkinson's disease.** *Brain*. 2019 Jul 6. pii: awz192. doi: 10.1093/brain/awz192.
7. Martini, A., Weis, L., Fiorenzato, E., Schifano, R., Cianci, V., Antonini, A., Biundo, R. **Impact of cognitive profile on impulse control disorders presence and severity in Parkinson's disease.** *Frontiers Neurology Front Neurol*. 2019 Mar 22;10:266. doi: 10.3389/fneur.2019.00266.
8. Eleonora Fiorenzato^{a*}, Angelo Antonini^b, Valeria Camparini^a, Luca Weis^a, Carlo Semenza^{a,b}, Roberta Biundo **Characteristics and progression of cognitive deficits in Progressive Supranuclear Palsy, Multiple System Atrophy and Parkinson Disease.** *J Neural Transm (Vienna)*. 2019 Aug 20. doi: 10.1007/s00702-019-02065-1. [Epub ahead of print]
9. Irena Rektorova, and Roberta Biundo. **Non-invasive brain stimulation to treat cognitive symptoms of Parkinson's disease.** *Parkinsonism Relat Disord*. 2019 Sep 14. pii: S1353-8020(19)30389-X. doi: 10.1016/j.parkreldis.2019.09.012.
10. Roberta Biundo, Eleonora Fiorenzato, Angelo Antonini. **Reply to letter to Editor: Dynamic functional connectivity changes in Lewy body disease.** *Brain*. 2019 Oct 12. pii: awz316. doi: 10.1093/brain/awz316.

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11. Fiorenzato E, Biundo R, Cecchin D, Frigo AC, Kim J, Weis L, Strafella AP, Antonini A. **Brain Amyloid Contribution to Cognitive Dysfunction in Early-Stage Parkinson's Disease: The PPMI Dataset.** *J Alzheimers Dis*. 2018;66(1):229-237. doi: 10.3233/JAD-180390.
12. Hoogland J, van Wanrooij LL, Boel JA, Goldman JG, Stebbins GT, Dalrymple-Alford JC, Marras C, Adler CH, Junque C, Pedersen KF, Mollenhauer B, Zabetian CP, Eslinger PJ, Lewis SJG, Wu RM, Klein M, Rodriguez-Oroz MC, Cammisuli DM, Barone P, Biundo R, de Bie RMA, Schmand BA, Tröster AI, Burn DJ, Litvan I, Filoteo JV, Geurtsen GJ, Weintraub D; IPMDS Study Group "Validation of Mild Cognitive Impairment in Parkinson Disease". **Detecting Mild Cognitive Deficits in Parkinson's Disease: Comparison of Neuropsychological Tests.** *Mov Disord*. 2018 Nov;33(11):1750-1759. doi: 10.1002/mds.110. Epub 2018 Sep 14. PMID: 30216541
13. Antonini A, Gentile G, Giglio M, Marcante A, Gage H, Touray MML, Fotiadis DI, Gatsios D, Konitsiotis S, Timotijevic L, Egan B, Hodgkins C, Biundo R, Pellicano C; PD_Manager consortium. **Acceptability to patients, carers and clinicians of a mHealth platform for the management of Parkinson's disease (PD_Manager): study protocol for a pilot randomised controlled trial.** *Trials*. 2018 Sep 14;19(1):492. doi: 10.1186/s13063-018-2767-4. PMID: 30217235

2017

14. Roberta Biundo, PhD 1*; Luca Weis, PhD1*; Giovanni Abbruzzese, MD, PhD3; Giovanna Calandra-Buonaura, MD, PhD4,5; Pietro Cortelli, MD, PhD4,5; Maria Cristina Jori, MD6; Leonardo Lopiano MD, PhD7; Roberto Marconi, MD8; Angela Matinella, MD9, Francesca Morgante, MD, PhD10; Alessandra Nicoletti, MD11, Tiziano Tamburini, MD12; Michele Tinazzi, MD PhD13, Mario Zappia

MD, PhD¹⁴, Ruxandra Julia Vorovenci, MD¹⁵, Angelo Antonini, MD, PhD^{1,2}. **Impulse control disorders in advanced Parkinson's disease with Dyskinesia: the ALTHEA study.** *Mov Disord.* 2017 Sep 27. doi: 10.1002/mds.27181. [Epub ahead of print] PMID:28960475

15. Biundo, R, Weis L; Fiorenzato E; Antonini A. **Cognitive rehabilitation in Parkinson's Disease: Is It Feasible?** *Arch Clin Neuropsychol.* 2017 Sep 18:1-21. doi: 10.1093/arclin/acx092. [Epub ahead of print] PMID:28961738
16. Biundo, R., Fiorenzato, E., Antonini, A., **Nonmotor Symptoms and Natural History of Parkinson's Disease: Evidence From Cognitive Dysfunction and Role of Noninvasive Interventions**, in "Non-motor Parkinson's: The Many Hidden Faces" *Int Rev Neurobiol.* 2017; 133:389-415. doi: 10.1016/bs.irm.2017.05.031. Epub 2017 Jul 13. PMID:28802926
17. Fiorenzato E, Antonini A, Wenning G, Biundo R. **Cognitive impairment in multiple system atrophy.** *Mov Disord.* 2017 Jul 3. doi: 10.1002/mds.27085.
18. Kramberger MG, Auestad B, Garcia-Ptacek S, Abdelnour C, Olmo JG, Walker Z, Lemstra AW, Londo E, Blanc F, Bonanni L, McKeith I, Winblad B, de Jong FJ, Nobili F, Stefanova E, Petrova M, Falup-Pecurariu C, Rektorova I, Bostantjopoulou S, Biundo R, Weintraub D, Aarsland D; E-DLB. **Long-Term Cognitive Decline in Dementia with Lewy Bodies in a Large Multicenter, International Cohort.** *J Alzheimers Dis.* 2017 Mar 10. doi: 10.3233/JAD-161109.
19. Fiorenzato E, Weis L, Seppi K, Onofrij M, Cortelli P, Zanigni S, Tonon C, Kaufmann H, Shepherd TM, Poewe W, Krismer F, Wenning G, Antonini A, Biundo R; Movement Disorders Society MSA (MODIMSA) Neuropsychology and Imaging Study Groups. **Brain structural profile of multiple system atrophy patients with cognitive impairment.** *J Neural Transm (Vienna).* 2017 Mar;124(3):293-302. doi: 10.1007/s00702-016-1636-0. Epub 2016 Oct 24.

2016

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21. Cancela, J., Mascato, S.V., Gentile, G., Giglio, M., Biundo, R., Waldmeyer, M.T.A., Antonini, A. **Design and development of a mobile application to explore cognitive skills in Parkinson's disease patients.** 14th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2016; Paphos; Cyprus; 31 March 2016 through 2 April 2016; IFMBE Proceedings Volume 57, 2016, Pages 1144-1149. DOI: 10.1007/978-3-319-32703-7_223
22. Polli A, Weis L, Biundo R, Thacker M, Turolla A, Koutsikos K, Chaudhuri KR, Antonini A. **"Anatomical and Functional Correlates of Persistent Pain in Parkinson's disease"**. *Mov Disord.* 2016 Oct 5. doi: 10.1002/mds. 26826.
23. Fiorenzato E, Weis L, Falup-Pecurariu C, Diaconu S, Siri C, Reali E, Pezzoli G, Bisiacchi P, Antonini A, Biundo R. **Montreal Cognitive Assessment (MoCA) and Mini-Mental State Examination (MMSE) performance in progressive supranuclear palsy and multiple system atrophy.** *J Neural Transm (Vienna).* 2016 Dec;123(12):1435-1442. doi: 10.1007/s00702-016-1589-3. Epub
24. Biundo R, Weis L, Antonini A. **tDCS effect on cognitive performance in Parkinson's disease.** *Mov Disord.* 2016 Aug;31(8):1253-4. doi: 10.1002/mds.26685. Epub 2016 Jun 2. PMID: 27251013

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26. Biundo R¹, Ph.D; Weis L¹, Ph.D; Bostantjopoulou S.², MD, Ph.D; Stefanova E.³, MD, Ph.D; Falup-Pecurariu C.⁴, MD, Ph.D; Kramberger M.G.⁵, MD, Ph.D; Geurtsen G. J.⁶, Ph.D; Antonini A.¹, MD, Ph.D; Weintraub D.⁷, MD; Aarsland D.⁸, MD, Ph.D on behalf of the DLB consortium. **MMSE and MoCA in Parkinson's disease and dementia with Lewy bodies: a multicenter 1-year follow-up study.** *J Neural Transm.* 2016 Feb. DOI: 10.1007/s00702-016-1517-6.
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28. Biundo R, Weis L, Antonini A. Cognitive decline in Parkinson's disease: the complex picture. *Nature Partner Journals.* (2016) doi:10.1038/npjparkd.2016.18.

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31. Biundo R, Facchini S. **Training Autogeno applicato a pazienti con malattia di Parkinson, uno studio preliminare.** *Rivista Psyche Nuova.* Ed. CISSPAT Padua.
32. Franciotti R, Delli Pizzi S, Perfetti B, Tartaro A, Bonanni L, Thomas A, Weis L, Biundo R, Antonini A, Onofri M. **Default mode network links to visual hallucinations: A comparison between Parkinson's disease and multiple system atrophy.** *Mov Disord.* 2015 Jun 12. doi: 10.1002/mds.26285.
33. Pilleri M, Weis L, Zabeo L, Koutsikos K, Biundo R, Facchini S, Rossi S, Masiero S, Antonini A. **Overground robot assisted gait trainer for the treatment of drug-resistant freezing of gait in Parkinson disease.** *J Neurol Sci.* 2015 Aug 15;355(1-2):75-8. doi: 10.1016/j.jns.2015.05.023. Epub 2015 May 29.
34. Biundo R, Weis L, Facchini S, Formento-Dojot P, Vallelunga A, Pilleri M, Weintraub D, Antonini A. **Patterns of cortical thickness associated with impulse control disorders in Parkinson's disease.** *Mov Disord.* 2015 Apr 15;30(5):688-95. doi: 10.1002/mds.26154. Epub 2015 Feb 4.

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