

**ROBERTA BIUNDO**  
 Clinical Neuropsychologist  
 Senior Researcher  
 Short-term dynamic Psychotherapist (PsyD)  
 Post Doc Research Associate  
 Ph.D. in Psychological Science  
 Postgraduate certificate in higher education (PGCHE)  
 II level Master in Neuropsychology Across the Lifespan

Curriculum Vitae

**Part I – General Information**

Full Name	Roberta Biundo
Place and Date of Birth	Palermo, 11-04-1980
Citizenship	Italian
National Insurance Number	BNDRRT80D51G273Q
E-mail	roberta.biundo@unipd.it
Google Scholar	<a href="https://scholar.google.com/citations?user=cBz8Z9oAAAAJ&amp;hl=it">https://scholar.google.com/citations?user=cBz8Z9oAAAAJ&amp;hl=it</a>
Research gate	<a href="https://www.researchgate.net/profile/Roberta_Biundo">https://www.researchgate.net/profile/Roberta_Biundo</a>
LinkedIn	<a href="https://www.linkedin.com/in/roberta-biundo-b5aa0b42/">https://www.linkedin.com/in/roberta-biundo-b5aa0b42/</a>
Researcher/ ORCID/ Scopus ID:	K-2060-2016/ 0000-0001-5846/ 755X/8859828200
Driving Licence	Yes
Spoken Languages	Italian, English

**Part II – Education**

Type	Year	Institution	Notes (Degree, Experience,)
PsyD	2015	“Centro Italiano Studio Sviluppo Psicoterapia A Breve Termine (C.I.S.S.P.A.T.)”. Padua (IT).	Registered Short Term Dynamic Psychotherapist to the Veneto (IT) registry. (N.7613).
PhD	2011	University of Hull (UK), EU Marie Curie Network.	Ph.D. in Psychological Science.
Post-graduate studies	2008	University of Cambridge (UK).	First Certificate in English, Cambridge ESOL level 1.
Post-graduate studies	2008	Psychology Department, University of Hull (UK).	Postgraduate Certificate in higher education (PGCHE).
Post-graduate studies	2006	The Vivian Smith Advanced Studies Summer Institute of the International Neuropsychological Society. Xilocastro (GR).	II level Master in Neuropsychology across the Lifespan.
Post-graduate studies	2005	Psychology Department, University of Trieste, (IT).	Italian HCPC equivalent (48/50).
University graduation	2004	University of Trieste, (IT).	Bachelor of Science Honours Degree in Experimental Psychology (110 cum laude/110).

**Part III – Appointments**

IIIA – Academic Appointments

Start	End	Institution	Position
2021	2023	Department of General Psychology	Assistant Professor
2017	2023	Italian Ministry of Education (MIUR).	Qualified Associate Professor for the topic (11/E1): General Psychology, Psychobiology and Psychometry ASN 2016.
2016	now	Expert/Italian “Cultore della Materia” University of Padua (IT).	“Neurology” course at the MSc in Cognitive Neuroscience and Clinical Neuropsychology (M-PSI/02).
2011	2020	“San Camillo Hospital”, I.R.C.C.S, Venice (IT).	Senior Researcher position and Neuropsychology Coordinator at the Parkinson’s disease and Movement disorder unit (cognitive screening and/or full neuropsychology investigation of ~ 100 patients a year).
2007	2008	Clinical Neuroscience Centre at Department of Psychology, University of Hull (UK).	Research assistant.

IIIB – Other Appointments

Start	End	Institution	Position
2015	now	Cogstate	Local Expert Advisor (LEAD) for Clinical Trials focused on evaluating the efficacy and safety and tolerability of several anti-dementia drugs.

**Part IV – Teaching**

**IV-A: Module leader/Course leader/Task force**

2021	Expert European neuropsychology leader. Parkinson's Foundation Rehabilitation Medicine Initiative	“Rehabilitation Medicine Task Force”
2021	Co-director. European Academy of Neurology (EAN). Oslo (NO).	Course: “Neuropsychology in Parkinson disease. Train the Trainer”.
2021-2022	Module leader. Department of General Psychology at Padua University (IT).	“ <i>Clinical neuropsychological assessment</i> ” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (14 hours).
2021-2022	Module leader. Department of general Psychology at Padua University (IT).	“ <i>Neuropsychological assessment and rehabilitation</i> ” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (42 hours).
2020	Module leader. Department of General Psychology at Padua University (IT).	“ <i>Clinical neuropsychological assessment</i> ” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (14 hours).
2020	Lecture at II level Master in Clinical and	Lecture title “Malattia di Parkinson e

	Experimental Neuropsychology. Department of Psychology at Verona University (IT).	parkinsonismi: profilo cognitivo e valutazione neuropsicologica” (6 hours).
2019	Module leader. Department of Psychology at Padua University (IT).	“Clinical neuropsychological assessment” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (14 hours).
2019	Course leader. European Academy of Neurology (EAN). Oslo (NO).	Focused Workshop: “Management of cognitive aspects in Parkinson’s disease and parkinsonisms”.
2018	Module support. Department of Psychology at Padua University (IT).	“Neurology” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (10 hours).
2017	Module support. Department of Psychology at Padua University (IT).	“Neurology” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (10 hours).
2016	Module support. Department of Psychology at Padua University (IT).	“Neurology” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (10 hours).
2015	Module support. Department of Psychology at Padua University (IT).	“Neurology” (module in English) for the MSc course on Cognitive Neuroscience and Clinical Neuropsychology (10 hours).
2013	Course leader- II joint conference Limpe/Dismov, Rome (IT).	Course title “Diagnosis and management of cognitive and behavioural disorders in Parkinson's disease and parkinsonisms” (ECM credits) (two-day course).
2013	Course leader- I joint conference Limpe/Dismov, Salerno (IT).	Course title “Diagnosis and management of cognitive and behavioural disorders in Parkinson's disease and parkinsonisms” (ECM credits) (two-day course).
2012	Faculty member-Venice (IT).	Course title “Percorsi diagnostici, farmacologici e riabilitativi nella malattia di Parkinson” (ECM credits) (two-day course).
2010	Module leader. Department of Psychology, University of Hull (UK).	Teaching course on Design, Execution and Analysis of Research.
2010	Module leader. Department of Psychology, University of Hull (UK).	Teaching course on Tutorial Based Practical.
2009/10	Module leader. Department of Psychology, University of Hull (UK).	Teaching course on Execution and Analysis of Research.

**National invited lecture**

Year	Institution	Lecture/Course
2021	Teaching course	Lecture title “Disturbi Cognitivi: valutazione e riabilitazione cognitiva”
2021	Teaching course on behalf of Fresco Parkinson institute	Lecture title “La malattia di Parkinson e i disturbi cognitivi”
2020	Teaching course on behalf of “neuroscience-caregiver academy”	Lecture title “Aspetti cognitivi e psicologici nella malattia di parkinson”.
2020	Teaching course on behalf of Joint conference Limpe/Dismov, Firenze (IT).	Lecture title “La valutazione neuropsicologica nella malattia di Parkinson”.
2019	Joint session German-Italy. V Joint conference Limpe/Dismov, Catania (IT).	Lecture title “Cognitive profile in Multiple System Atrophy and Progressive Supranuclear Palsy”.
2018	Teaching course on behalf of Joint conference Limpe/Dismov, Rome-Advanced school for	Lecture title “Diagnosis and management of cognitive and behavioural disorders in Parkinson's disease and

	movement disorders in Torino (IT).	parkinsonisms".
2017	Teaching course on behalf of II Joint conference Limpe/Dismov, Verona (IT).	Lecture title "La valutazione del profilo cognitivo nella malattia di Parkinson".
2017	Chief person. Teaching course on behalf of III Joint conference Limpe/Dismov, Verona (IT).	Session title "I disturbi neuro-comportamentali nella malattia di Parkinson e i percorsi diagnostico terapeutici e assistenziali".
2015	XXI World Congress on Parkinson's Disease and Related Disorders. Milano (IT).	Lecture tile "Imaging correlates of Parkinson cognitive impairment".
2014	Summer School on rehabilitation of Parkinson's Disease. Conference Limpe, Rome (IT).	Lecture title "Assessment strategies and cognitive rehabilitation".
2014	Teaching course "La gestione Multidisciplinate nella malattia di Parkinson". Mestre (IT).	Lecture title "I disturbi cognitivi nella M. di Parkinson".
2013	Teaching course "La malattia di Parkinson, attualità e nuove sfide". Padua (IT).	Lecture title "Screening dei disturbi cognitivi".
2013	Summer School on rehabilitation of Parkinson Disease. Conference Limpe, Venice (IT).	Lecture title "Parkinsons Rehabilitation in Cognition. Prehaco Study".
2013	Teaching course: "Parkinsonismi degenerativi: disturbi cognitivi e motori, farmaci e musicoterapia, un connubio possibile? Belluno (IT).	Lecture title "Fisiopatologia del disturbo cognitivo nel circuito dei nuclei della base".
2013	Teaching course "Malattia di Parkinson. Attualità e nuove sfide". Padua (IT).	Lecture title "Relazione tra deambulazione e funzioni cognitive: punti di vista".
2012	Teaching course: "Clinico e paziente nella Malattia di Parkinson: la multidimensionalità nella pratica clinica". Padua (IT).	Lecture title "Paziente con problemi cognitivi e comportamentali".
2012	Teaching course "Controversie nella malattia di Parkinson". Udine (IT).	Lecture title "Inquadramento cognitivo e comportamentale nel Parkinson".
2012	Teaching course "Controversie cliniche e diagnostiche" Padua (IT).	Lecture title "Inquadramento cognitivo e comportamentale del paziente con Parkinson".
2012	Teaching course "Percorsi diagnostici, farmacologici e riabilitativi nella malattia di Parkinson" Venice (IT).	Lecture title "Inquadramento cognitivo nel Parkinson".
2012	Symposium "Gestione dei disturbi cognitivi e comportamentali nel Parkinson e nei disturbi del movimento" on behalf of joint conference Limpe/Dismov, Pisa (IT).	Lecture title "Inquadramento comportamentale".
2011	"Il Parkinson come paradigma di malattia neuropsichiatrica" on behalf of XXXVIII Conference Limpe, Venice-Lido (IT).	Lecture title "Brain atrophy assessment by means of Magnetic Resonance Imaging".
2010	Teaching course "Diagnosi e gestione dei sintomi non motori nella malattia di parkinson". Venice (IT).	Lecture title "Disturbi cognitivi e comportamentali".

**IV-B: International invited lecture**

Year	Institution	Lecture/Course
2021	European Academy of Neurology (EAN). Oslo (NO).	Lecture title "The characteristics of cognitive impairment in DLB"
2020	Teaching course on behalf of the Movement disorder society-educational committee (MDE-EC). Poiana Brasov (RO).	Lecture title "Dementia in Lewy Body Disorders: how neuropsychology can help".

2019	European Academy of Neurology (EAN). Oslo (NO).	Lecture title “Clinical Profile of cognitive decline in patients with Parkinson’s disease, Progressive Supranuclear Palsy and Multiple System Atrophy”.
2018	Non-Motor-Parkinson’s disease-group, Madrid (SP).	Lecture title “Clinical Profile of cognitive decline in patients with Parkinson’s disease, Progressive Supranuclear Palsy and Multiple System Atrophy”.
2016	6th International Congress on MSA, New York City at New York University (USA).	Lecture title “Cognitive and psychiatric impairment in MSA: how relevant is it and what can we do about it?”.
2016	11th International Congress on Non-Motor Dysfunctions in Parkinson’s Disease and Related Disorders. Ljubljana (SVN).	Lecture title “Cognitive rehabilitation in PD: is it possible?”.
2016	5th Movement Disorder Teaching Course, Poiana Brasov (RO).	Lecture title “Neuropsychological Assessment in advanced Parkinson’s disease”.
2015	Measuring Non-Motor Symptoms of Parkinson’s Disease: 10 years since NMSQuest, Madrid (SP).	Lecture title “Cognitive impairment in PD”.
2010	National Congress of Romanian Society of Neurology, Bucharest (RO).	Lecture title “Neurocognitive evaluation in patients with PD”.

**IV-C: Supervisor Theses**

Type	Year	University	Student
Co-supervisor Master II Level in Clinical Neuropsychology	2013/4	Psychology Department. University of Padua, (IT).	Manuela Giglio
Co-supervisor Master degree in “Cognitive Neuroscience and Clinical Neuropsychology”	2014/20	Psychology Department. University of Padua, (IT).	Denise Dal Lago, Valeria Camparini, Augusta Russo, Francesca Fugazza, Tommaso Gandolfi, Asia Di Liberto, Michela Garon, Cristina Benetton, Corinna Moradei, Laura di Laudo, Barbara Biagioni.
Co-supervisor Master degree in “Neuroscienze e Riabilitazione Neuropsicologica”	2015/20	Psychology Department. University of Padua, (IT).	Giovanni Gentile, Elisa Filippi, Antonio Orefice, Francesca Pistonesi, Anna Carollo, Gaia Rossi, Valeria Tornabene
Co-supervisor PhD thesis: “Cognitive and brain imaging changes in parkinsonisms”	2014-2017	CN2, Psychology Department. University of Padua, (IT).	Eleonora Fiorenzato
Co-supervisor Medical degree	2019-2020	Neuroscience Department, University of Padua, (IT).	Francesco Pirone, Beatrice Barbato, Luca Toscano, Francesco Giangiacomi, Marco Cavallaccio.
Supervisor/co-supervisor Master degree in “Cognitive Neuroscience and Clinical Neuropsychology”	2021/22	Psychology Department. University of Padua, (IT).	Rowan Foster, Lozana Shametaj, Gemma Boccaletti
Co-supervisor Master degree in “Neuroscienze e Riabilitazione Neuropsicologica”	2021/22	Psychology Department. University of Padua, (IT).	Camilla Rossini, Elisa Bassoli, Noemi Cazzola
Post graduate school in Psychology Clinic	2021/2022	Psychology Department. University of Padua, (IT).	Valentina Falconetti, Veronica Rizzato
Post graduate school in Neuropsychology	2021/2022	Psychology Department. University of Padua, (IT).	Daniela D’amperio

**Part V Professional Activities**

**V-A International Research projects**

Year	Name of the project	Topic
2021-now	Movement disorder society (MDS) PD-MCI task force subgroup meeting	International consortium focusing on revision of mild cognitive impairment criteria (MCI) in PD patients
2020-now	MDS cognitive Scales Task force.	International consortium conducting a systematic review of cognitive scales
2018-2023	BCN PARK project (PD Consortium neuroimaging).	International consortium focusing on neuroimaging biomarkers and dementia profile in PD patients.
2015-now	Non-Motor-Parkinson's disease- Junior Subgroup.	A global survey of linguistic validations of the NMSQuest and NMSS: implications for nonmotor studies in Parkinson's disease.
2015-now	Movement Disorder and Multisystem Atrophy (MoDiMSA).	International consortium focusing on neuroimaging biomarkers and dementia profile in MSA patients.
2014-now	MDS PSP Study Group Meeting.	International consortium focusing on neuroimaging biomarkers and dementia profile in PSP patients.
2014-now	Multi-centre cohort-studies in Lewy-body dementia (DLB).	Challenges in harmonizing different clinical and biomarker protocols (22 sites all over the world).

**Part V-B – Editorial activities**

2021	Conferences external expert	External Reviewer for the abstract rating of EAN Conference 2017. I have been involved in the rating of 100 abstracts.
2017	Conferences external expert	External Reviewer for the abstract rating of EAN Conference 2017. I have been involved in the rating of 100 abstracts.
2020	Editorial activity	Review Editor for the journals Frontiers in Neuroscience, Frontiers in Neurology and Frontiers in Psychiatry.
2015-now	Reviewer	Ad hoc Reviewer for the following medical, neurology and psychology journals: Journal of the Neurological Science; Cortex; PlosOne; Neuropsychiatric disease and treatment; The Journal of Clinical Psychiatry; Movement Disorder; Journal of Neurology; Neurosurgery, and Psychiatry; Journal of the International Neuropsychological Society; European Neurology; Neurology research, Brain Topography; Neurocase; NPJ; Neurodegenerative Disease Management; Annals of Neurology; Frontiers; Journal of Parkinsonisms and Related Disorders; Acta Neurologica Scandinavia; Brain and Language.

**Part V-C Professional memberships**

2014-2020	Associate member of the International Parkinson's disease and movement disorder society (MDS).
2014-2020	Member of Italian Society of Neuropsychology -SINP ( <a href="https://sinp-web.org/chi-siamo/soci/">https://sinp-web.org/chi-siamo/soci/</a> ).
2015-2019	Elected Member of the European Education Committee, on behalf of the International Parkinson and Movement Disorders society European Section, Scientific panel member of the European Academy of Neurology - Movement Disorders section.
2015-now	Regular member of European Huntington's disease network (EHDN).

**Part V-D Prize and Awards**

Year	Title
2019	Chair of the symposium "management of cognitive symptoms in parkinsonisms" on behalf of European Academy of Neurology (EAN). Oslo (NO)
2014-2018	Course coordinator of the CME training courses for Psychologists/Medical Doctors focused on "diagnosis and management of cognitive and behavioural disorders in Parkinson's disease" on behalf of the Joint movement disorder national conference Limpe/Dismov (I-IV).
2016	Grant award as second best poster, senior researcher category, Science Day, IRCCS "San Camillo" Hospital.
2015	Travel Grant Award to attend Neuropsychiatry in Parkinson's disease symposium (Amsterdam April).
2014	Neureca research fellowship to collect and process data to validate MCI criteria as part of PD-MCI task force multi-centres study. M.J. Fox Foundation.
2014	Grant award as best poster, senior researcher category, Science Day, IRCCS "San Camillo" Hospital.
2011-2019	Several Travel Grant Awards to attend international neurology conferences.
2009	Department of Psychology Research Committee Research Support (DRC) grant.
2009	Grindley Grant. Non-EPS meeting.
2007	Marie Curie Network fellowship, research assistant position at the Univ. of Hull, UK.
2007	MOVE fellowship for attending six months of international professional training at the Univ. of Hull, UK.
2006	Fee and Accommodation fellowship to take part in The Vivian Smith Advanced Studies Summer Institute of the International Neuropsychological Society. Xilocastro (GR).

**Part VI- Funding Information [grants as PI-principal investigator or Co-Investigator]**

Year	Title	Program	Grant value
2018-ongoing	<b>NHS grant GR-2016-02361986- Principal Investigator.</b> "Validation of mild cognitive impairment criteria in Italian Parkinson's disease patients".	The main object of the project is to provide valid neuropsychological tools to ameliorate prognosis and improve patients' allocation to individual treatments.	344.419
2018-2023	<b>European project PD-Pal. Horizon 2020</b> Grant N: 825785 Palliative Care in people with Parkinson's disease. <i>Co-Investigator (Responsible for definition of cognitive evaluations and home treatments) PI: Prof. Angelo Antonini</i>	The main object of the project is to build and evaluate an innovative a mHealth ecosystem for Parkinson's disease (PD) management. As regards, the cognitive aspect, the main object is to implement and apply computerizing cognitive battery	3.980.000

		to explore/monitor how discontinuous dopaminergic stimulation in PD patients could affect not only motor symptoms but also cognitive performance.	
2014-2017	<b>European project-PD manager. Horizon 2020</b> PHC-26 topic: Self-management of health and disease. Grant N.: 643706. <i>Co-Investigator (Responsible of definition of cognitive evaluations and home treatments) PI: Prof. Angelo Antonini</i>	The main object of the project is to build and evaluate an innovative a mHealth ecosystem for Parkinson’s disease (PD) management. As regards, the cognitive aspect, the main object is to implement and apply computerizing cognitive battery to explore/monitor how discontinuous dopaminergic stimulation in PD patients could affect not only motor symptoms but also cognitive performance.	4.300.000
2009-2012	<b>NHS grant GR- 2009-1530177- Co-Investigator</b> “Cognitive, imaging and genetic predictors of behavioural disturbances in Parkinson’s disease”.	To address the cognitive and anatomical mechanisms leading to ICD development. In addition, by exploring genetic polymorphisms, to identify predictors which may be used for clinical screening.	352.000

**Part VII – Research Activities**

Keywords	Brief Description
Dementia	Having five main research interests related to Parkinsons and other movement disorders. The first is to understand and define cognitive and behavioural changes in parkinsonisms (PSP, MSA, CBS, DLB, HD) and their clinical predictors. In this regards, aiming 1) to identify the feasibility and sensitivity of cognitive tests in detecting and monitoring cognitive decline in dementia patients; 2) to implement Italian validation “PD with mild cognitive” criteria; and 3) to build up a healthy subjects database with valid information about cognitive and brain alterations progression from a healthy population-based study. This effort has been recently awarded by an NHS GR-2016-02361986 grant. The second is neuroimaging, with particular focus on the definition of specific brain neurochemical and network changes associated with neurodegeneration. MRI and fluorodeoxyglucose PET are used to understand alterations in brain networks and connectivity. The third is the neuromodulation by transcranial magnetic stimulation, to identify indicators of neurorehabilitation treatment efficacy. The fourth is development of innovative rehabilitation strategies and home monitoring. This effort has been recently awarded by a Horizon 2020 research grant. The fifth is focused on genetic profiles associated with cognitive and behavioural symptoms in degenerative disorders. Also aiming to improve quality of life and resilience of patients using short-term tools and Well-Being Therapy approach (such as Autogenic Training, Psychoeducation, powering a sense of self-esteem and self-control, Habit Reversal Training (HRT) etc.).
Parkinsonian syndromes	
Neuroimaging	
Validation of Neuropsychological test	
MCI	
Neuromodulation	



## Part VIII– Publications

**Summary: 56 publications, 17 as first author and 10 as last author.** Hirsch (H) index: **21**. Total Citations: **1237** (Database: Scopus)

### List of the publications

#### 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
2. 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*

#### Under review

The contribution of Beta-Amyloid to dementia in Lewy Body Diseases: a 1-year follow-up study. Roberta Biundo 1, Luca Weis 2, Eleonora Fiorenzato 1, Francesca Pistonesi2, Annachiara Cagnin2.5, Alessandra Bertoldo 3, Diego Cecchin4.5, Angelo Antonini2,5. *Brain Communications journal*.

Impact of social and mobility restrictions in Parkinson's disease during COVID-19 lockdown. Raquel Luis-Martinez1,2, Roberto Di Marco2\*, Luca Weis2, Valeria Cianci2, Francesca Pistonesi2, Alfonc Baba3, Myriam Carecchio2, Roberta Biundo, Chiara Tedesco2, Stefano Masiero3,5 and Angelo Antonini (*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, Florenzato E, Antonini A. **BOLD complexity in PD patients according to cognitive states investigated by Fractal Dimension.** (under preparation).

#### 2020

3. 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.
4. Di Censo R, Abdelnour C, Blanc F, Bousiges O, Lemstra AW, van Steenoven I, Onofrj 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
5. 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]

6. Alice Martini, MSc<sup>a\*</sup>, Stefano Tamburin, MD, PhD<sup>b</sup>, Roberta Biundo, PhD<sup>c</sup>, Luca Weis, PhD<sup>c</sup>, Angelo Antonini, MD, PhD<sup>d</sup>, Clara Pizzolo, BSc<sup>a</sup>, Giuseppe Leoni, BSc<sup>a</sup>, Silvia Chimenton, MD<sup>b</sup>, Nicola M.J. Edelstyn, PhD<sup>a</sup>. **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

7. 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.
8. 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.
9. Eleonora Fiorenzato<sup>a\*</sup>, Angelo Antonini<sup>b</sup>, Valeria Camparini<sup>a</sup>, Luca Weis<sup>a</sup>, Carlo Semenza<sup>a,b</sup>, 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]
10. 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.
11. 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.

## 2018

12. 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.
13. 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
14. 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

15. 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 Martinella, 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, PhD1,2. **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

16. 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
17. 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
18. Fiorenzato E, Antonini A, Wenning G, Biundo R. **Cognitive impairment in multiple system atrophy**. Mov Disord. 2017 Jul 3. doi: 10.1002/mds.27085.
19. Kramberger MG, Auestad B, Garcia-Ptacek S, Abdelnour C, Olmo JG, Walker Z, Lemstra AW, Londos 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.
20. 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

21. Cancela J, Villanueva Mascato S, Gatsios D, Rigas G, Marcante A, Gentile G, Biundo R, Giglio M, Chondrogiorgi M, Vilzmann R, Konitsiotis S, Antonini A, Arredondo MT, Fotiadis DI. **Monitoring of motor and non-motor symptoms of Parkinson's disease through a mHealth platform**. Conf Proc IEEE Eng Med Biol Soc. 2016 Aug; 2016:663-666. doi: 10.1109/EMBC.2016.7590789.
22. 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
23. 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.
24. 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
25. 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
26. Biundo R, Weis L, Fiorenzato E, Giovanni G, Giglio M, Schifano M, MC Campo, V Marcon, PM-Martin, P. Bisiacchi, A Antonini. Erratum: **Double-blind randomized trial of t-DCS versus sham in Parkinson patients with mild cognitive impairment receiving cognitive training**. Brain Stimulation, 2016 Aug 6. doi: 10.1016/j.brs.2015.07.043.
27. Biundo R<sup>1</sup>, Ph.D; Weis L<sup>1</sup>, Ph.D; Bostantjopoulou S.<sup>2</sup>,MD, Ph.D; Stefanova E.<sup>3</sup>, MD, Ph.D; Falup-Pecurariu C.<sup>4</sup>, MD, Ph.D; Kramberger M.G.<sup>5</sup>, MD, Ph.D; Geurtsen G. J.<sup>6</sup>, Ph.D; Antonini A.<sup>1</sup>, MD, Ph.D; Weintraub D.<sup>7</sup>, MD; Aarsland D.<sup>8</sup>, 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.

28. Julia V, Biundo R, Antonini A. **Therapy-resistant symptoms in Parkinson's disease.** J Neural Transm. 2016 an;123(1):19-30. doi: 10.1007/s00702-015-1463-8. Epub 2015 Sep 26
29. 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.

## 2015

30. N Auzou, K Dujardin, R Biundo, A Foubert-Samier, C Barth, F Duval, F Tison, L Defebvre, A Antonini, WG Meissner. **Diagnosing dementia in multiple system atrophy by applying Movement Disorder Society diagnostic criteria for Parkinson's disease dementia.** Parkinsonism and Related Disorders. Aug 14. doi: 10.1016/j.parkreldis.2015.08.013.
31. Biundo R, Weis L, Fiorenzato E, Giovanni G, Giglio M, Schifano M, MC Campo, V Marcon, PM-Martin, P. Bisiacchi, A Antonini. **Double-blind randomized trial of t-DCS versus sham in Parkinson patients with mild cognitive impairment receiving cognitive training.** Brain Stimulation, 2015 Aug 6. doi: 10.1016/j.brs.2015.07.043.
32. Biundo R, Facchini S. **Training Autogeno applicato a pazienti con malattia di Parkinson, uno studio preliminare.** Rivista Psyche Nuova. Ed. CISSPAT Padua.
33. 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.
34. 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.
35. 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.

## 2014

36. Antonini A, Biundo R. Parkinson's disease: **Can dopamine transporter imaging define early PD?** Nat Rev Neurol. 2014 Aug;10(8):432-3. doi: 10.1038/nrneurol.2014.123. Epub 2014 Jul 8.
37. Vallelunga A, Ragusa M, Di Mauro S, Iannitti T, Pilleri M, Biundo R, Weis L, Di Pietro C, De Iuliiis A, Nicoletti A, Zappia M, Purrello M, Antonini A. **Identification of circulating microRNAs for the differential diagnosis of Parkinson's disease and Multiple System Atrophy.** Front Cell Neurosci. 2014 Jun 10;8:156. doi: 10.3389/fncel.2014.00156. eCollection 2014.
38. Biundo, R; Weis L; Facchini S; Formento-Dojot F; Vallelunga A; Pilleri M; Antonini A. **Cognitive profiling of Parkinson's disease patients with mild cognitive impairment and dementia.** Parkinsonism Relat Disord. 2014 Apr;20(4):394-9. doi: 10.1016/j.parkreldis.2014.01.009. Epub 2014 Jan 22.
39. Rektorova I, Biundo R, Marecek R, Weis L, Aarsland D, Antonini A. **Grey matter changes in cognitively impaired Parkinson's disease patients.** PLoS One. 2014 Jan 21;9(1):e85595. doi: 10.1371/journal.pone.0085595. eCollection 2014.
40. Vallelunga A, Pegoraro V, Pilleri M, Biundo R, De Iuliiis A, Marchetti M, Facchini S, Formento Dojot P, Antonini A. **The MTHFR C677T polymorphism modifies age at onset in Parkinson's disease.** Neurol Sci. 2014 Jan;35(1):73-7. doi: 10.1007/s10072-013-1545-z. Epub 2013 Sep 20.
41. Pilleri M, Levedianos G, Weis L, Gasparoli E, Facchini S, Biundo R, Formento-Dojot P, Antonini A. **Heart rate circadian profile in the differential diagnosis between Parkinson disease and multiple system atrophy.** Parkinsonism Relat Disord. 2014 Feb;20(2):217-21. doi: 10.1016/j.parkreldis.2013.11.006. Epub 2013 Nov 15.

42. Stocchi F, Antonini A, Barone P, Tinazzi M, Zappia M, Onofrij M, Ruggieri S, Morgante L, Bonuccelli U, Lopiano L, Pramstaller P, Albanese A, Attar M, Posocco V, Colombo D, Abbruzzese G; **Early DEtection of wEaring off in Parkinson disease: the DEEP study**. DEEP study group. *Parkinsonism Relat Disord*. 2014 Feb;20(2):204-11. doi: 10.1016/j.parkreldis.2013.10.027. Epub 2013 Nov 5. Erratum in: *Parkinsonism Relat Disord*. 2015 Jul;21(7):827.
43. Santangelo G, Barone P, Abbruzzese G, Ferini-Strambi L, Antonini A; IRIS Study Group. **Validation of the Italian version of Parkinson's disease-cognitive rating scale (PD-CRS)**. *Neurol Sci*. 2014 Apr;35(4):537-44. doi: 10.1007/s10072-013-1538-y. Epub 2013 Sep 25. Erratum in: *Neurol Sci*. 2015 Feb;36(2):349

## 2013

44. Tinazzi M, Abbruzzese G, Antonini A, Ceravolo R, Fabbrini G, Lessi P, Barone P; REASON Study Group. **Reasons driving treatment modification in Parkinson's disease: results from the cross-sectional phase of the REASON study**. *Parkinsonism Relat Disord*. 2013 Dec;19(12):1130-5. doi: 10.1016/j.parkreldis.2013.08.006. Epub 2013 Aug 28.
45. Fabbrini G, Abbruzzese G, Barone P, Antonini A, Tinazzi M, Castegnaro G, Rizzoli S, Morisky DE, Lessi P, Ceravolo R; REASON study group. **Adherence to anti-Parkinson drug therapy in the "REASON" sample of Italian patients with Parkinson's disease: the linguistic validation of the Italian version of the "Morisky Medical Adherence Scale-8 items"**. *Neurol Sci*. 2013 Nov;34(11):2015-22. doi: 10.1007/s10072-013-1438-1. Epub 2013 Jun 1.
46. Biundo R, Calabrese M, Weis L, Facchini S, Ricchieri G, Gallo P, Antonini A. **Anatomical correlates of cognitive functions in early Parkinson's Disease patients**. *PLoS One* 2013 May 22;8(5):e64222. doi: 10.1371/journal.pone.0064222. Print 2013.
47. Biundo R, Weis L, Pilleri M, Facchini S, Formento-Dojot P, Vallelunga A, Antonini A. **Diagnostic and screening power of neuropsychological testing in detecting mild cognitive impairment in Parkinson's disease**. *J J Neural Transm (Vienna)*. 2013 Apr;120(4):627-33. doi: 10.1007/s00702-013-1004-2. Epub 2013
48. Pilleri M, Facchini S, Gasparoli E, Biundo R, Bernardi L, Marchetti M, Formento P, Antonini A. **Cognitive and MRI correlates of orthostatic hypotension in Parkinson's disease**. *J Neurol*. 2013 Jan;260(1):253-9. doi: 10.1007/s00415-012-6627-y. Epub 2012 Aug 1.
49. Antonini A, Abbruzzese G, Ferini-Strambi L, et al., **Validation of the Italian version of the Movement Disorder Society-Unified Parkinson's Disease Rating Scale**. *Neurol Sci*. 2013 May;34(5):683-7. doi: 10.1007/s10072-012-1112-z. Epub 2012 Jun 8

## 2012

50. Vallelunga A, Raffaella F., Formento-Dojot P. Biundo R, Facchini S., Antonini A. **Role of genetic polymorphisms of the dopaminergic system in Parkinson's disease patients with impulse control disorders**. *Parkinsonism Relat Disord*. 2012 May;18(4):397-9. doi: 10.1016/j.parkreldis.2011.10.019. Epub 2011 Nov 22.
51. Angelo Antonini, Manuela Pilleri, Angelo Padoan, Andrea Landi, Salvatore Ferla, Roberta Biundo and Domenico D'Avella. **Successful subthalamic stimulation in genetic Parkinson's disease caused by duplication of the  $\alpha$ -synuclein gene**. *J Neurol*. 2012 Jan;259(1):165-7. doi: 10.1007/s00415-011-6162-2. Epub 2011 Jul 15.

## 2011

52. Biundo R, Formento-Dojot R, Facchini S, Vallelunga A, Ghezzi L, Foscolo L, Meneghello F, Antonini A. **Brain volume changes in Parkinson's disease and their relationship with cognitive and behavioural abnormalities**. *J Neurol Sci* 2011 Nov 15;310(1-2):64-9. doi: 10.1016/j.jns.2011.08.001. Epub 2011 Aug 23.
53. Venneri A., McGeown J.W., Biundo R., Nichelli P., Shanks F.M., **The neuroanatomical substrate of excessive lexical semantic decline in MCI ApoE  $\epsilon$ 4 carriers**. *Alzheimer Dis Assoc Disord*. 2011 Jul-Sep;25(3):230-41. doi: 10.1097/WAD.0b013e318206f88c.

54. R. Biundo, S. Gardini, P. Caffarra, L. Concari, D. Martorana, T. M. Neri, M. F. Shanks, A. Venneri. **Influence of APOE Status on Lexical–Semantic Skills in Mild Cognitive Impairment.** *J Int Neuropsychol Soc.* 2011 May;17(3):423-30. doi: 10.1017/S135561771100021X.
55. Giulia M. L. Bencini, Lucia Pozzan, Roberta Biundo, W. J. McGeownc, V. V. Valian, A. Venneri, C. Semenza. **Language-specific effects in Alzheimer’s disease: Subject omission in Italian and English.** *Journal of Neurolinguistics* 24 (2011) 25–40. doi:10.1016/j.jneuroling.2010.07.004

**2005**

56. Bencini, G., Biundo, R., Semenza, C. and Valian, V. (2005). **Subject drop in Italian Alzheimer’s disease.** *Brain and Language*, 95, 133-134. doi:10.1016/j.bandl.2005.07.075

June 2021

Roberta Biundo