

CURRICULUM VITAE

Ambra Stefani, MD, PhD

PERSONAL DATA

Postdoctoral Clinical Research Fellow
Neurological Clinical Research Institute
Department of Neurology
Massachusetts General Hospital
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Sleep Disorders Unit
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[Ambra Stefani \(0000-0003-4259-8824\) \(orcid.org\)](https://orcid.org/0000-0003-4259-8824)

GENERAL EDUCATION

1999-2004 Liceo G. Cotta ad indirizzo scientifico, Legnago (Verona), Italy

UNIVERSITY EDUCATION

2004-2010 Verona Medical University, School of Medicine, Italy

2010 Medical Degree
School of Medicine, Verona Medical University, Italy
Doctoral thesis' title: "Studio epidemiologico sulla prevalenza e le caratteristiche prognostiche della sclerosi multipla nel comune di Verona"
(Epidemiological study about prevalence and prognostic factors of multiple sclerosis in Verona, Italy)

2020 Board certified Neurologist, Austria

2022 PhD
Medical University Innsbruck, Austria
Title: "First evidence for neurodegeneration in REM sleep without atonia"

PROFESSIONAL CAREER

- 2009 - 2010 Policlinico G.B. Rossi, Department of Neurological, Neuropsychological, Morphological and Movement Sciences. Verona Medical University, Italy (Head: Prof. Nicoló Rizzuto / Prof. Antonio Fiaschi)
Medical internship
- 2010-2013 Policlinico G.B. Rossi, Department of Neurological, Neuropsychological, Morphological and Movement Sciences. Section of Clinical Neuropathology. Verona Medical University, Italy (Head: Prof. Salvatore Monaco)
Medical internship
- 2013-2015 Innsbruck Medical University, Sleep Disorders Unit, Department of Neurology, Austria.
PhD Student, Thesis title “A long-term follow-up study of REM sleep without atonia: evidence of neurodegeneration?” Supervisor Prof. Birgit Högl
- 2015-2022 Innsbruck Medical University, Department of Neurology, Austria (Head of the Neurology Department till Sept 2019 Prof. Werner Poewe, since Oct 2019 Prof. Stefan Kiechl).
Residency in Neurology.
- 2022-ongoing Massachusetts General Hospital, Neurological Clinical Research Institute, Department of Neurology, Boston, USA.
Postdoctoral Clinical Research Fellowship.

ROLE IN SOCIETIES

March 2023-ongoing: Co-chair of the European Sleep Research Society (ESRS) Education Committee.

December 2022-ongoing: Representative of the European Academy of Neurology (EAN) Scientific Panel on Sleep-wake disorders at the EAN Coordinating Panel on Neuroscience / Translational Neurology.

September 2022-ongoing: European Academy of Neurology (EAN) representative at the European Sleep Research Society (ESRS) Education Committee.

June 2022-ongoing: Member at large (Europe and North America), International Restless Legs Syndrome Study Group

June 2022-ongoing: Member of the board of the European Sleep Federation

June 2022-ongoing: Member of the board of the Austrian Sleep Research Society (role: advisory board neurology)

March 2022-ongoing: Secretary of the International REM Sleep Behavior Disorder Study Group (IRBDSG)

February 2022-ongoing: Member of the World Sleep Society International Guidelines Parasomnia Taskforce

October 2019-ongoing: Member of the Leg Movement (LM) Task Force of the International Restless Legs Syndrome Study Group (IRLSSG)

December 2019-ongoing: Secretary of the European Restless Legs Syndrome Study Group (EURLSSG)

December 2019-ongoing: Member of the Scientific Panels' Management Group, sleep-wake disorders Panel, European Academy of Neurology (EAN)

December 2021-ongoing: Institutional panel member of the sleep-wake disorders Panel, European Academy of Neurology (EAN), nominated by the Austrian Neurology Society (Österreichische Gesellschaft für Neurologie, ÖGN)

June 2020 – ongoing: Leader of the EAN Task-Force for the European Guidelines on Management of Restless Legs Syndrome (lead by the EAN sleep-wake disorders panel, in collaboration with the European Restless Legs Syndrome Study Group and the Movement Disorders Society)

July 2020-ongoing: Member of the EAN Teaching Course Sub-committee

April 2021-ongoing: Co-chair of the Sleep working group (Arbeitsgemeinschaft Schlaf) of the Austrian Neurology Society (Österreichische Gesellschaft für Neurologie, ÖGN)

October 2019-March 2022: Secretary elect of the International REM Sleep Behavior Disorder Study Group (IRBDSG)

July 2020-February 2021: Member of the Body Movement Scoring Rules Task Force of the International Restless Legs Syndrome Study Group (IRLSSG)

Since August 2022: Full member of Sigma Xi, The Scientific Research Honor Society

EDITORIAL BOARD MEMBERSHIPS

Editorial board, Brain Sciences

International Editorial Board, Turkish Sleep Medicine Journal

Guest Editor, Neuroepidemiology

Specialty Chief Editor in Frontiers in Sleep – Sleep and Movement Disorders

Topic Editor “Biomarkers in REM sleep behavior disorders and central disorders of hypersomnolence” in Frontiers in Sleep.

Editorial Board Clinical Neurophysiology Practice

Editorial Advisory Board of Journal of Sleep Research

Associate Editor in Frontiers in Network Physiology - Networks in Sleep and Circadian Systems

Topic Editor “Women in Networks in Sleep and Circadian Systems”

Editorial Board of Research Directions: Science of Sleep

PRICES AND AWARDS

Best Paper Award in Neuroscience 2022. (“Signal Processing in Neurons” (SPIN) Doctoral Programme of the Medical University Innsbruck)

Lilo Habersack-RLS-Nachwuchsforscherpreis 2020. RLS e. V. Deutsche Restless Legs Vereinigung. November 2020.

Tiroler Förderpreis für Wissenschaft 2019 (Tyrolean Promotion Prize for Science 2019), October 8th 2019, Innsbruck, Austria.

Wayne Hening Young Investigator Award, International Restless Legs Syndrome Study Group (IRLSSG) Annual Meeting, September 22nd, 2019, Vancouver, Canada.

Young or New Investigator Award, World Sleep Society, World Sleep 2019, September 20-25, 2019, Vancouver, Canada.

Wayne Hening Young Investigator Award, International Restless Legs Syndrome Study Group (IRLSSG) Annual Meeting, June 12, 2016, Denver, Colorado, USA.

Young Investigator Award International Restless Legs Syndrome Study Group (IRLSSG). IRLSSG and EU-RLSSG 2015 RLS/WED science summit, October 22-26, 2015, Asilomar Conference Grounds in Pacific Grove, California, USA.

Young Investigator Award “Young Investigator Sleep Research in Neurodegeneration”. 6th World Congress on Sleep Medicine (WASM), March 21-25 2015, Seoul, Korea.

GRANTS

December 2022	Dr. Johannes und Hertha Tuba Foundation Research Funding Sleep as long term predictor of neurodegeneration 100,000 €
February 2022	Max-Kade Fellowship “Imaging RBD in REM sleep” 64,000 €
November 2021	Tyrolean Research Fund 2021, Project “NOSE: understanding Neurodegeneration through Olfactory System Evaluation” 35.361,43€

SELECTED CONFERENCE PRESENTATIONS

- “Neurophysiology of REM parasomnias”
Plenary lecture: Joint International Federation of Clinical Neurophysiology/European Academy of Neurology Session: Advances in Neurophysiological Testing, Diagnosis and Therapy of Sleep Disorders
International Congress of Clinical Neurophysiology 2022
- “Sleep and Neurodegeneration”
Invited lecture in the Scientific Session “Sleep research Update for Neurologists”
World Congress of Neurology 2023
- “Sleep disorders in prodromal and clinical synucleinopathies: approach and management”
Invited lecture in the teaching course “Sleep in neurological diseases”
World Congress of Neurology 2023

CERTIFICATES AND EXAMINATIONS

21 st May 2013	Goethe-Zertifikat (German language examination) B2
11 th Sept 2013	German language examination of the Austrian Medical Chamber
25 th Sept-13 th Dec 2014	Postgraduate training course “performance of clinical trials” (organised by the Austrian Medical Association, the Tyrolean Medical Association and the Clinical Trial Center of the Medical University of Innsbruck)

Apr 8th 2017

Somnologist - Expert in sleep medicine (European Sleep Research Society Examination in Sleep Medicine)

Nov 20, 2020

Board Certification in Neurology, Austrian Medical Chamber

LANGUAGES

Italian	First language
English	Fluent written and spoken
German	Fluent written and spoken

PEER REVIEWED PUBLICATIONS

1. Harrer P, Mirza-Schreiber N, Mandel V, Roeber S, **Stefani A**, Naher S, Wagner M, Gieger C, Peters A, Högl B, Herms J, Schormair B, Winkelmann J, Oexle K. Epigenetic association analyses and risk prediction of RLS. *Mov Disord* 2023, in press.
2. Cesari M, Ruzicka L, Högl B, Ibrahim A, Holzknacht E, Heidbreder A, Bergmann M, Brandauer E, Garn H, Kohn B, **Stefani A (corresponding author)**. Improved automatic identification of isolated rapid eye movement sleep behavior disorder with a 3D time-of-flight camera. *Eur J Neurol* 2023, in press.
3. Ibrahim A, Ferri R, Cesari M, Frauscher B, Heidbreder A, Bergmann M, Högl B, **Stefani A**. Large Muscle Group Movements during Sleep in Healthy People: Normative Values and Correlation to Sleep Features. *Sleep* 2023, in press.
4. Bergmann M, Högl B, Ibrahim A, Brandauer E, Heidbreder A, **Stefani A**, Cesari M. A reliable automatic algorithm to score fragmentary myoclonus. *J Sleep Res* 2023, in press.
5. **Stefani A (corresponding author)**, Cesari M. Digital health technologies and digital biomarkers in RBD: Need for order out of chaos. *Sleep* 2023, in press.
6. Bergmann M, Wanschitz J, **Stefani A**, Heidbreder A, Brandauer E, Cesari M, Löscher W, Högl B. A prospective case-control study of excessive fragmentary myoclonus in the upper and lower extremities: clinical characteristics and electrophysiological correlates. *Sleep Med* 2023, in press.
7. **Stefani A (corresponding author)**, Serradell M, Holzknacht E, Gaig C, Ibrahim A, Marrero P, Cesari M, Pérez-Carbonell L, Brandauer E, Fernández-Arcos A, Bergmann M, Matos N, Santamaria J, Högl B, Iranzo A (corresponding author); for the Sleep Innsbruck Barcelona (SINBAR) group. Low specificity of REM sleep behavior disorder questionnaires: need for better screening methods. *Mov Disord* 2023, in press.

8. Somerville EN, Krohn L, Yu E, Rudakou U, Senkevich K, Ruskey JA, Asayesh F, Ahmad J, Spiegelman D, Dauvilliers Y, Arnulf I, Hu MTM, Montplaisir JY, Gagnon JF, Desautels A, Ibrahim A, **Stefani A**, Högl B, Gigli GL, Valente M, Janes F, Bernardini A, Dusek P, Sonka K, Kemlink D, Plazzi G, Antelmi E, Biscarini F, Mollenhauer B, Trenkwalder C, Sixel-Doring F, Figorilli M, Puligheddu M, Cochen De Cock V, Ferini-Strambi L, Heibreder A, Monaca CC, Abril B, Dijkstra F, Viaene M, Boeve BF, Postuma RB, Rouleau GA, Gan-Or Z. NPC1 variants are not associated with Parkinson's disease, REM-sleep behaviour disorder or Dementia with Lewy bodies in European cohorts. *Neurobiology of Aging* 2023, in press.
9. Joza S, Hu MT, Jung KY, Kunz D, **Stefani A**, Dušek P, Terzaghi M, Arnaldi D, Videnovic A, Schiess MC, Hermann W, Lee JY, Ferini-Strambi L, Lewis SJG, Leclair-Visonneau L, Oertel WH, Antelmi E, Sixel-Döring F, Cochen De Cock V, Liguori C, Liu J, Provini F, Puligheddu M, Nicoletti A, Bassetti CLA, Bušková J, Dauvilliers Y, Ferri R, Montplaisir JY, Lawton M, Kim HJ, Bes F, Högl B, Šonka K, Fiamingo G, Pietro M, Lavadia ML, Suescun J, Woo KA, Marelli S, Ehgoetz Martens K, Janzen A, Plazzi G, Mollenhauer B, Fernandes M, Li Y, Cortelli P, Figorilli M, Cicero CE, Schaefer C, Guiraud L, Lanza G, Gagnon JF, Sunwoo JS, Ibrahim A, Girtler N, Trenkwalder C, Baldelli L, Pelletier A, Postuma RB; International REM Sleep Behavior Disorder Study Group. Progression of clinical markers in prodromal Parkinson's disease and dementia with Lewy bodies: a multicentre study. *Brain* 2023, in press.
10. Heibreder A, Trenkwalder C, Bachmann CG, Bartl M, Fulda S, Habersack L, Maihöfner C, Mathis J, Muntean L, Schneider B, **Stefani A**, Paulus J, Young P. Restless Legs Syndrom. Leitlinien für Diagnostik und Therapie. *Somnologie* 2023.
11. **Stefani A**, Trenkwalder C, Arnulf I, Bliwise D, Boeve B, Inoue Y, Iranzo A, Lewis SJG, Provini F, Schenck C, Wenning G, Wing YK, Högl B, Videnovic A. Isolated Rapid Eye Movement Sleep Behavior Disorder: Clinical and Research Implications. *J Neurol Neurosurg Psychiatry* 2023, in press.
12. Ollila H, Sharon E, Lin L, Sinnott-Armstrong N, Ambati A, Yogeshwar S, Hillary R, Jolanki O, Faraco J, Einen M, Luo G, Zhang J, Han F, Yan H, Song Dong X, Li J, Zhang J, Hong SC, Won Kim T, Dauvilliers Y, Barateau L, Lammers G, Fronczek R, Mayer G, Santamaria J, Arnulf I, Knudsen S, Bredahl MK, Medboe Thorsby P, Plazzi G, Pizza F, Moresco M, Crowe C, Van Den Eeden S, Lecendreux M, Bourgin P, Kanbayashi T, Martinez-Orozco FJ, Peraita-Adrados R, Beneto A, Montplaisir J, Desautels A, Huang YS, FinnGen, Jennum P, Nevsimalova S, Kemlink D, Iranzo A, Overeem S, Wierzbicka A, Geisler P, Sonka K, Honda M, Hogl B, **Stefani A**, Morgadinho Coelho F, Mantovani V, Feketeova E, Wadelius M, Eriksson N, Smedje H, Hallberg P, Hesla PE, Rye D, Pelin Z, Ferini-Strambi L, Bassetti C, Mathis J, Khatami R, Aran A, Nampoothiri S, Olsson T, Kockum I, Partinen M, Perola M, Kornum B, Rüeger S, Winkelmann J, Miyagawa T, Toyoda H, Khor SS, Shimada M, Tokunaga K, Rivas M, Pritchard J, Risch N, Kutalik Z, O'Hara R, Hallmayer J, Ye C. Narcolepsy risk loci outline role of T cell autoimmunity and infectious triggers in narcolepsy. *Nat Comm* 2023, in press.
13. **Stefani A (corresponding author)**, Mozersky J, Kotagal V, Högl B, Ingravallo F, Ju YE, Avidan A, Sharp R, Videnovic A, Schenck CH, St Louis EK (corresponding

author). Ethical aspects of prodromal synucleinopathy prognostic counselling. *Semin Neurol* 2023, in press.

14. Cesari M, Egger K, **Stefani A**, Bergmann M, Ibrahim A, Brandauer E, Högl B, Heidbreder A. Differentiation of central disorders of hypersomnolence with manual and artificial-intelligence-derived polysomnographic measures. *Sleep* 2022;zsac288. doi: 10.1093/sleep/zsac288.
15. Röthenbacher A, Cesari M, Doppler CEJ, Okkels N, Willemsen N, Sembowski N, Seger A, Lindner M, Brune C, **Stefani A**, Högl B, Bialonski S, Borghammer P, Fink GR, Schober M, Sommerauer M. RBDtector: an open-source software to detect REM sleep without atonia according to visual scoring criteria. *Sci Reports* 2022;12:20886. doi: 10.1038/s41598-022-25163-9.
16. Cesari M, Heidbreder A, St. Louis EK, Sixel-Döring F, Bliwise DL, Baldelli L, Bes F, Fantini ML, Iranzo A, Knudsen-Heier S, Mayer G, McCarter S, Nepozitek J, Pavlova M, Provini F, Santamaria J, Sunwoo J, Videnovic A, Högl B, Jennum P, Christensen JAE, **Stefani A (corresponding author)**. Polysomnographic diagnosis of REM sleep behavior disorder: A change is needed. *Sleep* 2023;46:zsac276. doi: 10.1093/sleep/zsac276.
17. Van der Veen S, Caviness JN, Dreissend YEM, Ganos C, Ibrahim A, Koelman JHTM, **Stefani A**, Tijssen MAJ. Myoclonus and other jerky movement disorders. *Clin Neurophysiol Pract* 2022;7:285-316.
18. Krohn L, Heilbron K, Blauwendraat C, Reynolds RH, Senkevich K, Rudakou U, Estiar MA, Yu E, Gustavsson EK, Brolin K, Ruskey JA, Freeman K, Arnulf I, Hu MTM, Montplaisir JY, Gagnon JF, Desautels A, Dauvilliers Y, Gigli GL, Valente M, Janes F, Bernardini A, Högl B, **Stefani A**, Ibrahim A, Sonka K, Kemlink D, Oertel W, Janzen A, Plazzi G, Biscarini F, Antelmi E, Figorilli M, Puligheddu M, Mollenhauer B, Trenkwalder C, Sixel-Döring F, Cochen De Cock V, Charley Monaca C, Heidbreder A, Ferini-Strambi L, Dijkstra F, Viaene M, Abril B, Boeve BF, Rouleau GA, Chia R, Scholz SW, Ryten M, Bandres-Ciga S, Noyce A, Pihlstrøm L, Postuma RB, Nalls MA, Singleton AB, Gan-Or Z. First genome-wide association study of REM-sleep behavior disorder identifies novel loci with distinct polygenic and brain expression effects. *Nature Comm* 2023, in press.
19. Eckhardt C, Fanciulli A, Högl B, Heidbreder A, Eschlböck S, Raccagni C, Krismer Fm Leys F, Kiechl S, Ransmayr G, Frauscher B, Seppi K, Wenning G, **Stefani A (corresponding author)**. In-Depth Analysis of Sleep, Daytime Sleepiness and Autonomic Function in Multiple System Atrophy and Parkinson's Disease: A Prospective Study. *J Clin Sleep Med* 2023;19:63-71. doi: 10.5664/jcsm.10268.
20. Schiller K, Avigdor T, Abdallah C, Sziklas V, Crane J, **Stefani A**, Peter-Derex L, Frauscher B. Focal Epilepsy Disrupts Spindle Structure and Function. *Sci Reports* 2022;12:11137. doi: 10.1038/s41598-022-15147-0.
21. Beliveau V, **Stefani A**, Birkl C, Kremser C, Gizewski ER, Högl B, Scherfler C. Revisiting Brain Iron Deficiency in Restless Legs Syndrome Using Magnetic Resonance Imaging. *Neuroimage Clin* 2022;34:103024. doi: 10.1016/j.nicl.2022.103024.

22. Schormair B, Zhao C, Salminen AV, Oexle K, Winkelmann J, on behalf of the **International EU-RLS-GENE Consortium**. Reassessment of candidate gene studies for idiopathic restless legs syndrome in a large GWAS dataset of European ancestry. *Sleep* 2022;45:zsac098. doi: 10.1093/sleep/zsac098.
23. Khachatryan SG, Ferri R, Fulda S, Garcia-Borreguero D, Mancon M, Muntean ML, **Stefani A (corresponding author)**. Restless Legs Syndrome: Over 50 Years of European Contribution. *J Sleep Res* 2022;31:e13632. doi: 10.1111/jsr.13632.
24. Tilch E, Schormair B, Zhao C, Högl B, **Stefani A**, Berger K, Trenkwalder C, Bachmann CG, Hornyak M, Fietze I, Müller-Nurasyid M, Peters A, Herms S, Nöthen MM, Müller-Myhsok B, Oexle K, Winkelmann J. Exomechip-based rare variant association study in restless legs syndrome. *Sleep Med* 2022;94:26-30. doi: 10.1016/j.sleep.2022.04.001.
25. Kohn B, Ruzicka L, Högl B, Ibrahim A, Garn H, Heidbreder A, Bergmann M, Brandauer E, Holzknrecht E, **Stefani A**, Cesari M. TeaSpam: A novel method of Temporal And SPATial Movdment Encoding during sleep. *Annu Int Conf IEEE Eng Med Biol Soc* 2022;2022:4222-4225. doi: 10.1109/EMBC48229.2022.9871521.
26. Högl B, Arnulf I, Bergmann M, Cesari M, Gan-Or Z, Heidbreder A, Krohn L, Luppi PH, Mollenhauer B, Provini F, Santamaria J, Trenkwalder C, Videnovic A, **Stefani A**. Rapid eye movement sleep behaviour disorder: Past, present and future. *J Sleep Res* 2022;31:e13612. doi: 10.1111/jsr.13612.
27. HFP-QSMGAN: Quantitative susceptibility mapping from homodyne-filtered phase images. Beliveau V, Birkl C, **Stefani A**, Gizewski ER, Scherfler C. *Magn Res Med* 2022;88:1255-1262. doi: 10.1002/mrm.29260.
28. Bergmann M, Brandauer E, **Stefani A**, Heidbreder A, Unterberger I, Högl B. The additional diagnostic benefits of performing both video-polysomnography and prolonged video-EEG-monitoring: when and why. *Clin Neurophysiol Pract* 2022;7:98-102.
29. Zhang H, Iranzo A, Hogl B, Arnulf I, Ferini-Strambi L, Manni R, Miyamoto T, Oertel W, Dauvilliers Y, Ju Y, Puligheddu M, Sonka K, Pelletier A, Montplaisir JY, **Stefani A**, Ibrahim A, Frauscher B, Leu-Semenescu S, Zucconi M, Terzaghi M, Miyamoto M, Janzen A, Figorilli M, Fantini ML, Postuma RB. Risk factors for phenoconversion in REM sleep behavior disorder. *Ann Neurol* 2022;91:404-416.
30. Cesari M, Heidbreder A, Gaig C, Bergmann M, Brandauer E, Iranzo A, Holzknrecht E, Santamaria J, Högl B, Stefani A. Automatic analysis of muscular activity in the flexor digitorum superficialis muscles: A fast screening method for rapid eye movement sleep without atonia. *Sleep* 2022:zsab299. doi: 10.1093/sleep/zsab299
31. Heim B, Ellmerer P, **Stefani A**, Bergmann M, Brandauer E, Seppi K, Högl B, Djamshidian A. Factors associated with augmentation in patients with restless legs syndrome. *Eur J Neurol* 2022;29:1227-1231.

32. Cesari M, Heidbreder A, St. Louis EK, Sixel-Döring F, Bliwise DL, Baldelli L, Bes F, Fantini ML, Iranzo A, Knudsen-Heier S, Mayer G, McCarter S, Nepozitek J, Pavlova M, Provini F, Santamaria J, Sunwoo J, Videnovic A, Högl B, Jennum P, Christensen JAE, **Stefani A (corresponding author)**, for the International RBD Study Group. Video-polysomnography procedures for diagnosis of rapid eye movement sleep behavior disorder (RBD) and the identification of its prodromal stages: Guidelines from the International RBD Study Group. *Sleep* 2022;45:zsab257.
33. Sosero YL, Yu E, Estiar MA, Mufti K, Rudakou U, Ruskey JA, Asayesh F, Laurent SB, Spiegelman D, Trempe JF, Quinnell TG, Oscroft N, Arnulf I, Montplaisir JY, Gagnon JF, Desautels A, MD, Dauvilliers Y, Gigli GL, Valente M, Janes F, Ibrahim A, Sonka K, Kemlink D, Oertel W, Janzen A, Plazzi G, Antelmi E, Figorilli M, Puligheddu M, Mollenhauer B, Trenkwalder C, Sixel-Döring F, De Cock VC, Monaca CC, Heidbreder A, Ferini-Strambi L, Dijkstra F, Viaene M, Abril B, Boeve BF, Postuma RB, Rouleau GA, **Stefani A**, Högl B, Hu MTM, Gan-Or Z. Rare PSAP variants and possible interaction with GBA in REM sleep behavior disorder. *Journal of Parkinson's disease* 2022;12:333-340.
34. Harding IH, Chopra S, Arrigoni F, Boesch S, Brunetti A, Cocozza S, Corben LA, Deistung A, Delatycki M, Diciotti S, Dogan I, Evangelisti S, França Jr MC, Göricke SL, Georgiou-Karistianis N, Gramegna LL, Henry PG, Hernandez-Castillo CR, Hutter D, Jahanshad N, Joers JM, Lenglet C, Lodi R, Manners DN, Martinez ARM, Martinuzzi A, Marzi C, Mascalchi M, Nachbauer W, Pane C, Peruzzo D, Pisharady PK, Pontillo G, Reetz K, Rezende TJR, Romanzetti S, Saccà F, Scherfler C, Schulz JB, **Stefani A**, Testa C, Thomopoulos SI, Timmann D, Tirelli S, Tonon C, Vavla M, Egan GF, Thompson PM. Brain Structure and Degeneration Staging in Friedreich Ataxia: MRI Volumetrics from the ENIGMA-Ataxia Working Group. *Ann Neurol* 2021; 90(4):570-583.
35. Aguirre C, Miranda M, **Stefani A*(corresponding author)**. Nikolai Gogol's account of sleep paralysis in the tale "The Portrait". *Sleep Med* 2021; 85:317-320.
36. Cesari M, Kohn B, Holzknacht E, Ibrahim A, Heidbreder A, Bergmann M, Brandauer E, Högl B, Garn H, **Stefani A**. Automatic 3D Video Analysis of Upper and Lower Body Movements to Identify Isolated REM Sleep Behavior Disorder: A Pilot Study. *Annu Int Conf IEEE Eng Med Biol Soc* 2021:7050-7053.
37. Holzknacht E, Domahs F, Brandauer E, Bergmann M, Zengin T, Delazer M, Hochleitner M, Högl B, **Stefani A*(corresponding author)**. Language analysis of spontaneous descriptions of restless legs syndrome: Gender differences? *Sleep Res J Sleep Res* 2022 Feb;31(1):e13433. doi: 10.1111/jsr.13433.
38. Bergmann M, Heidbreder A, **Stefani A**, Raccagni C, Brandauer E, Rudzki D, Fischer MB, Rossmannith E, Pasztorek M, Löscher WN, Högl B, Wanschitz JV. Signs of sympathetic and endothelial cell activation in the skin of patients with restless legs syndrome. *Sleep Med* 2021; 84:227-236.
39. Miglis MG, Adler CH, Antelmi E, Arnaldi D, Baldelli L, Boeve BF, Cesari M, Dall'Antonia I, Diederich NJ, Doppler K, Dušek P, Ferri R, Gagnon JF, Gan-Or Z, Hermann W, Högl B, Hu MT, Iranzo A, Janzen A, Kuzkina A, Lee JY, Leenders KL,

Lewis SJG, Liguori C, Liu J, Lo C, Ehgoetz Martens KA, Nepozitek J, Plazzi G, Provini F, Puligheddu M, Rolinski M, Rusz J, **Stefani A**, Summers RLS, Yoo D, Zitser J, Oertel WH. Biomarkers of Conversion to Alpha-Synucleinopathy in Isolated REM Sleep Behaviour Disorder. *Lancet Neurol* 2021; 20:671-684.

40. **Stefani A**, Högl B. Sleep disorders in Parkinson Disease. *Sleep Med Clin* 2021;16:323-334.
41. Rusz J, Hlavnička J, Novotný M, Tykalová T, Pelletier A, Montplaisir J, Gagnon JF, Dušek P, Galbiati A, Marelli S, Timm PC, Teigen LN, Janzen A, Habibi M, **Stefani A**, Holzknecht E, Seppi K, Evangelista E, Razu AL, Dauvilliers Y, Högl B, Oertel W, St. Louis EK, Ferini-Strambi L, Růžička E, Postuma RB, Šonka K. Speech biomarkers in rapid eye movement sleep behaviour disorder and Parkinson's disease. *Ann Neurol* 2021; doi: 10.1002/ana.26085. Epub ahead of print.
42. Ferri R, DelRosso LM, Provini F, **Stefani A**, Walters AS, Picchiatti DL. Scoring of large muscle group movements during sleep: An International Restless Legs Syndrome Study Group (IRLSSG) position statement. *Sleep* 2021;44:zsab092.
43. Cesari M, Heidbreder A, Bergmann M, Holzknecht E, Högl B, **Stefani A**. Flexor digitorum superficialis muscular activity is more reliable than mentalis muscular activity for rapid eye movement sleep without atonia quantification. A study of interrater reliability for artefact correction in the context of semi-automated scoring of rapid eye movement sleep without atonia. *Sleep* 2021;zsab094. doi: 10.1093/sleep/zsab094. Epub ahead of print.
44. Heim B, Ellmerer P, **Stefani A**, Heidbreder A, Brandauer E, Högl B, Seppi K, Djamshidian A. Birds of a feather flock together: disadvantageous decision making in augmented restless legs syndrome patients with and without impulse control disorders. *Brain Sci* 2021;11:383.
45. **Stefani A**, Santamaria J, Iranzo A, Hackner H, Schenck CH, Högl B. Nelotanserin as symptomatic treatment for rapid eye movement sleep behavior disorder: A double-blind randomized study using video analysis in patients with dementia with Lewy bodies or Parkinson's disease dementia. *Sleep Med* 2021; 81:180-187.
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