CURRICULUM VITAE

Personal Details

Name and Surname: Martin BRUNOVSKY
Titles: M.D., Ph.D.
Work Address: National Institute of Mental Health
Topolova 748, 25067 Klecany, Czech Republic
Phone: +420 283 088 438 (work) +420 283 088 437 (assistant)
E-mail address: martin.brunovsky@nudz.cz
Web: http://www.nudz.cz/en/employee/?id=97
ResearcherID: A-5352-2017
ORCiD: 0000-0002-2483-0848
Scopus ID: 6603255896
ResearchGate profile: https://www.researchgate.net/profile/Martin_Brunovsky

Main areas of research:

My research involves the application of brain imaging techniques, particularly quantitative electroencephalography (QEEG), moving it from the analysis of waveforms to a neuroimaging tool (i.e. LORETA, low-resolution brain electromagnetic tomography), with a special interest in the evaluation of CNS drug effects in pharmaco-EEG, sleep, and event-related potentials studies as well as in QEEG prediction of response to psychopharmacological treatment. The research interest and clinical experience are mostly oriented to ethiopathogenesis, diagnosis and treatment of schizophrenia, Alzheimer`s disease, affective disorders, cognitive disorders, epilepsy, sleep disorders etc.

Professional Education and Training:

1993 – 1999	Medical School of University of P.J.Safarik, Kosice, Slovak Republic (M.D.)
1999	Training in EEG and epileptology, IPVZ Prague (Functional skill in EEG obtained)
1999 – 2004	Postgraduate doctoral study in biomedicine (Neuroscience), 3rd Medical Faculty, Charles University, Prague (Ph.D.)
1999 – 2014	EEG and Sleep laboratory, Psychiatric Center Prague (since 01/2005 Head of EEG and Sleep laboratory)
1999 – 2016	Dpt. of neurology, Faculty Hospital Bulovka, Prague, neurologist (cognit.disorders)
03/2002	Certification in neurology, 1st degree, IPVZ Prague
2004 – now	Assistant professor, 3rd Medical Faculty of Charles University in Prague
08/2006	Specialized qualification for neurological profession, Ministry of Health, Czech Rep
2015 – now	Research Programme Leader, National Institute of Mental Health, Klecany

International and National Professional Organizations:

Vice-president - International Pharmaco EEG Group (IPEG) www.ipeg-society.org
Member - EEG and Clinical Neuroscience Society (ECNS)
Member - European Psychiatrists Association (EPA)
Member - Czech Neuropsychopharmacological society
Member - Czech Society for Biological psychiatry
Member - Czech Neurological Society
Member - Czech Society for Clinical Neurophysiology JEP
Member - Czech Society for Sleep Research and Sleep Medicine

Participation in Scientific Projects and Research Activities in the last 5 years:

2018-2021 collaborator, research project of Ministry of Health, Czech Republic, “Clinical and neurobiological predictors of response to ketamine: towards personalized treatment of depression”

2015-2019 collaborator, research project of Ministry of Health, Czech Republic, “The efficacy of transcranial direct current stimulation (tDCS) in the treatment of depression and brain functional changes compared to venlafaxine.”

2015-2018 Principal Investigator, research project of Ministry of Health, Czech Republic, “Prediction of therapeutic response in patients with depressive disorder by means of new methods of EEG analysis”.

2014-2017 collaborator, Czech-Norwegian Research Program no. 7F14236, “HCENAT - Naturalness in human cognitive enhancement“

2011-2015 Principal Investigator, research project of Ministry of Health, Czech Republic, “Electrophysiological correlates of emotional neurocircuits in depression, bipolar affective disorder and healthy population”.

2013-2015 co-investigator, research project of Ministry of Health, Czech Republic, “The predictors of response to antidepressant treatment in patients with resistant depression-an integrative approach”.

Awards and Honors:

2003: Travel grant recipient (7th Congress of the European Federation of Neurological Society - EFNS. August 30 - September 2, 2003. Helsinki, Finland)
2004: Best Poster Award - prize for the best poster within 12th Congress of the Association of European Psychiatrists, Geneva (1st place, AEP)
2004: Travel grant recipient (The International Society for NeuroImaging in Psychiatry (ISNIP) and EEG & Clinical Neuroscience Society (ECNS) JOINT MEETING, Irvine, CA
2004: 3rd Place, the Werner Herrmann Memorial Grant 2004 competition (International PharmacoEEG Group Symposium, Antwerp, Belgium)
2004: Alois Alzheimer Prize for the best work in the field of diagnosis and treatment of dementia in 2003. (2nd place, Amepra)
2005: Travel grant recipient (9th Congress of the European Federation of Neurological Society - EFNS. Spetember 17-20, 2005. Athens, Greece)
2006: The 14th Biennial Congress of International Pharmaco-EEG Society Symposium Poster Session Award
2006: The Werner M. Herrmann Memorial Grant, (PAREXEL International and IPEG)
2008: Award of the Czech Neuropsychopharmacological Society (CNPS) for the best poster
2010: Poster Prize Adward, XXVII CINP Congress, 6.-10.June 2010, Hong Kong
2011: Award of the Czech Neuropsychopharmacological Society (CNPS) for the best publication in 2010
2012: Award of the Czech Neuropsychopharmacological Society (CNPS) for the best publication in 2011
2015: Award of the Czech Neuropsychopharmacological Society (CNPS) for the best publication in 2014
2018: National Psychiatric Prize of professor Vladimir Vondracek
2019: Jaroslav Jirsa Award of Charles University, for the best text-book in 2018 in medicine-pharmacology, for „Pharmacology“
2020: Award of the Czech Neuropsychopharmacological Society (CNPS) for the best publication in 2019

List of 10 most important publications:

1. Bares M, Brunovsky M, Kopecek M, Novak T, Stopkova P, Kozeny J, Sos P, Krajca V, Höschl C. Early reduction in prefrontal theta QEEG cordance value predicts response to venlafaxine treatment in patients with resistant depressive disorder. Eur Psychiatry. 2008 Aug;23(5):350-5. DOI: https://doi.org/10.1016/j.eurpsy.2008.03.001
2. Bares M, Brunovsky M, Kopecek M, Stopkova P, Novak T, Kozeny J, Höschl C. Changes in QEEG prefrontal cordance as a predictor of response to antidepressants in patients with treatment resistant depressive disorder: a pilot study. J Psychiatr Res. 2007 Apr-Jun;41(3-4):319-25. DOI: https://doi.org/10.1016/j.jpsychires.2006.06.005
3. Horacek J, Brunovsky M, Novak T, Skrdlantova L, Klirova M, Bubenikova-Valesova V, Krajca V, Tislerova B, Kopecek M, Spaniel F, Mohr P, Höschl C. Effect of low-frequency rTMS on electromagnetic tomography (LORETA) and regional brain metabolism (PET) in schizophrenia patients with auditory hallucinations. Neuropsychobiology. 2007;55(3-4):132-42. DOI: https://doi.org/10.1159/000106055
4. Bares M, Brunovsky M, Novak T, Kopecek M, Stopkova P, Sos P, Krajca V, Höschl C. The change of prefrontal QEEG theta cordance as a predictor of response to bupropion treatment in patients who had failed to respond to previous antidepressant treatments. Eur Neuropsychopharmacol. 2010 Jul;20(7):459-66. DOI: https://doi.org/10.1016/j.euroneuro.2010.03.007
5. Horacek J, Flegr J, Tintera J, Verebova K, Spaniel F, Novak T, Brunovsky M, Bubenikova-Valesova V, Holub D, Palenicek T, Höschl C. Latent toxoplasmosis reduces gray matter density in schizophrenia but not in controls: voxel-based-morphometry (VBM) study. World J Biol Psychiatry. 2012 Oct;13(7):501-9. DOI: https://doi.org/10.3109/15622975.2011.573809
6. Jobert M, Wilson FJ, Ruigt GS, Brunovsky M, Prichep LS, Drinkenburg WH; IPEG Pharmaco-EEG Guidelines Committee. Guidelines for the recording and evaluation of pharmaco-EEG data in man: the International Pharmaco-EEG Society (IPEG). Neuropsychobiology. 2012;66(4):201-20. DOI: https://doi.org/10.1159/000343478
7. Páleníček T, Fujáková M, Brunovský M, Balíková M, Horáček J, Gorman I, Tylš F, Tišlerová B, Soš P, Bubeníková-Valešová V, Höschl C, Krajča V. Electroencephalographic spectral and coherence analysis of ketamine in rats: correlation with behavioral effects and pharmacokinetics. Neuropsychobiology. 2011;63(4):202-18. DOI: https://doi.org/10.1159/000321803
8. Brunovsky M, Matousek M, Edman A, Cervena K, Krajca V. Objective assessment of the degree of dementia by means of EEG. Neuropsychobiology. 2003;48(1):19-26. DOI: https://doi.org/10.1159/000071824
9. Bares M, Kopecek M, Novak T, Stopkova P, Sos P, Kozeny J, Brunovsky M, Höschl C. Low frequency (1-Hz), right prefrontal repetitive transcranial magnetic stimulation (rTMS) compared with venlafaxine ER in the treatment of resistant depression: a double-blind, single-centre, randomized study. J Affect Disord. 2009 Nov;118(1-3):94-100. DOI: https://doi.org/10.1016/j.jad.2009.01.032
10. Kopřivová J, Congedo M, Horáček J, Praško J, Raszka M, Brunovský M, Kohútová B, Höschl C. EEG source analysis in obsessive-compulsive disorder. Clin Neurophysiol. 2011 Sep;122(9):1735-43. DOI: https://doi.org/10.1016/j.clinph.2011.01.051

Web of Science Publications Summary:

h-index: 18 Sum of the Times Cited: 942 Without self citation: 876 Citing articles: 758