CURRICULUM VITAE

Personal Details

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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
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
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

Degrees:

1993-1999	M.D. - Medical Faculty, University of P.J.Safarik, Kosice, Slovak Republic
1999-2004	Ph.D. - Postgradual study in Neuroscience, 3rd medical faculty, Charles University, Prague, Czech Republic. Thesis: Objective diagnostics and evaluation of vigilance changes in dementia.

International Professional Organizations:

Vice-president, International Pharmaco EEG Group (IPEG)
Member, EEG and Clinical Neuroscience Society (ECNS)
Member, The Association of European Psychiatrists (AEP)
Member, Czech society for clinical neurophysiology
Member, Czech Neuropsychopharmacological society
Member, Czech Society for Sleep Research and Sleep Medicine
Member, Czech Neurological Society, Section of Cognitive Neurology

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

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.” Description of work: participation in the EEG part of project (processing of EEG data – selection of artefact-free epochs, spectral, cordance and LORETA current densities computations, analysis of EEG data), responsibility for publication activity in the field of neurophysiologic part of project.

2015-2018 PI, 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”. Description of work: coordination of all project activities, supervision of overall methodology of the project (including methodology of EEG recordings), and also a participation in EEG part of project (FFT analysis, QEEG cordance calculation and estimation of current source densities by LORETA). Together with all co-workers, responsibility for publication activity in the field of clinical efficacy and prediction.

2014-2017 collaborator, Czech-Norwegian Research Program no. 7F14236, “HCENAT - Naturalness in human cognitive enhancement “, (PI Žáčková, Co-PI Horáček). Description of work: participation in the EEG/ERP part of project, analysis of EEG data, publication.

2011-2015 PI, research project of Ministry of Health, Czech Republic, “Electrophysiological correlates of emotional neurocircuits in depression, bipolar affective disorder and healthy population”. Description of work: coordination of all project activities, supervision of overall methodology of the project, participation in QEEG analysis, responsibility for publication activity in the field of QEEG.

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”. Description of work: participation in the EEG part of project (processing of EEG data – selection of artefact-free epochs, cordance computations, analysis of EEG data), responsibility for publication activity.

2012-2015 collaborator, research project of Ministry of Health, Czech Republic, “Animal and human serotonergic model of schizophrenia: validity evaluated by qEEG and fMRI”. Description of work: participation in the processing of EEG data, QEEG data analysis, publication activity.

Recent International Cooperation:

- Department for Psychiatry, University Zurich, Switzerland: Sebastian Olbrich, Torsten Meyer
- Laboratory of Movement Control and Neuroplasticity, KU Leuven, Belgium: Marco Marino
- Institute of Biosciences, Vilnius University, Lithuania: Inga Griskova-Bulanova, Evaldas Pipinis
- Nencki Institute of Experimental Biology, Warsaw, Poland: Daniel K. Wójcik
- Department of Psychiatry and Medical Psychology, Ghent University, Belgium: Chris Baeken

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 Alois Alzheimer Price, (Czech Republic), 2nd place,
2004 Best Poster Award,1stplace,Congress of the Association of European Psychiatrists, Geneve
2004 Travel grant recipient (The International Society for NeuroImaging in Psychiatry (ISNIP) and EEG & Clinical Neuroscience Society (ECNS) JOINT MEETING, Irvine, CA)
2004 One of the best five contribution, the Werner Herrmann Memorial Grant 2004 competition (International PharmacoEEG Group Symposium, Antwerp, Belgium)
2005 Travel grant recipient (9th Congress of the European Federation of Neurological Society - EFNS. Spetember 17-20, 2005. Athens, Greece)
2006 The Werner Herrmann Memorial Grant 2006, the best contribution presented by young scientists (International PharmacoEEG Group Symposium, Awaji, Japan)
2010 Poster Prize Adward, XXVII CINP Congress, 6.-10.June 2010, Hong Kong, China. (Tomas Palenicek et al.: The effect of ketamine on sensorimotor gating, EEGH spectra and conherence – comparison of human and animal data).
2011 Best Poster Awards at the 10th World Congress of Biological Psychiatry, Prague (Tyls F, et al. The role of glutamatergic ionotropic and metabotropic receptors in an animal model of schizophrenia in rats – Effect on behavior, prepulse inhibition and quantitative EEG).
2018 Best Poster Award, CINP 2018 World Congress, Vienna. The influence of benzodiazepine medication on the antidepressant effect of ketamine. V.Andrashko, T.Novák, J.Horáček, M.Klírová, M.Brunovský

Web of Science Publications Summary:

h-index: 16 Sum of the Times Cited: 763 Without self citation: 710 Citing articles: 616