

Curriculum Vitae

Assoc. Prof. Monika KLÍROVÁ, M.D., Ph.D.

DEGREES:

2004 - M.D. - Charles University, Prague

2013 - PhD. - Postdoctoral studies in Neuroscience, Charles University, Prague

2022 - Assoc. Prof. - Charles University, Prague

QUALIFICATIONS, PROFESSIONAL TRAINING AND EXPERIENCE:

2005 - 2013 - Postdoctoral studies for PhD. in Neuroscience, Charles University, Prague

2005 - 2014 - Clinical experience and scientific activity in Prague Psychiatric Center

2005 - ong. - Fellow for psychiatry at the 3rd Faculty of Medicine, Charles University, Prague

2007 - ong. - Research activity at the 3rd Faculty of Medicine, Charles University, Prague

2010 - 2012 - Head of the Laboratory of repetitive Transcranial Magnetic Stimulation (rTMS) in Prague Psychiatric Center

2011 - Czech Board of Psychiatry

2012 - Czech Board of Psychotherapy

2013 – 2015 - Maternity leave (2nd and 3rd child) - interrupted scientific activities

2015 - Head of the Department of Neurostimulation, senior researcher and psychiatrist in National Institute of Mental Health

2021 – ong. - Reviewer in Neuroscience Research (IF journal)

2021 – ong. - Supervisor of postgraduate students at the 3rd Faculty of Medicine, Charles University

2022 – Head of Non-Invasive Brain Stimulation research group in National Institute of Mental Health

MEMBER OF THE PROFESSIONAL ORGANIZATIONS:

2006 – ong. - A member of the CNPS (The Czech Neuropsychopharmacological Corporation)

2006 - 2011 - Science Assistant of the The Czech Neuropsychopharmacological Congress hosted by CNPS (The Czech Neuropsychopharmacological Corporation)

2013 – ong. - A member of the Psychiatric Society of the Czech Medical Association of J. E. Purkyně

2022 – A member of TMS society

AWARDS:

2007 - Awarded 1st poster presentation prize at the 15th Annual International Ain Shams Medical Students' Congress, Cairo, Egypt

2010 - Awarded ECNP Seminar Award 2010 during ECNP-EPA Seminar in Neuropsychopharmacology, Třešť, Czech Republic

2013 - The Award of Czech Neuropsychopharmacological Society for the best publication

2019 - The Award of Society of Biological Psychiatry for the best original work of the author up to 40 years of age

MOBILITY:

2003 - 2004 - two-semester internship within the Socrates / Erasmus program at the Universidade de Coimbra, Coimbra, Portugal

INVITED SPEAKER:

17.10.2019 - 19.10.2019 - 16th Psychopharmacological Symposium with International participation, Tatranská Lomnica;

25.09.2020 - 27.09.2020 - X. Czech-Slovak Neuropsychiatric Symposium organized under the auspices of the director UNLP in Košice, Red Monastery Spa;

10.06.2021 - 12.06.2021 - VII. Slovak Neuropsychiatric Congress, Tatranská Lomnica

PARTICIPATION IN SCIENTIFIC PROJECTS IN THE LAST 5 YEARS:

2017 - 2021 - PROGRESS (The Charles University Research Development Schemes) - participant

2016 - 2020 - Grant project AZV CZ No. 16-31380A - Transcranial magnetic stimulation in the treatment of bipolar depression - co-worker

2017 - 2020 - Grant project GACR CZ No. 1707070S - Effect of lithium on Na⁺/K⁺-ATPase activity and functional consequences of oxidative stress; from animal model to bipolar patients - co-worker
2020 - ong. - Grant project AZV CZ No. 20-24782S - The role of Inferior Parietal Lobe in Self-Agency - co-worker
2021 - IGS project NIMH - The influence of transcranial direct current stimulation (tDCS) on control inhibition processes in young adults – **principal investigator**
2022 - ong. - Grant project AZV CZ No. NU 22-D-133 - Transcranial direct current stimulation (tDCS) as a therapeutic intervention for post-acute sequelae of SARS-CoV-2 (PASC) - **principal investigator**

PUBLICATIONS IN LAST 10 YEARS:

Klirova M, Horacek J, Novak T, Spaniel F, Skrdlantova L, Mohr P, Höschl C, Individualized rTMS neuronavigated according to regional brain metabolism (18FDG PET) has better treatment effects on auditory hallucinations than standard positioning of rTMS. A double-blind, sham-controlled study, *Eur Arch Psychiatry Clin Neurosci* 2013;263(6): 475-484, IF = 3.355, ISSN: 0940-1334.

Fricova J, **Klirova M**, Masopust V, Novak T, Velebova K, Rokyta R, Repetitive transcranial magnetic stimulation in the treatment of chronic orofacial pain, *Physiol. Res.* 2013;62(Suppl 1):S125-S134, IF = 1.487, ISSN: 0862-8408.

Sos P, **Klirova M**, Novak T, Kohutova B, Horacek J, Palenicek T. Relationship of ketamine's antidepressant and psychotomimetic effects in unipolar depression. *Neuro. Endocrinol. Lett.* 2013; 34: 287–293, IF = 0.935, ISSN: 0172-780X.

Kohútová B, Fricová J, **Klírová M**, Novák T, Rokyta R. Theta Burst Stimulation in the Treatment of Chronic Orofacial Pain: a Randomized Controlled Trial. *Physiological Research.* 2017;66(6):1041–1047. IF = 1,461, ISSN: 0862-8408.

Wagner E, Honer WG, Sommer IE, Koops S, Blumberger DM, Daskalakis Z, Dlabac-De Lange J, Bais L, Knegtering H, Aleman A, Novak T, **Klirova M**, Slotema C, Brunelin J, Poulet E, Kujovic M, Cordes J, Wobrock T, Siskind D, Falkai P, Schneider-Axmann T & Hasan A. Repetitive transcranial magnetic stimulation (rTMS) for schizophrenia patients treated with clozapine, *The World Journal of Biological Psychiatry.* 2020; 1-13. IF = 4,164. Print ISSN: 1562-2975 Online ISSN: 1814-1412.

Klírová M, Hejzlar M, Kostýlková L, Mohr P, Rokyta R, Novák T. Prolonged Continuous Theta Burst Stimulation of the Motor Cortex Modulates Cortical Excitability but not Pain Perception. *Front. Syst. Neurosci.* 2020; 14. IF = 3,293. doi: 10.3389/fnsys.2020.00027.

Andrashko V, Novak T, Brunovsky M, **Klírová M**, Sos P, & Horacek J. The antidepressant effect of ketamine is dampened by concomitant benzodiazepine medication. *Front. Psych.* 2020; 11, 844. IF = 4,157. doi:10.3389/fpsy.2020.00844

Klírová M, Voráčková V, Horáček J, Mohr P, Jonáš J, Urbaczka Dudysová D, Kostýlková L, Fayette D, Krejčová L, Baumann S, Laskov O, and Novák T. Modulating inhibitory control processes using individualized high definition theta transcranial alternating current stimulation (HD θ -tACS) of the anterior cingulate and medial prefrontal cortex. *Front. Syst. Neurosci.* 2021; 15. IF = 3,293. doi: 10.3389/fnsys.2021.611507

Laskov O., **Klírová M**. Effects of deep transcranial magnetic stimulation (dTMS) on cognition. *Neurosci. Lett.* 2021; 755(135906), 1–20. IF = 2,274

Stuchlíková Z., **Klírová M**. Transcranial direct current stimulation (tDCS) in schizophrenia. *Psychiatrie* 2022, číslo 1, s.15-24. ISSN 1211-7579.

Stuchlíková Z., **Klírová M**. A Literature Mini-Review of Transcranial Direct Current Stimulation (tDCS) in Schizophrenia. *Front. Psych.* 2022; 13:874128. IF = 4,157. doi: 10.3389/fpsy.2022.874128.

1st April 2022

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Total citations count: 459 (Scopus)

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