

## GÁBOR CSUKLY



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## RESEARCH AREA

He currently leads the "Clinical Neuroscience and Neuroimaging Research Group" at Semmelweis University. The main research focus of the group is the study of emotion processing and social cognition and perception in schizophrenia and their relation to brain connectivity as measured by imaging studies. They are also investigating the early detection and prevention of dementia. Their main research methods are MR imaging and high-density EEG, as well as neuropsychological studies. The group's most recent research area is Transcranial Magnetic Stimulation (TMS), focusing on the potential of TMS treatment in treating schizophrenia.

## TECHNIQUES AVAILABLE IN THE LAB

1. Event-related Potential and resting-state EEG pre-processing and analysis
2. Assessment and evaluation of neuropsychological tests in psychiatric patient groups
3. Structural and functional MR analysis

## SELECTED PUBLICATIONS

**Csukly, G.**, Farkas, K., Fodor, T., Unoka, Z., Polner, B. (2023) Stronger coupling of emotional instability with reward processing in borderline personality disorder is predicted by schema modes. *Psychol Med.* 2023 Feb 9:1-10. doi: 10.1017/S0033291723000193. Online ahead of print. PMID: 36754994.

Becske, M., Marosi, C., Molnár, H., Fodor, Z., Tombor, L., **Csukly, G.** (2022) Distractor filtering and its electrophysiological correlates in schizophrenia. *Clin Neurophysiol.* 2022 Jan;133:71-82. doi: 10.1016/j.clinph.2021.10.009. Epub 2021 Nov 9. PMID: 34814018.

Fodor, Z., Horváth, A., Hidasi, Z., Gouw, A.A., Stam, C.J., **Csukly, G.** (2021) EEG Alpha and Beta Band Functional Connectivity and Network Structure Mark Hub Overload in Mild Cognitive Impairment During Memory Maintenance. *Front Aging Neurosci.* 2021 Oct 7;13:680200. doi: 10.3389/fnagi.2021.680200. eCollection 2021. PMID: 34690735.

**Csukly, G.**, Szabó, Á., Polgár, P., Farkas, K., Gyebnár, G., Kozák, L.R., Stefanics, G. (2021) Fronto-thalamic structural and effective connectivity and delusions in schizophrenia: a combined DTI/DCM study. *Psychol Med.* 2021 Sep;51(12):2083-2093. doi: 10.1017/S0033291720000859. Epub 2020 Apr 24. PMID: 32329710.

Marosi, C., Fodor, Z., **Csukly, G.** (2019) From basic perception deficits to facial affect recognition impairments in schizophrenia. *Sci Rep.* 2019 Jun 20;9(1):8958. doi: 10.1038/s41598-019-45231-x. PMID: 31222063.