

ANNA ALTBÄCKER, PHD

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RESEARCH AREAS

- Disturbances in emotion processing and behavioral regulation: neuroanatomical and neurobiological factors (brain morphology, neurosteroid hormones)
- Event related potentials (ERP), structural magnetic resonance imaging (sMRI)
- Attention and executive functions in extreme environments (astronauts, polar researchers)

STUDIES

- 2011 - 2017 University of Pécs, Doctoral School of Clinical Neuroscience
supervisor: Dr. József Janszky
- 2004 - 2010 Eötvös Loránd University, Psychology (BA-MA)
specialized in Health Psychology, Drug prevention

WORK EXPERIENCE

- 2014 - Institute of Cognitive Neuroscience and Psychology, Research Centre for Natural Sciences, Hungarian Academy of Sciences;
Environmental Adaptation and Space Research Group
- 2014 - 2017 junior research fellow
 - 2017 - research fellow
- 2011 - 2014 Department of Neurology, University of Pécs
- research assistant

OTHER SKILLS

statistics (STATISTICA, SPSS)

PUBLICATIONS

Altbäcker, A., Plózer, E., Darnai, G., Perlaki, G., Orsi, G., Nagy, S. A., ... & Clemens, Z. (2014). Alexithymia is associated with low level of vitamin D in young healthy adults. *Nutritional Neuroscience*, 17(6), 284-288.

Altbäcker, A., Plózer, E., Darnai, G., Perlaki, G., Horváth, R., Orsi, G., Nagy, S. A., Bogner, P., Schwarcz, A., Kovács, N., Komoly, S., Clemens, Z., Janszky, J. (2016) Problematic Internet use is associated with structural alterations in the brain reward system in females", *Brain Imaging and Behavior*, 10(4), 953-959.

Darnai, G., Plózer, E., Altbäcker, A., Perlaki, G., Orsi, G., Kószegi, T., Nagy, Sz. A., Lucza, T., Kovács, N., Janszky, J., Clemens, Zs. (2015) The relationship between serum cholesterol and verbal memory may be influenced by body mass index (BMI) in young healthy women. *Ideggyógyászati Szemle/Clinical Neuroscience*, 69(5-6), 177-182.

Darnai, G., Plózer, E., Perlaki, G., Orsi, G., Nagy, S. A., Horváth, R., Schwarcz, A., Kovács, N., Altbäcker, A., Janszky, J., Clemens, Z. (2015) Milk and dairy consumption correlates with cerebral cortical as well as cerebral white matter volume in healthy young adults. *International Journal of Food Sciences and Nutrition*, 66(7), 826-829.

Darnai, G., Plózer, E., Perlaki, G., Orsi, G., Nagy, Sz. A., Horváth, R., Schwarcz, A., Kovács, N., Altbäcker, A., Janszky, J., Clemens, Zs. (2016). 2D:4D finger ratio positively correlates with total cerebral cortex in males. *Neuroscience Letters*, 615, 33-36.

Darnai, G., Nagy, Sz. A., Horváth, R., Ács, P., Perlaki, G., Orsi, G., Kovács, N., Altbäcker, A., Plózer, E., Tényi, D., Weintraut, R., Schwarcz, A., John, F., Komoly, S., Clemens, Zs., Janszky, J. (2017) Iron concentration in deep gray matter structures is associated with worse visual memory performance in healthy young adults. *Journal of Alzheimers Disease* (Epub ahead of print, DOI: 10.3233/JAD-170118).

Kalmár, Z., Kovács, N., Balás, I., Perlaki, G., Plózer, E., Orsi, G., Altbäcker, A., Schwarcz, A., Hejje, L., Komoly, S., Janszky, J. (2013). Effects of spinal cord stimulation on heart rate variability in patients with chronic pain. *Ideggyógyászati Szemle/Clinical Neuroscience*, 66(3-4), 102-6.

Kuperczkó, D., Perlaki, G., Faludi, B., Orsi, G., Altbäcker, A., Kovács, N., ... & Janszky, J. (2015). Late bedtime is associated with decreased hippocampal volume in young healthy subjects. *Sleep and Biological Rhythms*, 13(1), 68-75.

Perlaki, G., Horvath, R., Orsi, G., Aradi, M., Auer, T., Varga, E., Kantor, Gy., Altbäcker, A., John, F.; Doczi, T., Komoly, S., Kovacs, N., Schwarcz, A., Janszky, J. (2013). White-matter microstructure and language lateralization in left-handers: a whole-brain MRI analysis. *Brain and Cognition*, 82(3), 319-328.

Perlaki, G., Orsi, G., Plozer, E., Altbäcker, A., Darnai, G., Nagy, S. A., ... & Janszky, J. (2014). Are there any gender differences in the hippocampus volume after head-size correction? A volumetric and voxel-based morphometric study. *Neuroscience Letters*, 570, 119-123.

Plózer, E., Altbäcker, A., Darnai, G., Perlaki, G., Orsi, G., Nagy, S. A., ... & Janszky, J. (2015). Intracranial volume inversely correlates with serum 25 (OH) D level in healthy young women. *Nutritional Neuroscience*, 18(1), 37-40.