

## **IRÉN BARKASZI, PhD**

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### **RESEARCH AREAS**

- Electrophysiological and behavioral correlates of mental fatigue
- ERPs to task irrelevant novel stimuli (P3a)
- Executive functions, attention and ERPs in astronauts during spaceflight
- The impact of Antarctic overwintering on cognitive processes

### **STUDIES**

2007-2017	University of Debrecen, Psychology PhD-program supervisor: Dr. László Balázs
2002-2007	University of Debrecen, Psychology (BA-MA) specialized in Experimental and Cognitive Psychology and Methodology
1996-2002	University of Debrecen, Mathematics and Biology (BA-MA) Teacher of Mathematics and Biology, MSc

### **WORK EXPERIENCE**

2007-	Institute of Cognitive Neuroscience and Psychology, Research Centre for Natural Sciences, Hungarian Academy of Sciences; Environmental Adaptation and Space Research Group
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- 2007-2017 junior research fellow
- 2017- research fellow

### **OTHER SKILLS**

programming (MATLAB, eeglab, cogent graphics, E-prime, Neuroscan) and statistics (STATISTICA)

## PUBLICATIONS

Barkaszi I., Czigler I., Balazs L. (2013). Stimulus complexity effects on the event-related potentials to task-irrelevant stimuli. *Biological Psychology* 94:(1) pp. 82-89.

Takács, E., Sulykos, I., Czigler, I., Barkaszi, I., & Balázs, L. (2013). Oblique effect in visual mismatch negativity. *Frontiers in Human Neuroscience*, 7.

Kondé Z., Barkaszi I., Czigler, I. (2009). Gátlási mechanizmusok és válasszelekciós interferencia a feladatváltásban. [Inhibition and response selection in task switching]; *Pszichológia*, 29, 2, 119-143.

Barkaszi I., Czigler I., Pató L.G., Balázs L. (2010). Target P3 decrement as a result of mental fatigue. In *INTERNATIONAL JOURNAL OF PSYCHOPHYSIOLOGY* 77:(3) pp. 330-331.

Takács, E., Barkaszi, I., Czigler, I., & Balázs, L. (2014). Processing of basic spatial orientation cues in microgravity. Oral presentation at the 6th International Congress of Medicine in Space and Extreme Environments, Berlin, Germany.

Takács, E., Barkaszi, I., Czigler, I., & Balázs, L. (2015). Attention related brain responses reveal reduced activity in microgravity. Oral presentation at the International Academy of Astronautics' 20th Humans in Space Symposium, Prague, Czech Republic.

Balázs, L., Barkaszi, I., Czigler, I., & Takács, E. (2014). Spaceflight conditions influence event related brain electrical activity. Oral presentation at the 6th International Congress of Medicine in Space and Extreme Environments, Berlin, Germany.

Balázs, L., Barkaszi, I., Czigler, I., & Takács, E. (2015). Spaceflight yields diminished perception of directions and increased reliance on external visual framework. Oral presentation at the International Academy of Astronautics' 20th Humans in Space Symposium, Prague, Czech Republic.

Barkaszi, I., Takacs, E., Czigler, I., & Balazs, L. (2013). The impact of Antarctic overwintering on cognitive processes. In *PSYCHOPHYSIOLOGY* (Vol. 50, pp. S134-S134). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.