

CURRICULUM VITAE

DEZSŐ NÉMETH

Professor of Psychology with Habilitation
Hungarian Academy of Sciences, Research Center for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary
and

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RESEARCH INTERESTS

Implicit cognition and consciousness
Intuitive decision making and predictive processing
Memory processes across human lifespan
Cognitive neuroscience of human memory formation and consolidation
Memory systems behind habits and decision-making
Statistical learning

Methods: Neuropsychology, Experimental Psychology, Non-invasive brain stimulation (tDCS, tACS), Electroencephalography (ERP, functional connectivity), computational modelling

EDUCATION AND QUALIFICATIONS

Habilitation <i>in Psychology</i>	University of Pécs, Pécs, Hungary, EU	2011
Ph.D. <i>in Experimental Psychology</i>	Eotvos Lorand University of Sciences, Budapest, Hungary PhD Thesis: “The relationship between memory systems and language processes”	2005
M.A. <i>in Psychology</i>	Eotvos Lorand University of Sciences, Budapest, Hungary	1994 – 1999

EMPLOYMENT AND PROFESSIONAL AFFILIATIONS

<i>Professor</i>	Department of Clinical Psychology and Addiction, Institute of Psychology, Eötvös Loránd University, Budapest, Hungary	2017 – present
<i>Senior Research Fellow</i>	Institute of Cognitive Neuroscience and Psychology, Hungarian Academy of Sciences, Budapest, Hungary	2015 – present
<i>Associate Professor</i>	Department of Clinical Psychology and Addiction, Institute of Psychology, Eötvös Loránd University, Budapest, Hungary	2012 – present

<i>Visiting Professor</i>	Angela Friederici Lab, Department of Neuropsychology, Max Planck Institute, Leipzig, Germany	2015 – 2015
<i>Visiting Professor</i>	Russell A. Poldrack's Lab, Imaging Research Center, University of Texas, Austin, USA	2011 – 2012
<i>PI</i>	Brain, Memory and Language Lab (own research lab)	2008 – present
<i>Associate Professor</i>	Institute of Psychology, University of Szeged, Szeged, Hungary	2009 – 2012
<i>Visiting Professor</i>	Brain and Language Lab, Department of Neuroscience, Medical School, Georgetown University, Washington DC, USA	2007 – 2008
<i>Assistant Professor</i>	Institute of Psychology, University of Szeged, Szeged, Hungary, EU	2005 – 2009
<i>Junior Asst. Professor</i>	Institute of Psychology, University of Szeged, Szeged, Hungary, EU	1999 – 2005

Collaborators (and referees):

- 1) Darlene V. Howard, Davis Family Distinguished Professor of Psychology, Department of Psychology, Georgetown University, Washington DC. Phone: 202-687-4271, Fax: 202-687-6050, Email: howardd@georgetown.edu
- 2) István Winkler, Professor, Hungarian Academy of Sciences and University of Szeged, Phone: 36-30-5739255, 36-1-3542296, Email: iwinkler@cogpsyphy.hu
- 3) James H. Howard Jr., Wylma R. and James R. Curtin Professor of Psychology, Department of Psychology, The Catholic University of America, Washington DC. Phone: (202) 319-479, Email: howard@cua.edu
- 4) Richard Ivry, Professor and Chair, Department of Psychology, University of California, Berkeley. Phone: 510-642-7146. Email: ivry@berkeley.edu
- 5) Joseph P. Forgas, Scientia Professor, School of Psychology, University of New South Wales, Australia, Phone: (02) 9385 3037. Email: jp.forgas@unsw.edu.au
- 6) Russell A. Poldrack, Professor of Psychology and Neurobiology, Stanford University. Phone: (650) 497-8488 Email: poldrack@stanford.edu
- 7) Walter Paulus, Professor of Clinical Neurophysiology, Department of Clinical Neurophysiology, Göttingen University Medical School, Germany. Phone: +49-(0)551-39 6650, Fax: +49-(0)551-39 8126, Email: wpaulus@med.uni-goettingen.de
- 8) Axel Cleeremans, Professor of Psychology, NFRS Research Director, Consciousness, Cognition & Computation Group, Université Libre de Bruxelles, Belgium. Phone: +32 2 650 3296, Fax: +32 2 650 2209, Email: axcleer@ulb.ac.be
- 9) Andras Bodor, Senior Economist, The World Bank, Social Protection & Labor Global Practice. Phone: +17038677308, Email: abodor@worldbank.org

HONORS, AWARDS, AND INVITED TALKS

- 2016 Kardos Lajos Award – The Scientific and Publication Award of the Hungarian Psychological Association and the Hungarian Academy of Sciences
- 2016 Pro Ingenio Award – Eötvös Loránd University, Budapest
- 2016 Pro Progressio Eruditionis Award – Eötvös Loránd University, Budapest
- 2015 Invited Talk – UCL, London (Host: Faraneh Vargha-Khadem)
- 2015 Invited Talk – Max Planck Institute, Leipzig (Host: Christopher J. Steele)
- 2015 Invited Talk – University of Leipzig, Leipzig (Host: Patrick Ragert)
- 2014 Invited Talk – Stanford University, Stanford (Host: Russel Poldrack)
- 2014 Invited Talk – University of California, Santa Barbara (Host: F.Gregory Ashby)
- 2014 Invited Talk – California Institute of Technology, Pasadena (Host: John O'Doherty)
- 2014 Symposium organizer and co-chair – Society for Neuroscience Annual Meeting, Washington DC
- 2014 Invited Talk – Johns Hopkins University, Medical School, Baltimore (Host: Zoltan Mari)
- 2014 Invited Talk – University of Zurich, Zurich, Switzerland (Host: Peter Achermann) (Nemeth, D. & Janacsek, K.: Implicit statistical learning: from acquisition to consolidation)
- 2014 Invited Talk – Central European University, Budapest, Hungary (Host: Gergely Csibra) (Nemeth, D.: Cooperative and competitive neurocognitive networks underlying motor, cognitive and social skills)
- 2014 Invited Talk – Max Planck Institute, Leipzig, Germany (Host: Angela D. Friederici) (Nemeth, D. & Janacsek, K.: Cooperative and competitive neurocognitive networks underlying cognitive skills)
- 2013 **The Wall Street Journal** published a short article about my language morphology project (July 9, 2013)
- 2013 Panel member of the Grant Review Board of the **European Research Council (ERC)**
- 2012 Consultant of World Bank (Cognitive Neuroscience expert in habit formation and habit change)
- 2012 Invited Talk – School of Medicine, Johns Hopkins University, Baltimore, USA (Nemeth, D.: Age-Related Changes and Consolidation of Implicit Sequence Learning)
- 2012 Invited Talk – Department of Psychology, University of California, Berkeley, USA (Host: Richard Ivry) (Nemeth, D.: Probabilistic sequence learning: From sleep to consolidation)
- 2012 Invited Talk – Cognitive Systems Seminar, Department of Psychology, University of Texas, Austin, USA (Nemeth, D.: The development and consolidation of implicit learning)
- 2011 Award for **Distinguished Teaching**, Hungarian Academy of Sciences
- 2011 **Keynote Speaker** – III Dubrovnik Conference on Cognitive Science, Dubrovnik, Croatia May 12-15 (Nemeth D.: Development of implicit learning across life-span)
- 2010 **Psychology Today** reported the Implicit learning in autism project
Psychology Today, July 26, 2010. (Nemeth et al. 2010 PLoS ONE)
- 2010 Invited Talk – Brain and Creativity Institute (Antoine Bechara), University of Southern California, LA November 23. (Németh, D.: How can we predict the future implicitly?)
- 2010 Invited Talk – “Public Talks”, University of Szeged

- March 3. (Németh, D.: The neuroscience of intuition)
- 2010 **Lecturer Award** of the Hungarian Psychiatric Association
(Németh, D., Király, K., Janacsek, K., Németh, K., Fazekas, K., Ádám, I., Király, E., Csányi, A., Sefcsik, T.:
Implicit skill learning in Mild Cognitive Impairment)
- 2009 Cited in **New Scientist** (Contribution to sleep research)
New Scientist November 26, 2009. (Nemeth et al., 2010 EBR)
- 2009 Pro Scientia **Award for Mentorship**, Hungarian Academy of Sciences
- 2009 Young Lecturer Award of the Hungarian Psychiatric Association
(Janacsek, K., Ujvári, K., Fekete, R., Gyüre, T., Filep, O., Németh, D.: The neuropsychological diagnostic of
working memory)
- 2007 **Young Scientists' Publication Award** of Hungarian Psychological Association (Mérei Award)
- 2007 Janos Bolyai Research Scholarship of Hungarian Academy of Sciences
- 2007 Invited Talk at University of Massachusetts Boston
October 31. 2007 „The procedural system and mental grammar”
- 2007 Invited Talk at Georgetown University, Department of Neuroscience, Washington, DC
October 11. 2007 – “Mental grammar and implicit learning”
- 2004 Invited Talk at Hungarian National Academy of Sciences
November 16, 2004, Budapest – Nemeth, D.: “The relationship between language systems and memory
structures”

EXECUTIVE / ORGANIZATIONAL DUTIES

Head of the Cognitive Psychology PhD Program , Eotvos Lorand University, Budapest	2017 – present
PI of Brain, Memory and Language Lab , Eotvos Lorand University, Budapest	2012 – present
Head of the Cognitive Science and Neuropsychology Group , University of Szeged	2011 – 2012
Deputy Head of the Institute of Psychology , University of Szeged, Hungary	2009 – 2011
PI of Memory and Language Lab, University of Szeged, Hungary	2008 – 2012
Organizer of the Cognitive Science and Neuropsychology Program at University of Szeged	2004 – 2011
Secretary of the Psychology Committee of the Hungarian Academy of Science	2009 – 2011, 2015 – present
Organizer of the National Scientific Student Conference in Szeged (OTDK)	2000 – 2012
Regular Reviewer and Committee Member National Scientific Student Conference	2000 – present
Editor of the <i>Science and Mind</i> (Tudomány és Lelek)	2000 – 2003
Scientific Periodical Review of the Foundation of Hungarian Psychology Students, Budapest	

GRANTS

<i>Principal Investigator</i> - Research Grant, National Brain Research Program	2012 – 2017
“Cooperative and competitive neurocognitive networks underlying habit formation and habit change” (580000\$)	
<i>Principal Investigator</i> - Research Grant, Hungarian Science Foundation, EU (OTKA NF 105878)	2012 – 2016
“Neurocognition of consolidation: from memory formation to established skills” (292000\$)	
<i>Principal Investigator</i> - Hungarian Mobility Grant, EU (OTKA MB08A- 84743)	2011 – 2012
“Neurocognitive background of interactions between implicit and explicit memory processes” (52000\$)	
<i>Co-Principal Investigator</i> - European Science Foundation, EU, TÁMOP 4.2.2.	2011 – 2013
“Grant for Gifted Education”	
<i>Principal Investigator</i> - Research Grant, Hungarian Science Foundation, EU (OTKA K 82068)	2010 – 2013
“The life-long development and pathology of implicit skill learning”	
<i>Principal Investigator</i> - Research Grant, Hungarian Science Foundation, EU (OTKA F 61943)	2006 – 2009
“The relationship between declarative and non-declarative memory systems and language”	
<i>Co-Investigator</i> - Research Grant, Hungarian Science Foundation, EU (OTKA T 034814)	2006 – 2009
“Cognitive neuropsychological examination of linguistic and cognitive functions”	
<i>Principal Investigator</i> - Hungarian Mobility Grant, EU, NKTH Mecenatúra	2006, 2007, 2008

MEMBERSHIP IN PROFESSIONAL SOCIETIES

European Society for Cognitive Psychology

Cognitive Neuroscience Society

Society for Neuroscience

Society for the Neural Control of Movement

International Neuropsychological Society

Hungarian Psychological Association

Hungarian Psychiatric Association

SUPERVISED PHD STUDENTS

Zsófia ZAVECZ	Neural correlates of sleep and memory	2016 – present
Dóra JUHÁSZ	Life-long development of implicit skill consolidation	2012 – present
Emese HALLGATO	Memory formation and consolidation	2012 – present
Virág BALOGH (PhD)	Memory and learning functions in autism	2017
Eszter CSÁBI (PhD)	Sleep and implicit memory	2016
Zita GÁL (PhD)	Implicit learning and social skills	2016
Timea TÁNCZOS (PhD)	Executive functions, working memory and school performance	2015
Karolina JANACSEK (PhD)	Development of implicit learning and skill learning	2012

TEACHING

Undergraduate

University of Texas, Austin, USA:
Psycholinguistics, Lecture

University of Szeged, Department of Psychology:
The role of sub-cortical structures in cognition - Seminar
Experimental Psychology – Memory – Lecture
Experimental Psychology – Memory – Seminar
Experimental Psychology - Language, Thinking – Lecture
Experimental Psychology - Language, Thinking – Seminar
Experimental Psychology – Perception – Seminar
Experimental Psychology – Emotion and Motivation – Seminar
Introduction to Neuropsychology – Lecture
Introduction to Psychology - Lecture
Developmental Psychology and Ageing - Lecture
Developmental Psychology and Ageing - Seminar

Eötvös Loránd University, Department of Psychology, Budapest:
Experimental Psychology – Memory – Lecture
Experimental Psychology – Memory – Seminar
Introduction to Psycholinguistics - Lecture
Language Acquisition - Lecture

Eötvös Loránd University, Bárczi Gusztáv Faculty of Special Education, Budapest:
Cognitive Psychology - Lecture

Graduate

University of Szeged, Department of Psychology:
Clinical Neuropsychology - Lecture
Psycholinguistics - Lecture
Language and Memory – Lecture

Intuition and Implicit Learning - Seminar

University of Szeged, Department of Neurology:
The Role of Sub-Cortical Structure in Cognition – Lecture

Semmelweis University, Medical School PhD Program, Budapest:
Neuropsychology

PUBLICATIONS

ARTICLES IN PEER-REVIEWED JOURNALS

- Brigitta Tóth, Karolina Janacsek, Ádám Takács, Andrea Kóbor, Zsófia Zavecz, Dezsó Nemeth (2017). Dynamics of EEG functional connectivity during statistical learning. *Neurobiology of Learning and Memory* 144 216-229
- Ádám Takács, A., Kóbor, A., Chezan, C., Éltető, N., Tárnok, Z., Nemeth, D., Ullman, M., Janacsek, K. (2017). Is procedural memory enhanced in Tourette syndrome? Evidence from a sequence learning task. *Cortex*, <https://doi.org/10.1016/j.cortex.2017.08.037>
- Szegedi-Hallgató, E., Janacsek, K., Vékony, T., Tasi, L. A., Kerepes, L., Hompoth, E. A., ... & Németh, D. (2017). Explicit instructions and consolidation promote rewiring of automatic behaviors in the human mind. *Scientific Reports*, 7. 4365. doi: 10.1038/s41598-017-04500-3
- Unoka, Z., Vizin, G., Bjelik, A., Radics, D., Nemeth, D., & Janacsek, K. (2017). Intact implicit statistical learning in borderline personality disorder. *Psychiatry Research*. 255. 373-381
- Takács, Á., Shilon, Y., Janacsek, K., Kóbor, A., Tremblay, A., Németh, D., & Ullman, M. T. (2017). Procedural learning in Tourette syndrome, ADHD, and comorbid Tourette-ADHD: Evidence from a probabilistic sequence learning task. *Brain and Cognition*, 117, 33-40.
- Kóbor, A., Janacsek, K., Takács, Á., & Nemeth, D. (2017). Statistical learning leads to persistent memory: Evidence for one-year consolidation. *Scientific Reports*, 7(1), 760. doi: 10.1038/s41598-017-00807-3
- Balázs Török, Karolina Janacsek, Dávid G. Nagy, Gergő Orbán, Dezsó Nemeth (2017). Measuring and Filtering Reactive Inhibition is Essential for Assessing Serial Decision Making and Learning. *Journal of Experimental Psychology: General*. 146 (4), 529–542
- Simor, P., Zavecz, Z., Csábi, E., Benedek, P., Janacsek, K., Gombos, F., & Németh, D. (2017). Delta and theta activity during slow-wave sleep are associated with declarative but not with non-declarative learning in children with sleep-disordered breathing. *Sleep Spindles & Cortical Up States*, 1(1), 55-66.
- Virág Márta, Janacsek Karolina, Balogh-Szabó Virág, Chezan Júlia, Németh Dezső (2017). Procedural learning and its consolidation in Autism spectrum disorder. *Ideggyógyászati Szemle* 70(3-4), 79-87
- Janacsek, K., Ambrus, G. G., Paulus, W., Antal, A., & Nemeth, D. (2015). Right hemisphere advantage in statistical learning: Evidence from a probabilistic sequence learning task. *Brain Stimulation* 8(2), 277-282
- Takács, Á., Kóbor, A., Janacsek, K., Honbolygó, F., Csépe, V., & Németh, D. (2015). High trait anxiety is associated with attenuated feedback-related negativity in risky decision making. *Neuroscience letters*, 600, 188-192.
- Virag, M., Janacsek, K., Horvath, A., Bujdosó, Z., Fabo, D., & Nemeth, D. (2015). Competition between frontal lobe functions and implicit sequence learning: evidence from the long-term effects of alcohol. *Experimental Brain Research* 233 (7), 2081-2089.
- Janacsek, K., & Nemeth, D. (2015). The puzzle is complicated: When should working memory be related to implicit sequence learning, and when should it not? (Response to Martini et al.). *Cortex*, 64, 411-412.
- Kóbor, A., Takács, Á., Janacsek, K., Nemeth, D., Honbolygó, F., & Csépe, V. (2015). Different strategies underlying uncertain decision making: Higher executive performance is associated with enhanced feedback-related negativity. *Psychophysiology* 52(3), 367-377.

- Nemeth, D., Janacsek, K., Turi, Z., Lukacs, A., Peckham, D., Szanka, S., ... & Ullman, M. T. (2015). The production of nominal and verbal inflection in an agglutinative language: evidence from Hungarian. *PLoS ONE*, 10(3), e0119003.
- Csábi, E., Benedek, P., Janacsek, K., Zavecz, Z., Katona, G., & Nemeth, D. (2015). Declarative and Non-declarative Memory Consolidation in Children with Sleep Disorder. *Frontiers in Human Neuroscience*, 9, 709.
- Borbély-Ipkovich, E., Janacsek, K., Nemeth, D., Gonda, X. (2014). The effect of negative mood and major depressive episode on working memory and implicit learning. *Neuropsychopharmacologica Hungarica*, 16(1), 29–42.
- Csabi, E., Varszegi-Schulz, M., Janacsek, K., Malecek, N., Nemeth, D. (2014). The consolidation of implicit sequence memory in Obstructive Sleep Apnea. *PLoS ONE* 9(10): e109010. doi:10.1371/journal.pone.0109010.
- Tánczos, T., Zádori, D., Jakab, K., Hnyilicza, Z., Klivényi, P., Keresztes, L., Engelhardt, J., Németh D, Vécsei, L. (2014) The role of cognitive training in the neurorehabilitation of a patient who survived a lightning strike. A case study. *NeuroRehabilitation*. 35(1), 137-46.
- Nemeth, D., Janacsek, K., Polner, B., & Kovacs, Z. A. (2013). Boosting human learning by hypnosis. *Cerebral Cortex*, 23(4), 801-805.
- Janacsek, K., Nemeth, D. (2013). Implicit Sequence Learning and Working Memory: Correlated or Complicated? *Cortex*, 49(8), 2001-2006.
- Nemeth, D., Janacsek, K., Király, K., Londe, Z., Németh, K., Fazekas, K., Adam, I., Király E. & Csányi, A (2013). Probabilistic Sequence Learning in Mild Cognitive Impairment. *Frontiers in Human Neuroscience*, 7, Article 318.
- Hallgató, E., Győri-Dani, D., Pekár, J., Janacsek, K., & Nemeth, D. (2013). The differential consolidation of perceptual and motor learning in skill acquisition. *Cortex*, 49(4), 1073-1081.
- Nemeth, D., Turcsik, A. B., Farkas, G., Janacsek, K. (2013). Social Communication Impairs Memory Performance. *Applied Neuropsychology*, 20(3), 211-214.
- Nemeth, D., Janacsek, K., & Fiser, J. (2013). Age-dependent and coordinated shift in performance between implicit and explicit skill learning. *Frontiers in Computational Neuroscience*, 7, Article 147.
- Csabi, E., Benedek, P., Janacsek, K., Katona, G., Nemeth, D. (2013). Sleep disorder in childhood impairs declarative but not non-declarative forms of learning. *Journal of Clinical and Experimental Neuropsychology*, 35(7), 677-685.
- Németh, D., Sefcsik, S., Németh, K., Turi, Zs., Dye, C. D., Csibri, P., Janacsek, K., Vörös, E., Vecsei, L., Sztriha, L. (2013). Impaired language production in asymptomatic Carotid Stenosis. *Journal of Neurolinguistics*, 26(4), 462-469.
- Kincses, Z. T., Szabó, N., Tóth, E., Zádori, D., Faragó, P., Németh, D., Janacsek, K., Babos, M., Klivényi, P., & Vécsei, L. (2013). Diffusion MRI Measured White Matter Microstructure as a Biomarker of Neurodegeneration in Preclinical Huntington's Disease. *Clinical Neuroscience (Ideggyógyászati Szemle)*, 66(11-12), 399-405.
- Nemeth, D., Dye, C. D., Sefcsik, T., Janacsek, K., Turi, Zs., Londe, Zs., Klivenyi, P., Kincses, T. Z., Szabó, N., Vécsei, L., & Ullman, M. T. (2012). Language deficits in Pre-Symptomatic Huntington's Disease: Evidence from Hungarian. *Brain and Language*, 121(3), 248-253
- Janacsek, K., Fiser, J., & Nemeth, D. (2012). The best time to acquire new skills: age related changes in implicit learning across human life span. *Developmental Science*, 15 (4), 496-505
- Janacsek, K. & Nemeth, D. (2012). Predicting the future: from implicit learning to consolidation. *International Journal of Psychophysiology*, 83(2), 213-221. doi: 10.1016/j.ijpsycho.2011.11.012.

- Nemeth, D., Csabi, E., Janacsek, K., Varszegi, M., Mari, Z. (2012). Intact implicit probabilistic sequence learning in Obstructive Sleep Apnea. *Journal of Sleep Research*, 21, 396-401
- Klivenyi, P., Nemeth, D., Sefcsik, T., Janacsek, K., Hoffmann, I., Haden, G. P., et al. (2012). Cognitive Functions in Ataxia with Oculomotor Apraxia Type 2. *Frontiers in Neurology*, DOI: 10.3389/fneur.2012.00125
- Nemeth, D., Janacsek, K. (2011). The dynamics of implicit skill consolidation in young and elderly adults. *Journal of Gerontology*. 66B(1), 15-22.
- Nemeth, D., Ivády, R. E., Guida, A., Miháltz, M., Peckham, D., Krajcsi, A., Pléh, Cs. (2011). The effect of morphological complexity on short-term memory capacity. *Acta Linguistica Hungarica*. 58 (1–2), 85–107.
- Nemeth, D., Janacsek, K., Csifcsak, G., Szvoboda, G., Howard, D., Howard, J. H. (2011). Interference between sentence processing and probabilistic implicit sequence learning. *PLoS ONE*, 6(3): e17577
- Nemeth, D., & Janacsek, K. (2011). Are Children with Autism Good or Bad Learners? *Proceedings of the National Academy of Sciences of the United States of America*, 108:E57
- Nemeth, D., Janacsek, K., Londe Zs., Ullman, M. T., Howard D. V., Howard, J. H. Jr (2010). Sleep has no critical role in implicit motor sequence learning in young and old adults. *Experimental Brain Research*, 201(2), 351-358
- Hoffmann, I., Nemeth, D., Dye, C., Pákási, M., Irinyi, T., Kálmán, J. (2010). Temporal features of spontaneous speech in Alzheimer's Disease. *International Journal of Speech-Language Pathology* 12(1), 29-34
- Nemeth, D., Janacsek, K., Balogh, V., Londe, Zs., Fazekas, M., Jámboři, Sz., Dányi, I., Vetró Á (2010). Learning in autism: implicitly superb. *PLoS ONE*, 5(7):e11731
- Sztriha, L. K., Nemeth, D., Sefcsik, T., Vecsei, L. (2009). Carotid stenosis and the cognitive function. *Journal of Neurological Sciences*. 283(1), 36–40
- Nemeth, D., Hallgato, E., Janacsek, K., Sandor, T., Londe Zs. (2009). Perceptual and motor factors of implicit skill learning. *Neuroreport*, 20(18) 1654-1658.
- Sefcsik, T., Nemeth, D., Janacsek, K., Hoffmann, I., Scialabba, J., Klivenyi, P., Ambrus, G., Haden, G., Vecsei, L. (2009). The role of the putamen in higher cognitive functions – A case study. *Learning and Perception*, 2, 215-227.

ARTICLES IN PEER-REVIEWED JOURNALS IN HUNGARIAN

(Mainly development and validations of neuropsychological, memory and learning tests for Hungarian samples)

- Virág, M., Janacsek, K., & Németh, D. (2016). A végrehajtó funkciók és az implicit tanulás versengő kapcsolata. *Magyar Pszichológiai Szemle*, 71(4), 733-740. (in Hungarian)
- Gál, Z., Katona, K., Janacsek, K., & Németh, D. (2014). Theory of mind in offenders. *Pszichológia*, 34(3), 289-310. (in Hungarian)
- Csabi, E., & Németh, D. (2014). The role of sleep in the implicit learning processes. *Ideggyógyászati Szemle/Clinical Neuroscience*, 67(1-2), 9-18. (in Hungarian)
- Borbély-Ipkovich, E., Nemeth, D., Janacsek, K., & Gonda, X. (2013). Sequence learning in major depressive disorder. *Psychiatria Hungarica*, 29(3), 295-300. (in Hungarian)
- Gal, Z., Egyed, K., Paszthy, B., & Nemeth, D. (2011). Impaired Theory of Mind in Anorexia Nervosa. *Psychiatria Hungarica*, 26(1), 12-25. (in Hungarian)

- Csabi, E., Janacsek, K., Varszegi, M. & Nemeth, D. (2011). Different effect of sleep on working memory and skill learning: Cognitive functions in obstructive sleep apnea. *Psychiatria Hungarica*, 26(2), 78-86. (in Hungarian)
- Turi, Zs., Janacsek, K., & Nemeth, D. (2010). Effect of working memory, word frequency, context on lexical ambiguity. *Psychology (Pszichológia)*, 30(4), 295-315. (in Hungarian)
- Huszár, T., Makra, E., Hallgató, E., Janacsek, K., Nemeth, D. (2010). The effect of taboo words on language processing. *Psychiatria Hungarica*, 25(6), 525-537. (in Hungarian)
- Janacsek, K., Táncczos, T., Mészáros, T., Németh, D. (2009). The Hungarian version of Listening Span Task. *Magyar Pszichológiai Szemle (Hungarian Review of Psychology)* 64(2) 385-406 (in Hungarian)
- Csanádi, A., Harsányi, Sz. G., Németh, D. (2009). Social cognition and working memory. *Pszichológia (The Journal of the Institute of Psychology of Hungarian National Academy)* 29(2) 145-165 (in Hungarian)
- Mlinarics, R., Kelemen, O., Sefcsik, T., Németh, D. (2009). Cognitive function in alcoholism. *Neuropsychopharmacologia Hungarica XI/3*, 135-139 (in Hungarian)
- Nemeth, D., Racsmány, M., Konya, A., Pleh, Cs. (2000). Working memory capacity tasks and their role in neuropsychological diagnosis. *Magyar Pszichológiai Szemle (Hungarian Review of Psychology)*, LV. 4. 403-416 (in Hungarian)
- Nemeth D., Pleh Cs. (2001). Language processing, working memory, translation. *Tolmacstudomány (Science of Translation)* III. 1. 40-53 (in Hungarian)
- Nemeth, D. (2002). The development of working memory and sentence processing. *Pszichológia (The Journal of the Institute of Psychology of Hungarian National Academy)* (22), 3, 267-276 (in Hungarian)
- Magyari, L. and Nemeth, D. (2003). Verbal working memory and text comprehension In *Tudomány és lelek (Science and Mind)* , 6. évf., 9. szám 2003. november 24. 5-19 (in Hungarian)
- Krajcsi, Attila and Nemeth, D. (2003). Numerical abilities. *Erdélyi Pszichológiai Szemle (Transylvanian Journal of Psychology)* 4/4, 331-362. (in Hungarian)
- Racsmány, M., Lukács, Á., Németh, D., Pléh, Cs. (2005). Hungarian diagnostic tools of verbal working memory functions. *Hungarian Review of Psychology* LX. 4. 479-505 (in Hungarian)
- Hoffmann, I., Németh, D., Kálmán, J. (2005). The temporal features of speech spontaneous speech in Alzheimer's disease *Beszédgyógyítás. (Speech therapy)* 16. évf. 1. 21-31. (in Hungarian)
- Németh D., Ivády R. E., Miháلتz M., Krajcsi A., Pléh CS. (2006). Verbal working memory and morphological complexity. *Magyar Pszichológiai Szemle*, 61. 2. 265-298 (*Hungarian Review of Psychology*) (in Hungarian)
- Dudits, A., Németh, D. (2007). Deep processing and double-coding in translation. *Fordítástudomány (The Science of Translation)*, IX. évf. 2. 5-23 (in Hungarian)
- Ambrus, G. G., Németh, D. (2008). Skills, language, implicit learning. *Pedagógusképzés (Pedagogy)*, 6/1-2. 43-54. (in Hungarian)

BOOKS

- Nemeth, D. (2006). The relationship between language processes and memory systems. Akadémiai Kiadó, Budapest (in Hungarian) ISBN9630583224
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PAPERS PRESENTED AT INTERNATIONAL CONFERENCES

2000-2002

9th International Morphology Meeting

February 25-27, 2000 University of Vienna

Nemeth, D.: "Working memory and processing morphologically based garden-path sentences in Hungarian."

ICOM-3 – The 3rd International Conference on Memory

July 16-20, 2001, Valencia

Nemeth, D., Racsmany, M., Pleh Cs.: "The development of the relationship between working memory components and sentence processing in Hungarian."

ICPS 2001 - International Conference for Physics Students

August 10-16, 2001, Dublin

Benedekfi, O., Nemeth, D.: „The physics of fMRI and DTI and their applications in cognitive neurosciences”

XII. ESCOP – XII. Conference of European Society for Cognitive Psychology

September 5-8, 2001, Edinburgh

Nemeth, D., Pleh, Cs.: "Individual Differences in Language Comprehension."

AMLap–2002 – 8th Conference on Architectures and Mechanisms for Language Processing

September 19-21 Tenerife, Spain

Németh, D., Pléh Cs.: „Lexical priming, working memory and morphological decomposition in Hungarian”

2005

9th European Congress of Psychology

July 3-8, 2005, Granada, Spain

Németh, D., Gönci D., Aczél B., Háden G., Ambrus G.: "The relationship between implicit learning and sentence processing"

9th European Congress of Psychology

July 3-8, 2005, Granada, Spain

Németh, D., Ivády E., Miháltz M., Pléh Cs.: "Verbal working memory and morphological complexity"

13th Annual Meeting of the European Society for Philosophy and Psychology.

August 11-14, 2005. Lund, Sweden

Aczél Balázs, Gönci Dániel, Németh Dezső: „Language and learning: alike in nonconsciousness”

XIVth ESCOP - Conference of European Society for Cognitive Psychology

August 31 - September 3, 2005, Leiden

Németh, D., Gönci D., Aczél B., Háden G., Ambrus G.: "The relationship between implicit learning and sentence processing" [C00419]

XIVth ESCOP - Conference of European Society for Cognitive Psychology

August 31 - September 3, 2005, Leiden

Németh, D., Ivády E., Miháltz M., Pléh Cs.: "Phonological loop and morphological complexity"

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Hoffmann I., Németh D., Kálmán J.: "The temporal properties of spontaneous speech in Alzheimer's disease"

Conference on Cognition and its origins

September 23-25, 2005. Technical University of Budapest, Budapest

Németh D., Gönci D., Aczél B., Ambrus G., Háden G., Orosz G.:

“Unconscious components of language”

2006

ICPLA 2006 - 11th Meeting of the International Clinical Phonetics and Linguistics Association

May 31-June 3, 2006, Dubrovnik

Ildiko Hoffmann, Dezsó Németh, Janos Kálmán & Magdolna Pákáski: Decreased speech tempo and the ratio in early stage of Alzheimer's disease

EWOMS-3 - 3rd European Working Memory Symposium

June 7-9, 2006, Genoa (Italy)

Csupor É., Kothencz Zs., Németh D.: „The relationship between sentence processing and verbal working memory – a dual-task paradigm”

EWOMS-3 - 3rd European Working Memory Symposium

June 7-9, 2006, Genoa (Italy)

Németh D., Ivady R., Mihaltz M., Racsmány M., Lukács A., Halacsy P., Pleh Cs.: Short-term recall of morphologically complex words

ICOM-4 - The 4th International Conference on Memory

July 16 – 21, 2006, Sydney

Németh D, Klivényi P, Tamás S, Vécsei L, Hádén G, GonciD, Aczél B, & Ambrus G: Implicit learning, sentence processing and sub-cortical regions

ICOM-4 - The 4th International Conference on Memory

July 16 – 21, 2006, Sydney

Krajcsi A, Lukács A, Németh D.:

Procedural processing in number transcription

ICOM-4 - The 4th International Conference on Memory

July 16 – 21, 2006, Sydney

Hoffmann I, Németh D, Kálmán J, & Pákáski M

Comparison of the temporal properties of spontaneous speech in aphasia and Alzheimer's disease

2007

17th Conference of Alzheimer Europe

May 9-12, 2007, Estoril

Hoffmann I, Németh D, Kálmán J, & Pákáski M:

Temporal features of Alzheimer's spontaneous speech

IBRO 2007 - World Congress of Neuroscience

July 12-17, Melbourne

Németh, D., Klivényi, P., Gardian, G., Sefcsik, T., Hádén, G., Hoffmann, I., Vecsei, L.

Differential role of cerebellum and basal ganglia in cognition

ESCOP 2007 – 15th Meeting of the European Society For Cognitive Psychology

August 29 – September 1., 2007, Marseille

Dezsó Németh, Rozália Ivady, Marton Mihaltz, Donald, Peckham, Attila Krajcsi, Csaba Pleh:

Verbal Working Memory and Morphological Complexity

ESCOP 2007 – 15th Meeting of the European Society For Cognitive Psychology

August 29 – September 1., 2007, Marseille

Agnes Lukacs, Attila Krajcsi, Dezsó Németh, Ferenc Kemeny:

Implicit Learning of Sequences and Language Impairment

48th Annual Meeting of Psychonomic Society

November 15 – November 18, 2007, Long Beach

Dezsó Németh, Peter Klivényi, Gabriella Gardian, Tamas Sefcsik, Laszlo Vecsei:

Mental Grammar, Implicit Learning, and Subcortical Region

2008

ICPLA 2008 - 12th Congress of the International Clinical Phonetics and Linguistics Association

June 25-28, 2008, Istanbul, Turkey

Ildiko, Hoffmann, Dezsó Nemeth, Laura Szel, Tamas Irinyi, Magdolna Pakaski, Janos Kalman:
Verbal working memory and the role of the phonological loop in Alzheimer's Disease

CNS 2008 – Annual Meeting of Cognitive Neuroscience Society

April 12-15, 2008, San Francisco

Dezsó NEMETH, Gabriella GÁRDIÁN, Péter KLIVENYI, Tamás SEFCSIK, Géza AMBRUS, Agnes LUKÁCS, László VECSEI, Michael ULLMAN: Impaired language morphology in Huntington's disease patients

WECOL 2008 – The Thirty-Seventh Annual Western Conference on Linguistics

November 21-23, 2008, Davis, California

Dezsó NEMETH, Cristina DYE, Gabriella GÁRDIÁN, Péter KLIVENYI, Tamás SEFCSIK, Géza AMBRUS, Agnes LUKÁCS, László VECSEI, Zsuzsa LONDE, Michael ULLMAN: Functional morphology in pre-symptomatic Huntington's Disease: Evidence from Hungarian

2009

LSA 2009 - 83rd Annual Conference of the Linguistic Society of America

January 8-11, San Francisco

Németh, D., Dye, C., Gardian, G., Janacsek, K., Sefcsik, T., Klivényi, P., Vécsei, L. & Ullman M. "Could morphological tests provide a diagnostic tool in Huntington's Disease? Evidence from Hungarian."

ICSH – 2009 -9th International Conference on the Structure of Hungarian

August 30 – September 1, 2009, Debrecen, Hungary

Hoffmann, I., Németh, D., Szél, L., Irinyi, T., Pákáski, M., Kálmán, J., "Working memory and phonological short-term memory in Alzheimer's disease"

2010

IBRO 2010 – International Workshop of Neuroscience

January 21-23, 2010, Pecs, Hungary

Janacsek, K., Londe Zs., Ullman, M. T., Howard D. V., Howard, J. H. Jr, Nemeth, D., (2010). One ring does not rule them all - Sleep has no critical role in implicit motor sequence learning in young and old adults

IBRO 2010 – International Workshop of Neuroscience

January 21-23, 2010, Pecs, Hungary

Hallgató, E., Janacsek, K., Sandor, T., Londe Zs., Nemeth, D. (2010). What do we rely on: our hands or our eyes? - Perceptual and motor factors of implicit skill learning

51th Annual Meeting of Psychonomic Society

November 18 – November 21, 2010, St. Louis

Dezsó Nemeth, Karolina Janacsek: Age related changes in implicit learning across human lifespan (sponsored by Alan Baddeley)

2011

III. Dubrovnik Conference on Cognitive Science – DUCOG III., 12-15 May 2011, Dubrovnik, Croatia

Dezsó Nemeth: Development of implicit learning across life-span (Invited Talk)

III. Dubrovnik Conference on Cognitive Science – DUCOG III., 12-15 May 2011, Dubrovnik, Croatia

Janacsek, K., & Nemeth, D. (2011). The time-course of implicit skill consolidation in young and elderly adults.

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Rea, B., Szatlóczki, G., Pákáski, M., Janacsek, K., Kálmán, J., & Németh, D. (2011). Implicit sequence learning and working memory in dementia.

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Gyori-Dani, D., Pekár, J., Janacsek, K., Hallgató, E., & Németh, D. (2011). Effect of consolidation on intermanual transfer in probabilistic and deterministic motor sequence learning.

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July 31-August 06, 2011, York, UK.

Janacsek, K., & Nemeth, D. Well-established skills are resistant to disruption – evidence from a dual-task paradigm.

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2012

IBRO International Workshop 2012,

Szeged, 19-21 January 2012.

Gyori-Dani, D., Pekár, J., Janacsek, K., Hallgató, E., & Nemeth, D. (2012). Effect of consolidation on intermanual transfer in deterministic and probabilistic implicit motor sequence learning.

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Janacsek, K., Fiser J., Nemeth D. (2012). What is The Best Time to Acquire New Skills: Age-related Differences in Implicit Sequence Learning across Life Span.

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Gál Z., Janacsek K., Nemeth D. (2012). Development of the theory of mind from 6 to 30 years of age.

15th International Morphology Meeting

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Janacsek K., Nemeth D., Dye, C. D., Sefcsik T., Turi Z., Londe Z., Klivenyi P., Kincses T. Z., Szabo N. Vecsei L., & Ullman M. T. (2012). Regular and irregular morphology in Pre-Symptomatic Huntington's Disease: Evidence from Hungarian.

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Heilmann Á., Janacsek K., & Nemeth D. (2012). The role of working memory in the processing of transparent and non-transparent compound words in adolescents and young adults.

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Szefalusi N., Prievara D. K., Turi Z., Janacsek K., & Nemeth D. (2012). The online and offline investigation of inflectional morphology in Hungarian.

The University of Texas at Austin 16th Annual Neuroscience Symposium, February 4, Austin, USA.

Polner B., Janacsek K., Kovacs Z. A., & Nemeth D. (2012). Boosting skill learning by hypnosis.

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Nemeth, D., Janacsek, K., Polner, B., & Kovacs, Z. A. (2012). Boosting implicit sequence learning by hypnosis.

Lifespan perspectives on implicit and explicit learning. September 7-8, Brussels, Belgium.

Janacsek, K., Fiser, J., & Nemeth, D. (2012). Age-related differences in implicit sequence learning across life span.

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Dye, C. D., Janacsek, K., & Nemeth, D. (2012). Implicit Sequence Learning In Developmental Dyslexia: New Evidence From A Probabilistic Sequence Learning Task.

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Janacsek, K., & Nemeth, D. (2012). Age-related differences in learning and consolidation of memory traces.

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Nemeth, D. Janacsek, K., Polner, B., & Kovacs, Z. A. (2012). Disengagement of interacting brain systems can boost human learning.

2013

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Saiote, C., Nemeth, D., Janacsek, K., Turi, Zs., Paulus, W., and Antal, A. (2013). Right cathodal transcranial direct current stimulation over the prefrontal cortex improves implicit sequence learning in healthy individuals

XIVth Conference of the Hungarian Neuroscience Society, January 17-19, Budapest, Hungary

Csábi, E., Schultz-Várszegi, M., Janacsek, K., & Nemeth, D. (2013). Disassociating effect of sleep disruption on memory consolidation.

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Janacsek, K., Dye, C. D., & Nemeth, D. (2013). Can Implicit Sequence Learning Be Accounted for Reading Difficulties?

Budapest CEU Conference on Cognitive Development. January 10-12, Budapest, Hungary.

Gál, Z., Janacsek, K., & Nemeth, D. (2013). Cognitive Processes Underlying Children's Social Status.

1st International Conference on Behavioral Addictions, March 11–12, Budapest, Hungary.

Nemeth, D., Horvath, A., Bujdosó, Z., Janacsek, K. (2013). Intact implicit learning and consolidation in patients with chronic alcoholism.

V Dubrovnik Conference on Cognitive Science, May 16-19, Dubrovnik, Croatia.

Janacsek K., Hörömpöli Á., Adonics A. Paulus W., Antal A., Nemeth D. (2013). How can we improve skill learning? Role of sleep and the dorsolateral prefrontal cortex

V Dubrovnik Conference on Cognitive Science, May 16-19, Dubrovnik, Croatia.

Csabi E., Benedek P., Janacsek, K., Katona G., Nemeth, D. (2013). The effect of sleep-disorder on declarative and non-declarative memory consolidation in children

43rd Annual meeting of Society for Neuroscience, 9-13 November, San Diego, USA.

Janacsek, K., Hörömpöli, A., Adonics, A., Paulus, W., Antal, A., & Nemeth, D. (2013). The role of the dorsolateral prefrontal cortex and sleep in the consolidation of sequential memory.

Nemeth, D., Janacsek, K., Király, K., Londe, Z., Németh, K., Fazekas, K., Ádám, I., Király, E., Csányi, A. (2013).

Probabilistic Sequence Learning in Mild Cognitive Impairment: Acquisition, Reactivation, Consolidation.

ESCOPE – 18th Meeting of the European Society for Cognitive Psychology, August 29 – September 1, Budapest, Hungary.

Nemeth, D., Janacsek, K. (2013). How to measure probabilistic sequence learning and its consolidation?

ESCOPE – 18th Meeting of the European Society for Cognitive Psychology, August 29 – September 1, Budapest, Hungary.

Dombi, E., Janacsek, K., & Nemeth, D. (2013). Why is human communication so fluent? Investigation of interactive alignment in dialogues from childhood to late adulthood.

2014

22nd Congress of the European Sleep Research Society, September 16-20, Tallinn, Estonia.

Janacsek, K., Hallgato, E., Pekar, J., Gyori-Dani, D., & Nemeth, D. (2014). No sleep-related enhancement in consolidation of implicit skills.

22nd Congress of the European Sleep Research Society, September 16-20, Tallinn, Estonia.

Csabi, E., Benedek, P., Janacsek, K., Katona, G., & Nemeth, D. (2014). The consolidation of declarative and non-declarative memory in children with sleep disorder breathing.

22nd Congress of the European Sleep Research Society, September 16-20, Tallinn, Estonia.

Nemeth, D., & Janacsek, K. (2014). How to measure sleep-dependent memory consolidation? – Don't forget the within-block position effect.

Putting memory in context: retrieval and learning - A one-day workshop on human memory, May 5, Budapest, Hungary.

Nemeth D. (2014). Implicit learning in Mild Cognitive Impairment.

2nd ESCAN Conference – European Society for Cognitive and Affective Neuroscience, May 7-10, Dortmund, Germany.

Takács, Á., Kóbor, A., Janacsek, K., Honbolygó, F., & Nemeth, D. (2014). Bad enough: High anxiety is associated with attenuated feedback-related negativity in a gambling task.

Janacsek, K., Skultéti, L., Ambrus, G. G., Paulus, W., Antal, A., & Nemeth, D. (2014). Functional hemispheric asymmetry in sequence learning and consolidation. Psychonomic Society's 55th Annual Meeting, 20-23 November, Long Beach, USA.

Nemeth, D., & Janacsek, K. (2014). How to measure memory formation and consolidation? – Don't forget the within-block position effect. Psychonomic Society's 55th Annual Meeting, 20-23 November, Long Beach, USA.

Janacsek, K., Ambrus, G. G., Paulus, W., Antal, A., & Nemeth, D. (2014). The role of the prefrontal cortex in sequential memory formation and consolidation. SfN - 44th Annual meeting of Society for Neuroscience, 15-19 November, Washington DC, USA.

Nemeth, D., Janacsek, K., Polner, B., & Kovacs, Z. A. (2014). Competitive neurocognitive networks underlying sequence learning. SfN - 44th Annual meeting of Society for Neuroscience, 15-19 November, Washington DC, USA.

2015

Nemeth, D., Takács, Á., Kóbor, A., & Janacsek, K. (2015). One-year retention of implicit sequential memory: Evidence from a probabilistic sequence learning task. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.

Nemeth, D., & Janacsek, K. (2015). Competitive brain networks underlying implicit and explicit learning. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.

Janacsek, K., & Nemeth, D. (2015). Non-declarative memory formation and consolidation. *Workshop on Deep Brain Stimulation and Cognitive Functions in Frontostriatal Disorders*, October 22, Budapest, Hungary.

Janacsek, K., Takács, Á., Kóbor, A., & Nemeth, D. (2015). Two faces of trait anxiety: Low vs. high trait anxiety is associated with distinctive implicit sequence learning patterns. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.

Janacsek, K., Ambrus, G. G., Paulus, W., Antal, A., & Nemeth, D. (2015). The role of the prefrontal cortex in statistical learning and its consolidation. *Interdisciplinary Advances in Statistical Learning*, June 25-27, San Sebastian, Spain.

Nemeth, D., & Janacsek, K. (2015). Competitive neurocognitive networks underlying statistical learning. *Interdisciplinary Advances in Statistical Learning*, June 25-27, San Sebastian, Spain.

Borbély-Ipkovich, Janacsek, Nemeth, & Gonda (2015). New neurocognitive endophenotype for major depressive episode: the role of working memory and implicit learning in the acute phase of depression. *ECNP 2015 - The 28th European College of Neuropsychopharmacology Congress*, August 29-September 1, Amsterdam, Netherlands.

Janacsek, K., Ambrus, G. G., Paulus, W., Antal, A., & Nemeth, D. (2015). The role of the prefrontal cortex in implicit probabilistic sequence learning. *4th Seminar on Implicit Learning*, June 5-7, Krakow, Poland.

Nemeth, D., & Janacsek, K. (2015). Negative correlation between executive functions and sequence learning. *4th Seminar on Implicit Learning*, June 5-7, Krakow, Poland.

- Zavecz, Z., Tóth, B., Takács, Á., Kóbor, A., Janacsek, K., & Nemeth, D. (2015). Changes of functional connectivity during implicit sequence learning. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.
- Török, C., Horvath, K., Pesthy, O., Janacsek, K., Antal, A., & Nemeth, D. (2015). The role of the prefrontal cortex in explicit sequence learning and consolidation: Evidence from a transcranial direct current stimulation study. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.
- Horvath, K., Török, C., Janacsek, K., Antal, A., & Nemeth, D. (2015). Hemispheric differences in implicit probabilistic sequence learning: brain stimulation over the left vs. right DLPFC modulates consolidation of sequential memories in interaction with sleep. *ESCOPE – 19th Meeting of the European Society for Cognitive Psychology*, September 17-21, Paphos, Cyprus.
- Török, C., Horvath, K., Janacsek, K., Antal, A., & Nemeth, D. (2015). Enhancing neural excitability of the right vs. left prefrontal cortex differentially affects consolidation of implicit statistical learning. 7th Dubrovnik Conference on Cognitive Science, May 21-23, Dubrovnik, Croatia.
- Takács, Á., Kóbor, A., Janacsek, K., & Nemeth, D. (2015). Two faces of anxiety: Difference in predictive processing. Computational Psychiatry Course, April 28-30, University College London, London, UK.
- Janacsek, K., Horvath, K., Török, C., & Nemeth, D. (2015). Brain stimulation over the dorsolateral prefrontal cortex triggers sleep-dependent memory consolidation. 3rd International Congress on Sleep and Breathing, 16-18 April, Barcelona, Spain.
- Janacsek, K., Csábi, E., Benedek, P., Katona, G., & Nemeth, D. (2015). Declarative and non-declarative memory consolidation in children with sleep disorder breathing. 3rd International Congress on Sleep and Breathing, 16-18 April, Barcelona, Spain.
- Virág, M., Janacsek, K., Fabó, D., & Nemeth, D. (2015). Competition between frontal lobe functions and implicit sequence learning – evidence from the long-term effects of alcohol-dependency. 15th Biannual Conference of the Hungarian Neuroscience Society, 22-23 January, Budapest, Hungary.

2016

- Takács, Á., Kóbor, A., Janacsek, K., Yuval, S., Chezán, J., Éltető, N., Tárnok, Zs., Tremblay, A., Ullman, M. T. & Nemeth, D. (2016). Enhanced procedural memory in Tourette-syndrome. *Budapest CEU Conference on Cognitive Development*, 6-8 January, Budapest, Hungary.
- Takacs, A., Kóbor, A., Kardos, Z., Janacsek, K., & Nemeth, D. (2016). The role of statistical learning in a probabilistic gambling task: Strategies and the beginner's luck. *14th Annual meeting of Society of Neuroeconomics*, 28-30 August, 2016, Berlin, Germany.
- Kóbor, A., Takacs, A., Kardos, Z., Janacsek, K., Tóth, B., Török, C., Zavecz, Z., Molnar, M., & Nemeth, D. (2016). Statistical learning is reflected in event-related brain potentials (ERPs). *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Takács, Á., Kóbor, A., Janacsek, K., Yuval, S., Chezán, J., Éltető, N., Tárnok, Zs., Tremblay, A., Ullman, M. T. & Nemeth, D. (2016). Probabilistic sequence learning in Tourette-syndrome. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Tóth, B., Zavecz, Z., Takács, A., Kóbor, A., Janacsek, K., & Nemeth, D. (2016). Neural oscillatory functional connectivity associated with statistical learning. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Csabi, E., Benedek, P., Janacsek, K., Zavecz, Z., Katona, G., & Nemeth, D. (2016). Sleep-dependent memory consolidation in children with sleep-disorders. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.

- Kóbor, A., Takacs, A., Janacsek, K., Kardos, Z., Tóth, B., Török, C., Zavecz, Z., Molnar, M., & Nemeth, D. (2016). ERP Correlates of Implicit Probabilistic Sequence Learning. *ESCAN 3rd Conference*, 23-26 June, Porto, Portugal.
- Takacs, A., Kóbor, A., Janacsek, K., Honbolygó, F., Kardos, Z., & Nemeth, D. (2016). Controlled and Automatic Functions in Risk-Taking Behavior. *ESCAN 3rd Conference*, 23-26 June, Porto, Portugal.
- Takács, A., Kóbor, A., Kardos, Z., Janacsek, K., & Nemeth, D. (2016). The role of statistical learning in a probabilistic gambling task: Strategies and the beginner's luck. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Zavecz, Z., Horvath, K., Pesthy, O., Éltető, N., Janacsek, K., & Nemeth, D. (2016). The effect of transcranial Alternating Current Stimulation on probabilistic learning. *6th International Conference on Transcranial Brain Stimulation*, 7-10 September 2016, Göttingen, Germany.
- Szegedi-Hallgató, E., Janacsek, K., Bálint, A., Hompoth, E., Kerepes, L., Tasi, L., Vékony, T., & Németh, D. (2016). Changing our automatisms: the effect of implicit and explicit processes. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Török, B., Janacsek, K., Nagy, D., Orbán, G., & Nemeth, D. (2016). Non-stimulus dependent factors are essential when predicting reaction times in an implicit learning task. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Török, B., Janacsek, K., Orbán, G., & Nemeth, D. (2016). The length of the within- and between-session breaks differentially affects decline in reaction time performance in a visuo-perceptual learning task. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Juhász, D., Janacsek, K., & Nemeth, D. (2016). Age-related Differences in Consolidation of Implicit Sequential Memories across Human Life Span. *Budapest CEU Conference on Cognitive Development*, 5-7 January, Budapest, Hungary.
- Éltető, N., Janacsek, K., Kóbor, A., Takács, A., & Nemeth, D. (2016). Do adolescents take more risks? It might depend on the development of intuitive abilities. *Budapest CEU Conference on Cognitive Development*, 6-8 January, Budapest, Hungary.
- Pesthy, O., Horvath, K., Török, C., Török, B., Janacsek, K., & Nemeth, D. (2016). Anodal transcranial direct current stimulation of the left dorsolateral prefrontal cortex disrupts procedural learning – evidence from a probabilistic sequence learning task. *6th International Conference on Transcranial Brain Stimulation*, 7-10 September 2016, Göttingen, Germany.
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- Trimborn, A., Ambrus, G. G., Janacsek, K., Kovacs, G., & Nemeth, D. (2016). The effects of bilateral TMS on probabilistic sequence learning. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.

- Pesthy, O., Horváth, K., Török, C., Török, B., Janacsek, K., & Nemeth, D. (2016). Anodal stimulation of the left dorsolateral prefrontal cortex disrupts statistical learning. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
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- Gattyán, N., Janacsek, K., Varga, B., Miháltz, M., & Nemeth, D. (2016). Structural characteristics of individual language usage is stable over one year but differs over topics. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Podina, I., Dobrotka, K., Janacsek, K., & Nemeth, D. (2016). The effect of similarity in personality traits on implicit learning. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Dobrotka, K., Podina, I., Janacsek, K., & Nemeth, D. (2016). The effect of social context on implicit learning and its consolidation. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
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- Horváth, K., Török, C., Török, B., Pesthy, O., Janacsek, K., & Nemeth, D. (2016). Differential consolidation mechanisms are involved in declarative vs. non-declarative form of probabilistic sequence learning. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Zavecz, Z., Tóth, B., Takács, A., Kóbor, A., Janacsek, K., & Nemeth, D. (2016). Weaker functional connectivity between frontal and posterior regions is associated with better statistical learning. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Dobrotka, K., Podina, I., Janacsek, K., & Nemeth, D. (2016). Implicit learning in social context. *Budapest CEU Conference on Cognitive Development*, 5-7 January, Budapest, Hungary.
- Éltető, N., Janacsek, K., Kóbor, A., Takács, A., & Nemeth, D. (2016). The relationship between implicit learning and risky decision making: A developmental perspective. *Budapest CEU Conference on Cognitive Development*, 5-7 January, Budapest, Hungary.
- Janacsek, K., Juhász, D., & Nemeth, D. (2016). Age-related differences in the consolidation of implicit statistical memory across human life span. *46th Annual meeting of Society for Neuroscience*, 12-16 November, San Diego, USA.
- Janacsek, K., Borbely-Ipkovich, E., Gonda, X., & Nemeth, D. (2016). Implicit sequence learning in patients with major depressive episode. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Nemeth, D., & Janacsek, K. (2016). Less is more: weaker prefrontal cortex leads to better implicit decision making. *14th Annual meeting of Society of Neuroeconomics*, 28-30 August, 2016, Berlin, Germany.
- Nemeth, D., & Janacsek, K. (2016). Competitive neurocognitive networks underlying implicit statistical learning. *6th International Conference on Memory - ICOM*, 17-22 July 2016, Budapest, Hungary.
- Janacsek, K., Kóbor, A., Takacs, A., & Nemeth, D. (2016). One-year retention of implicit sequential memory. *Fifth Implicit Learning Seminar*, 23-25 June 2016, Lancaster, UK.

- Nemeth, D., Tóth, B., Takacs, A., Zavecz, Z., Kóbor, A., & Janacsek, K. (2016). Competitive networks underlying implicit learning: Evidence from a functional connectivity study. *Fifth Implicit Learning Seminar*, 23-25 June 2016, Lancaster, UK.
- Janacsek, K., Juhász, D., & Nemeth, D. (2016). Age-related differences in consolidation of implicit sequence knowledge across human life span. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Nemeth, D., Kóbor, A., Takács, A., & Janacsek, K. (2016). Long-term retention of implicit statistical learning - Evidence for one-year consolidation. *International Meeting of the Psychonomic Society*, 5-8 May, Granada, Spain.
- Nemeth, D., & Janacsek, K. (2016). Learning and memory in Mild Cognitive Impairment. *Cognitive Aging Conference*, 14-17 April, Atlanta, USA.
- Janacsek, K., Juhász, D., & Nemeth, D. (2016). Consolidation of implicit skills across human life span. *Cognitive Aging Conference*, 14-17 April, Atlanta, USA.
- Nemeth, D., Kóbor, A., Takács, A., & Janacsek, K. (2016). Long-term retention of implicit statistical learning - Evidence for one-year consolidation. *Cognitive Neuroscience Society Annual Meeting*, 2-5 April, New York, USA.
- Janacsek, K., Juhász, D., & Nemeth, D. (2016). Age-related differences in the retention of implicit sequence knowledge across human life span. *Cognitive Neuroscience Society Annual Meeting*, 2-5 April, New York, USA.
- Nemeth, D., Horvath, K., Török, C., Pesthy, O., Török, B., Antal, A., & Janacsek, K. (2016). Right hemisphere advantage in implicit learning and memory: Evidence from transcranial Direct Current Stimulation. *IBRO Workshop 2016*, 20-21 January, Budapest, Hungary

PAPERS PRESENTED AT HUNGARIAN CONFERENCES

1999-2004

National Scientific Conference of Students

April, 1999 Békéscsaba - Runner-Up

Nemeth, D.: "Script effects in self-paced reading task"

MAKOG VIII - VIII. Conference of Hungarian Cognitive Science Association

February 4-6, 2000, Szeged

Nemeth, D.: "Working memory and sentence comprehension: processing garden-path sentences in Hungarian."

XIV. National Conference of Hungarian Psychological Association

May 30 – June 2., 2000, Budapest

Nemeth, D., Racsmany, M., Konya A., Pleh Cs.: "Working memory capacity tasks and their role in neuropsychological diagnosis."

MAKOG IX. – XI. Conference of Hungarian Cognitive Science Association

February 1-3, 2001, Visegrad

Polonyi, T. and Nemeth, D.: "Individual differences in bilinguals' code-switching"

I. Interdisciplinary Forum of Language Pathology

March 9., 2001, Research Institute for Linguistics Hungarian Academy of Sciences, Budapest

Nemeth, D.: "The role of working memory in sentence processing."

XV. National Conference of Hungarian Psychological Association

May 30 – June 2., 2002, Szeged

Nemeth, D.: "When need working memory to language comprehension?"

XVI. National Conference of Hungarian Psychological Association

May 27 – May 29, 2004, Debrecen

Nemeth D., Gonci D., Aczel B., Haden G., Orosz G., Ambrus G.: „Mental grammar and implicit learning”

- XVI. National Conference of Hungarian Psychological Association
 May 27 – May 29, 2004, Debrecen
 Ivady R. E., Nemeth D., Mihaltz M., Pleh Cs.: „Phonological loop and morphological complexity”
- XVI. National Conference of Hungarian Psychological Association
 May 27 – May 29, 2004, Debrecen
 Gonci D., Aczel B., Nemeth D.: „Implicit learning: explicit-implicit dissociation and methodological review”
- Hungarian National Academy of Sciences – “Language structures and the brain”
 November 16, 2004, Budapest
 Nemeth, D.: “The relationship between language systems and memory structures”
- 2005**
- XII. Congress of Hungarian Psychiatric Association
 26-29 January 2005. Budapest
 Hoffmann I., Németh D., Kálmán J.: The temporal features of speech in Alzheimer’s disease – towards a new possibility of diagnostic tool
- MAKOG XIII. – XIII. Conference of Hungarian Cognitive Science Association
 31. January – 2. February 2005. Debrecen
 Németh D., Gönci D., Aczél B., Háden G., Orosz G., Ambrus G. G.: Sentence processing and implicit learning
- IX. Hungarian Alzheimer’s disease conference
 21-23 September 2005, Kecskemét
 Hoffmann I., Németh D., Kálmán J.: The temporal analysis of spontaneous speech – the early diagnosis of Alzheimer’s disease
- Speech Research Conference 2005. - Research Institute for Linguistics
 2005. 10 -11 October, Budapest
 Hoffmann I., Németh D., Kálmán J.: The temporal analysis of spontaneous speech in Alzheimer’s disease
- 2006**
- Congress of Hungarian Psychiatric Association
 1-4 February 2006. Budapest
 Hoffmann I., Németh D., Pákáski M., Kálmán J.: The language analysis of Alzheimer’s disease and aphasia. A comparison.
- Congress of Hungarian Parkinson’s disease Association
 19-20 May 2006. Budapest
 Sefcsik T., Németh D., Háden G., Hoffmann I., Klivényi P., Vécsei L.: Cognitive functions in Spinocerebellar Ataxia type 2
- XVII. National Conference of Hungarian Psychological Association
 May 25 – 29, 2006, Budapest
 Németh D., Sefcsik T., Hoffmann I., Gönci D., Aczél B., Háden G., Ambrus G. G.: Declarative and non-declarative language processes
- XVII. National Conference of Hungarian Psychological Association
 May 25 – 29, 2006, Budapest
 Lukács Á., Krajcsi A., Németh D.: Implicit learning and Specific Language Impairment
- XVII. National Conference of Hungarian Psychological Association
 May 25 – 29, 2006, Budapest
 Csupor É., Kothencz Zs., Németh D.: Verbal working memory and sentence comprehension
- XVII. National Conference of Hungarian Psychological Association
 May 25 – 29, 2006, Budapest
 Janacsek K., Mészáros T., Tánzos T., Németh D.: The Hungarian version of listening span test
- XVII. National Conference of Hungarian Psychological Association
 May 25 – 29, 2006, Budapest
 Mészáros A., Kónya A., Németh D.: Semantic and letter fluency in dyslexia

X. Hungarian Alzheimer's disease conference

20-22 September 2006, Szeged

Németh D.: The relationship between language and memory – Neuropsychology and Diagnostic

2007

XV. MAKOG - XV. Conference of Hungarian Cognitive Science Association

19-21 January 2007, Eger

Nemeth, D., Klivenyi, P., Gardian, G., Sefcsik, T., Haden, G., Hoffmann, I., Vecsei, L.: The cognitive neuropsychology of striatum and cerebellum

Annual Congress of Hungarian Psychiatric Association

24-27 January, 2007, Miskolc

Janacsek K., Mészáros T., Tánczos T., Hoffmann, I., Németh D.: The neuropsychological diagnostic of working memory: the Hungarian version of listening span task

2009

XVIIIth Hungarian Congress of Neuroradiology,

Siófok, 5-7 November 2009.

Kincses Zs. T., Szabó N., Rokszin A., Posta P., Király A., Babos M., Kis D., Németh D., Janacsek K., Barzó P., Vörös E. & Vécsei L. (2009). White matter in DTI: research and clinical implications.

MAKOG XVII – XVIIth Conference of Hungarian Cognitive Science Association.

Budapest, 7-9 May 2009.

Janacsek, K., Vizi, I. & Németh, D. (2009). Implicit learning and consolidation in old age.

MAKOG XVII – XVIIth Conference of Hungarian Cognitive Science Association.

Budapest, 7-9 May 2009.

Hallgató, E., Janacsek, K., Sándor, T. & Németh, D. (2009). General mechanisms of implicit sequence learning.

Congress of Hungarian Psychiatric Association.

Debrecen, 28-31 January 2009.

Janacsek, K., Vizi, I. & Németh, D. (2009). The effect of aging on implicit skill learning.

Congress of Hungarian Psychiatric Association.

Debrecen, 28-31 January 2009.

Janacsek, K., Ujvári K., Fekete R., Gyüre T., Filep O. & Németh D. (2009). Neuropsychology of working memory: Hungarian test battery.

2010

Congress of Hungarian Psychiatric Association.

Budapest, 27-30 January 2010.

Balogh V., Janacsek K., Fazekas M., Jámbori Sz., Dányi I., Vetró Á. & Németh D. (2010). Implicit learning and consolidation in autism.

Congress of Hungarian Psychiatric Association.

Budapest, 27-30 January 2010.

Janacsek K., Sefcsik T., Kincses T. Zs., Hoffmann I., Klivenyi P., Vécsei L. & Németh D. (2010). The role of subcortical structures in memory and learning functions.

Congress of Hungarian Psychiatric Association.

Budapest, 27-30 January 2010.

Németh D., Király K., Janacsek K., Németh K., Fazekas K., Ádám I., Király E., Csányi A. & Sefcsik T. (2010). Implicit learning in Mild Cognitive Impairment.

Congress of Hungarian Psychiatric Association.

Budapest, 27-30 January 2010.

Turi Zs., Sefcsik T., Kincses T. Zs., Janacsek K., Lukács Á., Gárdián G., Klivenyi P., Vécsei L. & Németh D. (2010). Can help a language test in the diagnosis of Huntington's dementia?

MAKOG XVIII – XVIIIth Conference of Hungarian Cognitive Science Association.

Budapest, 24-25 January 2010.

Hallgató E., Janacsek K., Sándor T., Győri-Dani D., Pekár J. & Németh D. (2010). Differential effect of sleep on perceptual and motor factors of implicit learning.

MAKOG XVIII – XVIIIth Conference of Hungarian Cognitive Science Association.

Budapest, 24-25 January 2010.

Németh D. & Janacsek K. (2010). Implicit learning – consolidation, development and disorders.

XIXth National Conference of Hungarian Psychological Association. 27-29 May 2010, Pecs.

Németh, D. & Janacsek, K. (2010). Implicit learning and consolidation.

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Turi, Zs., Sefcsik, T., Kincses, T., Janacsek, K., Lukács, Á., Gárdián, Gg, Klivényi, P., Vécsei, L., & Németh, D. (2010). The role of the PPL language test in Huntington's dementia.

XIXth National Conference of Hungarian Psychological Association. 27-29 May 2010, Pecs.

Hallgató, E., Janacsek, K., Sándor, T., Győri-Dani, D., Pekár, J., & Németh, D. (2010). The effect of 12-hour delay on perceptual and motor factors of implicit learning.

2011

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Csábi E., Janacsek K., Várszegi M., & Németh D. (2011). Implicit learning in sleep apnea.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Janacsek K., & Németh D. (2011). Consolidation and age-related changes in implicit learning.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Hallgató E., Győri-Dani D., Pekár J., Janacsek K., & Németh D. (2011). Perceptual and motor factors of implicit learning and consolidation.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Polner B., Janacsek K., Kovács Z. A., & Németh D. (2011). Does hypnosis improve implicit learning?

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Rea B., Szatlóczki G., Pákáski M., Janacsek K., Kálmán J., & Németh D. (2011). Working memory and implicit learning in Mild Cognitive Impairment and healthy controls.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Balogh V., Németh D., & Janacsek K. (2011). Cognitive functions in autism.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Turi Zs., Janacsek K., & Németh D. (2011). Processing of lexical ambiguity – the role of word frequency, context and working memory.

XXXth National Conference of Hungarian Psychological Association.

Budapest, 25-27 May 2011.

Szépfolusi N., Prievara D. K., Janacsek K., Turi Zs., & Németh D. (2011). Online and offline processing of regular and irregular nouns.

Congress of Hungarian Psychiatric Association.

Sopron, 26-29 January 2011.

Polner, B., Janacsek, K., Kovács, Z. A., Németh D. (2011). The effect of hypnosis on implicit learning.

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Sopron, 26-29 January 2011.

Szatlóczki, G., Rea, B., Janacsek, K., Pákáski, M., Kálmán, J., & Németh, D. (2011). Working memory and implicit learning in old age.

Congress of Hungarian Psychiatric Association.

Sopron, 26-29 January 2011.

Balogh V., Janacsek K., Dányi I., Vetró Á., Németh D., & Chezan, J. (2011). Implicit and explicit learning in autism.

Congress of Hungarian Psychiatric Association.

Sopron, 26-29 January 2011.

Turi, Zs., Sefcsik, T., Németh, K., Dye, C. D., Csibri, P., Janacsek, K., Vörös, E., Vécsei, L., Sztriha, L., & Németh, D. (2011). The role of language tests in carotid stenosis and Huntington's Disease.

MAKOG XIX – 19th Conference of Hungarian Cognitive Science Association. 27-29 January 2011, Kaposvár, Hungary

Szépfalusi, N., Prievara, D. K., Janacsek, K., Turi, Zs., & Németh, D. (2011). Psycholinguistics of Hungarian suffixation.

2012

Janacsek, K., & Nemeth, D. (2012). Life-long development of implicit learning and its connection to developmental disorders. *IVth Neuropsychology Days*. 11 October 2012, Budapest.

Gál, Z., Janacsek, K., & Nemeth, D. (2012). The relationship between social skills and implicit learning. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Hallgató, E., Polner, B., Németh, R., Janacsek, K., & Nemeth, D. (2012). The background of rewiring the automatic skills and the effect hypnosis. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Györi-Dani, D., Pekár, J., Janacsek, K., Hallgató, E., & Nemeth, D. (2012). The effect of consolidation on the intermanual transfer of deterministic and probabilistic sequences. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Csábi, E., Várszegi-Schulz, M., Janacsek, K., & Nemeth, D. (2012). The differential effect of sleep on general skill and sequence-specific learning in obstructive sleep apnea. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Heilmann, Á., Janacsek, K., & Nemeth, D. (2012). Processing of compound words in different age groups. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Juhász, D., Janacsek, K., & Nemeth, D. (2012). The effect of different dual task conditions on implicit sequence learning. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

Volosin, M., Nemeth, D., & Janacsek, K. (2012). Exploring age-related dementia with the Mini-Mental State Examination and the Montreal Cognitive Assessment tests. *XXXIth National Conference of Hungarian Psychological Association*. 30 May – 1 June 2012, Szombathely.

2013

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