

PERSONAL INFORMATION

# Karel Jezek



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Sex Male | Date of birth 01/05/1973 Nationality Czech Republic

WORK EXPERIENCE

- 2014 - present pres. Biomedical centre, Fac. Med., Charles Univ., Pilsen, CZ – lab head
- 2012 - 2013 Centre for Neural Computation, NTNU, Trondheim, NO - researcher
- 2010 - 2011 Dpt. Neurophys. of Memory, ASCR, Prague, CZ - researcher
- 2005 - 2010 Centre for the Biology of Memory, NTNU, Trondheim, NO - post-doc
- 2002 Dpt. Physiol. and Pharmacol., Downst. Med. C., SUNY, NY, USA - visiting scientist
- 1999 - 2005 Dpt. Neurophys. Of Memory, ASCR, Prague, CZ - PhD student, post-doc
- 1998 - 1999 Dpt. Physiol. Psychol., H. Heine Univ., Duesseldorf, D - visiting scientist
- 1997 - 2003 Dpt. Pathophysiol., Fac. Med., Charles Univ., Pilsen, CZ – PhD student

EDUCATION AND TRAINING

- 26/11/2003 PhD, Faculty of Medicine, Charles University, Pilsen
- 20/06/1997 MD, Faculty of Medicine, Charles University, Pilsen

PERSONAL SKILLS

Mother tongue(s) Czech

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2

ADDITIONAL INFORMATION

Presentations

**Invited talks since 2009:**

- CAJAL Course in Computational Neuroscience, lecturer, Lisbon, Portugal, 2016
- Neuropsychiatric Disorders- From Basic Systems to Clinical Applications, Prague, Czech, 2016
- École de technologie supérieure, Paris, France, 2016
- Symposium on Cognition, Communication, semantics, and Logic. plenary talk, Riga, Lithuania, 2014
- Art as Embodied Cognition Symposium, Oslo, Norway, 2014

'DOCUMENTA-12', keynote speaker, Kassel, Germany, 2012

'Imaging the Brain' Symposium, keynote speaker, Umeå, Sweden, 2012

CNRS-Université de Provence, Marseille, France, 2012

University of Arizona, Tucson, USA, 2012

Friedrich Miescher Institute, Basel, Swiss, 2011

CEITEC, Brno, Czech Republic, 2011

International Brain Research Organization (IBRO), Florence, Italy, 2011

European Brain and Behavior Society (EBBS). Sevilla, Spain, 2011

University of Arizona, Tucson, USA, 2011

Neuro-Scientific Colloquium, Charite, Berlin, Germany 2010

International Pharmacology-EEG Society Biennial meeting, Prague, Czech Republic, 2010

Spring Hippocampal Research Conference, Verona, Italy, 2009

SISSA- Cognitive Neuroscience Dpt., Trieste, Italy, 2009

## Publications

Selected publications:

1. Posani, L, Cocco, S, Jezek, K, Monasson, R. Functional connectivity models for decoding of spatial representations from hippocampal CA1 recordings. **J. Comp. Neurosci**: 43-1, 17-33. 2017
2. Mark, S, Romani, S, Jezek, K, Tsodyks, M. Theta-paced flickering between place-cell maps in the hippocampus: A model based on short-term synaptic plasticity. **Hippocampus**: 27-9, 959-970. 2017
3. Alme CB, Miao C, Jezek K, Treves A, Moser EI, Moser MB. Place Cells In The Hippocampus: Eleven Maps For Eleven Rooms. **PNAS**, 2014. 111 (52):18428-18435. If=9.8
4. Rose T, Schoenenberger P, Jezek K, Oertner TG. Developmental Refinement Of Vesicle Cycling At Schaffer Collateral Synapses. *Neuron*, 2013. 77 (6):1109-1121. If=15.7
5. Jezek K, Henriksen Ej, Treves A, Moser EI, Moser MB. Theta-Paced Flickering Between Place-Cell
6. Maps In The Hippocampus. **Nature**, 2011. Sep 28;478(7368):246-9. If=35.2
7. Stella F, Cerasti E, Bailu Si, Jezek K, Treves A. Self-Organization Of Multiple Spatial And Context Memories In The Hippocampus. **Neurosci & Biobehavior Rev**. 2012. 36(7):1609-25, If=10.2
8. Jezek K, Lee B, Kelemen E, Mccarthy K, Mcewen BS, Fenton AA. Stress-Induced Out-Of-Context. Activation Of Memory. **PLoS Biology**, 2010. 8(12): E1000570-13. If=14.4
9. Colgin LL, Leutgeb S, Jezek K, Leutgeb JK, Moser EI, Mcnaughton BL, Moser MB. Attractor-Map. Versus Autoassociation Based Attractor Dynamics In The Hippocampal Network. **J Neurophysiol**. 2010. Jul;104(1):35-50. If=3.7
10. Vafaei AA, Jezek K, Bureš J, Fenton AA, Rashidy-Pour. Post-training reversible inactivation of the rat's basolateral amygdala interferes with hippocampus-dependent place

- avoidance memory in a time-dependent manner **Neurobiol Learn Mem.** 2007 Jul;88(1):87-93.
11. Jezek K, Schulz D, De Souza Silva MA, Müller H-W, Huston JP and Hasenöhrl RU. Effects of chronic intraventricular infusion of heparin glycosaminoglycan on learning and brain acetylcholine parameters in aged rats. **Behav Brain Res.** 2003 Dec 17;147(1-2):115-123.
  12. M.A. De Souza Silva, K. Jezek, K. Weth, H.W. Müller, J.P. Huston, M.L. Brandao and R.U. Hasenöhrl. Facilitation of learning and modulation of frontal cortex acetylcholine by ventral pallidal injection of heparin glucosaminoglycan. **Neuroscience.** 2002 Sep 2;113(3):529-535.
  13. Schulz D, Huston JP, Jezek K, Haas HL, Roth-Harer A, Selbach O, Luhmann HJ. Water maze performance, exploratory activity, inhibitory avoidance and hippocampal plasticity in aged superior and inferior learners. **Eur J Neurosci.** 2002 Dec;16(11):2175-2185.