



**Katedry biochémie a genetiky
Přírodovědeckej fakulty UK
v spolupráci s občianskym združením Natura**

Vás pozývajú na **66.** prednášku v rámci Kuželových seminárov:

Dr. Ľubica Beňušková

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Ako sa mozog učí: úloha génov

ktorá sa uskutoční

15.1. 2008 (utorok) o 13:00

**V PREZENTAČNOM CENTRE J.A. KOMENSKÉHO (u Amosa)
PRÍRODOVEDECKEJ FAKULTY UK (B1 – 313)**

<http://www.fns.uniba.sk/~kbi/kuzela/>



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Short CV:

- 2007-Present: Lecturer at the Department of Computer Science, University of Otago, Dunedin, New Zealand
2003-2007: Research Fellow at the Knowledge Engineering and Discovery Research Institute, Auckland
University of Technology, Auckland, New Zealand.
2002: University of Vienna
2001-Present: Associate Professor at the Faculty of Mathematics, Physics and Informatics, Comenius University,
Bratislava
1994-2003: Lecturer at the Faculty of Electrical Engineering and Information Technology, Slovak Technical
University, Bratislava
1991-1993: Graduate student at the Vanderbilt University, Nashville, TN, USA
1989-1993: PhD student at the Comenius University, Bratislava
1988-1994: Research Fellow at the Institute of Animal Biochemistry and Genetics, Slovak Academy of Sciences,
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1982-1988: Research Assistant at the Department of Psychiatry, Faculty Hospital, Bratislava

Selected recent publications:

1. Kasabov N, Jain V, Beňušková Ľ (2008) Integrating evolving brain-gene ontology and connectionist-based system for modeling and knowledge discovery. *Neural Networks (in press)*.
2. Kasabov N, Jain V, Beňušková Ľ, Gottgroy PCM, Joseph F (2008) Integration of Brain-Gene Ontology and Simulation Systems for Learning, Modelling and Discovery. *In: Computational Intelligence in Medical Informatics*. A. Kelemen, A. Abraham, Y. Liang (eds) Series: Studies in Computational Intelligence, vol. 85, Springer [ISBN 978-3-540-75766-5] (in press).
3. Beňušková Ľ, Kasabov N (2007) *Computational Neurogenetic Modeling*. Springer, New York. [ISBN 978-0-387-48353-5].
4. Beňušková Ľ (2007) Neurovedné okno do vedomia. *In: Mysel', inteligencia a život*. Kvasnička V, Trebatický P, Pospíchal J, Kelemen J (eds), Vydavateľstvo STU, Bratislava, pp. 145-156. [ISBN 978-80-227-2643-6].
5. Abraham WC, Logan B, Wolff A, Beňušková Ľ (2007) "Heterosynaptic" LTD in the dentate gyrus of anesthetized rat requires homosynaptic activity. *Journal of Neurophysiology* **98**: 1048-1051.
6. Beňušková Ľ, Abraham WC (2007) STDP rule endowed with the BCM sliding threshold accounts for hippocampal heterosynaptic plasticity. *Journal of Comp. Neurosci.* **22**: 129-133.
7. Beňušková Ľ, Kasabov N (2007) Modeling L-LTP based on changes in concentration of pCREB transcription factor. *Neurocomputing* **70**: 2035-2040.
8. Čerňanský M, Makula M, Beňušková Ľ (2007) Organization of the state space of a simple recurrent neural network before and after training on recursive linguistic structures. *Neural Networks* **20**: 236-244.
9. Kasabov N, Jain V, Gottgroy PCM, Beňušková Ľ, Joseph F (2007) Brain gene ontology and simulation system (BGOS) for a better understanding of the brain. *Cybernetics and Systems* **38**: 495-508.
10. Beňušková Ľ, Jain V, Wysoski SG, Kasabov N (2006) Computational neurogenetic modeling: a pathway to new discoveries in genetic neuroscience. *Intl. Journal of Neural Systems* **16**: 215-227.