

## York Winter

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### Curriculum vitae

- 2009 Professor (W3), Cognitive Neurobiology, Humboldt-Universität zu Berlin
- 2006 – 2009 Professor (W3), Cognitive Neuroscience, Faculty of Biology, University of Bielefeld
- 2000 – 2006 Assistant Professor, Biology Department, Munich University  
Group leader, junior research group “Ecological Neurobiology” (funded by Volkswagen Foundation)
- 1999 Habilitation, University of Erlangen
- 1993 – 1999 Postdoctoral position (C1), Institute of Zoology, University of Erlangen (group Prof. von Helversen)
- 1993 Doctoral degree (Advisor Prof. Dr. O. von Helversen), University of Erlangen  
(Studienstiftung des deutschen Volkes, Advisor Prof. Dr. O. von Helversen)
- 1987 Master of Science, University of Minnesota (Fulbright Scholarship and Studienstiftung des deutschen Volkes)

### Research fields

- Animal cognition
- Reward-based decision making
- Ecological neurobiology
- Animal models for neurology and psychiatry
- Automation technology for behavior research

## **Selected publications**

Schaefers, AT and Winter, Y. Rapid task acquisition of spatial-delayed alternation in an automated T-maze by mice. *Behav Brain Res.* 2011; 225, 56-62.

Schaefers, AT, Grafen, K, Teuchert-Noodt, G and Winter, Y, Synaptic remodeling in the dentate gyrus, CA3, CA1, subiculum, and entorhinal cortex of mice: effects of deprived rearing and voluntary running. *Neural Plast.* 2010; 870573.

Neufeld, J, Teuchert-Noodt, G, Grafen, K, Winter, Y and Witte, AV. Synapse plasticity in motor, sensory, and limbo-prefrontal cortex areas as measured by degrading axon terminals in an environment model of gerbils (*Meriones unguiculatus*). *Neural Plast.* 2009; 281561.

Toelch, U and Winter, Y. Psychometric function for nectar volume perception of a flower-visiting bat. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol.* 2007; 193, 265-9.

Hedenstrom, A, Johansson, LC, Wolf, M, von Busse, R, Winter, Y and Spedding, GR. Bat flight generates complex aerodynamic tracks. *Science.* 2007; 316, 894-7.

Amrein, I, Dechmann, DK, Winter, Y and Lipp, HP. Absent or low rate of adult neurogenesis in the hippocampus of bats (Chiroptera). *PLoS One.* 2007; 2, e455.

Stich, KP and Winter, Y. Lack of generalization of object discrimination between spatial contexts by a bat. *J Exp Biol.* 2006; 209, 4802-8.

Thiele, H, Winter, Y. Hierarchical strategy for relocation of food targets in flower bats: spatial memory versus cue-directed search. *Animal Behaviour,* 2005; 69: 315-327.

Winter, Y and Stich, KP. Foraging in a complex naturalistic environment: capacity of spatial working memory in flower bats. *J Exp Biol.* 2005; 208, 539-48.

Winter, Y, Lopez, J and Von Helversen, O. Ultraviolet vision in a bat. *Nature.* 2003; 425, 612-4.