

**KATHARINA HENKE WESTERHOLT, PH.D.****JULY 2018****PERSONAL DATA**

Citizenship: Switzerland  
 Work address: Institute of Psychology, University of Bern,  
 Fabrikstrasse 8, 3012 Bern, Switzerland  
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**EDUCATION**

Habilitation Philosophical Faculty, University of Zurich, Venia Legendi in Psychology, 2005  
 Dr. rer. soc. (Ph.D.) University of Konstanz, Germany, 1992 (Experimental Psychology, Cognitive Neuroscience)  
 Lic. Phil. (Master's degree) University of Bern, Switzerland, 1988  
 (Clinical Psychology, Experimental Psychology, and Psychopathology)

**ACADEMIC APPOINTMENTS**

2008 - Professor of Experimental Psychology and Neuropsychology, University of Bern, Switzerland  
 2011-2015 Founding director of the Center for Cognition, Learning and Memory (CCLM), University of Bern, Switzerland  
 2005-2008 Assistant Professor Tenure Track of Experimental Psychology and Neuropsychology, University of Bern, Switzerland  
 2005 Lecturer (Privatdozentin) University of Zurich, Switzerland  
 1999 -2005 Research Group Leader "Neuropsychology and Imaging" and Head of Clinical Neuropsychology, Division of Psychiatry Research, University of Zurich, Switzerland.  
 1997-99 Postdoctoral Research Fellow at the Dept. of Neurology and the Dept. of Radiology (PET Center), University Hospital Zurich, Switzerland.  
 1995-97 Postdoctoral Research Fellow at the Laboratory of M. S. Gazzaniga, Center for Neuroscience, University of California, Davis, USA.  
 1991-95 Clinical Neuropsychologist and Postdoctoral Research Fellow at the Neuropsychology Unit headed by T. Landis and M. Regard, Dept. of Neurology, University Hospital Zurich, Switzerland.

1988-91 Ph.D. Student, Advisor: H.J. Markowitsch, University of Bochum and University of Konstanz, Germany.

## GRANTS, AWARDS, FELLOWSHIPS

- March 2018 – March 2022 Interfaculty Research Cooperation ‘Decoding Sleep: From Neurons to Health & Mind’, Project II. 1- Learning during sleep enhances wake-learning, PI: K. Henke.
- March 2016 – March 2018 Research support by the Gottfried und Julia Bangerter-Rhyner Foundation. PI: K. Henke.
- Sept. 2012 - Sept. 2018 Research support by the Center for Cognition, Learning and Memory, a Strategic Research Center of the University of Bern, Switzerland. PI: K. Henke.
- May 2008 – April 2014 Research Grant by the Swiss National Science Foundation K-13K1-119953/1 “Does slow wave sleep strengthen the memory traces of both consciously and nonconsciously encoded episodes?” PI: K. Henke.
- Nov. 2006 – April 2012 Research Grant by the Swiss National Science Foundation 320000-114012/1 “Hippocampus mediates unconscious learning, consolidation and retrieval of episodes”. PI: K. Henke.
- Jan. 2005 Prize for the best Habilitation at the Faculty of Philosophy, University of Zurich, Switzerland.
- Dec. 2004 – May 2006 Additional Research Grant (extension) by the Swiss National Science Foundation (3100-067114.01/2) “Preclinical neuropsychological and neurophysiological markers for Alzheimer’s disease”. PI: K. Henke.
- Dec. 2004 – Nov. 2006 Research Grant by the Stiftung für Klinische Neuro-Psychiatrische Forschung (Foundation for Clinical Neuro-Psychiatric Research) for the project “Genetic influences on human memory, memory-related brain activity and neuroanatomy”. PI: K. Henke.
- Dec. 2003 – Nov. 2004 Neuroscience Center Zurich Research Grant to fund a graduate student on the project “Genetic influences on human memory, memory-related brain activity and neuroanatomy”. PI: K. Henke.
- Dec. 2002 – Nov. 2004 Research Grant by the Swiss National Science Foundation (3100-067114.01/1) “Preclinical neuropsychological and neurophysiological markers for Alzheimer’s disease”. PI: K. Henke.
- Dec. 2001 – Nov. 2003 Neuroscience Center Zurich Research Grant to fund a graduate student on the fMRI-project “Influence of nonconscious on conscious memory”. PI: K. Henke.
- Dec. 2000 – Nov. 2003 Research Grants by the Pharmaceutical Companies Novartis, Roche, Pfizer, Janssen-Cilag, and Merck Sharp & Dohme-Chibret for the study of preclinical neuropsychological and neurophysiological markers for Alzheimer’s disease. PI: K. Henke.
- June 1997-August 1999 Research Grant by the Swiss National Science Foundation 31-47203.96 “Assessment of hippocampal function with H<sub>2</sub><sup>15</sup>O-PET, fMRI, and event-related potentials with regard to predicting memory deficits following selective amygdalohippocampectomy in temporal

lobe epilepsy”. Investigators: A. Buck, K. Henke, H.-G. Wieser, P. Bösiger, S. Kollias, A. Aguzzi.

June - July 1997

Fellowship for the Participation at the McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth, NH, USA, awarded by the McDonnell Foundation.

April 1995 - March 1997

Fellowship (8210-040202) for Advanced Researchers awarded by the Swiss National Science Foundation for Research at the Center for Neuroscience, University of California, Davis, USA.

Jan. 1992 - Dec. 1994

Research Grant by the Swiss National Science Foundation (32-31 257.91)

“Implicit knowledge of episodes”. Investigators: M. Regard, K. Henke, T. Landis.

## **CLINICAL NEUROPSYCHOLOGY EXPERTISE**

1999-2005

Head of the Clinical Neuropsychology Unit, Division of Psychiatry Research, University of Zurich, Switzerland. Focus: differential diagnosis of patients with neurodegenerative diseases.

1997-1999

Clinical neuropsychological assessment of patients with epilepsy, Unit for Epileptology and EEG (supervisor: H.-G. Wieser), Dept. of Neurology, University Hospital Zurich, Switzerland.

1991-1994

Clinical neuropsychological assessment of neurological patients, Neuropsychology Unit (supervisors: T. Landis, M. Regard), Department of Neurology, University Hospital Zurich, Switzerland.

## **RESEARCH INTERESTS**

### **Cognitive neuroscience, human functional brain imaging with PET, MRI, and EEG:**

- Sleep’s function in memory formation and consolidation
- Neural correlates of unconscious and conscious memory formation
- Role of human hippocampus in memory
- Genetics and epigenetics of human memory
- Diagnosis and early prediction of memory dysfunction
- Subliminal perception and unconscious information processing

## **PROFESSIONAL ACTIVITY**

### **Memberships**

- MDRS (Memory Disorders Research Society)
- Society for Neuroscience
- Cognitive Neuroscience Society
- Neuroscience Center Zurich

### **Ad Hoc Journal Referee**

Reviews in Cell Biology and Molecular Medicine; Cognitive, Affective, and Behavioral Neuroscience; Scandinavian Journal of Psychology; PLOS ONE; Current Biology; Brain Sciences; Psychiatry Research; Biological Psychiatry; Cerebral Cortex; Journal of Neuroscience; European Journal of Neuroscience; Trends in Cognitive Sciences (TICS); Neurobiology of Aging; Journal of Experimental Psychology: Learning, Memory & Cognition; Journal of Cognitive Neuroscience; NeuroImage; Neuropsychologia; Hippocampus; Neurocase; Brain and Cognition; Neuroscience Letters; Brain Research; Neurodegenerative Diseases; Brain Research Bulletin.

## Ad Hoc Grant Referee

MRC, Danish Council for Independent Research, Health Research Board of Ireland, Israel Science Foundation, The Wellcome Trust, Swiss National Science Foundation (SNF), The Netherlands Organization for Scientific Research (NWO), German Research Council (DFG), European Commission for Research.

## PUBLICATIONS

1. Schneider, E., Züst, M., Wuethrich, S., Wiest, R., Ruch, S., Henke, K. (2018). Role of hippocampus in conscious versus unconscious temporal inference. *Journal of Neuroscience*, submitted. **IF: 6.**
2. Züst, M.A., Ruch, S., Wiest, R., Henke, K. (2018). Implicit relational vocabulary encoding during sleep is bound to slow-wave peaks. *Current Biology*, in revision. **IF: 9.3.**
3. Wuethrich, S., Hannula, D.E., Mast, F., Henke, K. (2018). Subliminal encoding and flexible retrieval of objects in scenes. *Hippocampus*, Hippocampus. 2018 Apr 27. doi: 10.1002/hipo.22957. **IF: 4.**
4. Ruch, S., Herbert, E., Henke, K. (2017). Subliminally and supraliminally acquired long-term memories jointly bias delayed decisions. *Frontiers in Psychology*, 8:1542. doi: 10.3389/fpsyg.2017.01542. **IF: 2.3.**
5. Henke, K. (2017). Choosing the hard road. *Science*, 255 (6321), 218. **IF: 34.**
6. Ruch, S., Züst, M.A., Henke, K. (2016). Subliminal messages exert long-term effects on decision-making. *Neuroscience of Consciousness*, 1–9. doi: 10.1093/nc/niw013.
7. Reber, T.P., DoLam, A., Axmacher, N., Elger, C.E., Henke, K., Fell, J. (2016). Intracranial EEG correlates of implicit relational inference within the hippocampus. *Hippocampus*, 26, 54-66. doi: 10.1002/hipo.22490 . **IF: 4.3.**
8. Soravia, L., Witmer, J., Schwab, S., Nakataki, M., Dierks, T., Wiest, R., Henke, K., Federspiel, A., Jann, K. (2015). Pre-stimulus default mode activity influences depth of processing and recognition in an emotional memory task. *Human Brain Mapping*, in press. **IF: 6.0.**
9. Nickel, A.E., Henke, K., Hannula, D.E. (2015). Relational memories are evident in eye movement behavior following subliminal memory cues. *PLoS ONE*, 10(10):e0141677. doi: 10.1371/journal.pone.0141677. **IF: 3.5.**
10. Züst, M.A., Colella, P., Reber, T.P., Vuilleumier, P., Hauf, M., Ruch, S., Henke, K. (2015). Hippocampus is place of interaction between unconscious and conscious memories. *PLoS ONE*, 10(3), e0122459. doi:10.1371/journal.pone.0122459. **IF: 3.5.**
11. Ruch, S., Koenig, T., Mathis J., Roth, C., Henke, K. (2014). Word encoding during sleep is suggested by correlations between word-evoked up-states and post-sleep semantic priming. *Frontiers in Psychology*, doi: 10.3389/fpsyg.2014.01319. **IF: 2.84.**
12. Duss, S.B., Reber, T.P., Hänggi, J., Schwab, S., Wiest, R., Müri, R.M., Brugger, P., Gutbrod, K., Henke, K. (2014). Unconscious Relational Encoding Depends on Hippocampus. *Brain*, 137, 3355-3370. **IF: 10.23.**
13. Stein M., Rohde, K.B., Henke, K. (2014). Focus on emotion as a catalyst of memory updating during reconsolidation. *Behavioral and Brain Sciences*, in press. **IF: 18.**

14. Lüthi, M., [Henke, K.](#), Gutbrod, K., Nyffeler, T., Chaves, S., Müri, R.M. (2014). In your eyes only: Deficits in executive functioning after frontal TMS reflect in eye movements. *Frontiers in Behavioral Neuroscience*, volume 8, article 7. Doi: 10.3389/fnbeh.2014.00007. **IF: 4.8.**
15. Reber, T.P., Luechinger, R., Boesiger, P., [Henke, K.](#) (2014). Detecting analogies to unconscious memories. *Frontiers in Behavioral Neuroscience*, volume 8, article 9. Doi: 10.3389/fnbeh.2014.00009. **IF: 4.8.**
16. [Henke, K.](#), Reber, T.P., Duss, S.B. (2013). Integrating events across levels of consciousness. *Frontiers in Behavioral Neuroscience*, volume 7, article 68. Doi: 10.3389/fnbeh.2013.00068. **IF: 4.8.**
17. Ruch, S., Markes, O., Duss, S.B., Reber, T.P., Koenig, T., Mathis, J., Roth, C., [Henke, K.](#) (2012). Sleep stage II contributes to the consolidation of declarative memories. *Neuropsychologia*, 50, 2389-2396. **IF: 3.5.**
18. Reber, T.P., Luechinger, R., Boesiger, P., [Henke, K.](#) (2012). Unconscious relational inference recruits the hippocampus. *Journal of Neuroscience*, 32, 6138-6148. **IF: 7.0.**
19. Reber, T.P., [Henke K.](#) (2012). Integrating unseen events over time. *Consciousness and Cognition*, 21, 953-60. **IF: 2.2.**
20. Reber, T.P., [Henke K.](#) (2011). Rapid formation and flexible expression of memories of subliminal word pairs. *Frontiers in Psychology*, volume 2, article 343. Doi: 10.3389/fpsyg.2011.00343. **IF: 2.8.**
21. Duss, S. & [Henke, K.](#) (2011). Bewusstsein für Lernen unnötig. *Spektrum der Wissenschaft*, Januar Heft.
22. Duss, S.B., Oggier, S., Reber, T.P., [Henke, K.](#) (2011). Formation of semantic associations between subliminally presented face-word pairs. *Consciousness and Cognition*, 20, 928-935. **IF: 2.2.**
23. Meier, B., König, A., Parak, S., [Henke, K.](#) (2011). Suppressed but not forgotten. *Swiss Journal of Psychology*, 70 (1), 5-11. **IF: 0.8.**
24. Papassotiropoulos, A., [Henke, K.](#), Stefanova, E., et al. (2011). A genome-wide survey of human short-term memory. *Molecular Psychiatry*, 16, 184-192. **IF: 15.2.**
25. [Henke, K.](#) (2010). A model for memory systems based on processing modes rather than consciousness. *Nature Reviews Neuroscience*, 11, 523-532. **IF: 31.4.**
26. Hänggi, J., Mondadori, C.R.A., Buchmann, A., [Henke, K.](#), Hock, C. (2011). A *CYP46* T/C SNP modulates parahippocampal and hippocampal morphology in young subjects. *Neurobiology of Aging*, 32, 1023-1032. **IF: 6.0.**
27. Hänggi, J., Buchmann, A., Mondadori, C.R.A., [Henke, K.](#), Jäncke, L., Hock, C. (2010). Sexual dimorphism in the parietal substrate associated with visuospatial cognition independent of general intelligence. *Journal of Cognitive Neuroscience*, 22, 139-155. **IF: 4.7.**
28. Buchmann, A., Mondadori, C.R.A., Hänggi, J., Aerni, A., Vrticka, P., Luechinger, R., Boesiger, P., Hock, C., Nitsch, R.M., de Quervain, D. J.-F., Papassotiropoulos, A., [Henke, K.](#) (2008). Prion protein M129V polymorphism affects retrieval-related brain activity. *Neuropsychologia*, 46, 2389-2402. **IF: 3.5.**

29. Huentelman, M.J., Papassotiropoulos, A., Craig, D.W., Hoernkli, F.J., Pearson, J.V., Huynh, K.-D., Corneveaux, J., Hanggi, J., Mondadori, C.R.A., Buchmann, A., Reiman, E.M., Henke, K., de Quervain, D.J.-F., Stephan, D.A. (2007). Calmodulin-binding transcription activator 1 (*CAMTA1*) alleles predispose human episodic memory performance. *Human Molecular Genetics*, 16, 1469-1477. **IF: 7.7.**
30. Mondadori, C.R.A., de Quervain, D. J.-F., Buchmann, A., Mustovic, H., Wollmer, M.A., Schmidt, C.F., Boesiger, P., Hock, C., Nitsch, R.M., Papassotiropoulos, A., Henke, K. (2007). Better memory and neural efficiency in young Apolipoprotein E  $\epsilon$ 4 carriers. *Cerebral Cortex*, 17, 1934-1947. **IF: 8.3.**
31. Papassotiropoulos, A., Stephan, D.A., Huentelmann, M.J., Hoernkli, F.J., Craig, D.W., Pearson, J.V., Huynh, K.-D., Brunner, F., Corneveaux, J., Osborne, D., Wollmer, M.A., Aerni, A., Coluccia, D., Haenggi, J., Mondadori, C.R.A., Buchmann, A., Reiman, E.M., Caselli, R.J., Henke, K., de Quervain, D.J.-F. (2006). Common KIBRA alleles are associated with human memory performance. *Science*, 314, 475-478. **IF: 31.5.**
32. Mondadori, C.R.A., Buchmann, A., Mustovic, H., Schmidt, C.F., Boesiger, P., Nitsch, R.M., Hock, C., Streffer, J., Henke, K. (2006). Enhanced brain activity may precede the diagnosis of Alzheimer's disease by 30 years. *Brain*, 129 (Pt 11), 2908-2922. **IF: 10.2.**
33. Koller, M.F., Papassotiropoulos, A., Henke, K., Behrends, B., Noda, S., Kratzer, A., Hock, C., Hofmann, M. (2005). Evidence of a genetic basis of Morgagni-Stewart-Morel Syndrome. *Neurodegenerative Diseases*, 2, 56-60. **IF: 3.5.**
34. Bosshardt, S., Degonda, N., Schmidt, C.F., Boesiger, P., Nitsch, R.M., Hock, C., Henke, K. (2005). One month of human memory consolidation enhances retrieval-related hippocampal activity. *Hippocampus*, 15, 1026-1040. **IF: 5.5.**
35. Papassotiropoulos, A., Henke, K., Aerni, A., Coluccia, D., Garcia, E., Wollmer, M.A., Huynh, K.-D., Monsch, A.U., Stäbelin, H.B., Hock, C., Nitsch, R.M., de Quervain, D. J.-F. (2005). Age-dependent effects of the 5-hydroxytryptamine-2a-receptor polymorphism (His452Tyr) on human memory. *NeuroReport*, 16, 839-842. **IF: 1.65.**
36. Degonda, N., Mondadori, C.R.A., Bosshardt, S., Schmidt, C.F., Boesiger, P., Nitsch, R.M., Hock, C., Henke, K. (2005). Implicit associative learning engages the hippocampus and interacts with explicit associative learning. *Neuron*, 46, 505-520. **IF: 16.0.**
37. Schmidt, C.F., Degonda, N., Luechinger, R., Henke, K., Boesiger, P. (2005). Sensitivity-encoded (SENSE) echo planar fMRI at 3 T in the medial temporal lobe. *NeuroImage*, 25, 625-641. **IF: 6.3.**
38. Daumann, J., Fischermann, T., Heekeren, K., Henke, K., Thron, A., Gouzoulis-Mayfrank, E. (2005). Memory-related hippocampal dysfunction in poly-drug ecstasy (3,4-methylenedioxymethamphetamine) users. *Psychopharmacology*, 180, 607-611. **IF: 4.0.**
39. Bosshardt, S., Schmidt, C.F., Jaermann, T., Degonda, N., Boesiger, P., Nitsch, R.M., Hock, C., Henke, K. (2005). Effects of memory consolidation on human hippocampal activity during retrieval. *Cortex*, 41, 486-498. **IF: 6.2.**

40. De Quervain D. J.-F., Henke, K., Aerni, A., Coluccia, D., Wollmer, M.A., Hock, C., Nitsch, R.M., Papassotiropoulos, A. (2003). A functional genetic variation of the 5-HT<sub>2a</sub> receptor affects human memory. *Nature Neuroscience*, 6, 1141-1142. **IF: 15.0.**
41. Hock, C., Konietzko, U., Streffer, J.R., Tracy, J., Signorell, A., Müller-Tillmanns, B., Lemke, U., Henke, K., Moritz, E., Garcia, E., Wollmer, M.A., Umbricht, D., de Quervain, D.J.-F., Hofmann, M., Maddalena, A., Papassotiropoulos, A., Nitsch, R.M. (2003). Antibodies against  $\beta$ -amyloid slow cognitive decline in Alzheimer's disease. *Neuron*, 38, 547-554. **IF: 16.0.**
42. Henke, K., Treyer, V., Weber, B., Nitsch, R.M., Hock, C., Wieser, H.G., Buck, A. (2003). Functional neuroimaging predicts individual memory outcome after amygdalohippocampectomy. *NeuroReport*, 14, 1197-1202. **IF: 1.65.**
43. De Quervain, D. J.-F., Henke, K., Aerni, A., Treyer, V., McGaugh, J.L., Berthold, T., Nitsch, R.M., Buck, A., Roozendaal, B. & Hock, C. (2003). Glucocorticoid-induced impairment of declarative memory retrieval is associated with reduced blood flow in the medial temporal lobe. *European Journal of Neuroscience*, 17, 1296-1302. **IF: 3.8.**
44. Henke, K., Mondadori, C., Treyer, V., Nitsch, R.M., Buck, A. & Hock, C. (2003). Nonconscious formation and reactivation of semantic associations by way of the medial temporal lobe. *Neuropsychologia*, 41, 863-876. **IF: 3.5.**
45. Henke, K., Treyer, V., Turi Nagy, E., Kneifel, S., Dürsteler, M., Nitsch, R.M., & Buck, A. (2003). Active hippocampus during nonconscious memories. *Consciousness and Cognition*, 12, 31-48. **IF: 2.2.**
46. Wollmer, M.A., Papassotiropoulos, A., Streffer, J., Grimaldi, L.M.E., Kapaki, E., Salani, G., Paraskevas, G.P., Maddalena, A., de Quervain, D., Bieber, C., Umbricht, D., Lemke, U., Bosshardt, S., Degonda, N., Henke, K., Hegi, T., Jung, H.H., Pasch, T., Hock, C. & Nitsch, R.M. (2002). Genetic polymorphisms and cerebrospinal fluid levels of tissue inhibitor of metalloproteinases 1 in sporadic Alzheimer's disease. *Psychiatric Genetics*, 12, 155-160. **IF: 2.4.**
47. Wieser, H.G., Henke, K., Zumsteg, D., Taub, E., Yonekawa, Y., & Buck, A. (1999). Activation of left motor cortex during left leg movements following right central resection. *Journal of Neurology, Neurosurgery, and Psychiatry*, 67, 487-491. **IF: 4.5.**
48. Henke, K., Weber, B., Kneifel, S., Wieser, H.G., & Buck, A. (1999). Human hippocampus associates information in memory. *Proceedings of the National Academy of Sciences USA*, 96, 5884-5889. **IF: 9.8.**
49. Henke, K., Kroll, N.E.A., Behniea, H., Amaral, D.G., Miller, M.B., Rafal, R., & Gazzaniga, M. S. (1999). Memory lost and regained following bilateral hippocampal damage. *Journal of Cognitive Neuroscience*, 11, 682-697. **IF: 4.7.**
50. Henke, K., Schweinberger, S.R., Grigo, A., Klos, T., & Sommer, W. (1998). Specificity of face recognition: recognition of exemplars of non-face objects in prosopagnosia. *Cortex*, 34, 289-296. **IF: 6.2.**
51. Henke, K., Weber, B., Schwedler, K., Kneifel, S., Berthold, T., Wieser, H.G., & Buck, A. (1999). PET studies of memory. *Schweizer Archiv für Neurologie und Psychiatrie*, 150, 89-96.

52. Henke, K., Buck, A., Weber, B., & Wieser, H.G. (1997). Human hippocampus establishes associations in memory. *Hippocampus*, 7, 249-256. **IF: 5.5.**
53. Henke, K. & Wieser, H.G. (1996). Bilateral medial temporal lobe damage without amnesic syndrome: a case report. *Epilepsy Research*, 24, 147-161. **IF: 2.2.**
54. Henke, K., Landis, T., & Markowitsch, H.J. (1994). Subliminal perception of words and faces. *International Journal of Neuroscience*, 75, 181-187. **IF: 1.5.**
55. Henke, K., Landis, T., & Markowitsch, H.J. (1993). Subliminal perception of pictures in the right hemisphere. *Consciousness and Cognition*, 2, 225 - 236. **IF: 2.2.**

## **Books and Book Chapters**

- Henke, K. (1999). The role of the hippocampus in memory. In L.-G. Nielsson & H.J. Markowitsch (Eds.), *Cognitive Neuroscience of Memory*. Göttingen: Hogrefe & Huber.
- Buck, A., Henke, K. & Röhrenbach, Ch. (1995). SPECT findings and implicit memory during transient global amnesia. In W. Siegenthaler & R. Haas (Eds.), *The Decade of the Brain*. Stuttgart: Thieme.
- Henke, K. (1993). *Unterschwellige Wahrnehmung. Untersuchungen zur cerebralen Hemisphärendominanz*. Konstanz: Hartung-Gorre Verlag.
- Henke, K. (1988). *Die Neuropsychologie der Emotionen*. University of Bern Press: Switzerland.

## **SUPERVISED FELLOWS AND STUDENTS**

### **Postdoctoral Fellows**

- Marc A. Züst, March 2017 – July 2018, Department of Psychology, University of Bern, Switzerland.
- Romi Zäske, May 2015 – Dec. 2015, Department of Psychology, University of Bern, Switzerland.
- Simon Ruch, April 2014 - , Department of Psychology, University of Bern, Switzerland.
- Simone Duss, June 2013 - April 2014, Department of Psychology, University of Bern, Switzerland.
- Thomas Reber, March 2012 - April 2013, Department of Psychology, University of Bern, Switzerland.
- Ulrike Lemke, Dec. 2000 – Dec. 2002, Division of Psychiatry Research, University of Zurich, Switzerland.

### **PhD Students**

- Tom Willems, PhD thesis in psychology and neuroscience, 2018 - , Department of Psychology, University of Bern, Switzerland.
- Luca Pacozzi, PhD thesis in psychology and neuroscience, 2017 - , Department of Psychology, University of Bern, Switzerland.
- Flavio Schmidig, PhD thesis in psychology and neuroscience, 2017 - , Department of Psychology, University of Bern, Switzerland.
- Else Schneider, PhD thesis in psychology and neuroscience, 2014 - 2018, Department of Psychology, University of Bern, Switzerland.
- Sergej Wüthrich, PhD thesis in psychology, 2013 - 2018, Department of Psychology, University of Bern, Switzerland.
- Marc Züst, PhD thesis in psychology and neuroscience, 2012 - 2017, Department of Psychology, University of Bern, Switzerland.



Simon Ruch, PhD thesis in psychology and neuroscience, 2010 - 2015, Department of Psychology, University of Bern, Switzerland.

Simone Duss, PhD thesis in psychology and neuroscience, 2008 - 2013, Department of Psychology, University of Bern, Switzerland.

Oliver Markes, PhD thesis in psychology and neuroscience, 2008 - 2011, Department of Psychology, University of Bern, Switzerland.

Patrizio Colella, PhD thesis in psychology and neuroscience, 2007 - 2011, Department of Psychology, University of Bern, Switzerland.

Thomas Reber, PhD thesis in psychology and neuroscience, 2007 - 2012, Department of Psychology, University of Bern, Switzerland.

Juergen Hänggi, PhD thesis in neuroscience, 2004 – 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Andreas Buchmann, PhD thesis in neuroscience, 2003 - 2006, Division of Psychiatry Research, University of Zurich, Switzerland.

Christian Mondadori, PhD thesis in neuroscience, 2002 - 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Simone Bosshardt, PhD thesis in neuroscience 2000 - 2004, Division of Psychiatry Research, University of Zurich, Switzerland.

Nadia Degonda, PhD thesis in neuroscience 2000 - 2004, Division of Psychiatry Research, University of Zurich, Switzerland.

### **Clinical Supervision of Neuropsychologists (neurological and psychiatric diagnosis)**

Henrietta Mustovic, 2004 - 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Juergen Hänggi, 2004 – 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Andreas Buchmann, 2003 - 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Christian Mondadori, 2002 - 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Britta Behrends, 2001 – 2005, Division of Psychiatry Research, University of Zurich, Switzerland.

Simone Bosshardt, 2000-2004, Division of Psychiatry Research, University of Zurich, Switzerland.

Nadia Degonda, 2000 - 2004, Division of Psychiatry Research, University of Zurich, Switzerland.

Ulrike Lemke, 2000 – 2002, Division of Psychiatry Research, University of Zurich, Switzerland.

### **TEACHING**

#### **Student Courses**

2005-2018	Lecturer “Biological Psychology II”, Lecture for Bachelor Students, Spring Term, University of Bern, Switzerland.
2018	Instructor “Between learning and retrieval: silent strengthening, modulation and degradation of memories”, course for Master Students, Spring Term 2018, University of Bern, Switzerland
2017-	Organizer of Research Colloquium Experimental Neuropsychology
2017	Instructor “The brain in sync: synchronous oscillations for cognition”, course for Master Students, Fall Term 2017, University of Bern, Switzerland
2017	Instructor “Theories of consciousness”, course for Master Students, Spring Term 2017, University of Bern, Switzerland

- 2017 Instructor 'Memory' in the lecture series 'Cognitive neuroscience', 'Introductory Course in Neuroscience II', Neuroscience Center Zurich, Spring Term 2017.
- 2016 Instructor "Memory systems in the brain", course for Master Students, Fall Term 2016, University of Bern, Switzerland
- 2016 Instructor "Parallel and sequential information processing in the brain", course for Master Students, Spring Term 2016, University of Bern, Switzerland
- 2015 Instructor "Neural correlates of state and access consciousness", course for Master Students, Fall Term 2015, University of Bern, Switzerland
- 2015 Instructor "Memory theories scrutinized", course for Master Students, Spring Term 2015, University of Bern, Switzerland
- 2014 Instructor "Episodes in space and time", course for Master Students, Fall Term 2014, University of Bern, Switzerland
- 2014 Instructor "Consciousness – what for?", course for Master Students, Spring Term 2014, University of Bern, Switzerland
- 2013 Instructor "Cognitive functions of sleep", course for Master Students, Fall Term 2013, University of Bern, Switzerland.
- 2013 Organizer of "Research Colloquium of the Division of Experimental Psychology and Neuropsychology", Spring Term 2013, University of Bern, Switzerland.
- 2013 Instructor "Genetics and epigenetics in psychology", course for Master Students, Spring Term 2013, University of Bern, Switzerland.
- 2012 Instructor "Neurobiology of wellbeing", course for Master Students, Fall Term 2012, University of Bern, Switzerland.
- 2011 Instructor "Priming and familiarity – two sides of the same coin", course for Master Students, Fall Term 2011, University of Bern, Switzerland.
- 2011 Instructor "Synchronicity in the nervous system", course for Master Students, Spring Term 2011, University of Bern, Switzerland.
- 2011-2017 Organizer Tutorium 'Introduction to psychology'
- 2010 Instructor "Limits of conscious and unconscious information processing", course for Master Students, Fall Term 2010, University of Bern, Switzerland.
- 2010 Instructor "Lifelong neural plasticity", course for Master Students, Spring Term 2010, University of Bern, Switzerland.
- 2009 Instructor "Heureka! – sudden insights", course for Master Students, Fall Term 2009, University of Bern, Switzerland.
- 2009 Organizer of the Guest Lecture Series of the Dept. of Psychology, University of Bern, Switzerland.
- 2009 Instructor "Role of hippocampus in human memory", graduate student course, Benefri graduate student educational program in neuroscience of the Universities of Bern and Fribourg, Switzerland.
- 2009 Instructor "Memory Consolidation", course for Master Students, Spring Term 2009, University of Bern, Switzerland.
- 2008 Instructor "Unconscious Cognition", course for Master Students, Fall Term 2008, University of Bern, Switzerland.
- 2008 Instructor "Neuroanatomy", course for Master Students, Spring Term 2008, University of Bern, Switzerland.
- 2008 Instructor "Semantic and Episodic Memory", course for Master Students, Spring Term 2008, University of Bern, Switzerland.
- 2007 Instructor "Memory Consolidation", course for Master Students, Fall Term 2007, University of Bern, Switzerland.

- 2007 Instructor “Philosophical and Psychological Problems in the Clinical Neurosciences”, course for Master Students, Spring Term 2007, University of Bern, Switzerland.
- 2006 Instructor “Experimental Neuropsychology: Learning and Memory”, course for Master Students, Spring Term 2006, University of Bern, Switzerland.
- 2006 Lecturer “Biological Psychology I”, Lecture series for Bachelor Students, Spring Term 2006, University of Bern, Switzerland.
- 2005 Instructor “Experimental Neuropsychology of Consciousness”, course for Master Students, Fall Term 2005, University of Bern, Switzerland.
- 2005 Instructor “Neuropsychological assessment of cognitive dysfunction” in the course “Psychiatric Clinic 1”, Spring Term 2005 for medical students in their 4<sup>th</sup> year.
- 2004 Instructor “Neuroimaging Methods”, undergraduate student course “Experimental Neuropsychology: Memory and Learning”, by Walter Perrig, University of Bern, Switzerland.
- 2004 Instructor “Method of Positron Emission Tomography”, undergraduate student course “Neuroimaging in clinical-psychological research”, by Urs Nater, University of Zurich, Switzerland.
- 2004 Instructor “Limbic system, hippocampus”, graduate student course “Functional neuroanatomy” by Chantal Martin-Soelch, University of Basel, Switzerland.
- 2003 Instructor “Memory: Diagnostics and Research”, undergraduate student course “Neuropsychological Rehabilitation” by Martin Keller, University of Zurich, Switzerland.
- 2003 Instructor “Neuroscience of Memory”, seminar for advanced undergraduate students and graduate students in psychology, neuroscience and medicine, University of Zurich, Switzerland.
- 2002 – 2005 Instructor “Literature Club on Neurodegeneration: Recent Research Results”, University of Zurich, Switzerland.
- 2002 Instructor “PET Method and Results”, undergraduate student course “Neuroimaging Methods in Clinical-Psychological Research” by Markus Heinrichs, University of Zurich, Switzerland.
- 2001/2002 Instructor “Cognitive Neuroscience of Attention and Consciousness”, seminar for advanced undergraduate students and graduate students in psychology, neuroscience and medicine, University of Zurich, Switzerland.
- 2001 - 2005 Instructor “Molecular Pathophysiology of Neuropsychiatric Diseases”, University of Zurich, Switzerland.
- 2000 Instructor “Cognitive Neuroscience of Vision and Memory”, seminar for advanced undergraduate students and graduate students in psychology, neuroscience and medicine, University of Zurich, Switzerland.
- 2000 Instructor “Neuroimaging of Unconscious Memory”, graduate student education in psychology, SNF Program, University of Bern, Switzerland.
- 2000 Instructor “The PET Method in Memory Research”, undergraduate student course “Neuroimaging Methods in Clinical-Psychological Research” by Markus Heinrichs, University of Zurich, Switzerland.
- 1999 Instructor “Memory”, postgraduate course organized by Dorothea Weniger, University Hospital Zurich, Switzerland.
- 1999 Instructor “Brain and Memory”, undergraduate student lecture series “Neuropsychology” by Marianne Regard, University of Zurich, Switzerland.
- 1999 Instructor “Memory”, neuroscience graduate student course “Lectures in Clinical Neuroscience” by Jürg Kesselring, ZNZ, University of Zurich, Switzerland.
- 1998 Instructor “Brain and Consciousness“, General Educational Program “Science and Wisdom“ organized by Gustav v. Schulthess, University of Zurich, Switzerland.

- 1998 Instructor "PET studies of memory", graduate student course organized by Marie-Claude Hepp, Brain Research Institute, University of Zurich, Switzerland.
- 1997 Instructor "Hippocampus and Memory", undergraduate student course "Neurophysiology Part 2" by Marie-Claude Hepp and Fred Mast, University of Zurich, Switzerland.
- 1997 Instructor "Neuropsychology of Memory", undergraduate program, University of California, Santa Barbara, USA.
- 1989/90 Instructor (Seminar and Practical Course) "Experimental Psychology", undergraduate program, Ruhr-University Bochum, Germany.

Bern, July 2018

Katharina Henke Westerholt