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Research

Curriculum Vitae

Publications

Peer reviewed publications

2009

- Otto T.U., Ögmen H., Herzog M.H. (2009). **Feature integration across space, time, and orientation.** *Journal of Experimental Psychology: Human Perception and Performance*, 35(6), 1670-86.
- Tartaglia E.M., Bamert L., Mast F.W., Herzog M.H. (2009). **Human perceptual learning by mental imagery.** *Current Biology*, 19(24), 2081-2085.
- Boi M., Ögmen H., Krummenacher J., Otto T.U., Herzog M.H. (2009). **A (fascinating) litmus test for human retino- vs. non-retinotopic processing.** *Journal of Vision*, 9(13):5, 1-11.
- Åberg K.C., Albrecht E., Tartaglia E.M., Farron A., Soom P., Herzog M.H. (2009). **Anesthesia prevents auditory perceptual learning.** *Anesthesiology*, 111, 1010-5.
- Dombrowe I., Hermens F., Francis G., Herzog M.H. (2009). **The roles of mask luminance and perceptual grouping in visual backward masking.** *Journal of Vision*, 9(11):22, 1-11.
- Saarela T.P., Herzog M.H. (2009). **Size tuning and contextual modulation of backward contrast masking.** *Journal of Vision*, 9(11):21, 1-12.
- Åberg K.C., Herzog M.H. (2009). **Interleaving bisection stimuli – randomly or in sequence – does not disrupt perceptual learning, it just makes it more difficult.** *Vision Research*, 49, 2591-98.
- Plomp G., Mercier M.R., Otto T.U., Blanke O., Herzog M.H. (2009). **Non-retinotopic feature integration decreases response-locked brain activity as revealed by electrical neuroimaging.** *NeuroImage*, 48, 405-414.
- Hermens F., Herzog M.H., Francis G. (2009). **Combining simultaneous with temporal masking.** *Journal of Experimental Psychology: Human Perception and Performance*, 35(4), 977-988.
- Åberg K.C., Tartaglia E.M., Herzog M.H. (2009). **Perceptual learning with Chevrons requires a minimal number of trials, transfers to untrained directions, but does not require sleep.** *Vision Research*, 49, 2087-94.
- Hermens F., Scharnowski F., Herzog M.H. (2009). **Spatial grouping determines temporal integration.** *Journal of Experimental Psychology: Human Perception and Performance*, 35(3), 595-610.
- Scharnowski F., Rüter J., Jolij J., Hermens F., Kammer T., Herzog M.H. (2009). **Long lasting modulation of feature integration by transcranial magnetic stimulation.** *Journal of Vision*, 9(6):1, 1-10. (see also: *Faculty of 1000 Biology Evaluation*)
- Herzog M.H., Brand A. (2009). **Pitting temporal against spatial integration in schizophrenia.** *Psychiatry Research*, 168, 1-10.
- Tartaglia E.M., Åberg K.C., Herzog M.H. (2009). **Modeling perceptual learning: Why mice do not play backgammon.** *Learning & Perception*, 1, 155-163.
- Herzog M.H., Esfeld M. (2009). **How the mind constitutes itself through perceptual learning.** *Learning & Perception*, 1, 147-154.
- Tartaglia E.M., Åberg K.C., Herzog M.H. (2009). **Perceptual learning and roving: stimulus types and overlapping neural populations.** *Vision Research*, 49, 1420-1427.
- Holzer L., Jaugey L., Chinnet L., Herzog M.H. (2009). **Deteriorated visual backward masking in the shine-through effect in adolescents with psychosis.** *Journal of Clinical and Experimental Neuropsychology*, 31, 641-647.
- Aydin M., Herzog M.H., Ögmen H. (2009). **Shape distortions and Gestalt grouping in anorthoscopic perception.** *Journal of Vision*, 9(3): 8, 1-8.
- Saarela T.P., Sayim B., Westheimer G., Herzog M.H. (2009). **Global stimulus configuration modulates crowding.** *Journal of Vision*, 9(2):5, 1-11.

2008

- Breitmeyer B., Herzog M.H., Ögmen H. (2008). **Motion, not Masking, Provides the Medium for Feature Attribution.** *Psychological Science*, 19, 823-829.
- Overney L.S., Blanke O., Herzog M.H. (2008). **Enhanced temporal but not attentional processing in expert tennis players.** *PLoS ONE*, 3(6), e2380.
- Sayim B., Westheimer G., Herzog M.H. (2008). **Contrast polarity, chromaticity, and stereoscopic depth modulate contextual interactions in vernier acuity.** *Journal of Vision*, 8(8):12, 1-9.
- Otto T.U., Ögmen H., Herzog M.H. (2008). **Accessing the microstructure of motion correspondences with non-retinotopic feature attribution.** *Journal of Vision*, 8(7):16, 1-15.
- Aydin M., Herzog M.H., Ögmen H. (2008). **Perceived Speed Differences Explain Apparent Compression in Slit Viewing.** *Vision Research*, 48(15), 1603-1612.
- Herzog M.H., Schmonsees U.J., Boesenberg J.M., Mertins T., Fahle M. (2008). **Grouping in the shine-through effect.** *Perception & Psychophysics*, 70(5), 887-895.
- Roinishvili M., Ckonia E., Brand A., Herzog M.H. (2008). **Contextual suppression and protection in schizophrenic patients.** *European Archives of Psychiatry and Clinical Neuroscience*, 258, 210-216.
- Saarela T.P., Herzog, M.H. (2008). **Time-course and surround modulation of contrast masking in human vision.** *Journal of Vision*, 8(3):23, 1-10.
- Hermens F., Luksys G., Gerstner W., Herzog M.H., Ernst U. (2008). **Modeling spatial and temporal aspects of visual backward masking.** *Psychological Review*, 115, 83-100.
- Parkosadze K., Otto T.U., Malania M., Kezeli A., Herzog M.H. (2008). **Perceptual learning of bisection stimuli under roving: Slow and largely specific.** *Journal of Vision*, 8(1):5, 1-8.

2007

- Herzog M.H., Esfeld M., Gerstner W. (2007). **Consciousness & the small network argument.** *Neural Networks*, 20, 1054-1056, (for commentaries see Taylor 2007a & 2007b).
- Bachmann T., Elliott M., Herzog M., Vorberg D. (2007). **Visual perception in a snapshot.** *Psychological Research*, 71, 615-617.
- Herzog M.H., Scharnowski F., Hermens F. (2007). **Long lasting effects of unmasking in a feature fusion paradigm.** *Psychological Research*, 71, 653-658.
- Scharnowski F., Hermens F., Herzog M.H. (2007). **Bloch's law and the dynamics of feature fusion.** *Vision Research*, 47, 2444-2452.
- Fischer C., Overney L.S., Fauve M., Blanke O., Rhyner H., Herzog M.H., Bourban P.E., Manson J.A. (2007). **What static and dynamic properties should slalom skis possess? Judgements by advanced and expert skiers.** *Journal of Sports Sciences*, 25(14), 1567-1576.
- Ansorge U., Francis G., Herzog M.H., Ögmen H. (2007). **Visual masking and the dynamics of human perception, cognition, and consciousness. A century of progress, a contemporary synthesis, and future directions.** *Advances in Cognitive Psychology*, 3, 1-8.

- Herzog M.H. (2007). **Spatial processing and visual backward masking**. *Advances in Cognitive Psychology*, 3, 85-92.
- Hermens F., Herzog M.H. (2007). **The effects of the global structure of the mask in visual backward masking**. *Vision Research*, 3, 85-92.
- Schutze C., Bongard I., Marbach S., Brand A. Herzog M.H. (2007). **Collinear contextual suppression in schizophrenic patients**. *Psychiatry Research*, 15, 237-243.
- Scharnowski F., Hermens F., Kammer T., Ogmen H., Herzog M.H. (2007). **Feature fusion reveals slow and fast visual memories**. *Journal of Cognitive Neurosciences*, 19(4), 632-641.
- Malania M., Herzog M.H., Westheimer G. (2007). **Grouping of contextual elements that affect vernier thresholds**. *Journal of Vision*, Vol 7, No 2, Art 1.
- Duangudom V., Francis G., Herzog M.H. (2007). **What is the strength of a mask in visual metacontrast masking?** *Journal of Vision*, Vol 7, No 1, Art 7.

2006

- Otto T.U., Ogmen H., Herzog M.H. (2006). **The flight path of the phoenix – The visible trace of invisible elements in human vision**. *Journal of Vision*, 6, 1079-1086.
- Herzog M.H., Ewald K.R.F., Hermens F., Fahle M. (2006). **Reverse feedback induces position and orientation specific changes**. *Vision Research*, 46, 3761-3770.
- Herzog M.H., Lesemann E., Eurich, C.W. (2006). **Spatial interactions determine temporal feature integration as revealed by unmasking**. *Advances in Cognitive Psychology*, 2, 77-85.
- Otto T., Herzog M.H., Fahle M., Zhaoping L. (2006). **Perceptual learning with spatial uncertainties**. *Vision Research*, 46, 3223-3233.
- Ogmen H., Otto T., Herzog M.H. (2006). **Perceptual grouping induces non-retinotopic feature attribution in human vision**. *Vision Research*, 46, 3234-3242.

2005

- Brand A., Kopmann S., Marbach S., Heinze M., Herzog M.H. (2005). **Intact and deficient feature fusion in schizophrenia**. *European Archives of Psychiatry and Clinical Neuroscience*, 255, 413-418.
- Sharikadze M., Fahle M., Herzog M.H. (2005). **Attention and feature integration in the feature-inheritance effect**. *Vision Research*, 45, 2608-2619.

2004

- Herzog M.H., Kopmann S., Brand A. (2004). **Intact figure-ground-segmentation in schizophrenia**. *Psychiatry Research*, 129, 55-63.
- Herzog M.H., Dependahl S., Schmonsees U., Fahle M. (2004). **Valences in Contextual Vision**. *Vision Research*, 44, 3131-3143.
- Brand A., Kopmann S., Herzog M.H. (2004). **Intact feature fusion in schizophrenic patients**. *European Archives of Psychiatry and Clinical Neuroscience*, 254, 281-288.
- Giersch A., Herzog M.H. (2004). **Lorazepam prolongs visual information processing**. *Neuropsychopharmacology*, 29, 1386-1394.
- Francis G., Herzog M.H. (2004). **Testing quantitative models of backward masking**. *Psychonomic Bulletin and Review*, 11, 104-111.

2003

- Herzog M.H., Harms M., Ernst U., Eurich, C., Mahmud S., Fahle M. (2003). **Extending the shine-through effect to classical masking paradigms**. *Vision Research*, 43, 2659-2667.
- Herzog M.H., Ernst U., Etzold A., Eurich C. (2003). **Local interactions in neural networks explain global effects in Gestalt processing and masking**. *Neural Computation*, 15, 2091-2113.
- Herzog M.H., Schmonsees U., Fahle M. (2003). **Collinear contextual suppression**. *Vision Research*, 43, 2915-2925.
- Herzog M.H., Schmonsees U., Fahle M. (2003). **Timing of contextual interference in the shine-through effect**. *Vision Research*, 43, 2039-2051.
- Herzog M.H., Parish L., Koch C., Fahle M. (2003). **Fusion of competing features is not serial**. *Vision Research*, 43, 1951-1960.
- Ernst U., Etzold A., Herzog M.H., Eurich C. (2003). **Dynamics of neuronal populations modeled by a Wilson-Cowan system account for the transient visibility of masked stimuli**. *Neurocomputing*, 52-54, 747-753.
- Kammer T., Scharnowski, Herzog M.H. (2003). **Combining backward masking and transcranial magnetic stimulation in human observers**. *Neuroscience Letters*, 343, 171-174.
- Zhaoping L., Herzog M.H., Dayan P. (2003). **Nonlinear ideal observation and recurrent preprocessing in perceptual learning**. *Network*, 14, 233-247.

2002 and before

- Herzog M.H., Fahle M. (2002). **Effects of grouping in contextual modulation**. *Nature*, 415, 433-436.
- Herzog M.H., Koch C., Fahle M. (2001). **Shine-through: temporal aspects**. *Vision Research*, 41, 2337-2346.
- Herzog M.H., Koch C., Fahle M. (2001). **Switching binding states**. *Visual Cognition*, Vol. 8, 623-636.
- Herzog M.H., Fahle M., Koch C. (2001). **Spatial aspects of object formation revealed by a new illusion, shine-through**. *Vision Research*, 41, 2325-2335. Please read Erratum: *Vision Research*, 42, 271.
- Herzog M.H., Koch C. (2001). **Seeing properties of an invisible object: feature inheritance and shine-through**. *Proceedings of the National Academy of Science, USA*, 98, 4271-4275.
- Herzog M.H., Fahle M. (1999). **Effects of biased feedback on learning and deciding in a vernier discrimination task**. *Vision Research*, 39, 4232-4243.
- Herzog M.H., Fahle M. (1999). **A Recurrent Model for Perceptual Learning**. *Journal of Optical Technology*, 66, No. 9, 836-841. Publication available in Russian: *Opticheskii Zhurnal*, 66, No. 9, 85-92.
- Herzog M.H., Fahle M. (1998). **Modeling perceptual learning: difficulties and how they can be overcome**. *Biological Cybernetics*, 78, 107-117.
- Herzog M.H., Fahle M. (1997). **The role of feedback in learning a vernier discrimination task**. *Vision Research*, 37, 2133-2141.

Popular

- Esfeld M., Herzog M.H. (2005). **Wenn der Geist Kopf steht**. *Spektrum der Wissenschaft, Gehirn und Geist*, 11, 56-60.
- Herzog M.H., Ernst U., Eurich C.W. (2002). **Ein Kamel ist keine Palme**. *Spektrum der Wissenschaft, Gehirn und Geist*, 1, 11-13.
- Herzog M.H., Ernst U., Eurich C. (2004). **Getting the picture**. *Scientific American Mind Special Edition*, 14, 12-13. (English translation of Herzog M.H., Ernst U., Eurich C.W. (2002). **Ein Kamel ist keine Palme**. *Spektrum der Wissenschaft, Gehirn und Geist*, 1, 11-13).

Georgian publications

- Roinishvili M., Chkonia E., Brand A., Herzog M.H. (2007). **Feature fusion in the orientation domain**. *Proc. Georgian Acad. Sci., Biol. Ser. A*, 33, 217-222 (in English).
- Sharikadze M., Otto T., Herzog M. (2005). **The role of target and mask energy in visual feature integration. Part I: target energy**. *Proceedings of the Georgian Academy of Sciences, Biology Series A*, 31, 101-110 (in Georgian).
- Sharikadze M., Kezeli A., Herzog M. (2005). **The role of target and mask energy in visual feature integration. Part II: mask energy**. *Proceedings of the Georgian Academy of Sciences, Biology Series A*, 31, 449-457 (in Georgian).

Book chapters

- Herzog M.H. (2006). **The relationship of visual masking and basic object recognition in healthy observers and schizophrenic patients**. *The first half second*. MIT Press.
- Herzog M.H., Fahle M. (2002). **Top-down information and models of learning**. In: Fahle M., Poggio T.: *Perceptual Learning, a textbook*. MIT Press, Cambridge, MA, USA.
- Ernst U., Etzold A., Herzog M.H., Eurich C.W. (2002). **Object representation through transient neural dynamics**. *Dynamic Perception*. Eds. Wuertz R.P., Lappe M. Infix. Berlin, Amsterdam.

Book Reviews

- Herzog M.H. (2001). Review on **"Beyond Neurotransmission"**, Edited by Paul S. Katz, 1999, Oxford University Press.

Anthropologischer Anzeiger, 59, 285-287.

Encyclopedias

- Herzog M.H. (2009). **Binding Problem**. In: M.Binder, N.Hirokawa and U. Windhorst (eds.) *Encyclopedia of Neuroscience*, 1 (A-C) 388-391, Springer Science and Business Media.
- Herzog M.H., Otto T.U. (2009). **Feature Inheritance**. In: T. Bayne, A. Cleeremans, P. Wilken (Eds.): *The Oxford Companion to Consciousness*. Oxford University Press.

Workshops

- Herzog M.H. (2008). **Top-down processes in perceptual learning**. *First international workshop on perceptual learning*, 14.-19.10. Beijing.
- Herzog M.H. (2003). **Dynamics of feature binding and figure ground segmentation of schizophrenic patients and healthy subjects**. *The first half second*. 1.-3.11.03 Houston.
- Herzog M.H. (2003). **Feature binding in the focus of attention**. *Munich Visual Search Symposium*, 6th-10th of June 2003.
- Herzog (2002). **Bringing the gap with electrodes? Explaining consciousness, empirical and conceptual issues**. Magdeburg 12-14.12.2002.
- Ernst U., Etzold A., Herzog, M.H., Eurich C.W. (2002). **Object Representation Through Transient Neural Dynamics**. *4th Workshop on Dynamic Perception*, Bochum, 2002.
- Herzog, M.H., Koch C., Fahle M. (2000). **The first milliseconds of human information processing**. *Workshop on Aspects of Neuronal Dynamics*. 5.-9.4.2000, Bremen.
- Herzog, M.H., Koch C. (2000). **Switching between binding states: feature inheritance and shine-through**. *Symposium of neural binding of space and time*. 16.-18.3.2000, Leipzig.

Theses

- Herzog M.H. (2002). **Figure-Ground-Segmentation, feature binding, and contextual modulation investigated with the feature inheritance and the shine-through effect** (in German). Habilitation Thesis, University of Bremen.
- Herzog M.H. (1996). **Mathematical models and experiments on perceptual learning** (in German). Ph.D. Thesis, University of Tübingen.
- Herzog M.H. (1993). **New Approaches to Intentionality and Representation** (in German). Final Thesis in Philosophy 1993, University of Tübingen.
- Herzog M.H. (1992). **Automorphism groups of Hamming Graphs** (in German). Final Thesis in Mathematics 1992, University of Tübingen. 2.

Abstracts

2009

- Herzog M.H., Tartaglia E.M., Bamert L., Mast F. (2009). **Perceptual learning by mental imagery**. *Journal of Vision*, 9(8):855, 855a.
- Sayim B., Grubert M., Krummenacher J., Herzog M.H. (2009). **Modulation of Attentional Capture by Display Probabilities in Visual Search**. *Perception* 38, ECVF, Supplement 7.
- Sayim B., Westheimer G., Herzog M.H. (2009). **Contextual Modulation and Gestalt**. *Swiss Psychological Society 2009, Interactions: Real and Virtual*, 34.
- Roinishvili M., Chkonia E., Kezeli A., Brand A., Herzog M.H. (2009). **Deteriorated backward masking in schizophrenic patients and their relatives**. *Proceedings of the XXXVI International Congress of Physiological Sciences (IUPS2009)*. Function of Life: Elements and Integration, July 27–August 1, Kyoto, Japan.
- Sayim B., Grubert M., Krummenacher J., Herzog M.H. (2009). **Modulation of Attentional Capture by Display Probabilities in Visual Search**. *Perception* ??, ECVF Supplement, ??.

2008

- Saarela T.P., Sayim B., Westheimer G., Herzog M.H. (2008). **Crowding is modulated by global stimulus configuration**. *Perception* 37, ECVF Supplement, 171.
- Sayim B., Herzog M.H., Westheimer G. (2008). **Grouping explains contextual modulation in low level vision**. *Perception* 37, ECVF Supplement, 81.
- Tartaglia E., Åberg K.C., Herzog M.H. (2008). **When does roving disrupt perceptual learning?** *Perception* 37, ECVF Supplement, 136.
- Herzog M.H., Tartaglia E., Bamert L., Mast F. (2008). **Perceptual learning by mental imagery**. *Perception* 37, ECVF Supplement, 138.
- Boi M., Otto T.U., Ögmen H., Herzog M.H. (2008). **Non-retinotopic motion induced by a Ternus-Pikler display**. *Perception* 37, ECVF Supplement, 40.
- Rüter J., Scharnowski F., Lironi N., Kammer T., Herzog M.H. (2008). **Transcranial magnetic stimulation (TMS) of early visual but not frontal cortices reveals a feature memory of substantial duration**. *3rd International Conference on TMS and tDCS*, October 1-4, 2008, Göttingen, Germany.
- Herzog M.H., Boi M., Ögmen H., Krummenacher J. (2008). **Where are the feature maps?** *Second International Symposium on Visual Search and Selective Attention*, 105, Fribourg (Murten), Switzerland.
- Sayim B., Grubert A., Herzog M.H., Krummenacher J. (2008). **Top-down modularity of attentional capture by a salient color singleton onset distractor**. *Second International Symposium on Visual Search and Selective Attention*, 127, Fribourg (Murten), Switzerland.
- Sayim B., Herzog M.H., Westheimer G. (2008). **The influence of perceptual grouping on visual contextual modulation**. *XXIX International Congress of Psychology*, Berlin, Germany.
- Herzog M.H., Hermens F., Francis G. (2008). **Modeling both spatial and temporal aspects of visual microgenesis**. *XXIX International Congress of Psychology*, Berlin, Germany.
- Mercier M., Plomp G., Otto T.U., Blanke O., Herzog M.H. (2008). **Selective Attention and feature integration in motion displays, an EEG study**. *Alpine Brain Imaging Meeting, January 13-17*, Champéry, Switzerland.
- Otto T.U., Ögmen H., Herzog M.H. (2008). **Non-retinotopic feature integration and the role of attention**. *Second International Symposium on Visual Search and Selective Attention*, July 16-19, Fribourg, Switzerland.
- Crisinel A., Plomp G., Herzog M.H. (2008). **Motion grouping prevents individual access to features in human vision**. *FENS Abstr.*, vol. 4, 190.6.
- Otto T.U., Ögmen H., Herzog M.H. (2008). **Feature integration across space, orientation, and time in human vision**. *FENS Abstr.*, vol. 4, 190.12.
- Sayim B., Westheimer G., Herzog M.H. (2008). **Visual contextual modulation by figural grouping**. *FENS Abstr.*, vol 4, 190.15.
- Tartaglia E., Aaberg K.C., Herzog M.H. (2008). **Stimulus interference in visual perceptual learning in roving conditions**. *FENS Abstr.*, vol 4, 190.16.
- Åberg K.C., Tartaglia E.M., Herzog M.H. (2008). **Hyperacuity learning requires a minimal intensity of training**. *FENS Abstr.*, vol 4, 220.1.
- Boi M., Otto T.U., Ögmen H., Herzog M.H. (2008). **Integration of contrast across non-retinotopic locations**. *FENS Abstr.*, vol. 4, 220.4.
- Marcille N., Rüter J., Herzog M.H., Gerstner W. (2008). **Modelling feature-integration in human vision with drift diffusion models**. *FENS Abstr.*, vol 4, 220.9.
- Rüter J., Scharnowski F., Kammer T., Herzog M.H. (2008). **How TMS and (light) masks modulate feature integration**. *FENS Abstr.*, vol.4, 220.13.
- Saarela T.P., Sayim B., Westheimer G., Herzog M.H. (2008). **Crowding in human vision is modulated by global stimulus configuration**. *FENS Abstr.*, vol. 4, 220.14.
- Åberg K.C., Tartaglia E.M., Herzog M.H. (2008). **Perceptual learning requires a minimal number of trials per session, but no sleep**. *Journal of Vision*, 8(6):1130, 1130a.
- Rüter J., Scharnowski F., Kammer T., Herzog M.H. (2008). **How TMS and stimulus off/on signals modulate feature integration**. *Journal of Vision*, 8(6): 357, 357a.
- Sayim B., Westheimer G., Herzog M.H. (2008). **Figural grouping affects contextual modulation in low level vision**. *Journal of Vision*, 8(6):436, 436a.
- Saarela T., Sayim B., Westheimer G., Herzog M.H. (2008). **Configural modulation of crowding**. *Journal of Vision*, 8(6):435, 435a.
- Tartaglia E., Åberg K.C., Herzog M.H. (2008). **Roving in perceptual learning: stimulus interference and overlapping neural populations**. *Journal of Vision*, 8(6):479, 479a.

- Rüter J., Scharnowski F., Kammer T., Herzog M.H. (2008). **How TMS and (light) masks modulate feature integration.** *Alpine Brain Imaging Meeting*, January 13-17, Champéry, Switzerland.
 - Sayim B., Westheimer G., Herzog M.H. (2008). **Der Einfluss von Gruppierung auf visuo-kontextuelle Modulation.** *Tagung experimentell arbeitender Psychologen*, Marburg, 181.
- 2007**
- Saarela T. P., Sayim, B., Westheimer G., Herzog M. H. (2007). **Modulation of crowding by stimulus configuration.** *Tvärrinne, Finland*.
 - Sayim B., Herzog M.H., Westheimer G. (2007). **Contextual modulation of vernier thresholds by chromaticity-based grouping mechanisms.** *Journal of Vision*, 7(9), 907a.
 - Saarela T., Herzog M. (2007). **Temporal characteristics and surround modulation of contrast masking.** *Journal of Vision*, 7(9), 258a.
 - Rüter J., Scharnowski F., Herzog M.H. (2007). **Modulation of feature fusion by visual masking.** *Journal of Vision*, 7(9), 382.
 - Scharnowski F., Rüter J., Jolij J., Hermens F., Kammer T., Herzog M.H. (2007). **Transcranial magnetic stimulation of early visual cortex reveals a window of integration of substantial duration.** *Journal of Vision*, 7(9), 1016.
 - Herzog M., Duangudom V., Francis G. (2007). **Spatial layout determines metacontrast masking.** *Journal of Vision*, 7(9):1015.
 - Rüter J., Scharnowski F., Jolij J., Hermens F., Kammer T., Herzog M.H. (2007). **Transcranial Magnetic Stimulation of Early Visual Cortex Reveals a Window of Integration of Substantial Duration.** *4th Annual Meeting of the Lemanic Neuroscience Programs*, September 11-15, Les Diablerets, Switzerland.
 - Otto T.U., Ogmen H., Herzog M.H. (2007). **When features go around the corner in human vision.** *Journal of Vision*, 7(9), 915a.
 - Brand A., Chkonia E., Roinishvili M., Herzog M.H. (2007). **Backward Masking: a potential endophenotype for schizophrenia.** *1st European Conference on Schizophrenia Research*.
 - Roinishvili M., Chkonia E., Kezeli A., Brand A., Herzog M.H. (2007). **Backward masking as an endophenotype of schizophrenia.** *2nd Annual EPFL Life Sciences Symposium (LSS07)*, 29-31 August 2007, Lausanne, Switzerland.
 - Sayim B., Westheimer G., Herzog M.H. (2007). **Grouping by color and its effects on contextual modulation.** *2nd Annual EPFL Life Sciences Symposium (LSS07)*, Lausanne, Switzerland, 83.
 - Saarela T.P., Herzog, M.H. (2007). **Time-course and surround modulation of contrast masking.** *2nd Annual EPFL Life Sciences Symposium (LSS07)*, Lausanne, Switzerland.
 - Ogmen H., Aydin M., Herzog M.H. (2007). **Differential perceived speeds explain the apparent compression in slit viewing.** *Journal of Vision*, 7(9), 213.
 - Aydin M., Herzog M.H., Ogmen H. (2007). **Compression in slit viewing occurs not in space but at object level.** *Journal of Vision*, 7(9), 197.
 - Hermens F., Scharnowski F., Herzog M.H. (2007). **Feature integration independent of awareness.** *'Blinks of the Mind'*, Amsterdam (The Netherlands).
 - Sayim B., Herzog M.H., Westheimer G. (2007). **Kontextuelle Modulation von Vernier-Schwellen durch farbinduzierte Gruppierungsmechanismen.** *Tagung experimentell arbeitender Psychologen*, Trier, 36.
 - Roinishvili M., Chkonia E., Kezeli A., Brand A., Herzog M.H. (2007). **Deteriorated backward masking in healthy relatives of schizophrenic patients.** *SSP 2007: Differences, Diversity and Change*, 89.
 - Åberg K.C., Tartaglia E., Herzog M.H. (2007). **Can roving in perceptual learning be explained by overlapping populations of neuron?** *SSP 2007: Differences, Diversity and Change*, 89.
 - Boi M., Otto T.U., Ogmen H., Herzog M.H. (2007). **Non-retinotopic feature attribution: everything moves, but not everything fuses.** *SSP 2007: Differences, Diversity and Change*, 84.
 - Sayim B., Herzog M.H., Westheimer, G. (2007). **How grouping by color and contrast affects contextual modulation.** *SSP 2007: Differences, Diversity and Change*, 81.
 - Herzog M.H., Åberg K.C., Tartaglia E. (2007). **Top-down and bottom-up processing in perceptual learning.** *SSP 2007: Differences, Diversity and Change*, 76.
 - Tartaglia E., Åberg K.C., Herzog M.H. (2007). **A top-down driven model of perceptual learning.** *SSP 2007: Differences, Diversity and Change*, 54.
 - Boi M., Otto T.U., Ogmen H., Herzog M.H. (2007). **Feature attribution of Gabors and faces in the Ternus-Pikler display.** *Perception Supplement*, 36, 85.
- 2006**
- Brand A., Chkonia E., Roinishvili M., Herzog M.H. (2006). **Visual Backward Masking: an Endophenotype of Schizophrenia?** *INS/SVNP/GNP Meeting Zürich*.
 - Chkonia E., Roinishvili M., Herzog M.H., Brand A. (2006). **Perceptual vs. Cognitive Deficits as Potential endophenotypes of Schizophrenia.** *6th Conference on Cognitive Neuropsychiatry*, Bremen, Germany, 8-9.12.2006.
 - Herzog M.H., Roinishvili, M., Brand, A. (2006). **Top-down and bottom-up processing in schizophrenic patients.** *6th Conference on Cognitive Neuropsychiatry*, Bremen, 8-9.12.2006.
 - Hermens F., Scharnowski F., Herzog M.H. (2006). **Visual grouping: Temporal and spatial interactions.** *Dag van de Perceptie*, TNO Soesterberg, The Netherlands.
 - Sayim B., Herzog M.H. (2006). **Effects of contextual elements on vernier thresholds in peripheral vision.** *Perception* 35, ECVP Supplement, 45.
 - Herzog M.H., Duangudom V., Francis G. (2006). **The spatial layout and not the target-mask energy ratio determines backward masking.** *Perception Supplement*, 35, 66.
 - Roinishvili M., Chkonia E., Kezeli A., Herzog M.H., Brand A. (2006). **Complex contextual suppression in schizophrenia patients.** *Perception Supplement*, 35, 135.
 - Malania M., Herzog M.H., Westheimer G. (2006). **Grouping of contextual elements that affect Vernier thresholds in the human fovea.** *Perception Supplement*, 35, 174.
 - Saarela T. P., Herzog M. H. (2006). **Centre-surround interactions in backward masking.** *Perception Supplement* 35, 45-46.
 - Tartaglia E., Tabin G., Otto T.U., Herzog M.H. (2006). **Matching response to stimulus alternatives in perceptual learning.** *Perception Supplement*, 35, 41-42.
 - Parkosadze K., Otto T.U., Malania M., Kezeli A., Herzog M.H. (2006). **Perceptual learning in roving conditions: Slow but specific.** *Perception Supplement*, 35, 40-41.
 - Otto T.U., Ogmen H., Herzog M.H. (2006). **What is masked in masking?** *Perception Supplement*, 35, 67.
 - Otto T.U., Ogmen H., Herzog M.H. (2006). **The visible trace of invisible elements.** *Conference "Visual masking and the dynamics of vision and consciousness"*, Hanse-Wissenschaftskolleg Delmenhorst.
 - Herzog M.H., Duangudom V., Otto T.U. (2006). **Spatial grouping and visual backward masking.** *Conference "Visual masking and the dynamics of vision and consciousness"*, Hanse-Wissenschaftskolleg Delmenhorst.
 - Overmey L.S., Blanke O., Herzog M.H. (2006). **Perceptual differences in tennis players and triathletes: Superiority of tennis players in time-related tasks.** *6th World Conference "The Engineering of Sport" (ISEA)*, 11-14 July, Munich, Germany.
 - Overmey L.S., Blanke O., Herzog M.H. (2006). **Perceptual differences in tennis players and triathletes: Superiority of tennis players in time-related tasks.** *11th annual Congress of the European College of Sport Science (ECSS)*, 5-8 July, Lausanne, Switzerland.
 - Scharnowski F., Herzog M.H. (2006). **Contextual Modulation and Feature Integration.** In: H. Hecht, S. Berti, G. Meinhardt, M. Gamer (Eds.), *Experimentelle Psychologie. Beiträge zur 48. Tagung experimentell arbeitender Psychologen* (pp.59). Lengerich: Pabst Science Publishers.
 - Herzog M.H., Hermens F., Saarela T.P. (2006). **Grouping and Contextual Modulation.** In: H. Hecht, S. Berti, G. Meinhardt, M. Gamer (Eds.), *Experimentelle Psychologie. Beiträge zur 48. Tagung experimentell arbeitender Psychologen* (pp.58). Lengerich: Pabst Science Publishers.
 - Otto T.U., Zhaoping L., Fahle M., Herzog M.H. (2006). **Perceptual learning with spatial uncertainties: models and experiments.** *EPFL-LATSIS Symposium "Dynamical Principles for Neuroscience and Intelligent Biomimetic Devices"*, Lausanne, 8-10. March 2006.
 - Aydin M., Herzog M.H., Ogmen H. (2006). **The investigation of compression effects in slit viewing.** *2006 ECE Graduate Research Conference*, University of Houston, Houston, TX, March 31st, 2006.
 - Holzer L., Halfon O., Jaugey L., Herzog M.H. (2006). **Deficit of Early Information Processing in Adolescents with Psychotic Disorders Revealed by Visual Backward Masking.** *Biological Psychiatry*, 59, 8, Suppl. 1, P234S, 766.
 - Holzer L., Jaugey L., Halfon O., Herzog M.H. (2006). **Deficit of Early Information Processing in Adolescents with Psychotic Disorders Revealed by Visual Backward Masking.** *Schizophrenia Research*, 81, Suppl. 1, 219-220.
- 2005**
- Dombrowe I., Hermens F., Herzog M.H. (2005). **The role of spatial layout in visual masking.** *Proceedings of the 10th winter conference of the Dutch Psychonomic Society*.
 - Hermens F., Dombrowe I., Herzog M.H. (2005). **What determines the strength of a mask?** *Proceedings of the 10th winter conference of the Dutch Psychonomic Society*.
 - Aydin M., Herzog M.H., Ogmen H. (2005). **Motion-induced grouping guides feature attribution.** *Third Annual GCC Conference on Theoretical & Computational Neuroscience*.
 - Roinishvili M., Chkonia E., Kezeli A., Brand A., Herzog M.H. (2005). **Deficits of visual information processing in schizophrenic patients and their healthy relatives.** *Perception Supplement*, 34, 68-69.
 - Malania M., Otto T.U., Parkosadze K., Kezeli A., Herzog M.H. (2005). **Perceptual learning: No improvement under roving?** *Perception Supplement*, 34, 75.

- Sharikadze M., Fahle M., Herzog M.H. (2005). **Attention and feature integration**. *Perception Supplement*, 34, 181.
- Herzog M.H., Ogmen H. (2005). **Where features go to in human vision**. *Perception Supplement*, 34, 46.
- Schamowski F., Hermens F., Herzog M.H. (2005). **Why the Temporal Order of Events Determines Feature Integration**. *Perception Supplement*, 34, 129-130.
- Hermens F., Sharikadze M., Herzog M.H. (2005). **Visual backward masking: Effects of mask homogeneity**. *Perception Supplement*, 34, 107.
- Otto T.U., Herzog M.H. (2005). **Grouping Based Feature Transportation**. *Perception Supplement*, 34, 201.
- Hermens F., Herzog M.H. (2005). **A one-layer Wilson-Cowan type model of visual masking**. Ninth International Conference on *Cognitive and Neural Systems*.
- Ogmen H., Herzog M.H. (2005). **Spatio-temporal integration in grouping-based feature attribution**. *Journal of Vision*, 5(8), 960a.
- Hermens F., Luksys G., Gerstner W., Herzog M.H. (2005). **Visual backward masking: Feed-forward or recurrent?** *Journal of Vision*, 5(8), 764a.
- Schamowski F., Herzog M.H. (2005). **Feature integration is determined by the temporal order of events**. *Journal of Vision*, 5(8), 761a.
- Otto T.U., Herzog M.H. (2005). **Transporting features**. *Journal of Vision*, 5(8), 502a.
- Herzog M.H., Ogmen H. (2005). **Perceptual grouping induces real-time remapping of retinotopy**. *Journal of Vision*, 5(8), 498a.
- Herzog M.H., (2005). **Visuelle Maskierung: feedforward oder rekurrent?** 47. *Tagung experimentell arbeitender Psychologen*, 80.
- Schamowski F., Herzog M.H. (2005). **Time Will Tell: The Temporal Order of Events Determines Feature Integration**. In: *Bülthoff HH, Mallot HA, Ulrich R, Wichmann FA (eds): Beiträge zur 8. Tübinger Wahrnehmungskonferenz*, 202, Knirsch Verlag, Kirchentellinsfurt, Germany.
- Brand A, Herzog M.H. (2005). **Early visual processing in schizophrenia: Intact and deficient processes**. *5th Conference on Cognitive Neuropsychiatry*, Nijmegen.

2004

- Herzog M.H., Marbach S., Brand A. (2004). **Intact and deficient visual information processing in schizophrenic patients**. *European Archives of Psychiatry and Clinical Neuroscience, Suppl.*, 13.
- Brand A., Kopmann S., Herzog M.H. (2004). **Subgroups of schizophrenia determined by backward masking**. *European Archives of Psychiatry and Clinical Neuroscience, Suppl.*, 17.
- Giersch A., Herzog M.H. (2004). **Lorazepam strongly prolongs visual information processing, but not diazepam**. *8ème congrès de la Société Française de Pharmacologie, Strasbourg 26-28 avril 2004*, 269.
- Herzog M. (2004). **Grouping and contextual modulation**. 46. *Tagung experimentell arbeitender Psychologen*, 112.
- Herzog M. (2004). **Collinear Suppression**. *Tuebingener Wahrnehmungskonferenz*, 188.
- Rüter J., Herzog M., Kammer T. (2004). **Probing Feature Binding by TMS and Light Masking**. *Tuebingener Wahrnehmungskonferenz*, 111.

2003

- Rüter J., Kabisch C., Herzog M., Kammer T. (2003). **Probing Feature Binding by TMS and Light Masking**. *Neurowissenschaftliche Nachwuchskonferenz, Hindelang-Oberjoch*, 20.
- Brand A., Marbach S., Herzog M.H. (2003). **Feature fusion - a binding process - is not impaired in schizophrenia**. *4th Conference on Cognitive Neuropsychiatry*, Bochum.
- Herzog M.H. (2003). **Spatial grouping determines temporal integration**. *Regionalkolloquium zur Kognitionspsychologie, Braunschweig*.
- Sharikadze M., Kezeli A., Fahle M., Herzog M.H. (2003). **Feature mis-localization and attentional binding**. *Proceedings of EuroCogSci 03, Osnabrueck*, 439.
- Rüter J., Kabisch C., Herzog M., Kammer T. (2003). **Probing Feature Binding by TMS and Light Masking**. *Proceedings of EuroCogSci 03, Osnabrueck*, 432.
- Otto T., Fahle M., Herzog M.H. (2003). **The Time Course of Feature Integration**. *Proceedings of EuroCogSci 03, Osnabrueck*, 425.
- Land R., Schumann F., Scholz J., Helduser C., Carl C., Schindler S., Corves C., Lesemann E., Herzog M.H. (2003). **Ultra-fast object segmentation**. *Proceedings of EuroCogSci 03, Osnabrueck*, 411.
- Herzog M.H. (2003). **Collinear Suppression**. *Proceedings of EuroCogSci 03, Osnabrueck*.
- Ganseforth L.-M., Herzog M.H. (2003). **Precise feature binding during the first few milliseconds of visual information processing**. *Proceedings of EuroCogSci 03, Osnabrueck*, 386.
- Frehe P., Cichy R., Wolf T., Dombrowe I., Goldbach M., Nortmann N., Wittenberg C., Stoessel C., Sinke C., Herzog M. (2003). **Localizing Collinear Suppression**. *Proceedings of EuroCogSci 03, Osnabrueck*, 385.
- Sharikadze M., Otto T., Kezeli A.R., Fahle M., Herzog M.H. (2003). **The time course of visual feature binding**. *Perception Supplement*, 32, 116a.
- Herzog M.H., Schmonsees U., Fahle M. (2003). **Collinear contextual suppression**. *Perception Supplement*, 32, 115a
- Herzog M.H., Fahle M. (2003). **Kontextuelle Gestalt bestimmt kontextuelle Modulation**. 45. *Tagung experimentell arbeitender Psychologen, Kiel*, 88b.

2002 and before

- Otto T., Sharikadze M., Herzog M. (2002). **The time course of feature binding**. Conference "Cognitive and emotional neuroscience", Hanse-Wissenschaftskolleg Delmenhorst, 4.-6.12.2002.
- Lesemann E., Ganseforth L.M., Herzog M. (2002). **Ultra-precise object grouping**. Conference "Cognitive and emotional neuroscience", Hanse-Wissenschaftskolleg Delmenhorst, 4.-6.12.2002.
- Kabisch C., Land R., Herzog M. (2002). **Ultra-fast object segmentation**. Conference "Cognitive and emotional neuroscience", Hanse Wissenschaftskolleg Delmenhorst, 4.-6.12.2002. **Best poster prize awarded**.
- Herzog M.H. (2002). **Grouping determines contextual modulation**. *Symposium: Logic and Creativity*. University of Osnabrueck.
- Ernst U., Etzold A., Herzog M.H., Eurich C.W. (2002). **Transient activation of neuronal populations in a cortical model accounts for the transient visibility of masked stimuli**. *Society of Neuroscience*.
- Zhaoping L., Dayan P., Herzog M.H., (2002). **Positional variation in perceptual learning: Quadratic ideal observation, recurrent preprocessing and transfer**. *Perception Supplement*, 31, 94A.
- Herzog M.H., Zhaoping L. (2002). **Decreasing suppression of target visibility by increasing the number of suppressors**. *Perception Supplement*, 31, 93C.
- Herzog M.H., Fahle M. (2002). **Grouping rather than orientation determines contextual modulation**. *Journal of Vision*, 2(7), 709.
- Francis G., Herzog M.H. (2002). **Testing quantitative neural models of backward masking**. *Proceedings of the sixth ICCNS*.
- Herzog M.H., Fahle M., (2002). **Illusionäre Illusionen**. *Beitraege zur 5. Tuebinger Wahrnehmungskonferenz*.
- Ernst U., Etzold A., Eurich C., Herzog M.H. (2002). **Transiente Merkmalsbindung und raumzeitliche Aktivitätsdynamik in einem Modell des visuellen Kontext**. *Die Frühjahrstagung der Deutschen Physikalischen Gesellschaft in Regensburg, Germany (Symposium Physik im Hirn)*.
- Brand A., Groeger T., Kopmann S., Knak S., Herzog M.H. (2001). **Deficits of early visual processing in schizophrenia**. *Negative Symptoms in Schizophrenia and Organic Brain Disease*.
- Axel Etzold, Christian Eurich, Michael Herzog, Udo Ernst (2001). **Shine-through — dynamical effects**. *1st Symposium of the Volkswagen-Stiftung: Dynamics and Adaptivity of Neuronal Systems- Integrative Approaches to Analyzing Cognitive Functions*.
- Brand A., Herzog M.H. Groeger T. (2001). **Nicht-semantisches visuelles Backward Masking zeigt Defizite der visuellen Verarbeitung bei schizophrenen Stoerungen**. *Gesundheitswesen in Bremen*.
- Herzog M.H., Otto T., Fahle M., (2001). **Freud, snared, and integrated features**. *Perception Supplement*, 30.
- Herzog M.H., Fahle M., (2001). **First is Best**. *First Vision Sciences Conference*.
- Eurich C. W., Bormann R., Herzog M.H. (2001). **A dynamical system approach to emerging visibility as found in the shine-through effect**. *Proceedings of the fifth ICCNS*, #33.
- Herzog M.H., Fahle M., (2001). **First is Best**. *Journal of Vision*, 1(3), 49a. (also: **Erster Bester**, *Beitraege zur 4. Tuebinger Wahrnehmungskonferenz*, 53)
- Kammer T., Herzog M.H., (2001). **Discrimination determined by detection: a TMS study of visual perception**. *Beitraege zur 4. Tuebinger Wahrnehmungskonferenz*, 63.
- Herzog M.H., Koch C., Fahle M. (2000). **Aspects of the first milliseconds of human information processing**. *Perception Supplement*, 29, 59a.
- Fahle M., Ewald K.R.F., Herzog M.H. (2000). **Learning of faulty information?** *Investigative Ophthalmology & Visual Science*, 41/4, No. 243.
- Herzog M.H., Koch C. (2000). **Seeing an invisible element: feature inheritance and shine-through**. *Investigative Ophthalmology & Visual Science*, 41/4, No. 2329.
- Heinrich S.P., Herzog M.H., Koch C., Fahle M. (2000). **Ein unsichtbares Element sehen: Merkmalsvererbung und Merkmalsreise**. (Seeing an invisible element: feature inheritance and traveling features). *Beitraege zur 3. Tuebinger Wahrnehmungskonferenz*, 64.
- Spang K.M., Herzog M.H., Holland-Moritz A., Stein M., Fahle M. (2000). **Suppression learning of masking elements is not orientation specific**. *Investigative Ophthalmology & Visual Science*, 41/4.
- Herzog M.H., Mahmud S.M., Koch C., Fahle M. (2000). **Ein unsichtbares Element sehen: der Durchscheineffekt**. (Seeing an

invisible element: the shine-through effect.)

- Herzog M.H., Koch C., Fahle M. (1999). **How attention modulates the inheritance of invisible features.** *First Conference on Cognitive Neuroscience*, Bremen.
- Herzog, M.H., Parish L.S., Koch C. (1999). **How invisible properties of a prime determine the visible ones of a mask.** *Perception Supplement*, 28, 35b.
- Herzog, M.H., Koch C. (1999). **How a Conscious Percept can Inherit a Property of an Invisible Prime.** *Proceedings of the 3rd Annual Conference of the Association for the Scientific Study of Consciousness(ASSC)*.
- Herzog M.H., Broos A.H., Fahle M. (1999). **Practicing a vernier discrimination task with non-uniformly distributed stimuli influences decision but not learning processes.** *Investigative Ophthalmology & Visual Science*, 40/4, No. 3077.
- Ewald K.R., Herzog M.H., Fahle, M. (1999). **Vollkommene Plastizität beim perzeptuellen Lernen?** *Beiträge zur 2. Tübinger Wahrnehmungskonferenz*.
- Stein M., Herzog M.H., Fahle M. (1999). **Perzeptuelles Lernen: Hilft Vorwissen?** *Beiträge zur 2. Tübinger Wahrnehmungskonferenz*.
- Herzog M.H., Fahle M. (1999). **Ein Modell für Perzeptuelles Lernen, das Top-down Einflüsse erklären kann.** *Beiträge zur 2. Tübinger Wahrnehmungskonferenz*.
- Herzog M.H., Broos A., Fahle M. (1998). **Practicing a vernier discrimination task with non-uniformly distributed stimuli.** *Perception Supplement*, 27, 155c.
- Herzog M.H., Fahle M. (1998b). **A new model of Perceptual Learning Which Incorporates Top-down Influences.** *European Journal of Neuroscience*, 10 (Suppl.10), 176.04.
- Holland-Moritz A., Herzog M.H., Fahle M. (1998). **Störelemente und perzeptuelles Lernen** (Perceptual Learning with Flanks). *Beiträge zur 1. Tübinger Wahrnehmungskonferenz*.
- Broos A., Herzog M.H., Fahle M. (1998). **Perzeptuelles Lernen mit nicht gleichverteilter Reizquelle** (Perceptual Learning with a non uni-formly distributed stimulus source). *Beiträge zur 1. Tübinger Wahrnehmungskonferenz*.
- Herzog M.H., Fahle M. (1998a). **Modelle und Probleme des perzeptuellen Lernens** (Models and Problems of Perceptual Learning). *Beiträge zur 1. Tübinger Wahrnehmungskonferenz*.
- Herzog M.H., Fahle M. (1997b). **Neural Networks cannot explain perceptual learning.** *Proceedings of the 25th Goettingen Neurobiology Conference 1997* No. 1041; (Eds) Elsner N., Breer H., Thieme Stuttgart.
- Herzog M.H., Fahle M. (1997a). **Effects of biased feedback on learning and deciding in a vernier discrimination task.** *Investigative Ophthalmology & Visual Science* No. 38/4/4460.
- Herzog M.H., Fahle M. (1996c). **Networks and learning.** 2nd Meeting of the European Neuroscience Association (ENA), 119.04 (replacing T. Poggio's talk).
- Herzog M.H., Fahle M. (1996b). **Biased Decision Criteria in Vernier Discrimination.** *Perception Supplement*, 25, 139b.
- Herzog M.H., Fahle M. (1996a). **Perceptual Learning is Not Caused By Fine Tuning of Receptive Fields Alone.** *Investigative Ophthalmology & Visual Science* No. 37/3/3181.
- Herzog M.H. Fahle M. (1995b). **A recurrent model for learning a hyperacuity task.** *Perception Supplement*, 24, 84a.
- Herzog M.H., Fahle M. (1995a). **The role of feedback in learning a hyperacuity task.** *Investigative Ophthalmology & Visual Science* No. 36/4/1775.
- Herzog M.H., Fahle M. (1994). **Learning without attention?** *Proceedings of the 22nd Goettingen Neurobiology Conference 1994, Volume II, No. 817*; (Eds) Elsner N., Breer H., Thieme Stuttgart.

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