

Prof. Dr. habil. Michael Schaefer - Publikationen

Zeitschriftenbeiträge:

- Flor, H., Denke, C., **Schaefer, M.** & Grüsser, S.M. (2001). Effect of sensory discrimination training on cortical reorganisation and phantom limb pain. *Lancet*, 357, 1763-4.
- Grüsser, S.M., Winter, C., **Schaefer, M.**, Fritzsche, K., Benhidjeb, T., Tunn, P.-U., Schlag, P.M. & Flor, H. (2001). Perceptual phenomena after unilateral arm amputation: a pre-post-surgical comparison. *Neuroscience Letters*, 302, 13-6.
- **Schaefer, M.**, Mühlnickel, W., Grüsser, S.M. & Flor, H. (2002). Reproducibility and stability of neuroelectric source imaging in primary somatosensory cortex. *Brain Topography*, 14, 179-189.
- **Schaefer, M.**, Mühlnickel, W., Grüsser, S.M. & Flor, H. (2002). Reliability and validity of neuroelectric source imaging in primary somatosensory cortex of human upper limb amputees. *Brain Topography* 15, 95-106.
- Grüsser, S.M., Mühlnickel, W., **Schaefer, M.**, Villringer, K., Christmann, C., Koeppel, C., Flor, H. (2004). Remote activation of referred phantom sensation and cortical reorganization in human upper extremity amputees. *Experimental Brain Research* 154, 97-102.
- **Schaefer, M.**, Heinze, H.-J., Rothmund, Y., Rotte, M. (2004). Short time plasticity of the primary somatosensory cortex during tool use: a MEG study, *NeuroReport* 15, 1293-1297.
- **Schaefer, M.**, Noennig, N., Karl, A., Heinze, H.-J., Rotte, M. (2004). Reproducibility and stability of neuromagnetic source imaging in primary somatosensory cortex, *Brain Topography*, 17, 47-53.
- **Schaefer, M.**, Flor, H., Heinze, H.-J., Rotte, M. (2005). Dynamic shifts in the organization of primary somatosensory cortex induced by bimanual spatial coupling of motor activity, *NeuroImage*, 25, 395-400.

- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2005). Viewing touch improves tactile sensory threshold. *NeuroReport*, 16, 367-370.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2005). Seeing the hand being touched modulates the primary somatosensory cortex. *NeuroReport*, 13, 1101-1115.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2005). Task-relevant modulation of primary somatosensory cortex suggests a prefrontal-cortical sensory gating system. *NeuroImage*, 17, 130-135.
- Rothmund, Y., **Schaefer, M.**, Grüsser, S.M., Flor, H. (2005). Localization of the human female breast in primary somatosensory cortex, *Experimental Brain Research*, 164, 357-364.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2006). Fooling your feelings: Artificially induced referred sensations are linked to the primary somatosensory cortex. *NeuroImage*, 29, 67-73.
- **Schaefer, M.**, Flor, H., Heinze, H.-J., Rotte, M. (2006). Dynamic modulation of the primary somatosensory cortex during seeing and feeling a touched hand. *NeuroImage*, 29, 587-592.
- **Schaefer, M.**, Tewes, U., T.F. Münte, Johannes, S. (2006). Lateralized irrelevant speech alters visuospatial selective attention mechanisms in humans. *Biological Psychology*, 72, 51-58.
- **Schaefer, M.** (2006). Die Repräsentation von Marken im Gehirn. *Planung und Analyse*, 8, 46-49.
- **Schaefer, M.**, Heinze, H.-J., Berens, H., Rotte, M. (2006). Neural correlates of culturally familiar brands of car manufacturers. *NeuroImage*, 31, 861-865.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2006). Effects of unilateral hippocampal sclerosis on verbal memory formation, *NeuroReport*, 17, 1219-1223.
- Karl, A., **Schaefer, M.**, Malta, L.S., Dörfel, D., Rohleder, N., Werner, A. (2006). Hippocampal dysfunction in PTSD. A meta-analytic review of volumetric and proton magnetic resonance spectroscopy studies, *Neuroscience and Biobehavioural Reviews*, 30, 1004-1031.

- **Schaefer, M.**, Rotte, M. (2007). Favorite brands as cultural objects modulate reward circuit, *NeuroReport*, 18, 141-145.
- **Schaefer, M.**, Flor, H., Heinze, H.-J., Rotte, M. (2007). Morphing the body: illusory feeling of an elongated arm affects somatosensory homunculus. *NeuroImage* 36, 700-705.
- **Schaefer, M.**, Rotte, M. (2007). Thinking on luxury or pragmatic brand products: brain responses to different categories of culturally based brands, *Brain Research* 1165, 98-104.
- **Schaefer, M.** (2008). Dem Gehirn beim Denken zuschauen. Was Neuromarketing kann. *Research & Results*, 2, 2008.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2008). Seeing the hand bigger than it is: Observing the touched body magnified alters somatosensory homunculus. *NeuroReport*, 19, 901-905.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2008). My third arm: feeling an artificial supernumerary arm changes topography of the homunculus. *Human Brain Mapping*, 30, 1413-1421.
- **Schaefer, M.**, Dziobek, E., Schulze, W. (2008). Aspirin im Kernspintomograph: Neuromarketing für OTC-Marken. *Planung & Analyse*, 2, 33-37.
- Rumpel, F., Knuth, M., **Schaefer, M.** (2008). Neural correlates for price involvement in purchase decisions with regards to fast-moving-consumer-goods. FEMM Working Paper No. 33, Otto-von-Guericke-University Magdeburg.
- **Schaefer, M.**, Xu, B., Flor, H., Cohen, L.G. (2009). Effects of different viewing perspectives on somatosensory activations during observation of touch. *Human Brain Mapping*, 30, 1413-1420.
- Dörfel, D., Werner, A., **Schaefer, M.**, von Kummer, R., Karl, A. (2009). Distinct brain networks in recognition memory share a defined region in the precuneus. *European Journal of Neuroscience*, 30, 1947-1959.

- **Schaefer, M.**, Rotte, M. (2010). Combining a semantic differential with fMRI to investigate brands as cultural symbols. *Social, Cognitive and Affective Neuroscience*, 5, 274-281.
- **Schaefer, M.**, Heinze, H.-J., Galazky, I. (2010). Alien hand syndrome: Neural correlates of movements without conscious will, *PloS One*, 5, e15010.
- Rumpel, F., Knuth, M., **Schaefer, M.** (2010). FMCG aktivieren kortikale Belohnungsareale. *Neuropsychoeconomics*, 2, 28-33.
- Dörfel, D., Werner, A., **Schaefer, M.**, Karl, Anke (2010). Pilot neuroimaging study in civilian trauma survivors - episodic recognition memory, hippocampal volume, and posttraumatic stress disorder symptom severity. *Zeitschrift für Psychologie*, 218, 128-134.
- **Schaefer, M.**, Knuth, M., Rumpel, F. (2011). Striatal response to favorite brands as a function of neuroticism and extraversion. *Brain Research*, 1425, 83-89.
- Oltmanns, K.M., Heldmann, M., Daul, S., Klose, S., Rotte, M., **Schaefer, M.**, Heinze, H.-J., Münte, T.F., Lehnert, H. (2012). Sibutramine promotes amygdala activity under fasting conditions in obese women. *Psychopharmacology*, 221, 693-700.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2012). Embodied empathy for tactile events: Interindividual differences and vicarious somatosensory responses during touch observation. *NeuroImage*, 60, 952-957.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2012). Touch and personality: Extraversion predicts somatosensory brain response. *Neuroimage*, 62, 432-438.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. (2012). Close to you: Embodied simulation for peripersonal space in primary somatosensory cortex. *PLoS ONE*, 7, e42308.
- **Schaefer, M.** Heinze, H.-J., Galazky, I (2013). Waking up the alien hand: rubber hand illusion interacts with alien hand syndrome. *Neurocase*, 19, 371-376.

- **Schaefer, M.**, Konczak, F., Heinze, H.-J., Rotte, M. (2013). Referral of touch and ownership between the hands and the role of the somatosensory cortices. *PloS ONE*, 8, e52768.
- **Schaefer, M.**, Knuth, M., Rumpel, F. (2013). Wer sind die treuesten Kunden? Markenloyalität und Persönlichkeit aus Sicht der Hirnforschung. *Planung und Analyse*, 2, 63-66.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M., Denke, C. (2013). Communicative versus strategic rationality: Habermas theory of communicative action and the social brain. *PloS ONE*, 8, e65111.
- **Schaefer, M.**, Rotte, M., Heinze, H.-J., Denke, C. (2013). Mirror-like brain responses to observed touch and personality dimensions. *Frontiers in Human Neuroscience*, 7, e3.
- **Schaefer, M.**, Denke, C., Heinze, H.-J., Rotte, M. (2014). Rough primes and rough conversation: Evidence for a modality-specific basis to mental metaphors. *Social Cognitive and Affective Neuroscience* 9, 1653-1659.
- Denke, C., Heinze, H.-J., Rotte, M., **Schaefer, M.** (2014). Belief in a just world is associated with activity in insula and somatosensory cortices as a response to the perception of norm violations. *Social Neuroscience* 9, 514-521.
- **Schaefer, M.**, Rumpel, F., Sadrieh, A., Reimann, M., Denke, C. (2015). Personal involvement is related to increased search motivation and associated with activity in left BA44 – a pilot study. *Frontiers in Human Neuroscience* 9, 144.
- **Schaefer, M.**, Rotte, M., Heinze, H.-J., Denke, C. (2015). Dirty deeds and dirty bodies: Embodiment of the Macbeth effect is mapped topographically onto the somatosensory cortex. *Scientific Reports* 5, 18051.
- **Schaefer, M.**, Denke, C., Apostolova, I., Heinze, H.J., Galazky, I. (2016). A case of right alien hand syndrome coexisting with right-sided tactile extinction. *Frontiers in Human Neuroscience* 10, 105.

- Denke, C., Heinze, H.-J., Rotte, M., **Schaefer, M.** (2016). Lying and the subsequent desire for toothpaste: activity in somatosensory cortex predicts embodiment of the moral-purity metaphor. *Cerebral Cortex* 26, 477-488.
- **Schaefer, M.**, Harke, R., Denke, C. (2016). Open-label placebos improve symptoms in allergic rhinitis: A randomized controlled trial. *Psychotherapy and Psychosomatics* 85, 373-374.

Buchkapitel:

- **Schaefer, M.** Der Irrelevant Speech Effect [The irrelevant speech effect]. In: U. Tewes & K. Wildgrube, *Psychologie-Lexikon*, [Dictionary of Psychology], Oldenbourg, 1999.
- **Schaefer, M.** Neuroeconomics - in search of the neural representation of brands. *Progress of Brain Research: Cultural Neuroscience – Cultural influences on brain function*, 2009.
- **Schaefer, M.** From physical representation to social perception: A new role for the primary somatosensory cortex. *Somatosensory Cortex: Roles, Interventions and Traumas*, Ed.: Niels Johnsen and Rolf Agerkov, 2009.
- **Schaefer, M.** Touch and body: A role for the somatosensory cortex in establishing an early form of identity. *Body image: Perceptions, Interpretations and Attitudes*, Ed.: Frank Columbus, 2010.

Bücher:

Schaefer, M. Body on mind - A new look at the somatosensory cortices. Nova Science, New York (2010).

Präsentationen auf internationalen Kongressen:

- W. Mühlnickel, **M. Schaefer**, A. Karl, H. Flor, Modeling motor evoked potentials, *Berlin Neuroscience Forum*, Bogensee / Berlin 1999.
- **M. Schaefer**, U. Tewes, T.F. Münte, S. Johannes, Effects of irrelevant speech on early visual processing, *Conference on Cognitive Neuroscience*, Bremen 1999.
- **M. Schaefer**, W. Mühlnickel, S.M. Grüsser, H. Flor, Reliability and validity of neuroelectric source imaging in primary somatosensory cortex, *Third Berlin Workshop on Cortical Plasticity*, Berlin 2000.
- **M. Schaefer**, S.M. Grüsser, W. Mühlnickel, H. Flor. Neuroelectric source imaging in primary somatosensory cortex: reliability and validity, *Forum of European Neuroscience* 2000, Brighton.
- S.M. Grüsser, C. Winter, **M. Schaefer**, T. Benhidjeb, P.-U. Tunn, P.M. Schlag, H. Flor. Phantom phenomena and somatosensory representation in a pre-post-surgical comparison in amputees with and without pharmacological intervention, *Forum of European Neuroscience* 2000, Brighton.
- S.M. Grüsser, C. Winter, K. Fritzsche, **M. Schaefer**, T. Benhidjeb, P.-U. Tunn, P.M. Schlag, H. Flor, Phantom phenomena, cortical reorganization and the influence of pharmacological intervention during amputation in acute limb amputees, *Third Berlin Workshop on Cortical Plasticity*, Berlin 2000.
- **Schaefer, M.**, Denke, C., Mühlnickel, W., Flor, H. Differences in cortical reorganization in healthy subjects and phantom limb patients as a consequence of sensory discrimination training. *Society for Neuroscience*, San Diego 2001.
- **Schaefer, M.**, Flor, H., Heinze, H.-J., Rotte, M. Feeling an alien limb involves the primary somatosensory cortex. *Society for Psychophysiological Research*, Santa Fe 2004.
- **Schaefer, M.**, Rothemund, Y, Heinze, H.-J., Rotte, M. Dynamic shifts in the organization of primary somatosensory cortex induced by tool use. *Society for Neuroscience*, San Diego 2004.

- Flöel, A., Celnik, P., **Schaefer, M.**, Gingert, C., Garraux, G., Sawaki, L., Breitenstein, C., Knecht, S., Herscovitch, C., Cohen, L.G. Modulation of use-dependent plasticity with levodopa. A combined PET-TMS-approach. *Human Brain Mapping*, Budapest, 2004.
- Flöel, A., Garraux, G., Giraux, P., Hummel, F., **Schaefer, M.**, Breitenstein, C., Herscovitch, P., Knecht, S., Cohen, L.G. Dopaminergic influences on motor memory formation. A combined behavioural-TMS/PET study. *Cognitive Neuroscience Meeting*, New York, 2005.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. Task-relevant modulation of the primary somatosensory cortex: evidence for prefrontal-frontal sensory gating system. *Psychologie und Gehirn*, Bochum 2005.
- **Schaefer, M.**, Flor, H., Heinze, H.-J., Rotte, M. Projecting a sensation to an alien limb involves the somatosensory cortex. *6th IMRF Meeting*, Rovereto, Italien 2005.
- **Schaefer, M.**, Noennig, N., Heinze, H.-J., Rotte, M. Feeling a phantom: Referred sensations are linked to a modulation of the primary somatosensory cortex. *10th Human Brain Mapping*, Toronto, Kanada 2005.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. My third arm: feeling an artificial supernumerary arm changes topography of the homunculus. *9th IMRF Meeting*, Hamburg 2008.
- **Schaefer, M.**, Heinze, H.-J., Rotte, M. Interindividual differences and vicarious somatosensory responses during touch observation. *17th Human Brain Mapping*, Beijing, China, 2012.
- **Schaefer, M.**, Denke, C., Spies, C., Heinz, A., Ströhle, A., Cherkasskiy, L., Song, H., Bargh, J. Incidental haptic sensations influence judgment of crimes: neural underpinnings of embodied cognitions. *Cognitive Neuroscience Meeting*, 2017, San Francisco, USA.
- Denke, C., Spies, C., Heinz, A., Ströhle, A., Schäfer, M., **Schaefer, M.** Embodied empathy when judging crimes: Interindividual differences predict responses in somatosensory brain areas. *Cognitive Neuroscience Meeting*, San Francisco, USA, 2017.

- **Schaefer, M.,** Harke, R., Denke, C. Placebos without deception improve symptoms in allergic rhinitis. *Society for Interdisciplinary Placebo Studies*, Leiden, NL, 2017.

Eingeladene Vorträge:

- Descartes' Error revisited: Der somatosensorische Kortex und das Bodyimage. Vortrag an der Universität Leipzig, Allgemeine u. Biologische Psychologie, 2005.
- Approaches towards a social cognitive neuroscience: How does the brain deal with body perception and cultural objects? Vortrag am Center for Social Neuroscience, Groningen, Niederlande, 2005.
- Body perception und der somatosensorische Kortex. Vortrag an der Universität Hamburg, Biologische Psychologie, 2005.
- Social Neuroscience: Von Körperwahrnehmung über Spiegelneuronen zu Kultur. Vortrag an der Universität Dresden, Biologische Psychologie, 2005.
- Spiegelneuronen als Elementarteilchen des Sozialen? Vortrag am Berliner Zentrum für Zukunftsforschung, Berlin, 2006.
- Social Neuroscience. Vortrag am Max-Planck-Institut für Bildungsforschung, Berlin, 2006.
- Research and Results, Teilnahme an Podiumsdiskussion als Experte für Neuroökonomie, München, 2007.
- Brands and self-centered cognitions in fMRI. Vortrag an der Universität Sorbonne, Paris, 2008.
- Wie Marken im Gehirn wirken – Hirnforschung, selbstbezogene Kognitionen und Luhmannsche Systemtheorie. Vortrag an der Zeppelin-Universität, Friedrichshafen, 2009.
- Die Wahrnehmung des eigenen Körpers. Vortrag an der Universität Jena, 2009.

- Body in mind: From physical representation to social perception- about an area formerly known as the primary somatosensory cortex. Vortrag am College de France, Paris, Frankreich, 2010.
- „Fremde Hände“. Interview mit „das gehirn.info“, Juli, 2012.
- From physical representation to social perception – about an area formerly known as the primary somatosensory cortex. Vortrag in Xian, China, Mai 2013.
- Interaction of embodied cognition and social perception in the primary somatosensory cortex. Vortrag zur IMRF, Jerusalem, Israel, Juni 2013.
- Chair bei der IMRF, Jerusalem, Israel, Juni 2013.
- From physical representation to social perception. Vortrag am MPI Leipzig, Juni 2015.
- Keynote Speaker bei der Consumers Neuroscience, Association for Consumer Research Annual Conference, Berlin, 2016