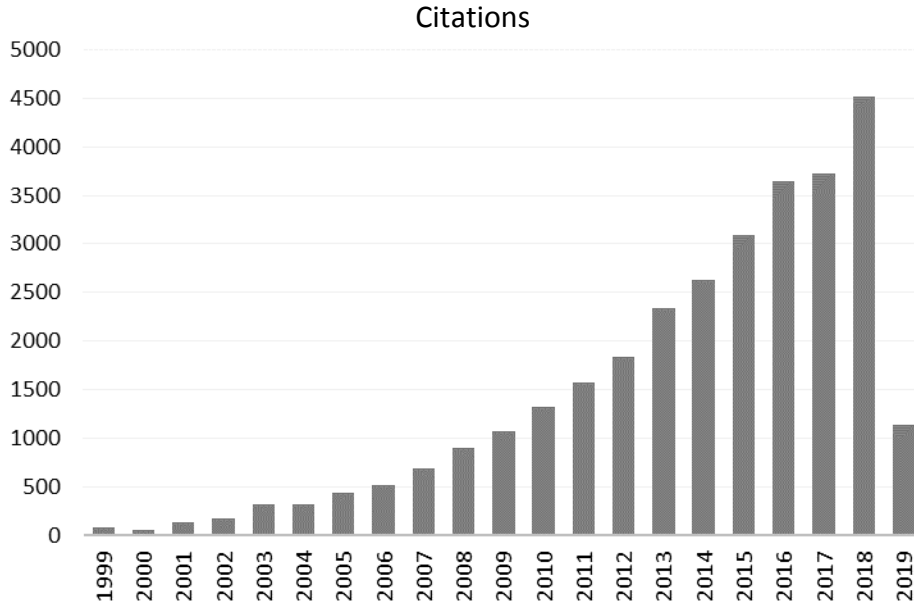


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Date of birth 28 January 1972

Education

2000 Ph.D. from Johann Wolfgang Goethe-University, Frankfurt, Medical School. Supervisor: Prof. Wolf Singer, Max Planck Institute for Brain Research, Frankfurt, Germany.

1998 M.D. from Johann Wolfgang Goethe-University, Frankfurt, Medical School, Frankfurt, Germany.

Professional experience Since 2009 Director of the Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Frankfurt, Germany.

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	1999 - 2001	Postdoctoral Research Fellow with Dr. Robert Desimone, Laboratory of Neuropsychology, National Institute of Mental Health, Bethesda, Maryland.
	1998 - 1999	Postdoctoral Research Fellow with Prof. Wolf Singer, Max Planck Institute for Brain Research, Department of Neurophysiology, Frankfurt, Germany.
	1998 - 1999	Residency at the Johann Wolfgang Goethe-University, Frankfurt, Medical School, Department of Psychiatry, Frankfurt, Germany.
Awards and Honors	2008	Boehringer Ingelheim FENS (Federation of European Neuroscience Societies) Research Award.
	2007	Bernhard Katz prize.
	2006	Membership in The Young Academy of The Royal Netherlands Academy of Arts and Sciences.
	2006	EURYI (European Young Investigator) Award from the European Science Foundation.
	2003	VIDI (Career development) award from The Netherlands Organization for Scientific Research (NWO).
	2001	Award for the best PhD thesis of the year 2000, Johann Wolfgang Goethe-University, Frankfurt, Medical School.
	2000	Graduate "Summa cum laude", Johann Wolfgang Goethe-University, Frankfurt, Medical School.
	1999 - 2001	Postdoctoral Fellowship award from the German National Scholarship Foundation / BASF.
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Papers in Refereed Journals (incl. 129 ISI-listed publications)	Talakoub, O., Sayegh, P. F., Womelsdorf, T., Zinke, W., Fries, P., Lewis, C. M., Hoffman, K. L. (2019) Hippocampal and Neocortical Oscillations Are Tuned to Behavioral State in Freely-Behaving Macaques. <i>bioRxiv</i> , 552877.	
	Peter, A., Uran, C., Klon-Lipok, J., Roese, R., van Stijn, S., Barnes, W., Dowdall, J. R., Singer, W., Fries, P. , Vinck, M. (2019) Surface Color and Predictability Determine Contextual Modulation of V1 Firing and Gamma Oscillations. <i>Elife</i> 8.	
	Rohenkohl, G., Bosman, C. A., Fries, P. (2018) Gamma Synchronization between V1 and V4 Improves Behavioral Performance. <i>Neuron</i> 100 (4), 953-963 e953.	
	van Pelt, S., Shumskaya, E., Fries, P. (2018) Cortical Volume and Sex Influence Visual Gamma. <i>Neuroimage</i> 178 , 702-712.	
	Fischer, P., Lipski, W., Neumann, W.-J., Turner, R. S., Fries, P. , Brown, P., Richardson, R. M. (2018) Cortico-Basal-Ganglia Communication: Temporally Structured Activity for Selective Motor Control. <i>bioRxiv</i> , 413286.	
	Hindriks, R., Micheli, C., Bosman, C. A., Oostenveld, R., Lewis, C., Mantini, D., Fries, P. , Deco, G. (2018) Source-Reconstruction of the Sensorimotor Network from	

Resting-State Macaque Electrocorticography. *Neuroimage*.

Pesaran, B., Vinck, M., Einevoll, G. T., Sirota, A., **Fries, P.**, Siegel, M., Truccolo, W., Schroeder, C. E., Srinivasan, R. (2018) Investigating Large-Scale Brain Dynamics Using Field Potential Recordings: Analysis and Interpretation. *Nature neuroscience*.

Spyropoulos, G., Bosman, C. A., **Fries, P.** (2018) A Theta Rhythm in Macaque Visual Cortex and Its Attentional Modulation. *Proceedings of the National Academy of Sciences of the United States of America* 115(24), E5614-E5623.

Hindriks, R., Schmiedt, J., Arsiwalla, X. D., Peter, A., Verschure, P., **Fries, P.**, Schmid, M. C., Deco, G. (2017) Linear Distributed Source Modeling of Local Field Potentials Recorded with Intra-Cortical Electrode Arrays. *PLoS One* 12(12), e0187490.

Caruso, L., Wunderle, T., Lewis, C. M., Valadeiro, J., Trauchessec, V., Trejo Rosillo, J., Amaral, J. P., Ni, J., Jendritza, P., Fermon, C., Cardoso, S., Freitas, P. P., **Fries, P.**, Pannetier-Lecoeur, M. (2017) In Vivo Magnetic Recording of Neuronal Activity. *Neuron* 95(6), 1283-1291 e1284.

Scheeringa, R., **Fries, P.** (2017) Cortical Layers, Rhythms and Bold Signals. *Neuroimage*.

Richter, C. G., Thompson, W. H., Bosman, C. A., **Fries, P.** (2017) Top-Down Beta Enhances Bottom-up Gamma. *Journal of Neuroscience* 37(28), 6698-6711.

Ni, J., Wunderle, Th., Lewis, C. M., Desimone, R., Diester, I., **Fries, P.** (2016) Gamma-rhythmic Gain Modulation. *Neuron* 92 (1), 240-251.

Sebastian, A., Jung, P., Neuhoff, J., Wibrall, M., Fox, P. T., Lieb, K., **Fries, P.**, Eickhoff, S. B., Tuscher, O., Mobascher, A. (2016) Dissociable Attentional and Inhibitory Networks of Dorsal and Ventral Areas of the Right Inferior Frontal Cortex: A Combined Task-Specific and Coordinate-Based Meta-Analytic Fmri Study. *Brain Structure and Function* 221(3), 1635-1651.

Maris, E., **Fries, P.**, van Ede, F. (2016) Diverse Phase Relations among Neuronal Rhythms and Their Potential Function. *Trends in Neuroscience* 39(2), 86-99.

de Pestors, A., Coon, W. G., Brunner, P., Gunduz, A., Ritaccio, A. L., Brunet, N. M., de Weerd, P., Roberts, M. J., Oostenveld, R., **Fries, P.**, Schalk, G. (2016) Alpha Power Indexes Task-Related Networks on Large and Small Scales: A Multimodal Ecog Study in Humans and a Non-Human Primate. *Neuroimage* 134, 122-131.

Michalareas, G., Vezoli, J., van Pelt, S., Schoffelen, J.M., Kennedy, H. and **Fries, P.** (2016) Alpha-beta and Gamma Rhythms Subserve Feedback and Feedforward Influences among Human Visual Cortical Areas. *Neuron* 89 (2), 384-397.

Lowet, E., Roberts, M. J., Bosman, C. A., **Fries, P.**, de Weerd, P. (2016) Areas V1 and V2 Show Microsaccade-Related 3-4 Hz Covariation in Gamma Power and Frequency. *European Journal of Neuroscience* 43(10), 1286-1296.

Levy, J., Vidal, J. R., **Fries, P.**, Démonet, J.-F., Goldstein, A. (2016) Selective Neural Synchrony Suppression as a Forward Gatekeeper to Piecemeal Conscious Perception. *Cerebral Cortex* 26(7), 3010-3022.

Lewis, C. M., Bosman, C. A., Womelsdorf, T., **Fries, P.** (2016) Stimulus-Induced Visual Cortical Networks Are Recapitulated by Spontaneous Local and Interareal Synchronization. *Proceedings of the National Academy of Sciences of the United States of America* **113**(5), E606-615.

Richter, C. G., Thompson, W. H., Bosman, C. A., **Fries, P.** (2015) A Jackknife Approach to Quantifying Single-Trial Correlation between Covariance-Based Metrics Undefined on a Single-Trial Basis. *Neuroimage* **114**, 57-70.

Bastos, A. M., Vezoli, J., Bosman, C. A., Schoffelen, J., Oostenveld, R., Dowdall, J. R., De Weerd, P., Kennedy, H., **Fries, P.** (2015) Visual Areas Exert Feedforward and Feedback Influences through Distinct Frequency Channels. *Neuron* **85**(2), 390-401.

Landau, A. N., Schreyer, H. M., van Pelt, S, **Fries, P.** (2015) Distributed Attention Is Implemented through Theta-Rhythmic Gamma Modulation. *Current Biology*. **25**(17), 2332-2337

Bastos, A. M., Litvak, V., Moran, R., Bosman, C., **Fries, P.**, Friston, K. J. (2015) A DCM study of spectral asymmetries in feedforward and feedback connections between visual areas V1 and V4 in the monkey. *NeuroImage* **108**, 460-475.

Bastos, A. M., Vezoli, J., **Fries, P.** (2015) Communication through Coherence with Inter-Areal Delays. *Current Opinion in Neurobiology* **31**, 173-180.

Lewis, C. M., Bosman, C. A., **Fries, P.** (2015) Recording of brain activity across spatial scales. *Current Opinion in Neurobiology* **32**, 68-77.

Vinck, M., Hurdeman, L., Bosman, C. A., **Fries, P.**, Battaglia, F. P., Pennartz, C. M., Tiesinga, P. H. (2015) How to Detect the Granger-Causal Flow Direction in the Presence of Additive Noise? *NeuroImage* **108**, 301-318.

Brunet, N., Bosman, C. A., Roberts, M., Oostenveld, R., Womelsdorf, T., De Weerd, P., **Fries, P.** (2015) Visual Cortical Gamma-Band Activity During Free Viewing of Natural Images. *Cerebral Cortex* **25**(4), 918-926.

van Ede, F., Van Pelt, S., **Fries, P.**, Maris, E. (2014) Both ongoing alpha and visually-induced gamma oscillations show reliable diversity in their across-site phase-relations. *Journal of Neurophysiology* **113**, 1556-63.

Brunet, N. M., Bosman, C. A., Vinck, M., Roberts, M., Oostenveld, R., Desimone, R., De Weerd, P., **Fries, P.** (2014) Stimulus Repetition Modulates Gamma-Band Synchronization in Primate Visual Cortex. *Proc Natl Acad Sci U S A* **111**(9), 3626-3631.

Brunet, N., Vinck, M., Bosman, C. A., Singer, W., **Fries, P.** (2014) Gamma or No Gamma, That Is the Question. *Trends Cogn Sci* **18**(10), 507-509.

Schmiedt, J. T., Maier, A., **Fries, P.**, Saunders, R. C., Leopold, D. A., Schmid, M. C. (2014) Beta Oscillation Dynamics in Extrastriate Cortex after Removal of Primary Visual Cortex. *J Neurosci* **34**(35), 11857-11864.

Pinotsis, D. A., Brunet, N., Bastos, A., Bosman, C. A., Litvak, V., **Fries, P.**, Friston, K. J. (2014) Contrast Gain-Control and Horizontal Interactions in V1: A DCM Study.

NeuroImage **92**, 143-155.

Vinck, M., Womelsdorf, T., Buffalo, E. A., Desimone, R., **Fries, P.** (2013) Attentional Modulation of Cell-Class-Specific Gamma-Band Synchronization in Awake Monkey Area V4. *Neuron* **80**(4), 1077-1089.

van Pelt, S., **Fries, P.** (2013) Visual Stimulus Eccentricity Affects Human Gamma Peak Frequency. *NeuroImage* **78**, 439-447.

Roberts, M. J., Lowet, E., Brunet, N. M., Ter Wal, M., Tiesinga, P., **Fries, P.**, De Weerd, P. (2013) Robust Gamma Coherence between Macaque V1 and V2 by Dynamic Frequency Matching. *Neuron* **78**(3), 523-536.

Nikolić, D., **Fries, P.**, Singer, W. (2013) Gamma Oscillations: Precise Temporal Coordination without a Metronome. *Trends in Cognitive Sciences* **17**(2), 54-55.

Maris, E., Womelsdorf, T., Desimone, R., **Fries, P.** (2013) Rhythmic Neuronal Synchronization in Visual Cortex Entails Spatial Phase Relation Diversity That Is Modulated by Stimulation and Attention. *NeuroImage* **74**, 99-116.

Levy, J., Vidal, J. R., Oostenveld, R., FitzPatrick, I., Demonet, J. F., **Fries, P.** (2013) Alpha-Band Suppression in the Visual Word Form Area as a Functional Bottleneck to Consciousness. *NeuroImage* **78**, 33-45.

Larson-Prior, L. J., Oostenveld, R., Della Penna, S., Michalareas, G., Prior, F., Babajani-Feremi, A., Schoffelen, J. M., Marzetti, L., de Pasquale, F., Di Pompeo, F., Stout, J., Woolrich, M., Luo, Q., Bucholz, R., **Fries, P.**, Pizzella, V., Romani, G. L., Corbetta, M., Snyder, A. Z., Consortium, W. U.-M. H. (2013) Adding Dynamics to the Human Connectome Project with Meg. *NeuroImage* **80**, 190-201.

Lange, J., Oostenveld, R., **Fries, P.** (2013) Reduced Occipital Alpha Power Indexes Enhanced Excitability Rather Than Improved Visual Perception. *Journal of Neuroscience* **33**(7), 3212-3220.

Jutras, M. J., **Fries, P.**, Buffalo, E. A. (2013) Oscillatory Activity in the Monkey Hippocampus During Visual Exploration and Memory Formation. *Proceedings of the National Academy of Sciences of the United States of America* **110**(32), 13144-13149.

Womelsdorf, T., Lima, B., Vinck, M., Oostenveld, R., Singer, W., Neuenschwander, S., **Fries, P.** (2012) Orientation Selectivity and Noise Correlation in Awake Monkey Area V1 Are Modulated by the Gamma Cycle. *Proceedings of the National Academy of Sciences of the United States of America* **109**(11), 4302-4307.

van Pelt, S., Boomsma, D. I., **Fries, P.** (2012) Magnetoencephalography in Twins Reveals a Strong Genetic Determination of the Peak Frequency of Visually Induced Gamma-Band Synchronization. *Journal of Neuroscience* **32**(10), 3388-3392.

Schmid, M. C., Singer, W., **Fries, P.** (2012) Thalamic Coordination of Cortical Communication. *Neuron* **75**(4), 551-552.

Landau, A. N., **Fries, P.** (2012) Attention Samples Stimuli Rhythmically. *Current Biology* **22**(11), 1000-1004.

- Friston, K. J., Bastos, A., Litvak, V., Stephan, K. E., **Fries, P.**, Moran, R. J. (2012) DCM for Complex-Valued Data: Cross-Spectra, Coherence and Phase-Delays. *NeuroImage* **59**(1), 439-455.
- Bosman, C. A., Schoffelen, J. M., Brunet, N., Oostenveld, R., Bastos, A. M., Womelsdorf, T., Rubehn, B., Stieglitz, T., De Weerd, P., **Fries, P.** (2012) Attentional Stimulus Selection through Selective Synchronization between Monkey Visual Areas. *Neuron* **75**(5), 875-888.
- Bastos, A. M., Usrey, W. M., Adams, R. A., Mangun, G. R., **Fries, P.**, Friston, K. J. (2012) Canonical Microcircuits for Predictive Coding. *Neuron* **76**(4), 695-711.
- Schoffelen, J. M., Poort, J., Oostenveld, R., **Fries, P.** (2011) Selective Movement Preparation Is Suberved by Selective Increases in Corticomuscular Gamma-Band Coherence. *Journal of Neuroscience* **31**(18), 6750-6758.
- Scheeringa, R., **Fries, P.**, Petersson, K. M., Oostenveld, R., Grothe, I., Norris, D. G., Hagoort, P., Bastiaansen, M. C. (2011) Neuronal Dynamics Underlying High- and Low-Frequency Eeg Oscillations Contribute Independently to the Human Bold Signal. *Neuron* **69**(3), 572-583.
- Oostenveld, R., **Fries, P.**, Maris, E., Schoffelen, J. M. (2011) Fieldtrip: Open Source Software for Advanced Analysis of Meg, Eeg, and Invasive Electrophysiological Data. *Computational Intelligence and Neuroscience* **2011**, 156869.
- Lange, J., Oostenveld, R., **Fries, P.** (2011) Perception of the Touch-Induced Visual Double-Flash Illusion Correlates with Changes of Rhythmic Neuronal Activity in Human Visual and Somatosensory Areas. *NeuroImage* **54**(2), 1395-1405.
- Landau, A., **Fries, P.** (2011) Detection Performance Is Modulated at a Low-Theta Selection Rhythm. *Journal of Vision* **11**(11), 170.
- Buffalo, E. A., **Fries, P.**, Landman, R., Buschman, T. J., Desimone, R. (2011) Laminar Differences in Gamma and Alpha Coherence in the Ventral Stream. *Proceedings of the National Academy of Sciences of the United States of America* **108**(27), 11262-11267.
- Vinck, M., van Wingerden, M., Womelsdorf, T., **Fries, P.**, Pennartz, C. M. A. (2010) The Pairwise Phase Consistency: A Bias-Free Measure of Rhythmic Neuronal Synchronization. *NeuroImage* **51**(1), 112-122.
- Vinck, M., Lima, B., Womelsdorf, T., Oostenveld, R., Singer, W., Neuenschwander, S., **Fries, P.** (2010) Gamma-Phase Shifting in Awake Monkey Visual Cortex. *Journal of Neuroscience* **30**(4), 1250-1257.
- van Elswijk, G., Majj, F., Schoffelen, J. M., Overeem, S., Stegeman, D. F., **Fries, P.** (2010) Corticospinal Beta-Band Synchronization Entails Rhythmic Gain Modulation. *Journal of Neuroscience* **30**(12), 4481-4488.
- Van Der Werf, J., Jensen, O., **Fries, P.**, Medendorp, W. P. (2010) Neuronal Synchronization in Human Posterior Parietal Cortex During Reach Planning. *Journal of Neuroscience* **30**(4), 1402-1412.
- Hoogenboom, N., Schoffelen, J. M., Oostenveld, R., **Fries, P.** (2010) Visually

Induced Gamma-Band Activity Predicts Speed of Change Detection in Humans. *NeuroImage* **51**(3), 1162-1167.

Engel, A. K., **Fries, P.** (2010) Beta-Band Oscillations - Signalling the Status Quo? *Current Opinion in Neurobiology* **20**(2), 156-165.

Buffalo, E. A., **Fries, P.**, Landman, R., Liang, H. L., Desimone, R. (2010) A Backward Progression of Attentional Effects in the Ventral Stream. *Proceedings of the National Academy of Sciences of the United States of America* **107**(1), 361-365.

Smith, M. L., **Fries, P.**, Gosselin, F., Goebel, R., Schyns, P. G. (2009) Inverse Mapping the Neuronal Substrates of Face Categorizations. *Cerebral Cortex* **19**(10), 2428-2438.

Rubehn, B., Bosman, C., Oostenveld, R., **Fries, P.**, Stieglitz, T. (2009) A Mems-Based Flexible Multichannel Ecog-Electrode Array. *Journal of Neural Engineering* **6**(3), 036003.

Koch, S. P., Werner, P., Steinbrink, J., **Fries, P.**, Obrig, H. (2009) Stimulus-Induced and State-Dependent Sustained Gamma Activity Is Tightly Coupled to the Hemodynamic Response in Humans. *Journal of Neuroscience* **29**(44), 13962-13970.

Jutras, M. J., **Fries, P.**, Buffalo, E. A. (2009) Gamma-Band Synchronization in the Macaque Hippocampus and Memory Formation. *Journal of Neuroscience* **29**(40), 12521-12531.

Fries, P. (2009) Neuronal Gamma-Band Synchronization as a Fundamental Process in Cortical Computation. *Annual Review of Neuroscience* **32**, 209-224.

Fries, P. (2009) The Model- and the Data-Gamma. *Neuron* **64**(5), 601-602.

Donner, T. H., Siegel, M., **Fries, P.**, Engel, A. K. (2009) Buildup of Choice-Predictive Activity in Human Motor Cortex During Perceptual Decision Making. *Current Biology* **19**(18), 1581-1585.

Bosman, C. A., Womelsdorf, T., Desimone, R., **Fries, P.** (2009) A Microsaccadic Rhythm Modulates Gamma-Band Synchronization and Behavior. *Journal of Neuroscience* **29**(30), 9471-9480.

Bauer, M., Oostenveld, R., **Fries, P.** (2009) Tactile Stimulation Accelerates Behavioral Responses to Visual Stimuli through Enhancement of Occipital Gamma-Band Activity. *Vision Research* **49**(9), 931-942.

Zeitler, M., **Fries, P.**, Gielen, S. (2008) Biased Competition through Variations in Amplitude of Gamma-Oscillations. *Journal of Computational Neuroscience* **25**(1), 89-107.

Van Der Werf, J., Jensen, O., **Fries, P.**, Medendorp, W. P. (2008) Gamma-Band Activity in Human Posterior Parietal Cortex Encodes the Motor Goal During Delayed Prosaccades and Antisaccades. *Journal of Neuroscience* **28**(34), 8397-8405.

Siegel, M., Donner, T. H., Oostenveld, R., **Fries, P.**, Engel, A. K. (2008) Neuronal Synchronization Along the Dorsal Visual Pathway Reflects the Focus of Spatial

Attention. *Neuron* **60**(4), 709-719.

Schoffelen, J. M., Oostenveld, R., **Fries, P.** (2008) Imaging the Human Motor System's Beta-Band Synchronization During Isometric Contraction. *NeuroImage* **41**(2), 437-447.

Fries, P., Womelsdorf, T., Oostenveld, R., Desimone, R. (2008) The Effects of Visual Stimulation and Selective Visual Attention on Rhythmic Neuronal Synchronization in Macaque Area V4. *Journal of Neuroscience* **28**(18), 4823-4835.

Fries, P., Scheeringa, R., Oostenveld, R. (2008) Finding Gamma. *Neuron* **58**(3), 303-305.

Womelsdorf, T., Schoffelen, J. M., Oostenveld, R., Singer, W., Desimone, R., Engel, A. K., **Fries, P.** (2007) Modulation of Neuronal Interactions through Neuronal Synchronization. *Science* **316**(5831), 1609-1612.

Womelsdorf, T., **Fries, P.** (2007) The Role of Neuronal Synchronization in Selective Attention. *Current Opinion in Neurobiology* **17**(2), 154-160.

Siegel, M., Donner, T. H., Oostenveld, R., **Fries, P.**, Engel, A. K. (2007) High-Frequency Activity in Human Visual Cortex Is Modulated by Visual Motion Strength. *Cerebral Cortex* **17**(3), 732-741.

Parkes, L. M., de Lange, F. P., **Fries, P.**, Toni, I., Norris, D. G. (2007) Inability to Directly Detect Magnetic Field Changes Associated with Neuronal Activity. *Magnetic Resonance in Medicine* **57**(2), 411-416.

Medendorp, W. P., Kramer, G. F., Jensen, O., Oostenveld, R., Schoffelen, J. M., **Fries, P.** (2007) Oscillatory Activity in Human Parietal and Occipital Cortex Shows Hemispheric Lateralization and Memory Effects in a Delayed Double-Step Saccade Task. *Cerebral Cortex* **17**(10), 2364-2374.

Maris, E., Schoffelen, J. M., **Fries, P.** (2007) Nonparametric Statistical Testing of Coherence Differences. *Journal of Neuroscience Methods* **163**(1), 161-175.

Fries, P., Nikolić, D., Singer, W. (2007) The Gamma Cycle. *Trends in Neurosciences* **30**(7), 309-316.

Donner, T. H., Siegel, M., Oostenveld, R., **Fries, P.**, Bauer, M., Engel, A. K. (2007) Population Activity in the Human Dorsal Pathway Predicts the Accuracy of Visual Motion Detection. *Journal of Neurophysiology* **98**(1), 345-359.

Zeitler, M., **Fries, P.**, Gielen, S. (2006) Assessing Neuronal Coherence with Single-Unit, Multi-Unit, and Local Field Potentials. *Neural Comput* **18**(9), 2256-2281.

Womelsdorf, T., **Fries, P.**, Mitra, P. P., Desimone, R. (2006) Gamma-Band Synchronization in Visual Cortex Predicts Speed of Change Detection. *Nature* **439**(7077), 733-736.

Womelsdorf, T., **Fries, P.** (2006) Neuronal Coherence During Selective Attentional Processing and Sensory-Motor Integration. *Journal of Physiology-Paris* **100**(4), 182-193.

Hoogenboom, N., Schoffelen, J. M., Oostenveld, R., Parkes, L. M., **Fries, P.** (2006) Localizing Human Visual Gamma-Band Activity in Frequency, Time and Space. *NeuroImage* **29**(3), 764-773.

de Wit, T. C., Bauer, M., Oostenveld, R., **Fries, P.**, van Lier, R. (2006) Cortical Responses to Contextual Influences in Amodal Completion. *NeuroImage* **32**(4), 1815-1825.

Bauer, M., Oostenveld, R., Peeters, M., **Fries, P.** (2006) Tactile Spatial Attention Enhances Gamma-Band Activity in Somatosensory Cortex and Reduces Low-Frequency Activity in Parieto-Occipital Areas. *Journal of Neuroscience* **26**(2), 490-501.

Schoffelen, J. M., Oostenveld, R., **Fries, P.** (2005) Neuronal Coherence as a Mechanism of Effective Corticospinal Interaction. *Science* **308**(5718), 111-113.

Liang, H., Bressler, S. L., Buffalo, E. A., Desimone, R., **Fries, P.** (2005) Empirical Mode Decomposition of Field Potentials from Macaque V4 in Visual Spatial Attention. *Biological Cybernetics* **92**(6), 380-392.

Fries, P. (2005) A Mechanism for Cognitive Dynamics: Neuronal Communication through Neuronal Coherence. *Trends in Cognitive Sciences* **9**(10), 474-480.

Parkes, L. M., **Fries, P.**, Kerskens, C. M., Norris, D. G. (2004) Reduced Bold Response to Periodic Visual Stimulation. *NeuroImage* **21**(1), 236-243.

Liang, H. L., Bressler, S. L., Ding, M. Z., Desimone, R., **Fries, P.** (2003) Temporal Dynamics of Attention-Modulated Neuronal Synchronization in Macaque V4. *Neurocomputing* **52-54**, 481-487.

Fries, P., Fernández, G., Jensen, O. (2003) When Neurons Form Memories. *Trends in Neurosciences* **26**(3), 123-124.

Fell, J., Fernández, G., Klaver, P., Elger, C. E., **Fries, P.** (2003) Is Synchronized Neuronal Gamma Activity Relevant for Selective Attention? *Brain Research Reviews* **42**(3), 265-272.

Schröder, J. H., **Fries, P.**, Roelfsema, P. R., Singer, W., Engel, A. K. (2002) Ocular Dominance in Extrastriate Cortex of Strabismic Amblyopic Cats. *Vision Research* **42**(1), 29-39.

Fries, P., Schröder, J. H., Roelfsema, P. R., Singer, W., Engel, A. K. (2002) Oscillatory Neuronal Synchronization in Primary Visual Cortex as a Correlate of Stimulus Selection. *Journal of Neuroscience* **22**(9), 3739-3754.

Fernández, G., Fell, J., **Fries, P.** (2002) Response: The Birth of a Memory. *Trends in Neuroscience* **25**(6), 281-282.

Fries, P., Schröder, J. H., Singer, W., Engel, A. K. (2001) Conditions of Perceptual Selection and Suppression During Interocular Rivalry in Strabismic and Normal Cats. *Vision Research* **41**(6), 771-783.

Fries, P., Reynolds, J. H., Rorie, A. E., Desimone, R. (2001) Modulation of Oscillatory Neuronal Synchronization by Selective Visual Attention. *Science* **291**(5508), 1560-1563.

Fries, P., Neuenschwander, S., Engel, A. K., Goebel, R., Singer, W. (2001) Rapid Feature Selective Neuronal Synchronization through Correlated Latency Shifting. *Nature Neuroscience* **4**(2), 194-200.

Engel, A. K., **Fries, P.**, Singer, W. (2001) Dynamic Predictions: Oscillations and Synchrony in Top-Down Processing. *Nature Reviews Neuroscience* **2**(10), 704-716.

Engel, A. K., **Fries, P.**, König, P., Brecht, M., Singer, W. (1999) Temporal Binding, Binocular Rivalry, and Consciousness. *Consciousness and Cognition* **8**(2), 128-151.

Engel, A. K., **Fries, P.**, König, P., Brecht, M., Singer, W. (1999) Does Time Help to Understand Consciousness? *Consciousness and Cognition* **8**(2), 260-268.

Singer, W., Kreiter, A. K., **Fries, P.**, Herculano, S., Volgushev, M., Neuenschwander, S. (1997) Temporal Binding, Binocular Rivalry, and Consciousness. *Target article for the third electronic seminar of the Association for the Scientific Study of Consciousness (ASSC)*.

Fries, P., Roelfsema, P. R., Engel, A. K., König, P., Singer, W. (1997) Synchronization of Oscillatory Responses in Visual Cortex Correlates with Perception in Interocular Rivalry. *Proceedings of the National Academy of Sciences of the United States of America* **94**(23), 12699-12704.

Engel, A. K., Roelfsema, P. R., **Fries, P.**, Brecht, M., Singer, W. (1997) Binding and Response Selection in the Temporal Domain - a New Paradigm for Neurobiological Research. *Theory in Biosciences* **116**(3), 241-266.

Engel, A. K., Roelfsema, P. R., **Fries, P.**, Brecht, M., Singer, W. (1997) Role of the Temporal Domain for Response Selection and Perceptual Binding. *Cerebral Cortex* **7**(6), 571-582.

Singer, W., Kreiter, A. K., Engel, A. K., **Fries, P.**, Roelfsema, P. R., Volgushev, M. (1996) Precise Timing of Neuronal Discharges within and across Cortical Areas: Implications for Synaptic Transmission. *Journal of Physiology-Paris* **90**(3-4), 221-222.

Other major publications

Womelsdorf, T., Landau, A. N., **Fries, P.** (2014) Attentional Selection through Rhythmic Synchronization at Multiple Frequencies. In: *The Cognitive Neurosciences* (Gazzaniga, M., eds), The MIT Press, Cambridge, MA, IV.

Vinck, M., Womelsdorf, T., **Fries, P.** (2013) Gamma-Band Synchronization and Information Transmission. In: *Principles of Neural Coding* (Quiroga, R.-Q., Panzeri, S., eds), CRC Press, 449-469.

Womelsdorf, T., **Fries, P.** (2011) Rhythmic Neuronal Synchronisation Suberves Selective Attentional Processing. In: *Characterizing Consciousness: From Cognition to the Clinic?* (Dehaene, S., Yves, C., eds), Springer, Berlin, 109-132.

Womelsdorf, T., **Fries, P.** (2009) Selective Attention through Selective Neuronal Synchronization. In: *The Cognitive Neurosciences* (Gazzaniga, M., eds), The MIT Press, Cambridge, MA, IV.

Fries, P., Desimone, R. (2005) Selective Visual Attention Modulates Oscillatory

Neuronal Synchronization. In: *Neurobiology of Attention* (Itti, L., Rees, G., Tsotsos, J. K., eds), Elsevier, San Diego, CA, 520-525.

Fries, P., Castelo-Branco, M., Engel, A. K., Singer, W. (2004) The Functional Role of Oscillatory Neuronal Synchronization for Perceptual Organization and Selection. In: *Binocular Rivalry* (Alais, D., Blake, R., eds), The MIT Press, Cambridge, 259-281.

Singer, W., Kreiter, A. K., **Fries, P.**, Herculano, S., Volgushev, M., Neuenschwander, S. (1998) The Putative Role of Precise Timing in Cortical Processing. In: *Basic Mechanisms in Cognition and Language* (Von Euler, C., Lundberg, I., Llinás, R., eds), Springer, Berlin, 57-64.

Engel, A. K., Brecht, M., **Fries, P.**, W., S. (1998) Zeitliche Bindung Und Der Aufbau Visueller Objektrepräsentationen [Temporal Binding and the Construction of Object Representations]. In: *Intelligente Informationsverarbeitung [Intelligent Information Processing]* (Kotkamp, U., Krause, W., eds), Deutscher Universitätsverlag, Wiesbaden, 193-200.

Service on boards/committees

Attention and Performance Advisory Council, International Association for the Study of Attention and Performance

Board of directors, Brain Imaging Center, Frankfurt University

Board of NeFF (LOEWE), the Neuronal Coordination Research Focus Frankfurt

Board of the Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Society

Perspectives Committee of the Biological-Medical Section of the Max Planck Society

MRC subcommittee on the MRC Anatomical Neuropharmacology Unit at the University of Oxford, Oxford, UK

Scientific Advisory Board of the Center for Brain Research, Medical University of Vienna

Scientific advisory board of the CORTEX LabEx consortium, Lyon, France

Scientific advisory board, European Neuroscience Institute, Göttingen

Grants

Title: **The physiology of distributed computing underlying higher brain functions in non-human primates.**

Granting body: German Research Foundation – DFG

Amount: 109.396 €

Awardees: Pascal Fries, as part of a consortium with a.o. Peter Thier and Stefan Treue

Time period: 2014-2017

Title: **Cell-type specific optogenetic manipulation for characterizing the role of inhibitory interneurons in motor cortex of non-transgenic animals.**

Granting body: German Research Foundation – DFG

Amount: 25.000 € (as part of 682.400 €)

Awardees: Pascal Fries, as part of a consortium with Ilka Diester, Christian Buchholz and Hannah Monyer

Time period: 2014-2017

Title: **The Human Brain Project**

Granting body: European Union, 7th framework program

Amount: 100.000 €

Awardees: Pascal Fries

Time period: 2013-2016

Title: **Magnetodes: Electromagnetic detection of neural activity at cellular resolution.**

Granting body: European Union, 7th framework program

Amount: 178.800 € (als Teil von 1.737.138 €)

Awardees: Pascal Fries, as part of a consortium with Myriam Pannetier-Lecoeur, Lauri Parkkonen, Paulo Freitas and Alain Destexhe

Time period: 2013 – 2016

Title: **Neuronal Coordination, Frankfurt NeFF.**

Granting body: Excellence initiative of the State of Hessen - LOEWE

Amount: 252.900 € (as part of 4.341.150 €)

Awardees: Pascal Fries, as part of a consortium with o.a. Ulf Ziemann

Time period: 2011-2013

Title: **Human Connectome Project**

Granting body: National Institutes of Health

Amount: 474,401 \$

Awardees: Pascal Fries

Time period: 2011-2015

Title: **Large scale interactions in brain networks and their breakdown in brain diseases.**

Granting body: European Union, 7th framework program

Amount: 445.261 € (as part of 2.978.242 €)

Awardees: Pascal Fries, as part of a consortium with Maurizio Corbetta, Jon Driver, Guy Orban, Andreas Engel, Jean-Philippe Lachaux, Gustavo Deco, Milan Palus

Time period: 2008-2011

Title: **BrainGain, Brain-Computer and Computer-Brain Interfaces.**

Granting body: The Netherlands Organization for Scientific Research, Smartmix

Amount: 607.500 € (as part of 14.685.446 €)

Awardees: Pascal Fries, as part of the BrainGain consortium

Time period: 2007-2012

Title: **Mechanisms of neuronal interactions and their cognitive top-down control.**

Granting body: The European Science Foundation, European Young Investigator (EURYI) award

Amount: 1.250.000 €

Awardees: Pascal Fries

Time period: 2007-2012

Title: **When neurons form memories: The role of oscillatory dynamics and synchronization.**

Granting body (grant number): Volkswagen Foundation (I/79876)

Amount: 254.661 € (as part of 709.036 €)

Awardees: Pascal Fries, as part of a consortium with Ole Jensen (F. C. Donders

Centre) and Jürgen Fell/Christian Elger/Guillén Fernández (University of Bonn & F. C. Donders Centre)

Time period: 2005-2008

Title: **Integrating distributed brain processes.**

Granting body (grant number): The Netherlands Organization for Scientific Research (NWO, 452-03-344), VIDI-program

Amount: 600.000 €

Awardee: Pascal Fries

Time period: 2004-2008

Title: **The role of neuronal synchrony in multi-modal integration.**

Granting body (grant number): The Human Frontier Science Program Organization (RGP0070/2003).

Amount: 360.000 US\$ (as part of 1.350.000 US\$)

Awardees: Pascal Fries, as part of a consortium with Shin Shimojo (Caltech), Alan Johnston (University College London), Partha Mitra (Cold Spring Harbor Laboratories)

Time period: 2004-2007

Title: **Cognitive modulation of neuronal dynamics in human action control.**

Granting body (grant number): The Netherlands Organization for Scientific Research (NWO, 051-02-050)

Amount: 151.000 € (as part of 755.000 €)

Awardees: Pascal Fries, as part of a consortium with Dick Stegeman, Stan Gielen (Radboud University Nijmegen), Peter Beek (Free University Amsterdam) and Inge Zijdewind (University of Groningen)

Time period: 2002-2006

Invited Lectures

2019 *Alpine Brain Imaging Meeting, Champéry, Switzerland, Sara Bowen*

2018 *Distinguished Lectures in Neuroprosthetics, EPFL CNP, Geneva, Switzerland, Friedhelm Hummel*

2nd Sino-German Symposium: Development and Maintenance of Brain Function: From Basic Mechanisms to Disease, Berlin, Germany, Wieland Huttner

Oxford Autumn School in Neuroscience, Oxford, UK, Peter Magill

6th Resting State and Brain Connectivity Meeting, Montreal, Canada, Amir Shmuel

FENS Satellite Symposium, Berlin, Germany, Andreas K. Engel

Biannual Meeting of SEPNECA, Madrid, Spain, Maria Ruz

1st International Workshop on Predictive Processing, San Sebastian, Spain, Craig Richter

1st Helsinki Brain Center Symposium, Helsinki, Finland, Satu Palva

MIT Picower/Aging Brain Initiative Symposium, Boston, USA, Li-Huei Tsai

- Physikalischer Verein, Frankfurt, Germany, Bruno Deiss*
- M3 Meeting, Primate Neurobiology Conference, Tübingen, Germany, Peter Thier*
- 2017 *Gairdner Symposium, Toronto, Canada, Ronald Pearlman*
- Colloquium, Freie Universität Berlin, Germany, Radoslaw Cichy*
- Bernstein Symposium, Berlin, Germany, Margret Franke*
- Annual Bernstein Conference, Göttingen, Germany, Eleonora Russo*
- Conference MCB BrainPlast, Magdeburg, Germany, Adrian Fischer*
- COFEES- Cortical Feedback Spring School, Jena, Germany, Gyula Zoltán Kovács*
- MEG UK 2017, Oxford, U.K., Aimie Gornall*
- 2016 *M-Bic Lecture, Maastricht University, Maastricht, the Netherlands, Peter de Weerd*
- Symposium, "Top-down control and transcranial manipulation of neuronal oscillations", Donders Institute, Nijmegen, The Netherlands, Tom Marshall*
- INS 2016, Baiona, Spain, Peter Hagoort*
- Bernstein Sparks Workshop, LMU Munich, Tutzing, Anton Sirota*
- Seminar, "Seminars in Neurogenetics", MPI for Experimental Medicine, Göttingen, Germany, Klaus-Armin Nave*
- Society for Psychophysiological Research (SPR) Annual Meeting 2016, Minneapolis, U.S.A., Sarah Laszlo*
- BrainDisC PhD Conference, Freiburg, Germany, Golan Karvat*
- Research Colloquium, LMU, München, Germany, Paul Sauseng*
- The Salk Institute for Biological Studies, La Jolla, U.S.A., John Reynolds*
- California Institute of Technology, Pasadena, U.S.A.*
- CEU Departmental Colloquium talk, Budapest, Hungary, József Fiser*
- Magyar Tudományos Akadémia (MTA), Budapest, Hungary, Tamás Freund*
- 2015 *ABC (Amsterdam Brain & Cognition) Lectures, University of Amsterdam, Amsterdam, The Netherlands, Conrado Bosman*

- INCF meeting, Leuven, Belgium, Vim Vanduffel*
- Workshop „Magnetodes“, Lisbon, Portugal, co-organizer*
- Seminar, University of Zurich, Zurich, Switzerland, Fritjof Helmchen*
- Workshop, “Analysis and Modulation of Brain Networks”, Hamburg, Germany, Andreas K. Engel*
- Brain Conference on Bridging Neural Mechanisms and Cognition, Copenhagen, Denmark, Stan Dehaene*
- 59. Annual Meeting Deutsche Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Tübingen, Germany, Niels Focke*
- Caesar, Center of Advanced European Studies and Research, Bonn, Germany, Jason Kerr*
- Symposium „Neural rhythms and their modulation“, Berlin, Germany, Uwe Heinemann*
- Conference „Brain dynamics in the primate brain“, NeuroSpin, Paris, France, Béchir Jarraya*
- 2014 *International BMFZ Meeting 2014, Biomedical Research Centre, Heinrich Heine University Düsseldorf, Germany, Alfons Schnitzler*
- CNBC Colloquium, SNI/CNBC, University of Pittsburgh, Pittsburgh, USA, Alona Fyshe*
- 7th International Workshop on Advances in Electroencephalography, Washington, DC, USA, Gerwin Schalk*
- Max Planck UCL Symposium and Advanced Course on Computational Psychiatry and Ageing Research, Schloss Ringberg, Germany, Ulman Lindenberger and Ray Dolan*
- Keynote lecture at the Annual Meeting of the Society for Neurobiology of Language (SNL), Amsterdam, The Netherlands, Peter Hagoort*
- 20th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Symposium “Intracranial Electrophysiology of Resting State Networks”, Hamburg, Germany, Josef Parvizi*
- IST Young Scientist Symposium 2014: “Synchronize! Clocks, Rhythms and Communication across the sciences“, Institute of Science and Technology (IST), Klosterneuburg, Austria, Daniel Cipek*
- Yale School of Medicine, New Haven, USA, David McCormick and Jessica Cardin*
- New York University, New York, USA, György Buzsáki*
- Neuroscience Seminar, University Paris Descartes / Institute for*

- Neuroscience and Cognition, Paris, France, Rebecca Piskorowski*
- Workshop "Connections & Communications in the Brain", Banbury Conference Center Cold Spring Harbor Laboratory, Cold Spring Harbor, USA, Nicolas Brunel*
- SAN/NIHC 2014, Research Institute Brainclinics, Utrecht University, Utrecht, The Netherlands, Martijn Arns*
- 2013 *BCCN Seminar, Center for Computational Neuroscience, Heidelberg, Germany, Demanuele Charmaine*
- Hanse-Wissenschaftskolleg, Delmenhorst, Germany, Reto Weiler
University of Osnabrück, Osnabrück, Germany, Peter König*
- BrainLinks-BrainTools, University of Freiburg, Freiburg, Germany, Simone Cardoso*
- Course "Frontiers in Cognitive Neuroscience", Karolinska Institutet, Stockholm, Sweden, Fredrik Ullén*
- Workshop „Oxford Oscillations“, University of Oxford, Oxford, UK, Kia Nobre*
- Donders Summer School "Brain Networks and Neuronal Communication", Nijmegen, The Netherlands*
- Workshop "New Visual Neurosciences", Lake Tahoe, USA, Jack Werner and Leo Chalupa*
- School of Medicine, Stanford University, Stanford, USA, Joseph Parvizi*
- Brown University, Providence, USA, Christopher Moore*
- Workshop "Rhythms Collaborative", Boston University, Boston, USA, Nancy Kopell*
- Ecole Normale Supérieure de Lyon, Lyon, France, Jean-René Duhamel
French Society for Neuroscience Meeting, Lyon, France, Philippe Vernier*
- Friedrich Miescher Institute, Basel, Switzerland, Pico Caroni*
- University of Copenhagen, Copenhagen, Denmark, Per Ebbe Roland
Workshop "Rhythms and Oscillations", Columbus, USA, Carmen Canavier*
- Primate Neurobiology Meeting, Göttingen, Germany, Stefan Treue
Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK, Joachim Gross*
- Chaucer Club at MRC CBSU, Cambridge University, Cambridge, UK, Duncan Astle*
- 2012 *Workshop "4th International Workshop on Advances in Electroencephalography", SfN 2012, New Orleans, U.S.A., Gerwin Schalk*

- Neuroscience Student Invited Speaker Series at the University of California, Berkeley, USA, Asako Miyakawa*
- University of California San Francisco, Edward Chang*
- Workshop "Orienting of Attention", Tübingen, Germany, Hans-Otto Karnath*
- Conference "Cellular Mechanisms of Sensory Processing", Göttingen, Germany, Tobias Moser*
- CRNL Inaugural Meeting, Lyon, France, Olivier Bertrand*
- SFB "Multi-site Communication in the Brain", Hamburg, Germany, Andreas Engel*
- Neurobiology of Cognition, Gordon Research Conferences, Lucca (Barga, Italy, Charles E. Schroeder)*
- Neurowissenschaftliches Kolloquium Aachen, Germany, Thomas Haarmeier*
- MEG Symposium, McGovern Institute for Brain Research, MIT, Bob Desimone and Charles Jennings*
- The Annual Meeting of the British Neuropsychiatry Association, London, UK, Adam Zeman*
- Mainzer FTN (Forschungsschwerpunkt Translationale Neurowissenschaften), Mainz, Germany, Arian Mobascher*
- 2011 *NIPS Workshop on Machine Learning in Neuroimaging, Granada, Spain, Moritz Grosse-Wentrup*
- ZKF Colloquium, Bremen, Germany, Klaus Pawelzik*
- ICNF, Frankfurt, Germany, Herbert Zimmermann*
- DGPPM, Berlin, Germany, Peter Uhlhaas*
- RAW (Rovereto Attention Workshop), Rovereto, Italy*
- IST Vienna, Austria, József Csicsvári*
- ICON XI, Mallorca, Spain, Francisco Barceló*
- Frankfurt Institute for Advanced Studies (FIAS), Germany, Thomas Burwick*
- Symposium "The role of oscillations for neuronal processing" at the Annual Meeting of the British Neuroscience Association (BNA), Harrogate, UK, John O'Keefe*
- Symposium "Emergence of attention from extended brain networks" at the Annual Meeting of the British Neuroscience Association (BNA), Harrogate,*

UK, Jon Driver

Workshop "Networks in the human brain", Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, Gabriele Lohmann and Bob Turner

Workshop "Developing simplified algebras to describe large scale brain dynamics" at the Computational and Systems Neuroscience (COSYNE) conference, Salt Lake City, USA, Kai J. Miller and Thilo Womelsdorf

Workshop "Grand Challenges in Neural Computing II: Neuromimetic Processing and Synthetic Cognition", Santa Fe, USA, John George, Luis Bettencourt and Garret Kenyon

German Primate Center, Göttingen, Germany, Hansjörg Scherberger

2010 *„2nd International Workshop on Advances in Electroencephalography", San Diego, USA, Gerwin Schalk*

FIL (Functional Imaging Lab) Brain Meeting, UCL Wellcome Trust Centre for Neuroimaging, London, UK

Keynote lecture at the "Bernstein Conference on Computational Neuroscience 2010", Berlin, Germany, Gabriel Curio

Presidential Symposium "Brain Rhythms and Neurology" at the Annual Meeting of the German Society for Neurology (DGN), Mannheim, Germany, Helmuth Steinmetz

Symposium "Neuronal Network Oscillations in Health and Disease", Nobel Forum, Karolinska Institute, Stockholm, Sweden, Christian Broberger

Opening lecture of the MEA meeting 2010, Reutlingen, Germany

Keynote lecture at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain

Brain Connectivity Workshop 2010, Berlin, Germany

Workshop "Neurocognitive mechanisms of conscious and unconscious visual perception", Hanse Wissenschaftskolleg, Delmenhorst, Germany

The 18th Ipsen Colloquium in Medicine and Research on "Characterizing consciousness from cognition to the clinic?", Paris, France, Stanislas Dehaene

University of Pennsylvania, Philadelphia, USA, Michael Kahana

Princeton University, Princeton, USA, Sabine Kastner

2009 *University of Freiburg, Germany, Romyana Kristeva and Thomas Mergner*

"The Assembly and Function of Neuronal Circuits" Neuronal Circuits Meeting, Ascona, Switzerland

- 2008 *Symposium on the occasion of the opening of the Neurospin MEG Centre, "MEG: New Images of Brain Dynamics", Paris, France, Stan Dehaene*
- Annual meeting of the Max-Planck-Society's network of PhD students, Bremen, Germany*
- Symposium at the Annual Meeting of the DGN (German Neurologists' Association), Hamburg, Germany, Hartwig Siebner and Ulf Ziemann*
- The Boehringer Ingelheim FENS Research Award lecture at the FENS meeting 2008, Geneva, Switzerland*
- The 2008 Summer Institute in Cognitive Neuroscience, Tahoe, CA, Ron Mangun and Steve Luck*
- Neural Coding Workshop, London, UK, Peter Dayan and Bruno Averbeck*
- Network Synchronization: from dynamical systems to neuroscience, Leiden, The Netherlands, Francesco Battaglia*
- Marie Curie European School in Neuroscience, Italy, Maurizio Corbetta*
- UC Davis, USA, Ron Mangun*
- UC Berkeley, USA, Robert Knight*
- "Top down or bottom up? measuring, modeling and understanding cross-scale neural interactions" workshop at the Computational and Systems Neuroscience (COSYNE) conference, Salt Lake City, USA, Kilian Koepsell and Tim Blanche*
- Brain Mind Institute, EPFL, Lausanne, Switzerland, Carl Petersen*
- University of Geneva, Geneva, Switzerland, Patrik Vuilleumier*
- 2007 *University of Leiden, Leiden, The Netherlands, Bernhard Hommel*
- Workshop "Large Scale Brain Dynamics", NIPS conference, Whistler, Canada, Kai Miller and Ryan Canolty*
- University of Washington, Seattle, Washington, Adrienne Fairhall*
- Bernhard Katz prize lecture, Annual meeting of the Israel Society for Neuroscience, Eilat, Israel*
- Ludwig-Maximilians-University München, München, Germany, Ulrich Büttner*
- Free University, Amsterdam, The Netherlands, Andreas Daffertshofer*
- University of Mainz, Mainz, Germany, Heiko Luhmann*
- "Neurizons" conference, International Max Planck Research School for*

- Neurosciences, Göttingen, Germany*
- University of Amsterdam, Amsterdam, The Netherlands, Cyriel Pennartz*
- Workshop "Conceptual Neuroscience", Institute Para Limes, University of Wageningen, The Netherlands, Jean-Pierre Changeux*
- University of Newcastle, Newcastle, UK, Alexander Thiele*
- 2006 *"The Dynamical Brain", Boehringer Ingelheim Fonds International Titisee Conference, Titisee, Germany, Wolf Singer*
- "Brain Imaging of Cortical Networks", Opening symposium of the Brain Imaging Center Frankfurt, Frankfurt, Germany, Lars Muckli*
- "Multi-level Brain Modeling" workshop of the Sloan/Swartz Center for Theoretical Neurobiology and the Swartz Center for Computational Neuroscience, Rancho Santa Fe, California, Terry Sejnowski*
- 5th INMED/TINS conference "Physiogenic and pathogenic oscillations: the beauty and the beast", La Ciotat, France, Yehezkel Ben-Ari*
- Monday Colloquium of the Max-Planck Institutes in Tübingen, Tübingen, Germany, Uta Noppeney*
- Hertie-Institute of Clinical Brain Research, University of Tübingen, Tübingen, Germany, Uwe Ilg*
- University of Leuven, Leuven, Belgium, Rufin Vogels*
- University of Wales Bangor, Bangor, UK, Kimron Shapiro*
- 2005 *Institute of Neuroinformatics, University of Zurich and the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, Daniel C. Kiper*
- Leibniz Institut für Neurobiologie, Magdeburg, Germany, Peter Heil*
- Volkswagenstiftung symposium "Dynamics and adaptivity of neuronal systems: Integrative approaches to analyse cognitive functions", Hamburg, Germany, Christian Büchel*
- "Peter Wall Summer Institute on Synchrony in Mind, Brain and Consciousness", Paris, France, Lawrence M. Ward*
- "Neuroengineering of Cognitive Functions", 3rd European Neuro-IT and Neuroengineering School, Venice, Italy, Andreas Engel*
- "Maths and Brain", summer school, Paris, France, Line Garnero*
- International Graduate School of Neuroscience, University of Bochum, Bochum, Germany, Klaus-Peter Hoffmann*
- "Oscillations and (in)stability. Control near and far from equilibrium in Biology", Lorentz workshop, University of Leiden, Leiden, The Netherlands,*

Stan Gielen

University of Hamburg, Hamburg, Germany, Andreas Engel

Bernstein Symposium, Berlin, Germany, Andreas Herz

"Computational Perspectives on Neural Oscillations", Workshop at the Computational and Systems Neuroscience (COSYNE) conference, Salt Lake City, USA, Zach Mainen

Nijmegen Institute for Cognition and Information (NICI), Nijmegen, The Netherlands, Eric Maris

2004 *"Communication and cognitive processes", KNAW (Royal Dutch academy) workshop, Amsterdam, The Netherlands, John Michon*

"Temporal Processing and Cross Modal Perception". Workshop of the Institute of Cognitive Neuroscience, London, UK, Alan Johnston

10th anniversary of the Functional Imaging Laboratory, London, UK, Ray Dolan

"Local and long-range neuronal interactions through oscillatory synchronization" Symposium at the meeting of the Federation of European Neuroscience Societies, Lisbon, Portugal

"Oscillations and Synchrony" Symposium at the meeting of the Organization for Human Brain Mapping, Budapest, Hungary

Banbury workshop of "Communication in brain systems", Cold Spring Harbor, NY, USA, Terry Sejnowski

University of Ulm, Ulm, Germany, Günther Palm

University of Osnabrück, Osnabrück, Germany, Peter König

2003 *University of Maastricht, Maastricht, The Netherlands, Rainer Goebel*

Functional Imaging Lab, London, UK, Karl Friston

Meeting of the "Federation of European Psychophysiology Societies", Bordeaux, France, Matthias Müller

Neuroinformatics course, Woods Hole, Massachusetts, Partha Mitra

Symposium at the meeting of the "Neurowissenschaftliche Gesellschaft", Göttingen, Germany, Stefan Treue

Netherlands Ophthalmic Research Institute, Amsterdam, The Netherlands, Pieter Roelfsema

University of Frankfurt, Frankfurt, Germany, Graduiertenkolleg

University of Groningen, Groningen, Netherlands, Ritske de Jong

- "Oscillations and higher brain functions", Lyon, France, Driss Boussaoud*
- 2002 *Workshop "Binocular rivalry & perceptual ambiguity", San Miniato, Italy, Randolph Blake*
- "Sixth Dutch Endo-Neuro Meeting", Doorwerth, Netherlands, Peter Hagoort*
- "From Microscopic to Macroscopic Brain Dynamics", Salk Institute, San Diego, California, Terry Sejnowski*
- University of Tilburg, Tilburg, Netherlands, Bea de Gelder*
- Institute for Fundamental and Clinical Movement Sciences, Amsterdam, Netherlands, Dick Stegeman*
- German Primate Center, Göttingen, Germany, Stefan Treue*
- University of Leiden, Leiden, Netherlands, Bernhard Hommel*
- 2001 *Neuroscan "Workshop on Cortical physiology of Complex behavior and Adaptation", Tübingen, Germany, Christian Gerloff*
- "Workshop on brain function and gamma activity". 5. meeting of the Society for Cognitive Science, Leipzig, Germany, Andreas Engel*
- "Workshop on the analysis of neural data" (WAND), Woods Hole, Massachusetts, USA, Partha Mitra*
- Workshop on "Neuronal dynamics of neocortex", Bozeman, Montana, USA, Charles Gray*
- 2000 *Johns Hopkins University, Baltimore, Maryland, USA, Ernst Niebur*
- The Salk Institute, La Jolla, California, USA, John Reynolds*
- Caltech, Pasadena, California, USA, Christof Koch*
- 1999 *University of Nijmegen, The Netherlands, Stan Gielen*
- NIMH, NIH, Bethesda, Maryland, USA, Robert Desimone*
- 1997 *Brown University, Providence, Rhode Island, USA, John Donoghue*
- University of Washington, Seattle, Washington, USA, Eberhard Fetz*
- University of California, Davis, California, USA, Charles Gray*
- 1996 *"Cognition, Brain and neuronal networks" (Kognet), Ruhr-University, Bochum, Germany, Klaus-Peter Hoffman*

Supervision

Alan Rorie,

Pre-doctoral intramural research training associate,
National Institute of Mental Health

<u>Alina Peter,</u>	PhD, IMPRS
<u>Andre Bastos,</u>	Postdoc, University of California
<u>Ayelet Landau,</u>	Postdoc, Ernst Strüngmann Institute
<u>Barbara Haendel,</u>	Postdoc, Ernst Strüngmann Institute
<u>Chris Lewis,</u>	PhD student, Ernst Strüngmann Institute
<u>Conrado Bosman,</u>	Postdoc, Donders Centre
<u>Craig Richter,</u>	Postdoc, Ernst Strüngmann Institute
<u>Floris van Setten,</u>	Master student, Donders Centre
<u>Georgios Spyropoulos,</u>	PhD, ESI
<u>Giorgos Michalareas,</u>	Postdoc, Ernst Strüngmann Institute
<u>Gustavo Rohenkohl,</u>	Postdoc, Ernst Strüngmann Institute
<u>Helene Schreyer,</u>	Master Student, University of Bern
<u>Iris Grothe,</u>	Master student, Donders Centre
<u>Jan-Mathijs Schoffelen,</u>	PhD student, Donders Centre
<u>Jarrod Dowdall,</u>	PhD, IMPRS
<u>Jasper Poort,</u>	Master student, Donders Centre
<u>Jianguang Ni,</u>	PhD, IMPRS
<u>Joachim Lange,</u>	Postdoc, Donders Centre
<u>Jonathan Levy,</u>	PhD student, Donders Centre
<u>Juan Vidal,</u>	Postdoc, Donders Centre
<u>Julien Vezoli,</u>	Postdoc, Ernst Strüngmann Institute
<u>Maarten Peeters,</u>	Master student, Donders Centre
<u>Marieke Schölvinck,</u>	Postdoc, Ernst Strüngmann Institute
<u>Markus Bauer,</u>	PhD student, Donders Centre
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Brain
Cerebral Cortex
Clinical Neurophysiology
Cognition
College de France
Current Biology
DFG (German Research Council)
eLife
European Journal of Neuroscience
European Research Council
FWO (Research Foundation – Flanders, Belgium)
Frontiers in Neuroscience
Human Brain Mapping
Human Frontier Science Program Organization
Journal of Vision
Medical Research Council (UK)
National Science Foundation (U.S.A.)
Nature
Nature Communication
Nature Neuroscience
Netherlands Organization for Scientific Research
Neural Computation
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Neuron
Neuropsychologia
Neuroscience letters
PLoS Biology
PLoS Computational Biology
PNAS
Scholarpedia
Science
Statistics in Medicine
Studienstiftung (German National Merit Foundation)
The German Israeli Foundation for Scientific Research and Development
The Journal of Neurophysiology
The Journal of Neuroscience
The Journal of Physiology (London)
The Journal of Physiology (Paris)
The Wellcome Trust
Trends in Cognitive Sciences
Vision Research

Languages

German (native language)
English

Dutch