

Curriculum vitae

PERSONAL INFORMATION

Family Name, First Name: Paulus, Walter, Prof. Dr. med.
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Date of Birth: 03.03.1953
Nationality: German

Wikipedia: https://de.wikipedia.org/wiki/Walter_Paulus
Highly cited researcher: <https://publons.com/researcher/2876339/walter-paulus/>

EDUCATION

1987 MD, ("summa cum laude"), Medizinische Fakultät Universität Düsseldorf, Preis für beste Doktorarbeit 1978/79 der Universität Düsseldorf
1978 Staatsexamen Medizin Universität Düsseldorf
1982 Facharzt Neurologie, Neurologische Klinik Universität Düsseldorf
1987 Habilitation, Ludwig-Maximilians-University Munich, Germany

CURRENT AND PREVIOUS POSITIONS

2018-2022 President of the International Federation of Clinical Neurophysiology
2016-2021 Member of the "Stiftungsausschuss Universitätsmedizin Göttingen"
2014 -2018 Chair of the European Chapter of the International Federation of Clinical Neurophysiology
2010 -2014 Secretary of the European Chapter of the International Federation of Clinical Neurophysiology
1998/99 President of the German Society for Clinical Neurophysiology
1992 - 2021 Chair of the Department of Clinical Neurophysiology, University of Göttingen
1984 Dept. of Neurology, Medical Faculty, Ludwig-Maximilians University München
1983 Dept. of Neurology, Alfried Krupp Hospital Essen
1981 - 1982 Dept. of Neurology, Medical Faculty, University Düsseldorf
1980 National Hospital for Neurology and Neurosurgery, UCL (UK)
1978 - 1979 Dept. of Neurology, Medical Faculty, University Düsseldorf

OFFICIAL SUPPORT

2021-2024 JPND-EU Restoring Motor Deficit in Parkinson's Disease with Noninvasive Hybrid Transcranial Neuromodulation
2014 – 2016 DFG Priority Program *SPP 1665* - Resolving and Manipulating Neuronal Networks in the Mammalian Brain: From Correlative to Causal Analysis
2009 - 2014 Bernstein Center for Neurotechnology at Göttingen (German Ministry for Research)
2012 – 2013 Migraine Research Foundation, New York, Alternating Current Stimulation for the acute treatment of migraine.
2006 - 2012 Rose Foundation: External induction of neuroplasticity in patients with MS
2006 - 2012 Niedersachsen-Israel Research Cooperation Program. The antidepressant effects of theta-burst rTMS in patients with major depression and patients with Parkinson's disease with depression
2005 - 2011 Bernstein Center Göttingen "Goal-directed external induction of neuroplastic effects by electric or magnetic brain stimulation based on a realistic head/brain model" (German Ministry for Research)

- 2001 - 2007 DFG (German State Research Agency): International Research Training Group GRK 632 with the University College London (coordinator)
- 2001 - 2004 EU Marie Curie Training Site "Transcranial magnetic and direct current stimulation"
- 2000 - 2007 Several project funded by the German Ministry for Research, amongst them:
"Dopaminergic stem cell therapy in animal models of Parkinson's disease"
(coordinator)
- 2000 - 2004 VW foundation: "Neuroplasticity of visuospatial cognition" (coordinator)

Memberships to Editorial Boards of International Journals:

Brain Stimulation, Movement Disorders, Frontiers in Human Neuroscience, Rest Neurol Neuroscience; Clinical Neurophysiology and others.

Selected Publications

1. Antal A, Alekseichuk I, Bikson M, Brockmüller J, Brunoni AR, Chen R, Cohen LG, Dowthwaite G, Ellrich J, Flöel A, Fregni F, George MS, Hamilton R, Haueisen J, Herrmann CS, Hummel FC, Lefaucheur JP, Liebetanz D, Loo CK, McCaig CD, Miniussi C, Miranda PC, Moliadze V, Nitsche MA, Nowak R, Padberg F, Pascual-Leone A, Poppendieck W, Priori A, Rossi S, Rossini PM, Rothwell J, Rueger MA, Ruffini G, Schellhorn K, Siebner HR, Ugawa Y, Wexler A, Ziemann U, Hallett M, **Paulus W.** Low intensity transcranial electric stimulation: Safety, ethical, legal regulatory and application guidelines. *Clinical Neurophysiology*, 2017, 128: 1774-1809.
2. Alekseichuk I, Turi Z, de Lara G, Antal A, **Paulus W.** Spatial working memory in humans depends on theta and high gamma synchronization in prefrontal cortex. *Current Biology*, 2016, 26:1513-21.
3. Shirota Y, Sommer M, **Paulus W.** Strength-Duration Relationship in Paired-pulse Transcranial Magnetic Stimulation (TMS) and Its Implications for Repetitive TMS. *Brain Stimulation*, 2017, 9: 755-761.
4. **Paulus W.**, Rothwell J. Membrane resistance and shunting inhibition: where biophysics meets state-dependent human neurophysiology. *J of Physiology London*, 2016, 594: 2719-2728.
5. Czesnik D, Howells J, Negro F, Wagenknecht M, Hanner S, Farina D, Burke D, **Paulus W.** Increased HCN channel driven inward rectification in benign cramp fasciculation syndrome *Brain*, 2015, 138: 3168-79.
6. Antal A, Bikson M, Datta A, Lafon B, Dechent P, Parra LC, **Paulus W.** Imaging artifacts induced by electrical stimulation during conventional fMRI of the brain. *NeuroImage*, 2014; 85:1040–1047.
7. Antal A, Polania R, Schmidt-Samoa C, Dechent P, **Paulus W.** Transcranial direct current stimulation over the primary motor cortex during fMRI. *NeuroImage*, 2011;55:590-6.
8. Moliadze V, Atalay D, Antal A, **Paulus W.** Close to threshold transcranial electrical stimulation preferentially activates inhibitory networks before switching to excitation with higher intensities. *Brain Stimulation*, 2012, 5:505-11.
9. Moliadze V, Antal A, **Paulus W.** Boosting brain excitability by transcranial high frequency stimulation in the ripple range. *Journal of Physiology*, 2010, 588:4891-904.
10. Terney D, Chaieb L, Moliadze V, Antal A, **Paulus W.** Increasing human brain excitability by transcranial high frequency random noise stimulation. *Journal of Neuroscience*, 2008; 28:14147-55.