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Curriculum vitae

Since 2016	Full professor (W3), head of Movement Disorders and Neuromodulation Unit, Department of Neurology, Charité, Berlin
Since 2015	Member, board of directors, NeuroCure – Cluster of Excellence, Berlin
Since 2012	Associate professor (W2), Movement Disorders, Department of Neurology, Charité, Berlin
Since 2012	Head, Movement Disorder Section, Department of Neurology, Charité, Berlin
Since 2010	Consultant, Department of Neurology, Charité, Berlin
Since 2007	Research group leader, Motor Neuroscience Group, Department of Neurology, Charité, Berlin
Since 2007	Assistant professor, Movement Disorders, Department of Neurology, Charité, Berlin
2006	Neurology board exam (Facharzt)
2002 – 2007	Research fellow, Sobell Department of Motor Neuroscience and Movement Disorders, University College London, UK
1998 – 2002	Resident, Department of Neurology, Charité, Berlin
1998	Doctoral degree (MD), Charité, Berlin, Humboldt-Universität zu Berlin

Research fields

Our research program focuses on:

- Pathophysiology of movement disorders (Parkinson's disease, dystonia)
- Action mechanism of deep brain stimulation (invasive recording from the human basal ganglia and use of deep brain stimulation as a lesion model)
- Clinical studies: deep brain stimulation for movement disorders
- Functional role of neuronal oscillatory activity of the human basal ganglia
- Invasive recordings from human basal ganglia: multiunit activity and local field potentials, EEG, and transcranial magnetic stimulation

Activities in the scientific community, honors, awards

2017	Dingebauer Award, German Neurological Society (DGN)
2015	Richard Jung Award, Deutsche Gesellschaft für Klinische Neurophysiologie
Since 2014	Principal investigator, German Center for Neurodegenerative Diseases (DZNE), Berlin
Since 2011	Faculty member, Berlin School of Mind and Brain
2008	Organizer, International Mini-Basal Ganglia Symposia (London-Oxford-Berlin), Charité, Berlin
2004 – 2006	Rahel-Hirsch-Habilitationsstipendium, Career Advance Grant, Charité, Berlin
2002 – 2004	Postdoctoral fellow scholarship, German Academic Exchange Service (DAAD)

Selected publications

Neumann WJ, Horn A, Ewert S, Huebl J, Brucke C, Slentz C, Schneider GH, Kuhn AA. A localized pallidal physiomarker in cervical dystonia. Ann Neurol 2017; 82:912-924

Merkl A, Neumann WJ, Huebl J, Aust S, Horn A, Krauss JK, Dziobek I, Kuhn J, Schneider GH, Bajbouj M*, Kuhn AA*. Modulation of Beta-Band Activity in the Subgenual Anterior Cingulate Cortex during Emotional Empathy in Treatment-Resistant Depression. Cereb Cortex 2016; 26:2626-2638 | *shared senior authorship

Accolla EA, Herrojo Ruiz M, Horn A, Schneider GH, Schmitz-Hubsch T, Draganski B, Kuhn AA. Brain networks modulated by subthalamic nucleus deep brain stimulation. Brain 2016; 139:2503-2515

Neumann WJ, Jha A, Bock A, Huebl J, Horn A, Schneider GH, Sander TH, Litvak V*, Kuhn AA*. Cortico-pallidal oscillatory connectivity in patients with dystonia. Brain 2015; 138:1894-1906 | *shared senior authorship

Horn A, Kuhn AA. Lead-DBS: a toolbox for deep brain stimulation electrode localizations and visualizations. Neuroimage 2015; 107:127-135

Neumann WJ, Huebl J, Brucke C, Gabriels L, Bajbouj M, Merkl A, Schneider GH, Nuttin B, Brown P, Kuhn AA. Different patterns of local field potentials from limbic DBS targets in patients with major depressive and obsessive compulsive disorder. Mol Psychiatry 2014; 19:1186-1192

Herrojo Ruiz M, Rusconi M, Brucke C, Haynes JD, Schonecker T, Kuhn AA. Encoding of sequence boundaries in the subthalamic nucleus of patients with Parkinson's disease. Brain 2014; 137:2715-2730

Barow E, Neumann WJ, Brucke C, Huebl J, Horn A, Brown P, Krauss JK, Schneider GH, Kuhn AA. Deep brain stimulation suppresses pallidal low frequency activity in patients with phasic dystonic movements. Brain 2014; 137:3012-3024

Green N, Bogacz R, Huebl J, Beyer AK, Kuhn AA*, Heekeren HR*. Reduction of influence of task difficulty on perceptual decision making by STN deep brain stimulation. Curr Biol 2013; 23:1681-1684 | *shared senior authorship

Volkmann J, Wolters A, Kupsch A, Muller J, Kuhn AA, Schneider GH, Poewe W, Hering S, Eisner W, Muller JU, Deuschl G, Pinsker MO, Skogseid IM, Roeste GK, Krause M, Tronnier V, Schnitzler A, Voges J, Nikkhah G, Vesper J, Classen J, Naumann M, Benecke R, dystonia DBSsgf. Pallidal deep brain stimulation in patients with primary generalised or segmental dystonia: 5-year follow-up of a randomised trial. Lancet Neurol 2012; 11:1029-1038