

Andrea Kühn

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Curriculum vitae

- since 2010 Consultant, Department of Neurology (Director: Dr. Matthias Endres), Charité
- since 2008 Head, Movement Disorder Section (in cooperation with Dr. Andreas Kupsch), Department of Neurology, Charité
- 2008 Organizer, International Mini-Basal Ganglia Symposiums (London-Oxford-Berlin) Charité
- since 2007 Group leader, Motor Neuroscience Group, Department of Neurology, Charité
- since 2007 Assistant Professor, Movement Disorders, Department of Neurology, Charité
- 2006 Offered Professorship (W2), Movement Disorders, Department of Neurology, Johann Wolfgang Goethe University, Frankfurt am Main (declined)
- 2006 Specialization in Neurology (Facharzt)
- 2002 – 2007 Research fellow (Prof. Peter Brown), Sobell Department of Motor Neuroscience and Movement Disorders, Institute of Neurology, UCL, London
- 1998 – 2002 Resident, Department of Neurology (Director Prof. K. M. Einhäupl), Charité
- 1998 Doctoral degree (MD), Charité, Humboldt-Universität zu Berlin

Research fields

- 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

- 2006 Poster Award, German Society of Clinical Neurophysiology
- 2004 – 2006 Career Advance Grant, Charité – Universitätsmedizin Berlin, Humboldt-Universität zu Berlin (Habilitationstipendium Rahel Hirsch)
- 2002 – 2004 Postdoctoral fellow, German Academic Exchange Service (DAAD)

Selected publications

Kuhn, AA, Tsui, A, Aziz, T, Ray, N, Brucke, C, Kupsch, A, Schneider, GH and Brown, P. Pathological synchronisation in the subthalamic nucleus of patients with Parkinson's disease relates to both bradykinesia and rigidity. *Exp Neurol*. 2009; 215, 380-7.

Sharott, A, Grosse, P, Kuhn, AA, Salih, F, Engel, AK, Kupsch, A, Schneider, GH, Krauss, JK and Brown, P. Is the synchronization between pallidal and muscle activity in primary dystonia due to peripheral afference or a motor drive? *Brain*. 2008; 131, 473-84.

Kuhn, AA, Kempf, F, Brucke, C, Gaynor Doyle, L, Martinez-Torres, I, Pogosyan, A, Trottenberg, T, Kupsch, A, Schneider, GH, Hariz, MI, Vandenberghe, W, Nuttin, B and Brown, P. High-frequency stimulation of the subthalamic nucleus suppresses oscillatory beta activity in patients with Parkinson's disease in parallel with improvement in motor performance. *J Neurosci*. 2008; 28, 6165-73.

Kuhn, AA, Brucke, C, Hubl, J, Schneider, GH, Kupsch, A, Eusebio, A, Ashkan, K, Holland, P, Aziz, T, Vandenberghe, W, Nuttin, B and Brown, P. Motivation modulates motor-related feedback activity in the human basal ganglia. *Curr Biol*. 2008; 18, R648-R650.

Brucke, C, Kempf, F, Kupsch, A, Schneider, GH, Krauss, JK, Aziz, T, Yarrow, K, Pogosyan, A, Brown, P and Kuhn, AA. Movement-related synchronization of gamma activity is lateralized in patients with dystonia. *Eur J Neurosci*. 2008; 27, 2322-9.

Trottenberg, T, Kupsch, A, Schneider, GH, Brown, P and Kuhn, AA. Frequency-dependent distribution of local field potential activity within the subthalamic nucleus in Parkinson's disease. *Exp Neurol*. 2007; 205, 287-91.

Kempf, F, Brucke, C, Kuhn, AA, Schneider, GH, Kupsch, A, Chen, CC, Androulidakis, AG, Wang, S, Vandenberghe, W, Nuttin, B, Aziz, T and Brown, P. Modulation by dopamine of human basal ganglia involvement in feedback control of movement. *Curr Biol*. 2007; 17, R587-9.

Androulidakis, AG, Kuhn, AA, Chen, CC, Blomstedt, P, Kempf, F, Kupsch, A, Schneider, GH, Doyle, L, Dowsey-Limousin, P, Hariz, MI and Brown, P. Dopaminergic therapy promotes lateralized motor activity in the subthalamic area in Parkinson's disease. *Brain*. 2007; 130, 457-68.

Kuhn, AA, Kupsch, A, Schneider, GH and Brown, P. Reduction in subthalamic 8-35 Hz oscillatory activity correlates with clinical improvement in Parkinson's disease. *Eur J Neurosci*. 2006; 23, 1956-60.

Kuhn, AA, Doyle, L, Pogosyan, A, Yarrow, K, Kupsch, A, Schneider, GH, Hariz, MI, Trottenberg, T and Brown, P. Modulation of beta oscillations in the subthalamic area during motor imagery in Parkinson's disease. *Brain*. 2006; 129, 695-706.