

Univ.-Prof. Dr. Lars Timmermann

DOB 8th December 1972 (Hamburg, Germany)

Married, 2 children



Education and professional career

2016, September	W3-Professor and Chair of Neurology, University Hospital Marburg
2014 - 2016	W3-Research Professorship for “ <i>Movement Disorders</i> ” at the University of Cologne
2010	W2-Research Professorship (German Research Foundation) as Leader of the Clinical Research Group 219, University of Cologne
2008	W2-Professorship „ <i>Movement Disorders</i> ”, University of Cologne
2007	„Habilitation“, Heinrich-Heine-University Düsseldorf
Since 2007	Consultant, head “ <i>Movement Disorders</i> ”, Dep. of Neurology, University of Cologne
2005	Board examination for „General Neurology“
2002	Leader young investigator group „ <i>Pathophysiology of Movement Disorders</i> “, Dep. of Neurology, University Hospital Düsseldorf
2002, Jan.-Feb.	„Clinical Attachment“ in „ <i>Movement Disorders</i> “, Institute of Neurology, University College London, UK
1999 – 2006	Residency and postdoc in Neurology, University Hospital Düsseldorf
2000, April	Dissertation, Physiology, University of Kiel
1992 – 1999	Medical School University of Kiel, semesters in Baltimore, USA (Johns-Hopkins-University), Dayton, USA (Wright-State-University), Gorleston, UK (Cambridge University)

Clinical and scientific interests

Pathophysiology of Movement Disorders and Effectiveness of Deep Brain Stimulation; Magnetencephalography, intraoperative Microelectrode and Macroelectrode-recordings, 128-channel EEG-System, non-invasive 3D-ultrasound characterisation of Movements

Selected publications

1. Timmermann L, Jain R, Chen L, Maarouf M, Barbe MT, Allert N, Brucke T, Kaiser I, Beirer S, Sejio F, Suarez E, Lozano B, Haeagelen C, Verin M, Porta M, Servello D, Gill S, Whone A, Van Dyck N, Alesch F (2015) Multiple source current steering in subthalamic nucleus deep brain stimulation for Parkinson's disease: the multi-center, prospective VANTAGE trial. *Lancet Neurology*, 14(7):693-701.
2. Volkmann J, Mueller J, Deuschl G, Kühn AA, Krauss JK, Poewe W, Timmermann L, Falk D, Kupsch A, Kivi A, Schneider GH, Schnitzler A, Südmeyer M, Voges J, Wolters A, Wittstock M, Müller JU, Hering S, Eisner W, Vesper J, Prokop T, Pinsker M, Schrader C, Kloss M, Kiening K, Boetzel K, Mehrkens J, Skogseid IM, Ramm-Petersen J, Kemmler G, Bhatia KP, Vitek JL, Benecke R; DBS study group for dystonia (2014) Pallidal neurostimulation in patients with medication-refractory cervical dystonia: a randomised, sham-controlled trial. *Lancet Neurology* 13(9):875-84.
3. Pedrosa DJ, Quatuor EL, Reck C, Pauls KA, Huber CA, Visser-Vandewalle V, Timmermann L (2014) Thalamomuscular coherence in essential tremor: hen or egg in the emergence of tremor? *Journal of Neuroscience* 22;34(43):14475-83.
4. Barbe MT, Dembek TA, Becker J, Raethjen J, Hartinger M, Meister IG, Runge M, Maarouf M, Fink GR, Timmermann L (2014) Individualized current-shaping reduces DBS-induced dysarthria in patients with essential tremor. *Neurology*. 18;82(7):614-9.

5. Florin E, Müller D, Pfeifer J, Barbe MT, Fink GR, Timmermann L (2013) Subthalamic stimulation modulates self-estimation of patients with Parkinson's disease and induces risk-seeking behaviour. *Brain* 136(Pt 11):3271-81.
6. Herz DM, Florin E, Christensen MS, Reck C, Barbe MT, Tscheuschler MK, Tittgemeyer M, Siebner HR, Timmermann L (2013) Dopamine Replacement Modulates Oscillatory Coupling Between Premotor and Motor Cortical Areas in Parkinson's Disease. *Cerebral Cortex* [Epub ahead of print]
7. Schuepbach WM, Rau J, Knudsen K, Volkmann J, Krack P, Timmermann L, Hälbig TD, Hesekamp H, Navarro SM, Meier N, Falk D, Mehdorn M, Paschen S, Maarouf M, Barbe MT, Fink GR, Kupsch A, Gruber D, Schneider GH, Seigneuret E, Kistner A, Chaynes P, Ory-Magne F, Brefel Courbon C, Vesper J, Schnitzler A, Wojtecki L, Houeto JL, Bataille B, Maltête D, Damier P, Raoul S, Sixel-Doering F, Hellwig D, Gharabaghi A, Krüger R, Pinsker MO, Amtage F, Régis JM, Witjas T, Thobois S, Mertens P, Kloss M, Hartmann A, Oertel WH, Post B, Speelman H, Agid Y, Schade-Brittinger C, Deuschl G; EARLYSTIM Study Group (2013) Neurostimulation for Parkinson's disease with early motor complications. *New England Journal of Medicine* 368(7):610-22.
8. Timmermann L, Pauls KA, Wieland K, Jech R, Kurlemann G, Sharma N, Gill SS, Haenggeli CA, Hayflick SJ, Hogarth P, Leenders KL, Limousin P, Malanga CJ, Moro E, Ostrem JL, Revilla FJ, Santens P, Schnitzler A, Tisch S, Valdeoriola F, Vesper J, Volkmann J, Woitalla D, Paker S (2010) Dystonia in neurodegeneration with brain iron accumulation: outcome of bilateral pallidal stimulation. *Brain* ;133(Pt 3):701-12.
9. Deuschl G, Schade-Brittinger C, Krack P, Volkmann J, Schäfer H, Bötzel, K, Daniels C, Deutschlander A, Dillmann U, Eisner W, Gruber D, Hamel W, Herzog J, Hilker R, Klebe S, Kloß M, Koy J, Krause M, Kupsch A, Lorenz D, Lorenzi S, Mehdorn HM, Moringlane JR, Oertel W, Pinsker MO, Reichmann H, Reuss A, Schneider GH, Schnitzler A, Steude U, Sturm V, Timmermann L, Tronnier V, Trottenberg T, Wojtecki L, Wolf E, Poewe W, Voges J (2006) Deep brain stimulation for Parkinson's disease – a 6-month randomized, controlled trial. *The New England Journal of Medicine*, 355 (9): 896-908.
10. Gross J, Kujala J, Hämäläinen M, Timmermann L, Schnitzler A, Salmelin R (2001) Dynamic imaging of coherent sources: a new approach for studying neural interactions in the human brain. *Proceedings of the National Academy of Sciences USA*, Vol. 98 (2):694-699.

Most important Grants:

- **Manfred and Ursula Müller Foundation** (4/2006): PI Lars Timmermann, Young investigator Group: „Pathophysiology of Movement Disorders“ Funding: 112.000,- EUR, Funding period: 10/2006-10/2009
- **BMBF (German Ministry of Education and Research)-Project in Cooperation with Toronto**: „Ethical, Legal and social aspects of DBS“. Total Volume 800.000,- EUR, Coordination: C. Woopen Project Neurology: PI Lars Timmermann, 200.000,- EUR, Funding 2009-2012
- **Deutsche Forschungsgemeinschaft (German Research Foundation)**: Clinical Research Group 219: *Basal ganglia cortex Loops: Pathological interactions and therapeutic modulation*. Speaker: Gereon R. Fink, Leader: Lars Timmermann, Funding total: 2 900 000,- EUR (additionally 600 000,- EUR faculty), project with L.T. as PI (TP-Z 1 500 000,- EUR and TP-1: 350 000,- EUR). Funding period: 2010 - 2013.
- **German Parkinson Foundation (Deutsche Parkinson Vereinigung, DPV)**: PI: Lars Timmermann, Title: „Health-related quality of life in patients with Deep brain Stimulation: Development and validation of an instrument for self and caregiver rating“, Funding: 100.000,- EUR, Funding period: 1.1.2012 until 31.12.2013
- **Cologne Parkinson Network (Kölner Parkinson Netzwerk, KNP)**: PI Lars Timmermann, Carsten Eggert, Title: „Effectiveness of a interdisciplinary care of patients with Parkinson's disease in Cologne“, funding by Medtronic, UCB, Bayer, zur Rose Pharma, TEVA, Archimedes, Abbvie, in total 350.000,- EUR, funding period: 1.2.2012 until 31.12.2014
- **German Research Foundation (Deutsche Forschungsgemeinschaft)**: Subsequent project period Clinical Research Group 219: *Basal-ganglia Cortex Loops: Mechanisms of pathological interactions and therapeutic modulation*. Funding in total: 3 600 000,- EUR (additionally ~600 000,- EUR faculty), projects with LT. as leading PI (TP-Z 1.268 150,- EUR and TP-1: 263 550,- EUR, Co-PI: TP6 (Tittgemeyer/Timmermann: 400.000,- EUR, TP11 (Endepols/Timmermann): 328.957,-EUR, TP12 (Grün, Denker, Timmermann): 235.250,- EUR). Funding period: 2013 - 2016.

- **Boston-Scientific Inc. USA:** PI: Lars Timmermann, Title: „*German prospective multi-center Trial: Effectiveness of Deep Brain Stimulation in the globus pallidus in pediatric patients with cerebral palsy - STIM-CP*“, Funding: 403.000,- EUR, Funding period: 2014-2017
- **7th Framework program of the European Union:** “SAPIENS-IMPACT: Steering DBS” Funding totally: 4.500 000,- EUR, Cologne Center PI: Lars Timmermann, Veerle Visser-Vandewalle Funding: ~450.000,- EUR, Funding period: 2013 - 2016.
- **German Parkinson Foundation (Deutsche Parkinson Vereinigung, DPV):** PI: Lars Timmermann, Title: „LISA II: A questionnaire for quality of life in patients with Parkinson’s disease and Deep Brain Stimulation: *a multi-center validation*“, Funding: 100.000,- EUR, Funding period: 1.1.2014 until 31.12.2015