

Prof. Dr. med. MARKUS PLONER**1) General information**

Date of birth: 05 February, 1970
 Gender: Male
 Address: Technical University of Munich
 Department of Neurology
 Ismaninger Str. 22
 81675 Munich, Germany
 Phone: +49-(0)89-41404608
 E-Mail: markus.ploner@tum.de
 Position: Professor for Human Pain Research (W3),
 Consultant of Neurology
 Children: Four (* 1997, * 2000, * 2002, * 2008)
 Paternity leave, if applicable: None

2) University training and degree

1990 - 1997 Studies in Medicine, University of Cologne, Germany and University of Vienna, Austria

3) Advanced academic qualifications

2007 Habilitation and Venia legendi in Neurology, Heinrich-Heine-University Düsseldorf, Germany
 1998 Doctoral dissertation, *On the relationship between aphasias and cerebral glucose metabolism*, Department of Neurology, University of Cologne

4) Postgraduate professional career

since 2019 W3 Professor for Human Pain Research
 2014 - 2019 W2 Heisenberg Professor for Human Pain Research
 since 2007 Consultant Neurologist and Research Group Leader, Department of Neurology, TUM
 2007 - 2008 Feodor Lynen Research Fellow, Centre for Functional Magnetic Resonance Imaging of the Brain, University of Oxford, UK
 1998 - 2007 Resident and postdoctoral researcher, Department of Neurology, Heinrich-Heine-University, Düsseldorf
 1998 M.D. thesis, *On the relationship between aphasias and cerebral glucose metabolism*, Department of Neurology, University of Cologne, advisor: Prof. Karl Herholz

5) OtherAwards and honours:

2019 Global Peer Review Award, Category Neuroscience and Behavior, Web Of Science/publons.com

2018	Richard-Jung-Prize of the German Society for Clinical Neurophysiology and Functional Imaging
2017	Heisenberg-Professorship of the Deutsche Forschungsgemeinschaft – Renewal
2013	Heisenberg-Professorship of the Deutsche Forschungsgemeinschaft
2011	Research prize for pain research, German Society for the Study of Pain
2007	EFIC Grünenthal Grant, European Association for the Study of Pain

Panels and coordinating functions:

2015 - 2017	Member of the Presidential Task Force on Brain Imaging Tests for Chronic Pain of the International Association for the Study of Pain
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Editorial boards:

since 2021	Reviewing Editor, eLife
since 2019	Associate Editor, Journal of Neuroscience
since 2015	Associate Editor, PAIN

6) Publications

A)

Nickel MM, Tiemann L, Hohn VD, May ES, Gil Avila C, Eippert F, Ploner M. Temporal-spectral signaling of sensory information and expectations in the cerebral processing of pain. **Proc Natl Acad Sci USA**; 119 (1) e2116616119, 2022.

May ES, Hohn VD, Nickel MM, Tiemann L, Gil Ávila C, Heitmann H, Sauseng P, Ploner M. Modulating brain rhythms of pain using transcranial alternating current stimulation (tACS) - A sham-controlled study in healthy human participants. **J Pain**; 22:1256-1272, 2021.

Ta Dinh S, Nickel MM, Tiemann L, May ES, Heitmann H, Hohn VD, Edenharter G, Utpadel-Fischler D, Tölle TR, Sauseng P, Gross J, Ploner M. Brain dysfunction in chronic pain patients assessed by resting-state electroencephalography. **Pain**; 160:2751-2765, 2019.

May ES, Nickel MM, Ta Dinh S, Tiemann L, Heitmann H, Voth I, Tölle TR, Gross J, Ploner M. Prefrontal gamma oscillations reflect ongoing pain intensity in chronic back pain patients. **Hum Brain Mapp**; 40(1):293-305, 2019.

Tiemann L, Hohn VD, Ta Dinh S, May ES, Nickel MM, Gross J, Ploner M. Distinct patterns of brain activity mediate perceptual and motor and autonomic responses to noxious stimuli. **Nat Commun**; 9(1):4487, 2018.

Ploner M, Sorg C, Gross J. Brain rhythms of pain. **Trends Cogn Sci**; 21(2):100-110, 2017.

Schulz E, May ES, Postorino M, Tiemann L, Nickel MM, Witkovsky V, Schmidt P, Gross J, Ploner M. Prefrontal Gamma Oscillations Encode Tonic Pain in Humans. **Cereb Cortex**; 25(11):4407-14, 2015.

Schulz E, Zherdin A, Tiemann L, Plant C, Ploner M. Decoding an individual's sensitivity to pain from the multivariate analysis of EEG data. **Cereb Cortex**; 22:1118-23, 2012.

Ploner M, Lee MC, Wiech K, Bingel U, Tracey I. Prestimulus functional connectivity determines pain perception in humans. **Proc Natl Acad Sci USA**; 107(1): 355-360, 2010.

Gross J, Schnitzler A, Timmermann L, Ploner M. Gamma oscillations in human primary somatosensory cortex reflect pain perception. **PLoS Biol**; 5(5): e133, 2007.

B) other publications: -

C) Patents: -

