

Prof. Dr. med. Axel Methner

*08.01.1969

Professor of Neurology, W2
Working Group Leader

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Academia

- 2004 Habilitation in neurology
- 2004 Specialist for CSF analysis
- 2002 Specialist for neurology
- 1997 Approbation as physician
- 1996 Doctorate (Dr. med.) at the Institute of Pharmacology (Prof. Dr. F. v. Bruchhausen), FU Berlin
- 1995 Approbation as physician
- 1994-1996 Extensive course in molecular neurobiology at the university of Hamburg
- 1987-1993 Studies of human medicine, FU Berlin, Université de Paris XI (France), Université de Lausanne (Switzerland), Brown University (USA)

Career

- since 2012 Professor of neurology, university medicine of the Johannes Gutenberg University Mainz
- 2005-2012 Neurologist at the University Hospital Düsseldorf
- 2004-2005 Neurologist at the Teaching Hospital Hamburg
- 2002-2003 Scholarship holder in the neurological intensive care unit at the University Hospital Hamburg
- 1999-2004 Leading scientist at the Institute for Clinical Neurobiology Hamburg
- 1997-1998 Postdoc at the Institute for Clinical Neurobiology Hamburg

Awards

- 2010 Ellison Foundation scholarship „Biology of Aging“
- 2004 Dr. Martini-Preis
- 2002 Arthur Kling, M.D. award for entrepreneurial science
- 1991 Bourse d'état, Université de Paris XI

Memberships

- German Society of Neurology
- Neuroscience Society
- German Society for Neurogenetics
- German Society for CSF Analysis and Clinical Neuropharmacology

Selected Publications

Droby A, Panagoulas M, Albrecht P, Reuter E, Duning T, Hildebrandt A, Wiendl H, Zipp F, **Methner A.** (2015) A novel automated segmentation method for retinal layers in OCT images proves retinal degeneration after optic neuritis. *Br J Ophthalmol.* Aug 25

Lisak D, Schacht T, Gawlitza A, Albrecht P, Aktas O, Koop B, Gliem M, Hofstetter HH, Zanger K, Bultynck G, Parys JB, De Smedt H, Kindler T, Adams-Quack P, Hahn M, Waisman A, Reed JC, Hövelmeyer N, **Methner A.** (2016) BAX inhibitor-1 is a Ca(2+) channel critically important for immune cell function and survival. *Cell Death Differ* Feb;23(2):358-68. doi: 10.1038/cdd.2015.115

Henke N, Albrecht P, Bouchachia I, Knoll K, Lewerenz J, Maher P, and **Methner A.** (2013) The plasma membrane channel ORAI1 mediates detrimental calcium influx caused by endogenous oxidative stress. *Cell Death Dis* 4, e470

Henke N, Albrecht P, Pfeiffer A, Toutzaris D, Zanger K, and **Methner A.** (2012). Stromal Interaction Molecule 1 (STIM1) Is Involved in the Regulation of Mitochondrial Shape and Bioenergetics and Plays a Role in Oxidative Stress. *J Biol Chem* 287, 42042–42052

Noack R, Frede S, Albrecht P, Henke N, Pfeiffer A, Knoll K, Dehmel T, Meyer zu Horste G, Stettner M, Kieseier B C, Summer H, Golz S, Kochanski A, Wiedau-Pazos M, Arnold S, Lewerenz J, and **Methner A.** (2012) Charcot-Marie-Tooth disease CMT4A: GDAP1 increases cellular glutathione and the mitochondrial membrane potential. *Human Molecular Genetics* 21(1):150-62

Steinbeck JA, Henke N, Opatz J, Gruszczynska-Biegala J, Schneider L, Theiss S, Hamacher N, Steinfarz B, Golz S, Brüstle O, Kuznicki J and **Methner A.** (2011) Store-operated calcium entry modulates neuronal network activity in a model of chronic epilepsy. *Exp. Neurology*, 232(2):18594