 **Prof. Dr. med. Axel Methner**

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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 tje neuological 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’etat, 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, Panagoulias 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