

Curriculum Vitae – Prof. Dr. rer. nat. Michael B. Hoffmann (March 2013)

Head of the Section for Clinical and Experimental Sensory Physiology – Ophthalmology University Magdeburg

Phone/email 0391-6713585 / michael.hoffmann@med.ovgu.de –
Born 1967 (Münster/Westf.)

EDUCATION

apl. Professor 01/2013, Otto-von-Guericke University Magdeburg
Habilitation 12/2007, Venia legendi for Neurobiology, Med. School University Magdeburg
Habilitation-Thesis: „Investigations of the organisation of the human visual system with special focus on visual pathway abnormalities in albinism“
PhD 1995-98, Ophthalmology Univ. Freiburg (Prof. Bach): „EEG investigation of human visual motion perception – Distinction of eye- and object movement“
– *DFG funded* Dissertation: Summa cum laude; PhD: Magna cum laude
Diploma-Thesis 1993-94, Ophthalmology Univ. Tübingen (Prof. Schaeffel): „Investigations of the influence of melatonin on deprivation myopia in the domestic chicken“
– *Fortüne funded* Grade: 1.0
Biology-Diploma 1988-94, Universities of Münster, Sussex (UK) & Tübingen Grade: 1.0

EMPLOYMENT HISTORY

01.07.04 – present: **Head of Section** for Clinical and Experimental Sensory Physiology
– Ophthalmology, University Magdeburg
10.06.02 – 31.06.04: **Research fellow:** Deputy head of the Section for Functional Vision Research
– Ophthalmology, University Freiburg
PI: Cortical organisation & visual function in albinism – *DFG-funded*
01.07.99 – 31.04.02: **Post Doc:** Psychology, Royal Holloway Univ. London, UK (Prof. Morland):
fMRI-investigations of the visual cortex – *Wellcome Trust-funded*
01.01.99 – 31.06.99: **Post Doc:** Ophthalmology University Freiburg (Prof. Bach):
Visual motion detection – *DFG-funded*
01.02.95 – 31.12.98: **PhD-student:** Ophthalmology University Freiburg (Prof. Bach):
Visual motion detection – *DFG-funded*
01.06.94 – 31.12.94: **Research assistant:** Ophthalmology University Tübingen (Prof. Schaeffel):
Pharmacology in deprivation myopia – *fortüne-funded*

SCHOLARSHIPS & SCIENTIFIC AWARDS

2006 **Presentation award** of the Ophthalmic Society of Sachsen-Anhalt & Thüringen (SATH): „*Influence of nystagmus on visual evoked potentials*“
2005 **Presentation award** of the Ophthalmic Society of Sachsen-Anhalt & Thüringen (SATH): „*Abnormal retinal projections in albinism*“
2004 **Presentation award** of the Ophthalmic Society of Sachsen-Anhalt & Thüringen (SATH): „*Identification of abnormal visual pathways with mfVEPs*“
1997 **Travel scholarship** (Medical Society of the Univ.- Freiburg): ARVO, USA
1991/2 **Exchange student** University of Sussex, UK (ERASMUS-scholarship)
1984 (autumn) **Exchange student:** Fresno, California, USA (Scholarship of the city of Münster)

TEACHING ACTIVITIES

- **Medical school** – Lectures, practicals, seminars on physiological optics & visual function testing
- **Neurosciences** – Lectures, practicals, seminars on visual system anatomy & vision research
- **Computing** – Lecture on functional magnetic resonance imaging analysis
- **Sport sciences** – Lecture on visual system and visual skills in sports

SKILLS

- **Methods** Electrophysiology (ERG, EOG, VEP, multifocal techniques)
Magnetic resonance imaging (MRI, fMRI, DTI; 1.5, 3 & 7 T), psychophysics
 - **Programming** C++, IGOR, LabView, Matlab, Pascal
 - **Symposia-organisation**
 - Freiburg (1998 – Neuro-workshop)
 - Münster (1999 – Neuro-workshop)
 - Magdeburg (2006 – Meeting of the Ophthalmic Physicists)
 - Göttingen Neurobiol.-Conference (2011 – Symposium „Plasticity in the human visual system - Probing dysfunction with functional magnetic resonance imaging“)
 - **Languages** German – native • English – fluent • Greek • Latin
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RESEARCH

- **Topics** • Human visual system • physiology • patho-physiology • plasticity
 - **Methods** • Non-invasive electrophysiology • MRI • psychophysics
 - **Publications** • Hirsch Index: 15 • Impact Σ : 124
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FUNDING (Applicant Dr. M. B. Hoffmann)

- **DFG**: HO 2002/10-2 (2013-16):
Visual pathway abnormalities and self-organisation of the visual system
 - **CBBS** [Land Sachsen-Anhalt] (2012-13):
Advanced fMRI-based analysis of human sensory cortex
 - **DFG**: HO 2002/10-1 (2010-13):
Visual pathway abnormalities and self-organisation of the visual system
 - **DFG**: HO 2002/9-1 (2010-13):
Reorganisation in the visual system of patients with macula degenerations
 - **Industry**: HOYA Medical GmbH (2008): Influence of yellow intra-ocular lenses on retinal function
 - **DFG**: HO 2002/6-1 (2007-09): Neuronal mechanisms of audio-visual motion detection
 - **DFG**: HO 2002/4-1/2 (2006-08): Visual processing and cortical organisation in albinism
 - **DFG**: HO 2002/3-1 (2002-05): Cortical organisation and visual function in albinism
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REVIEWER

Scientific journals: • Brazilian Journal of Medical and Biological Research • British Journal of Ophthalmology • Clinical Neurophysiology • Clinical Ophthalmology • Current Eye Research • Documenta Ophthalmologica • Experimental Eye Research • Graefes Archive for Clin. & Exp. Ophthalmology • International Journal of Psychophysiology • Investigative Ophthalmology & Visual Science • Journal of Vision • Journal of Neurophysiology • Journal of Neuroscience • Neurobiology of Aging • Neuroscience Letters • Neuropsychologia • PLoSONE • Restorative Neurology and Neuroscience • Strabismus • The Online Ophthalmology Journal • Vision Research • Visual Neuroscience • Zeitschrift für Medizinische Physik

Funding organisations: • German Research Foundation (DFG) • The Wellcome Trust • German Israeli Foundation • Neurological Foundation of New Zealand

SCIENTIFIC MEMBERSHIPS

- Center of Behavioural Brain Sciences, CBBS • Förderverein der Univ.-Augenklinik Magdeburg (Treasurer) • International Society for Clinical Electrophysiology of Vision, ISCEV • Neurowissenschaftliche Gesellschaft, NWG • Society for Neuroscience, SFN