

PROF. DR. MARTIN SCHMELZ

Date of birth: 12 June, 1964
Gender: male

Address: Heidelberg University, Medical Faculty Mannheim
Dept. Experimental Pain Research
Theodor-Kutzer-Ufer 1-3
D-68167 Mannheim

Phone: +49-(0) 621 383 6855
Email: martin.schmelz@medma.uni-heidelberg.de
Current position: Director of Dept. Experimental Pain Research, Mannheim,
Heidelberg University

CURRICULUM VITAE

University education

1985-1991: Medical School (Univ. Erlangen, Germany)

Scientific degrees

1992 Medical Thesis "Comutagenicity of Ni⁺ and Cr⁺⁺ - salts in combination with UVC irradiation".Dept. Human Genetics, Univ. Erlangen, Germany

1999 German Habilitation on microneurography and microdialysis in human, mentor: Prof. Handwerker, Univ. Erlangen, Germany

Professional experience

1991-1992: Internship Dept. of Occupational Medicine, Univ. Erlangen, Germany

1993-1999: postdoc at Dept. of Physiology, University Erlangen Germany, Director: Prof. Dr. H.O. Handwerker

1999-2002: Assistant Professor at the Dept. of Physiology, University Erlangen

2002-2017 Karl-Feuerstein Professor, Dept. of Anesthesiology Mannheim, Univ. Heidelberg; Heading the section for experimental pain research

from 2017 Director Dept. Experimental Pain Research Mannheim, Univ. Heidelberg

Awards and honors

2003 Carl-Ludwig Schleich Award

2003 Sertürner Award

2003 IASP collaborative research grant

2011 Pfizer Visiting Professorship in Pain Medicine 2012 (Pittsburgh)

Editorial boards

2005- Assistant Editorial Board *Journal of Pain*

2005- Assistant Editorial Board *Pain*

2009- Assistant Editorial Board *Experimental Neurology*

2012- Assistant Editorial Board *Experimental Dermatology*
2012- Section Editor *Journal of Investigative Dermatology*

Memberships, panels and coordinating functions

Memberships: Society for Neuroscience, IASP, founding member of International Forum for the Study of Itch (IFSI)
2004-2007 Chair of the clinical research group KFO 107 "Neuronal Plasticity and Learning Processes in Chronic Pain"
2008, 2010 Scientific Committee World Congress on Pain (Glasgow, Montreal)
2017-2019 President of the German IASP chapter

Max. 10 most important publications

1. Rukwied RR, Main M, Weinkauf B, **Schmelz M**. NGF sensitizes nociceptors for cowhage- but not histamine-induced itch in human skin. *J Invest Dermatol* 2013;133(1):268-270.
2. Rukwied R, Weinkauf B, Main M, Obreja O, **Schmelz M**. Inflammation meets sensitization--an explanation for spontaneous nociceptor activity? *Pain* 2013;154(12):2707-2714.
3. Handwerker HO, **Schmelz M**. Pain: itch without pain - a labeled line for itch sensation? *Nature reviews Neurology* 2009;5(12):640-641.
4. Schweizerhof M, Stosser S, Kurejova M, Njoo C, Gangadharan V, Agarwal N, **Schmelz M**, Bali KK, Michalski CW, Brugger S, Dickenson A, Simone DA, Kuner R. Hematopoietic colony-stimulating factors mediate tumor-nerve interactions and bone cancer pain. *Nat Med* 2009;15(7):802-807.
5. Paus R, **Schmelz M**, Biro T, Steinhoff M. Frontiers in pruritus research: scratching the brain for more effective itch therapy. *J Clin Invest* 2006;116(5):1174-1186.
6. Ikoma A, Steinhoff M, Stander S, Yosipovitch G, **Schmelz M**. The neurobiology of itch. *Nat Rev Neurosci* 2006;7(7):535-547.
7. Yosipovitch G, Greaves M, **Schmelz M**. Itch. *Lancet* 2003;361:690-694.
8. **Schmelz M**. A neural pathway for itch. *Nature Neuroscience* 2001;4(1):9-10.
9. Weidner C, Klede M, Rukwied R, Lischetzki G, Neisius U, Skov PS, Petersen LJ, **Schmelz M**. Acute Effects of Substance P and Calcitonin Gene-Related Peptide in Human Skin - A Microdialysis Study. *J Invest Dermatol* 2000;115(6):1015-1020.
10. **Schmelz M**, Schmidt R, Handwerker HO, Torebjörk HE. Encoding of burning pain from capsaicin-treated human skin in two categories of unmyelinated nerve fibres. *Brain* 2000;123(Pt 3):560-571.