

Prof. Dr. med. MARTIN SCHMELZ**1) General information**

Date of birth: 12 June, 1964
 Gender: Male
 Address: Heidelberg University,
 Medical Faculty Mannheim
 Dept. Experimental Pain Research, CBTM
 Ludolf-Krehl-Str. 13-17
 68167 Mannheim
 Phone: +49-(0) 621 383 71650
 Email: martin.schmelz@medma.uni-heidelberg.de
 Position: Professor for Physiology (W3),
 Director of the Dept. Experimental Pain Research
 Children: Four (* 1996, * 1998, * 2000, * 2003)
 Parental leave, if applicable: None

2) University training and degree

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

3) Advanced academic qualifications

1999 German Habilitation on microneurography and microdialysis in human,
 mentor: Prof. Handwerker, Univ. Erlangen, Germany
 1992 Medical Thesis "Comutagenicity of Ni⁺ and Cr⁺⁺ - salts in combination with
 UVC irradiation", Dept. Human Genetics, Univ. Erlangen, Germany

4) Postgraduate professional career

Since 2017 Director of Dept. Experimental Pain Research, CBTM Mannheim, Heidelberg
 University
 Since 2002 Karl-Feuerstein Professor, Dept. of Anesthesiology Mannheim, Heidelberg
 Univ; Heading the section for experimental pain research
 1999 - 2002 Assistant Professor at the Dept. of Physiology, University Erlangen
 1993 - 1999 Postdoc at Dept. of Physiology, University Erlangen Germany,
 Director: Prof. Dr. H.O. Handwerker
 1991 - 1992 Internship Dept. of Occupational Medicine, Univ. Erlangen, Germany

5) OtherAwards and honours:

2011 Pfizer Visiting Professorship in Pain Medicine 2012 (Pittsburgh)
 2003 Carl-Ludwig Schleich Award
 2003 Sertürner Award
 2003 IASP collaborative research grant

Panels and coordinating functions:

Since 2021	Chair of IASP special interest group itch and pain
2015 - 2023	Steering committee member of the DFG CRC 1158
2018 - 2024	Speaker Research Group 'Translational Pruritus' FOR 2690
2015 - 2018	President / President Elect of German IASP chapter
2005 - 2008	Speaker DFG Clinical Research Group KFO 107
2008, 2010	Scientific Committee IASP World Congress on Pain (Glasgow, Montreal)

Reviewing Boards:

2016 - 2017 Welcome trust panel: ERG 2 Cellular and Molecular Neuroscience

Editorial boards:

Since 2012	Assistant Editorial Board 'Experimental Dermatology'
Since 2012	Section Editor Journal of 'Investigative Dermatology'
Since 2009	Assistant Editorial Board 'Experimental Neurology'
Since 2005	Assistant Editorial Board 'Journal of Pain'
Since 2005	Assistant Editorial Board 'Pain'

6) Publications

A)

Werland F, de Col R, Hirth M, Turnquist B, Schmelz M, Obreja O. Mechanical sensitization, increased axonal excitability, and spontaneous activity in C-nociceptors after ultraviolet B irradiation in pig skin. **Pain**; 162:2002-2013, 2021.

Werland F, Hirth M, Rukwied R, Ringkamp M, Turnquist B, Jorum E, Namer B, Schmelz M, Obreja O. Maximum axonal following frequency separates classes of cutaneous unmyelinated nociceptors in the pig. **J Physiol**; 599:1595-1610, 2021.

Rukwied R, Thomas C, Obreja O, Werland F, Kleggetveit IP, Jorum E, Carr RW, Namer B, Schmelz M. Slow depolarizing stimuli differentially activate mechanosensitive and silent C nociceptors in human and pig skin. **Pain**; 161:2119-2128, 2020.

Steinhoff M*, Schmelz M*, Szabo, I, Oaklander, AL. Clinical presentation, management, and pathophysiology of neuropathic itch. **Lancet Neurology**; 17: 709-720, 2018.

Jonas R, Namer B, Stockinger L, Chisholm K, Schnakenberg M, Landmann G, Kucharczyk M, Konrad C, Schmidt R, Carr R, McMahon S, Schmelz M, Rukwied R. Tuning in C-nociceptors to reveal mechanisms in chronic neuropathic pain. **Annals of Neurology**; 83(5):945-957, 2018.

Rukwied R, Weinkauff B, Main M, Obreja O, Schmelz M. Inflammation meets sensitization--an explanation for spontaneous nociceptor activity? **Pain**; 154(12):2707-2714, 2013.

Ikoma A, Steinhoff M, Stander S, Yosipovitch G, Schmelz M. The neurobiology of itch. **Nature reviews Neuroscience**; 7(7):535-547, 2006.

Yosipovitch G, Greaves MW, Schmelz M. Itch. **Lancet**; 361(9358):690-694, 2003.

Steinhoff M, Neisius U, Ikoma A, Fartasch M, Heyer G, Skov PS, Luger TA, Schmelz M. Proteinase-activated receptor-2 mediates itch: a novel pathway for pruritus in human skin. **The Journal of Neuroscience**; 23(15):6176-6180, 2003.

Schmelz M, Schmid R, Handwerker HO, Torebjork HE. Encoding of burning pain from capsaicin-treated human skin in two categories of unmyelinated nerve fibres. **Brain**; 123 Pt 3:560-571, 2000.

* Equally contributing authors

B) other publications: -

C) Patents: -