

PROF. DR. DR. H.C. HERMANN O. HANDWERKER

Date of birth: July 21, 1940
Gender: male

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Current position: Prof. em. at Institute of Physiology and Pathophysiology.

CURRICULUM VITAE

University education

1961-1967 Studies of Medicine, Zürich and Würzburg Universities

Scientific degrees

1967 Graduated in Medicine at Würzburg University
1968 Doctoral Thesis accepted, University of Würzburg,
1974 Habilitation at the University of Heidelberg

Professional experience

1967-1969 Internship in Rastatt/Baden & Düsseldorf 1969–
1971 Postdoc at the Brain Research Institute in Zürich
1971-1974 Postdoc (Wissenschaftlicher Assistent) at the Department of Physiology
II (with Profs. M. Zimmermann and W. Trautwein), University of
Heidelberg
1974–1986 Associate Professor at the Department of Physiology, University of
Heidelberg
1986–2008 Full Professor and Director, Department of Physiology &
Pathophysiology, University of Erlangen/Nürnberg
1999–2006 Dean of Studies, Medical Faculty, University of Erlangen/ Nürnberg
since 2008 Prof. emeritus, University of Erlangen/Nürnberg

Research Fellow, Guest Professor and Doctor honoris causa

1973 Research Fellow, University of Edinburgh
1979-84 Guest Professor, University of Leuven, Belgium (various periods)
1992-95 Guest Professor, University of Uppsala, Sweden, (various periods)
1993 Forskningspris, Riksbankens Jubileumsfond, Sweden,
1997 Dr. honoris causa, Medical Faculty, University of Uppsala, Sweden

Editorial boards:

- Field Editor of "PAIN" until 1999.
- Editor-in-Chief of the European Journal of Pain 2004 - 2016

Memberships, panels and coordination functions

- Member of the IASP
- Board member of the International Society for the Study of Itch
- 1990-1996 Councilor and Chairman of the „Research Committee“ of IASP
- Member of the German Section of IASP (DGSS) and Chairman of the Research Commission until 1999. Honorary Member since 2009
- Honorary Member of the German Society of Anesthesiology
- Honorary Member of IASP
- Honorary Member of EFIC

Research organization

- 1992-2004 Chairman (Sprecher), Special Research Unit (Sonderforschungsbereich der Deutschen Forschungsgemeinschaft) "Pathobiology of Pain" at the Universities of Erlangen and Würzburg

10 most important publications:

1. Schmelz M, Schmidt R, Bickel A, **Handwerker HO**, Torebjörk HE. Specific C-receptors for itch in human skin. *J Neurosci*. **1997**;17(20):8003-8008.
2. Weidner C, Schmelz M, Schmidt R, Hammarberg B, Orstavik K, Hilliges M, Torebjörk HE, **Handwerker HO**. Neural signal processing: the underestimated contribution of peripheral human C-fibers. *J Neurosci* **2002**;22(15):6704-6712.
3. Schmelz M, Schmidt R, Weidner C, Hilliges M, Torebjörk HE, **Handwerker HO**. Chemical response pattern of different classes of C-nociceptors to pruritogens and algogens. *J Neurophysiol* **2003**;89(5):2441-2448
4. Orstavik K, Weidner C, Schmidt R, Schmelz M, Hilliges M, Jørum E, **Handwerker HO**, Torebjörk HE. Pathological C-fibres in patients with a chronic painful condition. *Brain* **2003**. 126:567-578.
5. Maihofner C, **Handwerker HO**. Differential coding of hyperalgesia in the human brain: a functional MRI study. *Neuroimage* **2005**. 28:996-1006.
6. **Handwerker HO**, Schmelz M. Pain: itch without pain-a labeled line for itch sensation? *Nature Reviews Neurology* **2009**. 5(12):640-641.
7. Hartmann EM, **Handwerker HO**, Forster C. Gender Differences in Itch and Pain- Related Sensations Provoked by Histamine, Cowhage and Capsaicin. *Acta Derm Venereol* **2014**. 95:25-30
8. Vierow V, Forster C, Vogelgsang R, Dörfler A, **Handwerker HO**. Cerebral Networks Linked to Itch-related Sensations Induced by Histamine and Capsaicin. *Acta Derm Venereol*. **2015**. 95:645-52.
9. **Handwerker HO**: Itch Hypotheses: From Pattern to Specificity and to Population Coding. *Frontiers in Neuroscience*. (2014) In "Itch: Mechanisms and Treatment." ed. by Carstens E, Akiyama T.
10. Namer B, Ørstavik K, Schmidt R, Kleggetveit IP, Weidner C, Mørk C, Kvernebo MS, Kvernebo K, Salter H, Carr TH, Segerdahl M, Quiding H, Waxman SG, **Handwerker HO**, Torebjörk HE, Jørum E, Schmelz M.: Specific changes in conduction velocity recovery cycles of single nociceptors in a patient with erythromelalgia with the I848T gain-of-function mutation of Nav1.7. *Pain*, **2015**. 156:1637-46