

Jürgen Sandkühler. M.D., Ph.D.



Résumé

University education

1977 - 1983	Medical School, Heidelberg University, Germany
1982 - 1983	Visiting scholar, University of Iowa, IA, USA (with Prof. G.F. Gebhart)
1983 - 1984	Medical School, Freiburg University, Germany
1984	Diploma: Graduation M.D.
1988	Diploma: State Doctorate, Ph.D. (in Physiology)

Professional Development

1984 - 1985	Basic military service Military Surgeon , Mannheim, Germany
1985 - 1995	Institute of Physiology, Heidelberg University, Germany
1985 - 1988	Postdoctoral Fellow
1988 - 1989	Lecturer of Physiology
1989 - 1995	Assistant Professor
1995 - 2000	Heisenberg-Award (Professorship) from the Deutsche Forschungsgemeinschaft (DFG)
1995	Institute of Physiology and Pharmacology, Iowa State University, U.S.A., Visiting Professor with Prof. Mirjana Randić
1996 - 2001	Institute of Physiology, Heidelberg University, Germany Assistant Professor
1996 - 1997	Institute of Physiology, Freiburg University, Germany Visiting Professor with Prof. Peter Jonas
1999 - 2001	Speaker, Multidisciplinary Research Programme „Pain“ Medical Faculty, Heidelberg University, Germany

Since 2001 **Full Professor of Neurophysiology**, Department of Neurophysiology,
Center for Brain Research, Medical University of Vienna, Austria

2004-2007 **Deputy Director**, Center for Brain Research, Medical University of Vienna

Since 2007 **Director**, Center for Brain Research, Medical University of Vienna

Scientific Activities:

Editorial Board Member: *Science; The Journal of Neuroscience; Pain; The Journal of Pain, Molecular Pain*

Executive Board: Austrian Chapter of the IASP

Memberships: - IASP
- German and Austrian chapters of the IASP
- Society for Neuroscience
- German Neuroscience Association
- German Physiological Society

Referee: for all major Neuroscience and Pain journals including *Science, Nature, Neuron, Cell, Pain, The Journal of Neuroscience*

Major Current Funding: WWTF grant LS07-040; FWF grant P22306-B19

Major Recent Funding: Anniversary Fund of the Oesterreichische Nationalbank grant # 10494;
FWF grant #P18129-B02; FWF grant #P15542-B02; FWF grant #P19637-B02

Select. Recent Lectures: Key note lectures at the IASP-World Congress on Pain, 2010 in Montreal, Canada; at the IASP Satellite Symposia 2011 in Shanghai, China and 2013 in Netherlands; EFIC Pain in Europe Conference 2013 in Florence, Italy.

Publications: List and download of full-length articles:
<http://cbr.meduniwien.ac.at/research/publications/by-department/id/all/7>

Present Address and Position:

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Ten most relevant publications

Original articles

1. Draxler P, Honsek SD, Forsthuber L, Hadschieff V, Sandkühler J. (2014) VGluT3⁺ primary afferents play distinct roles in mechanical and cold hypersensitivity depending on pain etiology **J Neurosci**, 34: 12015-12018.
2. Clark A, Gruber-Schoffnegger D, Drdla-Schutting R, Gerhold K, Malcangio M, Sandkühler J (2015) Selective activation of microglia facilitates synaptic strength **J. Neurosci.**, 35: 4552-4570.
3. Drdla-Schutting R, Benrath J, Wunderbaldinger G, Sandkühler J (2012) Erasure of a spinal memory trace of pain by a brief, high-dose opioid administration **Science**, 335: 235-238.
4. Heintz C, Drdla-Schutting R, Xanthos D, Sandkühler J (2011) Distinct mechanisms underlying pronociceptive effects of opioids **J Neurosci**, 31: 16748–16756.
5. Drdla R., Gassner M., Gingl E., Sandkühler J. (2009) Induction of synaptic long-term potentiation after opioid withdrawal **Science**, 325: 207-210.
6. Ikeda H., Stark J., Fischer H., Wagner M., Drdla R., Jäger T., Sandkühler J. (2006) Synaptic amplifier of inflammatory pain in the spinal dorsal horn. **Science**, 312: 1659-1662.
7. Ikeda H., Heinke B., Ruscheweyh R., Sandkühler J. (2003) Synaptic plasticity in spinal lamina I projection neurons that mediate hyperalgesia **Science**, 299: 1237-1240.

Review articles

8. Xanthos DN, Sandkühler J (2014) Neurogenic neuroinflammation: inflammatory CNS reactions in response to neuronal activity **Nat Rev Neurosci**, 15: 43-53.
9. Sandkühler J, Lee J (2013) How to erase memory traces of pain and fear **Trends Neurosci**, 36: 343-352.
10. Sandkühler J. (2009) Models and mechanisms of hyperalgesia and allodynia. **Physiol Rev**, 89: 707-758.