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Curriculum Vitae

- 2008 Professor, Klinik für Anaesthesiologie und operative Intesivmedizin, Freie Universität Berlin and Charité-Universitätsmedizin, Campus Benjamin Franklin, Berlin.
- 1998-2008 Research associate, Klinik für Anaesthesiologie und operative intensivmedizin, Freie Universität Berlin and Charité-Universitätsmedizin, Campus Benjamin Franklin, Berlin.
- 1997-1998 Postdoctoral fellow, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University, and Preclinical Pharmacology Laboratory, National Institute on Drug Abuse /National Institutes of Health, Baltimore, USA.
- 1989-1996 Ph.D. with honors, Department of Molecular Neuropharmacology, Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland.
- 1984-1989 M.Sc., Faculty of Biology, Jagiellonian University, Krakow, Poland.

Funding (selected)

DFG (Deutsche Forschungsgemeinschaft), MA 2437/4-1
Principal Investigator of the project: "Contribution of opioid peptides and receptors in immune cells to exogenous opioid control of neuropathic pain". 2010 – 2014

BMBF (Bundesministerium für Bildung und Forschung), Musculoskeletal Diseases, ImmunoPain 01 EC 1004 C
Co-Investigators (Radbruch A, Chang H-D, Machelska H) of the project: "Correlated mechanisms of joint inflammation and chronification of pain in arthritis". 2010 – 2013

DFG, MA 2437/2-1.
Principal Investigator of the project: "Opioid analgesia in inflammation: activation by catecholamines and inhibitors of opioid peptide-degrading enzymes". 2008 – 2013.

DFG, KFO 100/2 "Molecular mechanisms of opioid analgesia in inflammatory pain".
Principal Investigator of project 1: "Immune-derived opioids and neuropathic pain". 2005 - 2008.

BMBF, "German-Polish Cooperation in Neuroscience".
Co-Principal investigator and coordinator of the project: "Peripheral analgesic effects of endomorphins in chronic inflammatory and neuropathic pain – mechanisms and therapeutic implications". 2003 -2006.

DFG, KFO 100/1 "Molecular mechanisms of opioid analgesia in inflammatory pain".
Principal investigator of project 1: "Adhesion molecules and peripheral opioid analgesia". 2001 - 2004.

Publications

Original articles

Labuz D, Schreiter A, Schmidt Y, Brack A, Machelska H. T lymphocytes containing beta-endorphin ameliorate mechanical hypersensitivity following nerve injury. **Brain Behav Immun** 2010, 24:1045-1053.

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Brack A, Rittner HL, Machelska H, Leder K, Mousa SA, Schäfer M, Stein C. Control of inflammatory pain by chemokine-mediated recruitment of opioid-containing polymorphonuclear cells. **Pain** 2004, 112:229-238.

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Przewlocka B, Lason W, Machelska H, Przewlocki R. The effects of cocaine-induced seizures on the proenkephalin mRNA level in the mouse hippocampus: a possible involvement of the nitric oxide pathway. **Neurosci Lett** 1994, 168:81-84.

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Machelska H. Targeting of opioid-producing leukocytes for pain control. **Neuropeptides** 2007, 41:285-293.

Rittner HL, Machelska H, Schafer M, Stein C, Brack A. Comment on "Neutrophils: are they hyperalgesic or anti-hyperalgesic?". **J Leukoc Biol** 2006, 80:729-730.

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Rittner HL, Machelska H, Stein C. Leukocytes in the regulation of pain and analgesia. **J Leukoc Biol** 2005, 78:1215-1222.

Stein C, Schäfer M, Machelska H. Attacking pain at its source: new perspectives on opioids. **Nature Med** 2003, 9:1003-1008.

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Book

Machelska H, Stein C. (Eds.) Immune mechanisms of pain and analgesia. Landes Bioscience/Eurekah.com, Georgetown, Texas, USA and Kluwer Academic/Plenum Publishers, New York, New York, USA, 2003.

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Machelska H, Stein C. Analgesic effects of immune cell-derived opioids. In: Immune and Glial Regulation of Pain. Eds. DeLeo JA, Sorkin LS, Watkins LR. IASP Press, Seattle 2007, pp. 107-120.

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Machelska H, Binder W, Stein C. Opioid receptors in the periphery. In: Opioid sensitivity of chronic non-cancer pain. Eds. Kalso E, McQuay HJ, Wiesenfeld-Hallin Z. IASP Press, Seattle, 1999, pp. 5-58.