

Prof. Dr. NORBERT WEIDNER

Date of birth: 5 April, 1966
Gender: Male
Address: Spinal Cord Injury Center
Heidelberg University Hospital
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Email: norbert.weidner@med.uni-heidelberg.de
Position: Director and Chair, Spinal Cord Injury Center
Children: Four (* 2001, *2003, *2007, *2007)



CURRICULUM VITAE

University education

1986 – 1993 Medical School, University of Würzburg, Germany

Scientific degrees

2005 Habilitation and Venia legendi in Neurology, Mentor: Prof. Bogdahn, Dept. of Neurology, Regensburg University Hospital, Germany
1995 Doctoral Dissertation in Neurology, Mentor: Prof. Krauseneck, Julius-Maximilian University of Würzburg, Germany

Professional experience

Since 2009 Chair, Spinal Cord Injury Center, Heidelberg University Hospital
2007 - 2009 Head, out-patient clinic for movement disorders and motoneuron diseases, Department of Neurology, University of Regensburg, Germany
2007 - 2009 Head, teaching curriculum clinical neurosciences, International Elite Master's Programme in Experimental/Clinical Neurosciences, University of Regensburg
2005 - 2006 Head, telemedicine project TEMPIS, Department of Neurology, University of Regensburg
2004 - 2009 Attending physician, Department of Neurology, University of Regensburg, Germany, Prof. U. Bogdahn
2001 - 2002 Scientific Exchange Program, University of California, San Diego, USA, Prof. M.H. Tuszynski
1999 - 2004 Staff scientist/resident, Department of Neurology, University of Regensburg, Germany, Prof. U. Bogdahn
1996 - 1999 Postdoctoral fellow, Department of Neurosciences, University of California, San Diego, USA, Prof. M.H. Tuszynski
1995 - 1996 Clinical resident, Department of Neuropathology, University of Heidelberg, Germany, Prof. M. Kiessling
1993 - 1995 Resident First Year, Department of Neurology University of Würzburg, Germany, Prof. K.V. Toyka

Academic functions and awards:

Panels and coordinating functions:

- 2016 Coordinating Investigator, Clinical Trial "Antibodies against Nogo-A to enhance plasticity, regeneration and functional recovery after acute spinal cord injury"
- Since 2012 Chair Clinical Practice Guidelines Deutschsprachige Medizinische Gesellschaft für Paraplegiologie (DMGP)

Awards and honors

- 2002 Stipend ReForM-Program University of Regensburg
- 2000 Stipend International Institute for Research in Paraplegia
- 2001 Award Bavaria California Technology Center
- 2001 Research Award German Paraplegia Foundation DSQ
- 1996 Stipend Canadian Spinal Research Organisation

Editorial boards

- Since 2018 Neurological Research and Practice
- Since 2012 Plos One

A) Publications:

- Sliwinski C, Nees TA, Puttagunta R, Weidner N, Blesch A. Sensorimotor activity partially ameliorates pain and reduces nociceptive fiber density in the chronically injured spinal cord. **Journal of Neurotrauma** 2018; 35 (18): 2222-2230
- Sandner B, Puttagunta R, Motsch M, Bradke F, Ruschel J, Blesch A, Weidner N. Systemic epothilone D improves hindlimb function after spinal cord contusion injury in rats. **Experimental Neurology** 2018;306:250-259.
- Kucher K, Johns D, Maier D, Abel R, Badke A, Baron H, Thietje R, Casha S, Meindl R, Gomez-Mancilla B, Pfister C, Rupp R, Weidner N, Mir A, Schwab ME, Curt A. First-in-Man intrathecal application of neurite growth-promoting anti-Nogo-A antibodies in acute spinal cord injury. **Neurorehabilitation and Neural Repair** 2018;32(6-7):578-589.
- Warner FM, Cragg JJ, Jutzeler CR, Rohrich F, Weidner N, Saur M, Maier DD, Schuld C, Curt A, Kramer JK. Early administration of Gabapentinoids improves motor recovery after human spinal cord injury. **Cell Reports** 2017;18(7):1614-1618.
- Nees TA, Tappe-Theodor A, Sliwinski C, Motsch M, Rupp R, Kuner R, Weidner N, Blesch A. Early-onset treadmill training reduces mechanical allodynia and modulates calcitonin gene-related peptide fiber density in lamina III/IV in a mouse model of spinal cord contusion injury. **Pain** 2016;157(3):687-697.
- Cragg JJ, Haefeli J, Jutzeler CR, Rohrich F, Weidner N, Saur M, Maier DD, Kalke YB, Schuld C, Curt A, Kramer JK. Effects of pain and pain management on motor recovery of spinal cord-injured patients: A longitudinal study. **Neurorehabilitation and Neural Repair** 2016;30(8):753-761.
- Ruschel J, Hellal F, Flynn KC, Dupraz S, Elliott DA, Tedeschi A, Bates M, Sliwinski C, Brook G, Dobrindt K, Peitz M, Brustle O, Norenberg MD, Blesch A, Weidner N, Bunge MB, Bixby JL, Bradke F. Axonal regeneration. Systemic administration of epothilone B

promotes axon regeneration after spinal cord injury. **Science** 2015;348(6232):347-352.

Prang P, Muller R, Eljaouhari A, Heckmann K, Kunz W, Weber T, Faber C, Vroemen M, Bogdahn U, Weidner N. The promotion of oriented axonal regrowth in the injured spinal cord by alginate-based anisotropic capillary hydrogels. **Biomaterials** 2006;27(19):3560-3569.

Pfeifer K, Vroemen M, Blesch A, Weidner N. Adult neural progenitor cells provide a permissive guiding substrate for corticospinal axon growth following spinal cord injury. **The European journal of Neuroscience** 2004;20(7):1695-1704.

Weidner N, Ner A, Salimi N, Tuszynski MH. Spontaneous corticospinal axonal plasticity and functional recovery after adult central nervous system injury. **Proc Natl Acad Sci U S A** 2001;98(6):3513-3518.

B) Patents: -

Scientific collaborations beyond the planned Collaborative Research Centre

Armin Curt, University Hospital Zürich Balgrist, Switzerland

Armin Blesch, Indiana University School of Medicine, Switzerland

Kip Kramer, University of British Columbia, Canada