



Curriculum Vitae

Personal information **volker Dietz**

Work experience

01/03/2009 – CURRENT – Zürich, Switzerland

SENIOR SCIENTIST – University Hospital Balgrist

Research on movement control and movement disorders. Advising students in research. Publication of Textbooks

01/07/1992 – 28/02/2009 – Zürich, Switzerland

DIRECTOR SPINAL CORD INJURY CENTER AND CHAIR OF PARAPLEIOLOGY UNIVERSITY OF ZÜRICH – University of Zürich and University Hospital Balgrist

Taking care of paraplegic patients, education of medical doctors in Paraplegiology, teaching students in the care of spinal cord injury, research in movement and movement disorders

01/07/1975 – 30/06/1992 – Freiburg, Germany

SENIOR NEUROLOGIST (OBERARZT) – University of Freiburg

Taking care of neurologic patients, supervision of medical doctors, teaching of students in neurology, research in motor control

01/07/1970 – 30/06/1975 – Freiburg, Germany

MEDICAL ASSISTANT IN NEUROLOGY – University of Freiburg

Education in clinical neurology and psychiatry, research in motor control

Education and training

01/09/1964 – 30/06/1970 – Freiburg, Germany

MEDICAL DOCTOR – University of Freiburg

Additional information

Publications

Peer reviewed publications

Peer-reviewed original research articles 323; h-index: 105, citations: 38'600 (November 2020)

Most relevant publications 2015-2020

Dietz V, Macaуда G, Schrafl-Altarmatt M, Wirz M, Kloter E, Michels L (2015) Neural coupling of cooperative hand movements: A reflex and fMRI study. *Cerebral Cortex* 25: 948-958; Advance Access publication Oct 2013. Schrafl-Altarmatt M, Dietz V (2016) Cooperative hand movements in post-stroke subjects: Neural reorganisation. *Clinical Neurophysiology* 127:748-754.

Dietz V, Schwab ME (2017) From rodent spinal cord injury model to human application. Promises and challenges. *Journal of Neurotrauma* 34: 1826-1830

Wirz M, Mach O, Maier D, Benito-Penalva J, Taylor J, Esclarin A, Dietz V and the EMSCI network (2017) Effectiveness of automated locomotor training in patients with acute incomplete spinal cord injury: A randomized controlled multicenter trial. *Journal Neurotrauma* 34: 1891-1896.

Gassert R, Dietz V (2018) Rehabilitation robots for the treatment of sensorimotor deficits require a neurophysiological basis: A neurophysiological perspective. *Journal of NeuroEngineering and Rehabilitation* 15:46. DOI: 1186/s12984-018-0383-x. Michels L, Dietz V, Schättin A, Schrafl-Altarmatt M (2018) Neuroplastic changes in older adults performing cooperative hand movements. *Frontiers in Human Neuroscience* 12:488. doi: 10.3389/fnhum.2018.00488.

Scharfenberger T, Schrafl-Altarmatt M, Dietz V (2018) Cooperative hand movements in tetraplegic patients: Preserved neural coupling. *Clinical Neurophysiology* 129: 2059-2064.

Caldelari P, Lemon R, Dietz V (2020) Differential neural coordination of bilateral hand and finger movements. *Physiological Reports* DOI: 10.14814/phy2.14393.

Dietz V (2020) Neural coordination of bilateral power and precision finger movements. *European Journal of Neuroscience*, <https://doi.org/10.1111/ejn.14911>.

Textbooks

Dietz V, Nef T, Rymer Z (2012) Neurorehabilitation Technology. Springer, London.

Reinkensmeyer D and Dietz V (2016) Neurorehabilitation Technology; 2 Edition. Springer, London
Dietz V, Ward N (2015) Oxford Textbook of Neurorehabilitation. Oxford University Press, Oxford.

Dietz V, Ward N (2020) Oxford Textbook of Neurorehabilitation. 2 Edition, Oxford University Press, Oxford egia (DMGP)

Reinkensmeyer D, Marchal-Crespo L and Dietz V (2022) Neurorehabilitation Technology, 3rd Edition, Springer, London

Projects

Memberships

Member of the Scientific Advisory Board of 1. The 'German Center for Vertigo and Balance Disorders', Ludwig Maximilians Universität München (2009-2019); 2. The Koetser Foundation for Brain Research (since 1992); and, 3. The Hocoma company (CH Volketswil), a spin-off of the Paraplegic Center Balgrist (2008-2015). Member of the Data Safety Monitoring Board (DSMB) of the EU-sponsored 'Rückenmarkprotektions-Studie bei Aorteneingriffen (PAPA-ARTIS), Leipzig (since 2017). Consultant for the German Research Council, VW-Foundation, Swiss National Science Foundation, Danish National Research Foundation 1997, British MRC Council (1998), Research Council of the NASA/ESA (1997, 1999), European Commission (1999;2009) and Member of the Scientific Committee „International Spinal Research Trust“ (1999-2014). -External panel of 'International Collaboration on Repair Discoveries' (ICOS) in Vancouver (2001-2010).

Other Relevant Information