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Research areas:

Physiology and pathophysiology of the human cerebellum, role of the cerebellum in motor control, learning and cognition, clinical neuroscience.

Academic education:

1988 MD, University of Tübingen

1990 Dr. med., University of Tübingen

1996 Specialist in Neurology

1998 Habilitation with the *venia legendi* for Neurology, University of Essen**Academic positions:**

1989-1993 Intern/resident Department of Neurology, faculty of Medicine and University Clinic Essen

1993-1994 Postdoc at the Arizona State University, Tempe, and Barrow Neurological Institute, Phoenix, Arizona, USA

1994-1995 Postdoc at the R.D. Dow Neurological Sciences Institute, Portland, Oregon, USA

1995-1997 Resident Department of Neurology, faculty of Medicine and University Clinic Essen

1998-1999 Postdoc at the University of Western Ontario, Department of Physiology, London, Ontario, Canada

since 2000 Associate Professor (C3) of Experimental Neurology, Department of Neurology, Faculty of Medicine and University Clinic Essen

2006 Visiting Scientist at the University of Western Ontario, Department of Physiology, London, Ontario, Canada

Further activities:

since 1997 Medical advisory board German Heredo-Ataxia Society

since 2006 Deputy chairman of the Human research ethics committee, University Clinic Essen

since 2007 Founding member and treasurer Society for Research on Cerebellum

Publications of the last 5 years:

1. Schwabe, A., Drepper, J., Maschke, M., Diener, H.C. and Timmann, D., The role of the human cerebellum in short- and long-term habituation of postural responses, **Gait & Posture**, 2004, 19: 16-23.
2. Richter, S., Maschke, M., Timmann, D., Konczak, J., Kalenscher, T., Illenberger, A.R. and Kalveram, K-T., Adaptive behavior of cerebellar patients during exposure to unfamiliar external forces, **J. Mot. Behav.**, 2004, 36: 28-38.
3. McNaughton, S., Timmann, D., Watts, S. and Hore, J., Overarm throwing speed in cerebellar subjects: effect of timing of ball release, **Exp. Brain Res.**, 2004, 154: 470-478.

4. Gerwig, M., Dimitrova, A., Maschke, M., Kolb, F.P., Forsting, M. and Timmann, D., Amplitude changes of unconditioned eyeblink responses in patients with cerebellar lesions, **Exp. Brain Res.**, 2004, 155: 341-351.
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6. Dimitrova, A., Kolb, F.P., Elles, H.G., Maschke, M., Gerwig, M., Gizewski, E. and Timmann, D., Cerebellar activation during leg withdrawal reflex conditioning: an fMRI study, **Clin. Neurophysiol.**, 2004, 115: 849-857.
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9. Gizewski, E., Timmann, D. and Forsting, M., Specific cerebellar activation during Braille reading in blind subjects, **Hum. Brain Mapp.**, 2004, 22: 229-235.
10. Kolb, F.P., Lachauer, S., Maschke, M. and Timmann, D., Classically conditioned postural reflex in cerebellar patients, **Exp. Brain Res.**, 2004, 158: 163-179.
11. Frings, M., Gerwig, M., Boenisch, R., Diener, H.C. and Timmann, D., Learning of sensory sequences in cerebellar patients, **Learn. Mem.**, 2004, 11: 347-355.
12. Ozimek, A., Richter, S., Hein-Kropp, C., Schoch, B., Gorißen, B., Kaiser, O., Gizewski, E., Ziegler, W. and Timmann, D., Cerebellar mutism: Report of four cases, **J. Neurol.**, 2004: 251: 963-972.
13. Richter, S., Matthies, K., Ohde, T., Dimitrova, A., Gizewski, E., Aurich, V., Beck, A. and Timmann, D., Stimulus-response vs. stimulus-stimulus-response learning in cerebellar patients, **Exp. Brain Res.**, 2004, 158: 438-449.
14. Schoch, B., Gorißen, B., Richter, S., Ozimek, A., Kaiser, O., Dimitrova, A., Regel, J.P., Wieland, R., Hövel, M., Gizewski, E. and Timmann, D., Do children with focal cerebellar lesions show deficits in shifting attention?, **J. Neurophysiol.**, 2004, 92: 1856-1866.
15. Nowak, D.A., Hermsdörfer, J., Rost, K., Timmann, D. and Topka, H., Proactive and reactive finger force control during catching in cerebellar degeneration, **Cerebellum**, 2004, 3: 227-235.
16. Hermsdörfer, J., Nowak, D.A., Lee, A., Rost, K., Timmann, D. and Boecker, H., The representation of predictive force control and internal forward models: evidence from lesion studies and brain imaging, **Cogn. Process. Int. Quart. Cogn. Sci.**, 2005, 6: 48-58 (review).

17. Nowak, D.A., Hermsdörfer, J., Timmann, D., Rost, K. and Topka, H., Impaired generalization of weight-related information during grasping in cerebellar degeneration, **Neuropsychologia**, 2005, 43: 20-27.
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20. Timmann, D., Gerwig, M., Maschke, M. and Kolb, F.P., Eyeblink conditioning in patients with hereditary ataxia: a one year follow-up study, **Exp. Brain Res.**, 2005, 162: 332-345.
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22. Rost, K., Nowak, D.A., Timmann, D. and Hermsdörfer, J., Preserved and impaired aspects of predictive grip force control in cerebellar patients, **Clin. Neurophysiol.**, 2005, 116: 1405-1414.
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25. Richter, S., Dimitrova, A., Maschke, M., Gizewski, E., Beck, A., Aurich, V. and Timmann, D., Degree of cerebellar ataxia correlates with 3D-MRI based cerebellar volume in pure cerebellar degeneration, **Eur. Neurol.**, 2005, 54: 23-27.
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- children and adolescents with cerebellar tumours, **Neuropediatrics**, 2006, 37: 350-358.
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65. Dimitrova, A., Gerwig, M., Brol, B., Gizewski, E.R., Forsting, M., Beck, A., Aurich, V., Kolb, F.P. and Timmann, D., Correlation of cerebellar volume with eyeblink conditioning in healthy subjects and in patients with cerebellar cortical degeneration, **Brain Res.**, 2008, 1198: 73-84.
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