

Prof. Dr. Thomas Misgeld (*August 30, 1971)

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Training

- 1991 - 1998 Studies of Medicine, TU Munich
- 1993 - 1999 Dr. med. (Neuroimmunology), 'summa cum laude', Max Planck Institute of Neurobiology, Supervisor: H. Wekerle
- 1998 - 2000 Resident ("Arzt im Praktikum"), LMU Munich, Germany
- 2000 - 2004 Postdoctoral fellow with Jeff Lichtman and Joshua Sanes, Washington University in St. Louis
- 2004 - 2006 Postdoctoral fellow with Jeff Lichtman and Joshua Sanes, Harvard University, Cambridge

Academic positions & appointments

- since 2006 Faculty, Neurobiology Course. Marine Biological Laboratory, Woods Hole
- 2006 - 2011 Sofja Kovalevskaja Group Leader, TU Munich
- 2008 - 2012 Hans Fischer Tenure Track Fellow Institute of Advanced Studies, TU Munich
- since 2009 Member, CIPSM Excellence Cluster
- 2009 - 2012 Tenure Track W3 Professor for Biomolecular Sensors, TU Munich
Principal Investigator, CIPSM Excellence Cluster
- since 2012 Full Professor and Director, Institute of Neuronal Cell Biology, TU Munich
Co-Coordinator and Principal Investigator, SyNergy Excellence Cluster
Member, German Center for Neurdegenerative Diseases
Associate Investigator, CIPSM Excellence Cluster
- since 2013 Member, Munich Center for Neuroscience (MCN)
- since 2014 Faculty, TUM Graduate School of Bioengineering (GSB)
Associate Faculty, Graduate School of Systems Neuroscience (GSN)

Awards & honors

- 1991 - 1997 Scholarship for gifted students by the Bavarian government
- 1993 - 1998 Fellow of the German Academic National Foundation ('Studienstiftung')
- 1999 Thesis award for the best thesis in medicine, TU Munich
- 2002 Emmy Noether Fellowship, phase I, DFG
- 2004 Wyeth Young Investigator Award for multiple sclerosis research
- 2005 Robert Feulgen Prize, Society for Histochemistry
- 2005 Offer of Canadian Research Chair, tier II
- 2005 Offer of Emmy Noether Fellowship, phase II, DFG
- 2006 Sofja Kovalevskaja Award, Alexander von Humboldt Foundation

2007	Schilling Award, German Neuroscience Society
2008	Hans Fischer Tenure Track Fellowship, TUM Institute for Advanced Studies
2012	Hans und Ilse Breuer Award in Alzheimer's Disease and Neurodegeneration
2014	ERC Consolidator Grant

10 key publications

Sorbara, C.D., Wagner, N.E., Ladwig, A., Nikić, I., Merkler, D., Kleele, T., Marinković, P., Naumann, R., Godinho, L., Bareyre, F.M., Bishop, D., **Misgeld, T.*** and Kerschensteiner, M.* 2014. Pervasive axonal transport deficits in multiple sclerosis models. *Neuron* 84: 1183-1190. (* equal senior authors)

Williams, P.R., Bogdan-Nicolae, M., Sorbara, C.D., Mahler, C.F., Schumacher, A.-M., Griesbeck, O., Kerschensteiner, M.* and **Misgeld, T.*** A recoverable state of axon injury persists for several hours after spinal cord contusion *in vivo*. *Nature Communications* 5: 5683. (* equal senior authors)

Kleele, T., Marinković, P., Williams, P.R., Brill, M., Stern, S., Weigand, E.E., Engerer, P., Naumann, R., Hartmann, J., Karl, M.K., Bradke, F., Bishop, D., Herms, J., Konnerth, A., Kerschensteiner, M., Godinho, L. & **Misgeld, T.** 2014. Imaging of microtubular dynamics in intact mammalian axons. *Nature Communications* 5: 4827.

Breckwoldt, M.O., Pfister, F., Bradley, P.M., Marinkovic, P., Williams, P.W., Brill, M.S., Plomer, P., Schmalz, A., St. Clair, D.K., Naumann, R., Griesbeck, O., Schwarzländer, M., Godinho, L., Bareyre, F.M., Dick, T.P., Kerschensteiner, M.* and **Misgeld, T.*** 2014. Multi-parametric optical analysis of mitochondrial redox signals during neuronal physiology and pathology *in vivo*. *Nature Medicine* 20: 555-560. (* equal senior authors)

Marinković, P., Reuter, M.S., Brill, M.S., Godinho, L., Kerschensteiner, M.* and **Misgeld, T.*** 2012. Axonal transport deficits and degeneration can evolve independently in mouse models of amyotrophic lateral sclerosis. *Proceedings of the National Academy of Sciences USA* 109: 4296-4301. (* equal senior authors)

Plucińska, G., Paquet, D., Hruscha, A., Godinho, L., Haass, C., Schmid, B. & **Misgeld T.** 2012. In vivo imaging of disease-related mitochondrial dynamics in a vertebrate model system. *Journal of Neuroscience* 32: 16203-12.

Nikic, I., Merkler, D., Sorbara, C., Brinkoetter, M., Kreutzfeld, M., Bareyre, F.M., Brück, W., Bishop, D., **Misgeld, T.*** and Kerschensteiner, M.* 2011. A reversible form of axon damage in experimental autoimmune encephalomyelitis and multiple sclerosis. *Nature Medicine* 17: 495-499. (* equal senior authors)

Bishop, D., Nikic, I., Brinkoetter, M., Knecht, S., Potz, S., Kerschensteiner, M.*, and **Misgeld, T.*** 2011. NIRB – near infrared branding efficiently correlates light and electron microscopy. *Nature Methods* 8: 568-570. (* equal senior authors)

Misgeld, T.*, Kerschensteiner, M.*, Bareyre, F.M., Burgess, R.W., and Lichtman, J.W. 2007. *In vivo* imaging axonal transport of mitochondria in mammals. *Nat. Methods* 4: 559–561. (* equal first authors)

Kerschensteiner, M., Schwab, M.E., Lichtman, J.W., and **Misgeld, T.** 2005. *In vivo* imaging of axonal degeneration and regeneration in the injured spinal cord. *Nature Medicine* 11: 572-577.