

Dr. rer. nat. Li Zhang

Work History

- Postdoc, **Institute of Developmental Biology and Neurobiology (iDN)**
Johannes Gutenberg University Mainz, Mainz, Germany (Current-)
- Postdoc, **Institute of Molecular Medicine (IMM), University Medical Center Mainz**, Mainz, Germany (2017 - 2024)
- Visit Scholar, **Department of Physiology, Perelman School of Medicine, University of Pennsylvania**, Philadelphia, Pennsylvania, USA (5-7/2017, 7-9/2018)
- Postdoc, **Max Planck Institute for Molecular Biomedicine**, Münster, Germany (2015 - 2016)

Education

- **RWTH Aachen**, Aachen, Germany
 - Doctorate in Neuroscience (2016)
- **University of Regensburg**, Regensburg, Germany
 - Master of Science in Experimental & Clinical Neuroscience (2010)
- **National Huaqiao University**, Quanzhou, China
 - Bachelor of Science in Biotechnology (2007)

Publication

- **L Zhang**, P Karsten, S Hamm, JH Pogson, AK Müller-Rischart, N Exner, C Haass, AJ Whitworth, KF Winklhofer, JB Schulz, A Voigt. "TRAP1 rescues PINK1 loss-of-function phenotypes." *Human Molecular Genetics*. 2013 Jul 15; 22(14):2829-2841.
- J Navarro, S Heßner, S Yeniseetti, F Bayersdorfer, **L Zhang**, A Voigt, S Schneuwly, J Botella. "Analysis of dopaminergic neuronal dysfunction in genetic and toxin-induced models of Parkinson's disease in Drosophila." *Journal of Neurochemistry*. 2014 Jul 10. doi: 10.1111/jnc.12818.
- M Mallik, M Catinozzi, C Hug, **L Zhang**, M Wagner, J Bussmann, J Bittern, S Mersmann, C Klämbt, H Drexler, M Huynen, M Vaquerizas, E Storkebaum. "Xrp1 genetically interacts with the ALS-associated FUS ortholog caz and mediates its toxicity." *Journal of Cell Biology*. 2018 Sep 12. DOI: 10.1083/jcb.201802151.
- G Picchiarrelli, M Demestre, A Zuko, M Been, J Higelin, S Dieterlé, M-A Goy, M Mallik, C Sellier, J Scekcic-Zahirovic, **L Zhang**, A Rosenbohm, C Sijlmans, A Aly, S Mersmann, I Sanjuan-Ruiz, A Hübers, N Messaddeq, M Wagner, N van Bakel, A-L Boutillier, A Ludolph, C Lagier-Tourenne, T M Boeckers, L Dupuis, E Storkebaum. "FUS-mediated regulation of acetylcholine receptor transcription at neuromuscular junctions is

compromised in amyotrophic lateral sclerosis." *Nature Neuroscience*. 22 (11), 1793-1805, 2019.,

- B Seitaj*, F Maull*, **L Zhang**, V Wüllner, C Wolf, P Schippers, R La Rovere, U Distler, S Tenzer, JB Parys, G Bultynck, A Methner. "Transmembrane BAX Inhibitor-1 Motif Containing Protein 5 (TMBIM5) Sustains Mitochondrial Structure, Shape, and Function by Impacting the Mitochondrial Protein Synthesis Machinery." *Cells*. 2021; 9(10): 2147.
- F Dietsche, **L Zhang**, JW Elrod, A Methner. "MICU1 opens the gates to cold-induced death." *Cell Calcium*. 98, 102451, 2021.
- **L Zhang**, S Buhr, A Voigt, A Methner. "The Evolutionary Conserved Transmembrane BAX Inhibitor Motif Containing Protein Family Members 5 and 6 Are Essential for the Development and Survival of Drosophila." *Frontiers in Cell and Developmental Biology*. 9, 2021.
- **L Zhang***, F Dietsche*, B Seitaj*, L Rojas-Charry, N Latchman, D Tomar, R CI Wüst, A Nickel, K BM Frauenknecht, B Schoser, S Schumann, MJ Schmeisser, J v Berg, T Buch, S Finger, P Wenzel, C Maack, JW Elrod, JB Parys, G Bultynck, A Methner. "TMBIM5 loss of function alters mitochondrial matrix ion homeostasis and causes a skeletal myopathy." *Life Science Alliance*. 17 June 2022.
- S Bitar, T Baumann, C Weber, M Abusaada, L Rojas-Charry, P Ziegler, T Schettgen, IE Randerath, V Venkataramani, B Michalke, EM Hanschmann, G Arena, R Krüger, **L Zhang**[#], A Methner[#]. "Iron-sulfur cluster loss in mitochondrial CISD1 mediates PINK1 loss-of-function phenotypes." *eLife*. 8, 2024.