

Ulf Toelch

Curriculum Vitae

SCIENTIFIC POSITIONS AND DEGREES

- 2021 – now **Research Group Leader *Systemic Perspectives in Translational Biomedicine***, BIH QUEST Center for Responsible Research, Berlin Institute of Health at Charité, Germany.
- 2017 – now **Project Leader *Education and Scientific Quality***, BIH QUEST Center for Responsible Research, Berlin Institute of Health at Charité, Germany.
- 2020 **Habilitation in Psychology**, Freie Universität Berlin, Germany.
- 2015 – 2017 **Researcher**, *Biological Psychology and Cognitive Neurobiology*, Freie Universität Berlin, Germany.
- Description Neurobiological basis and computational models of social information use.
- 2011 – 2014 **Einstein Post-doctoral fellow**, *Berlin School of Mind and Brain*, Humboldt University, Berlin, Germany.
- 2010 –2011 **Post-doctoral fellow**, *Cognitive Neurobiology*, Humboldt University, Berlin, Germany.
- 2006 – 2010 **Post-doctoral fellow**, *Department of Biology*, Utrecht University, The Netherlands.
- 2006 **Software developer, project manager, and researcher**, *Munich*.
- 2006 **PhD in Biology**, *Department Biology II (Ludwig Maximilians University) and Max Planck Institute for Ornithology*, Munich and Seewiesen.
- 2002 **Diploma in Biology**, *Department Zoology*, Christian- Albrechts Universtity, Kiel..

Awards and Distinctions

- 2017 Teaching Award in Psychology 2017; FU Berlin
- 2017 FU Berlin Central Teaching Award for *Digital Open Science Project*

Publications

- Arroyo-Araujo, M., Carneiro, C. F. D., Piper, S., Wilcke, J., Ellenbach, N., Boulesteix, A.-L., Emprechtinger, R., Haller, B., Ineichen, B. V., Riecken, L. B., Voelkl, B., Held, L., Konietzschke, F., & Toelch, U. (2024, September 24). Data analysis planning and reporting for confirmatory multi-lab preclinical trials. <https://doi.org/10.31222/osf.io/cnuh7>
- Siafis, S., Nomura, N., Schneider-Thoma, J., Bighelli, I., Bannach-Brown, A., Ramage, F. J., Tinsdeall, F., Mantas, I., Jauhar, S., Natesan, S., Vernon, A. C., Bartolomeis, A. d., Hölter, S. M., Drude, N. I., Tölch, U., Hansen, W.-P., Chiocchia, V., Howes, O. D., Priller, J., . . . Leucht, S. (2024, September 6). Muscarinic receptor agonists in animal models of psychosis: Protocol for a systematic review and meta-analysis. <https://doi.org/10.12688/f1000research.155356.1>
- Carneiro, C. F. D., Drude, N., Hülsemann, M., Collazo, A., & Toelch, U. (2023). Mapping strategies towards improved external validity in preclinical translational research. *Expert Opinion on Drug Discovery*, 1–13. <https://doi.org/10.1080/17460441.2023.2251886>
- Duncan, C., Toelch, U., Walter, H., & Dziobek, I. (2023). Ethnic discrimination unlearned: Experience in the repeated Trust Game reduces trust bias. *Frontiers in Psychology*, 14.
- Piper, S. K., Zocholl, D., Toelch, U., Roehle, R., Stroux, A., Hoessler, J., Zinke, A., & Konietzschke, F. (2023). Statistical review of animal trials—A guideline. *Biometrical Journal*, 65(2), 2200061. <https://doi.org/10.1002/bimj.202200061>
- Bruckner, T., Wieschowski, S., Heider, M., Deutsch, S., Drude, N., Tölch, U., Bleich, A., Tolba, R., & Strech, D. (2022). Measurement challenges and causes of incomplete results reporting of biomedical animal studies: Results from an interview study [Publisher: Public Library of Science]. *PLOS ONE*, 17(8), e0271976. <https://doi.org/10.1371/journal.pone.0271976>
- Drude, N. I., Martinez-Gamboa, L., Danziger, M., Collazo, A., Kniffert, S., Wiebach, J., Nilsonne, G., Konietzschke, F., Piper, S. K., Pawel, S., Micheloud, C., Held, L., Frommlet, F., Segelcke, D., Pogatzki-Zahn, E. M., Voelkl, B., Friede, T., Brunner, E., Dempfle, A., . . . Toelch, U. (2022). Planning preclinical confirmatory multicenter trials to strengthen translation from basic to clinical research – a multi-stakeholder workshop report. *Translational Medicine Communications*, 7(1), 24. <https://doi.org/10.1186/s41231-022-00130-8>
- Hülsemann, M., Wiebach, J., Drude, N. I., Kniffert, S., Behm, L., Hönzke, K., Baumgardt, M., Hippenstiel, S., Hocke, A. C., Dirnagl, U., & Toelch, U. (2022). Introducing quality measures in an academic research consortium. *EMBO reports*, 23(8), e55095. <https://doi.org/10.15252/embr.202255095>
- Drude, N. I., Martinez Gamboa, L., Danziger, M., Dirnagl, U., & Toelch, U. (2021a). Improving preclinical studies through replications. *eLife*, 10, e62101. <https://doi.org/10.7554/eLife.62101>
- Drude, N. I., Martinez Gamboa, L., Danziger, M., Dirnagl, U., & Toelch, U. (2021b). Improving preclinical studies through replications. *eLife*, 10, e62101. <https://doi.org/10.7554/eLife.62101>
- Kelm, D. H., Toelch, U., & Jones, M. M. (2021). Mixed-species groups in bats: Non-random roost associations and roost selection in neotropical understory bats. *Frontiers in Zoology*, 18(1), 53. <https://doi.org/10.1186/s12983-021-00437-6>
- Rollwage, M., Pannach, F., Stinson, C., Toelch, U., Kagan, I., & Pooresmaeli, A. (2020). Judgments of effort exerted by others are influenced by received rewards. *Scientific Reports*, 10(1), 1–14. <https://doi.org/10.1038/s41598-020-58686-0>
- Simons, A., Riedel, N., Toelch, U., Hendriks, B., Müller-Ohlraun, S., Liebenau, L., Ambrasat, J., Dirnagl, U., & Reinhart, M. (2020). Assessing the Organizational Climate for Translational Research with a New Survey Tool. *Science and Engineering Ethics*, 26(6), 2893–2910.
- Brinken, H., Kuchma, I., Kalaitzi, V., Davidson, J., Pontika, N., Cancellieri, M., Correia, A., Carvalho, J., Melero, R., Kastelic, D., Borba, F., Lenaki, K., Toelch, U., Zourou, K., Knoth, P., Schmidt, B., & Rodrigues, E. (2019). A Case Report: Building communities with training and resources for Open Science trainers. *LIBER Quarterly*, 29(1), 1–36. <https://doi.org/10.18352/lq.10303>
- Toelch, U., Pooresmaeli, A., & Dolan, R. J. (2018). Neural substrates of norm compliance in perceptual decisions. *Scientific Reports*, 8(1), 3315. <https://doi.org/10.1038/s41598-018-21583-8>
- Toelch, U., & Ostwald, D. (2018). Digital open science—Teaching digital tools for reproducible and transparent research. *PLOS Biology*, 16(7), e2006022. <https://doi.org/10.1371/journal.pbio.2006022>

- Toelch, U., Panizza, F., & Heekeren, H. R. (2018). Norm compliance affects perceptual decisions through modulation of a starting point bias. *Open Science*, 5(3), 171268. <https://doi.org/10.1098/rsos.171268>
- Toelch, U., & Dolan, R. J. (2015). Informational and Normative Influences in Conformity from a Neurocomputational Perspective. *Trends in Cognitive Sciences*, 19(10), 579–589. <https://doi.org/10.1016/j.tics.2015.07.007>
- Kelm, D. H., Lenski, J., Kelm, V., Toelch, U., & Dziock, F. (2014). Seasonal Bat Activity in Relation to Distance to Hedgerows in an Agricultural Landscape in Central Europe and Implications for Wind Energy Development. *Acta Chiropterologica*, 16(1), 65–73. <https://doi.org/10.3161/150811014X683273>
- Pooresmaeili, A., FitzGerald, T. H. B., Bach, D. R., Toelch, U., Ostendorf, F., & Dolan, R. J. (2014). Cross-modal effects of value on perceptual acuity and stimulus encoding. *Proceedings of the National Academy of Sciences*, 111(42), 15244–15249. <https://doi.org/10.1073/pnas.1408873111>
- Toelch, U., Bruce, M. J., Newson, L., Richerson, P. J., & Reader, S. M. (2014). Individual consistency and flexibility in human social information use. *Proceedings of the Royal Society B: Biological Sciences*, 281(1776), 20132864. <https://doi.org/10.1098/rspb.2013.2864>
- Toelch, U., Jubera-Garcia, E., Kurth-Nelson, Z., & Dolan, R. J. (2014). Competition strength influences individual preferences in an auction game. *Cognition*, 133(2), 480–487. <https://doi.org/10.1016/j.cognition.2014.07.010>
- Toelch, U., Bach, D. R., & Dolan, R. J. (2013). The neural underpinnings of an optimal exploitation of social information under uncertainty. *Social Cognitive and Affective Neuroscience*, nst173. <https://doi.org/10.1093/scan/nst173>
- Toelch, U., & Winter, Y. (2013). Interval timing behavior in Pallas's long-tongued bat (*Glossophaga soricina*). *Journal of Comparative Psychology*, 127(4), 445–452. <https://doi.org/10.1037/a0032528>
- Toelch, U., Bruce, M. J., Meeus, M. T. H., & Reader, S. M. (2011). Social performance cues induce behavioral flexibility in humans. *Frontiers in Comparative Psychology*, 2, 160. <https://doi.org/10.3389/fpsyg.2011.00160>
- Toelch, U., Bruce, M., Meeus, M., & Reader, S. (2010). Humans copy rapidly increasing choices in a multiarmed bandit problem. *Evolution and Human Behavior*, 31(5), 326–333.
- Toelch, U., van Delft, M. J., Bruce, M. J., Donders, R., Meeus, M. T. H., & Reader, S. M. (2009). Decreased environmental variability induces a bias for social information use in humans. *Evolution and Human Behavior*, 30(1), 32–40. <https://doi.org/10.1016/j.evolhumbehav.2008.07.003>
- Toelch, U., Stich, K., Gass, C., & Winter, Y. (2008). Effect of local spatial cues in small-scale orientation of flower bats. *Animal Behaviour*, 75, 913–920.
- Toelch, U., & Winter, Y. (2007). Psychometric function for nectar volume perception of a flower-visiting bat. *Journal of Comparative Physiology a-Neuroethology Sensory Neural And*, 193(2), 265–269.