Prof. Dr. Dr. h.c. Angela D. Friederici

List of Publications

A. Articles in peer-reviewed journals

In press

541. **Eichner, C., Paquette, M., Müller-Axt, C., Bock, C., Gräßle, T., Jaeger, C., Kirilina, E., Lipp, I., EBC Brain Sourcing Consortium, Morawski, M., Weiskopf, N., Wittig, R.M., Crockford, C., Friederici, A.D. & Anwander, A.** (in press).
Detailed mapping of the complex fiber structure and white matter pathways of the chimpanzee brain. *Nature Methods.*

2024

540. **Eichner, C., Berger, P., Klein, C.C. & Friederici, A.D.** (2024).
Lateralization of dorsal fiber tract targeting Broca's area concurs with language skills during development. *Progress in Neurobiology, 236,* 102602. doi: 10.1016/j.pneurobio.2024.102602

539. **Friederici, A.D., Wittig, R.M., Anwander, A., Eichner, C., Gräßle, T., Jäger, C., Kirilina, E., Lipp, I., Düx, A., Edwards, L., Girard-Buttoz, C., Jauch, A., Kopp, K.S., Paquette, M., Pine, K., Unwin, S., Haun, D.B.M., Leendertz, F.H., McElreath, R., Morawski, M., Gunz, P., Weiskopf, N., Crockford C. & EBC consortium** (2024).
Brain structure and function: A multidisciplinary pipeline to study hominoid brain evolution. *Frontiers in Integrative Neuroscience, 17:*1299087. doi: 10.3389/fnint.2023.1299087.

538. **Mueller, J.L., Weyers, I., Friederici, A.D. & Männel, C.** (2024).
Individual differences in auditory perception predict learning of non-adjacent tone sequences in 3-year-olds. *Frontiers in Human Neuroscience, 18:*1358380. doi: 10.3389/fnhum.2024.1358380

537. **Wei, X., Gunter, T.C., Adamson, H., Schwendemann, M., Friederici, A.D., Goucha, T., & Anwander, A.** (2024).
White matter plasticity during second language learning within and across hemispheres. *PNAS, 121*(2), e2306286121. doi: 10.1073/pnas.2306286121

536. **Wu, J., Cheng, Y., Qu, X., Kang, T., Cai, Y., Wang, P., Zaccarella, E., Friederici, A.D., Hartwigsen, G. & Chen, L.** (2024).
Continuous theta-burst stimulation on the left posterior inferior frontal gyrus perturbs complex syntactic processing stability in Mandarin Chinese. *Neurobiology of Language.* https://doi.org/10.1162/nol_a_00140

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Chimpanzees show the capacity to communicate about concomitant daily life events. *iScience,* 26, 108090. https://doi.org/10.1016/j.isci.2023.108090

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Frontotemporal effective connectivity revealed a language-general syntactic network for Mandarin Chinese. *Journal of Neurolinguistics, 66,* 101127. doi:10.1016 /j.jneuroling. 2023.101127

532. Cheung, V.K.M., Harrison, P.M.C., Koelsch, S., Pearce, M.T., Friederici, A.D. & Meyer, L. (2023).
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Evolutionary neuroanatomical expansion of Broca's region serving a human-specific function. *Trends in Neuroscience, 46*(10), 786-796. doi: 10.1016/j.tins.2023.07.004

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Causal evidence for a coordinated temporal interplay within the language network. *PNAS, 120*(47): e2306279120. https://doi.org/10.1073/pnas.2306279120

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Hierarchical syntactic processing is beyond mere associating: FMRI evidence from a novel artificial grammar. *Human Brain Mapping, 42*(10), 3253–3268. doi: 10.1002/hbm.25432

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Mathematical learning deficits originate in early childhood from atypical development of a frontoparietal brain network. *PLoS Biology, 19*(9): e3001407.
doi: 10.1371/journal.pbio.3001407 (*Friederici, A.D. is member of the LEGASCREEN Consortium)

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