

Training of Cognitive Control

In developmental psychology, a cognitive intervention is an important tool to activate one's learning potential so that we are able to determine the scope of cognitive plasticity and its transfer for different age ranges. We thus aim at investigating whether practice in cognitive control leads to cognitive improvements in trained and untrained tasks at the behavioral and neuronal level.

Selected publications:

Dörrenbächer, S., Wu, C., Zimmer, H., & Kray, J. (2020). Plasticity in brain activity dynamics after task-shifting training in older adults. *Neuropsychologia*, *136*, 107285.

Karbach J., & Kray, J. (2009). How useful is executive control training? Age differences in near and far transfer of task-switching training. *Developmental Science*, *12*, 978—990.

Kray, J., & Dörrenbächer, S. (2019). The effectiveness of training in task switching: New insights and open issues from a lifespan view. In M. Bunting & J. Novick, *Cognitive Training*. Oxford: Oxford University Press.