

Network Analyses

Functional and structural connectivity analyses are used to identify networks in the individual. The employed tasks are well established (e.g. response control) and can easily be integrated in a clinical setting. In the long run, we expect the identification of subgroups of patients to be useful for a more accurate prediction of symptom development and treatment response.

As connectivity analysis happens to be a very fast developing field within neuroscience, its application to structural and functional imaging data remains a challenging, ever-changing but at the same time exciting task.

The group tries to build an efficient network:

Selected Publications:

Saur D, Schelter B, Schnell S, Kratochvil D, Küpper H, Kellmeyer P, Kümmerer D, Klöppel S, Glauche V, Lange R, Mader W, Feess D, Timmer J, Weiller C (2010). Combining functional and anatomical connectivity reveals brain networks for auditory language comprehension. *Neuroimage* 49(4):3187-3197.