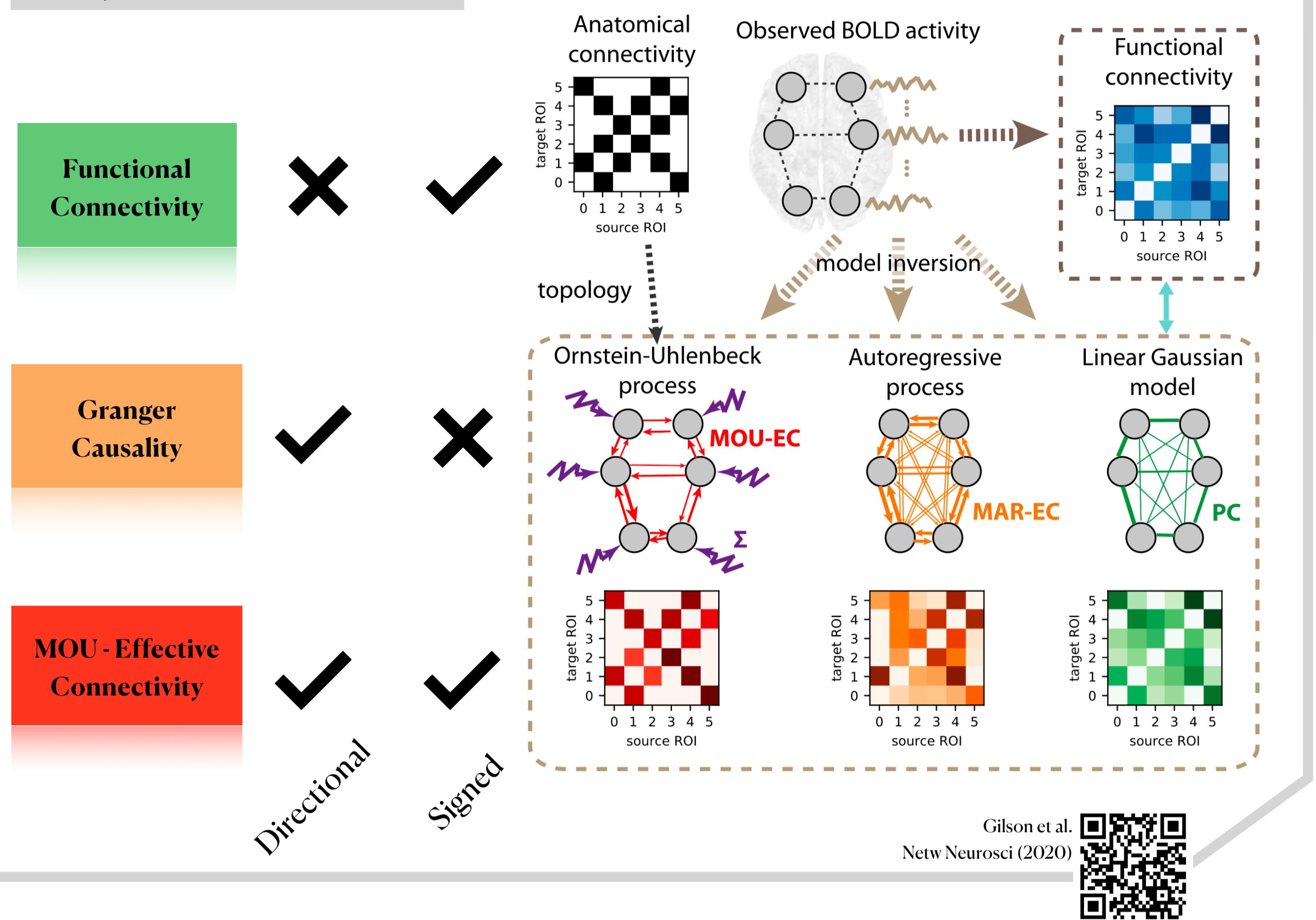


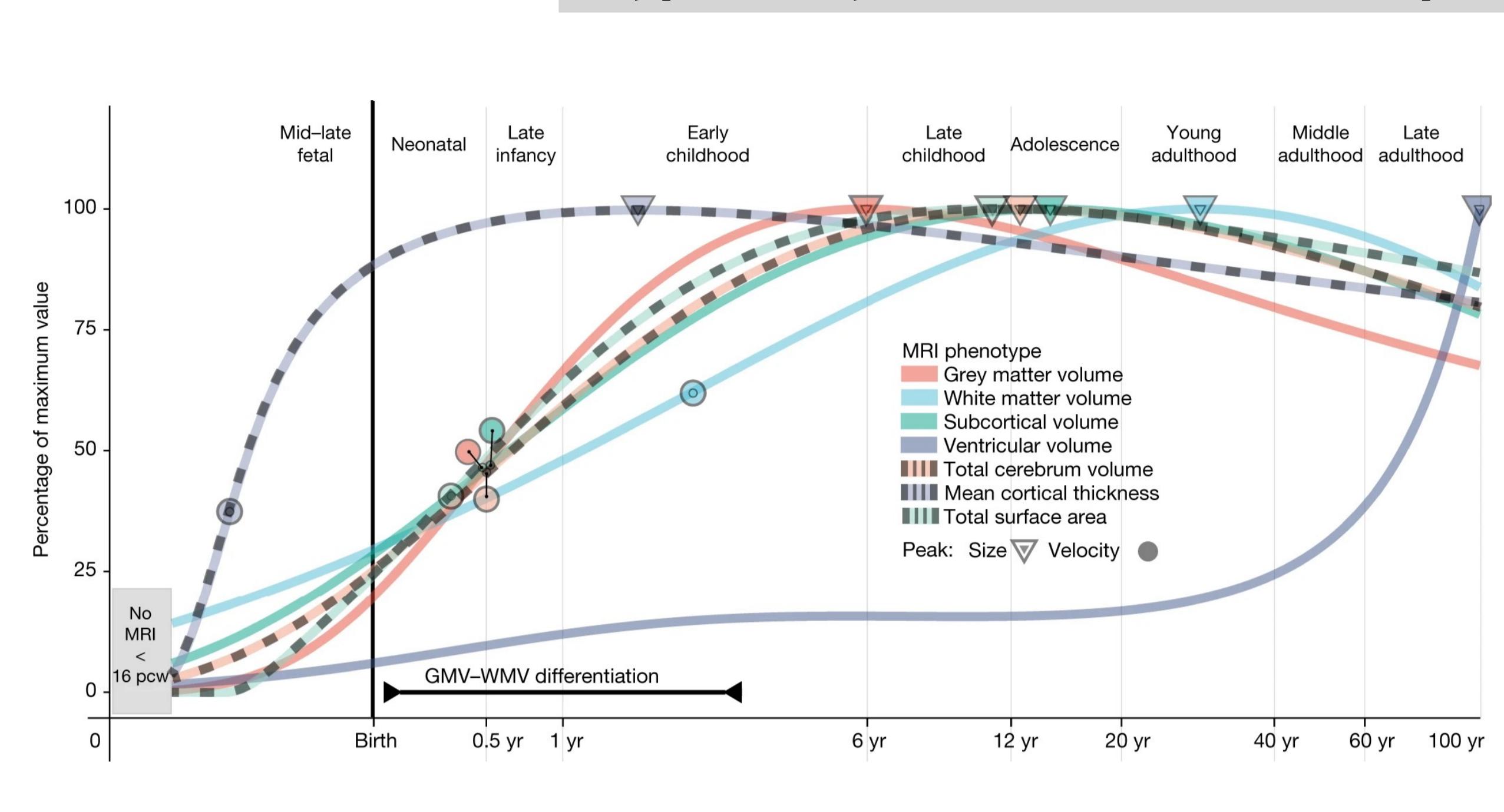
Directional functional interactions in brain networks in healthy aging

Marta Morandini¹, Christiane Jockwitz^{2,3}, Svenja Caspers^{2,3}, Matthieu Gilson¹, Andrea Brovelli¹
¹Institut de Neurosciences de la Timone, Aix Marseille Université, UMR 7289 CNRS, 13005, Marseille, France
²Institute of Neuroscience and Medicine (INM-4), Research Centre Jülich, Jülich, Germany
³Institute for Anatomy I, Medical Faculty & University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany

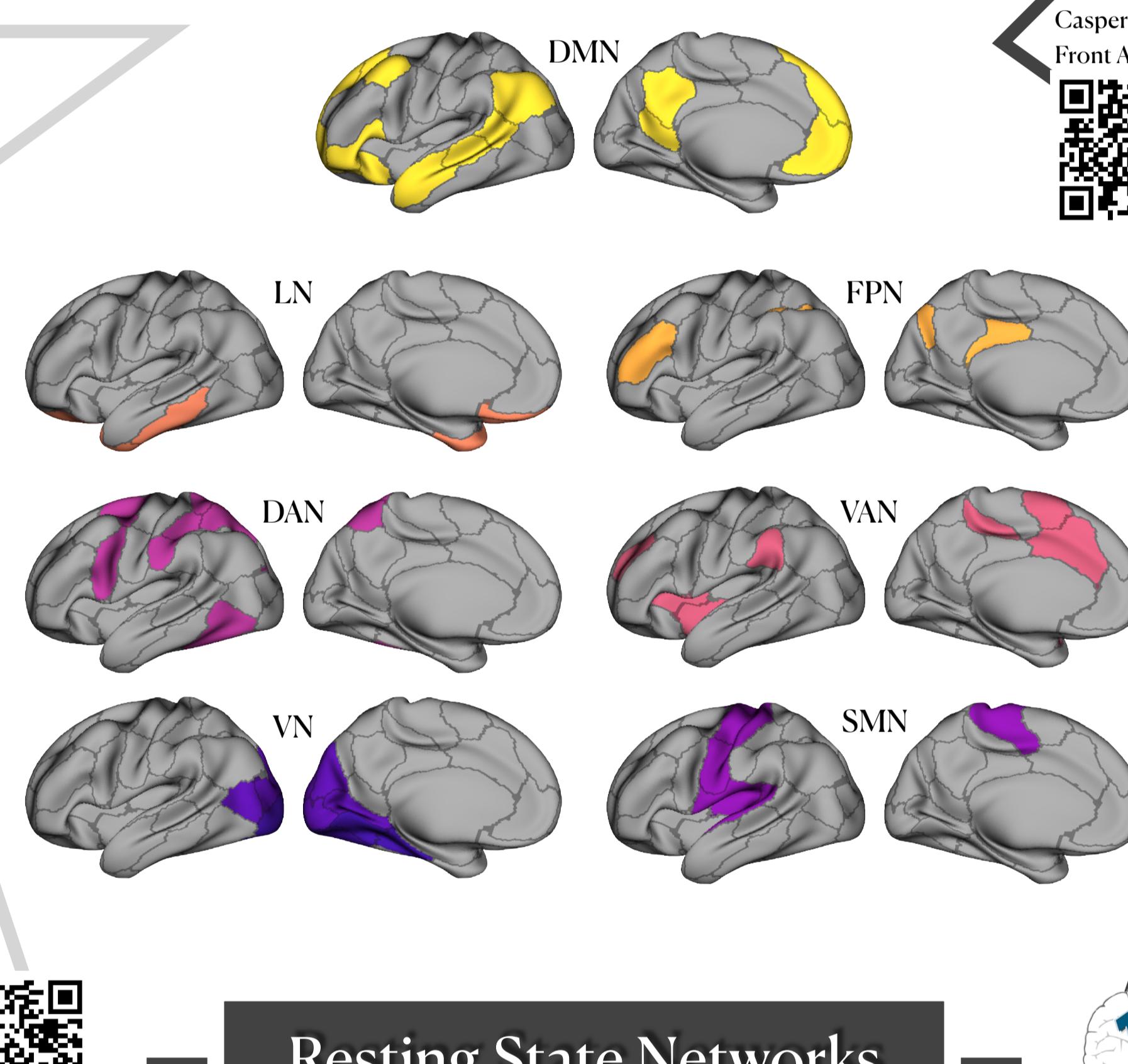
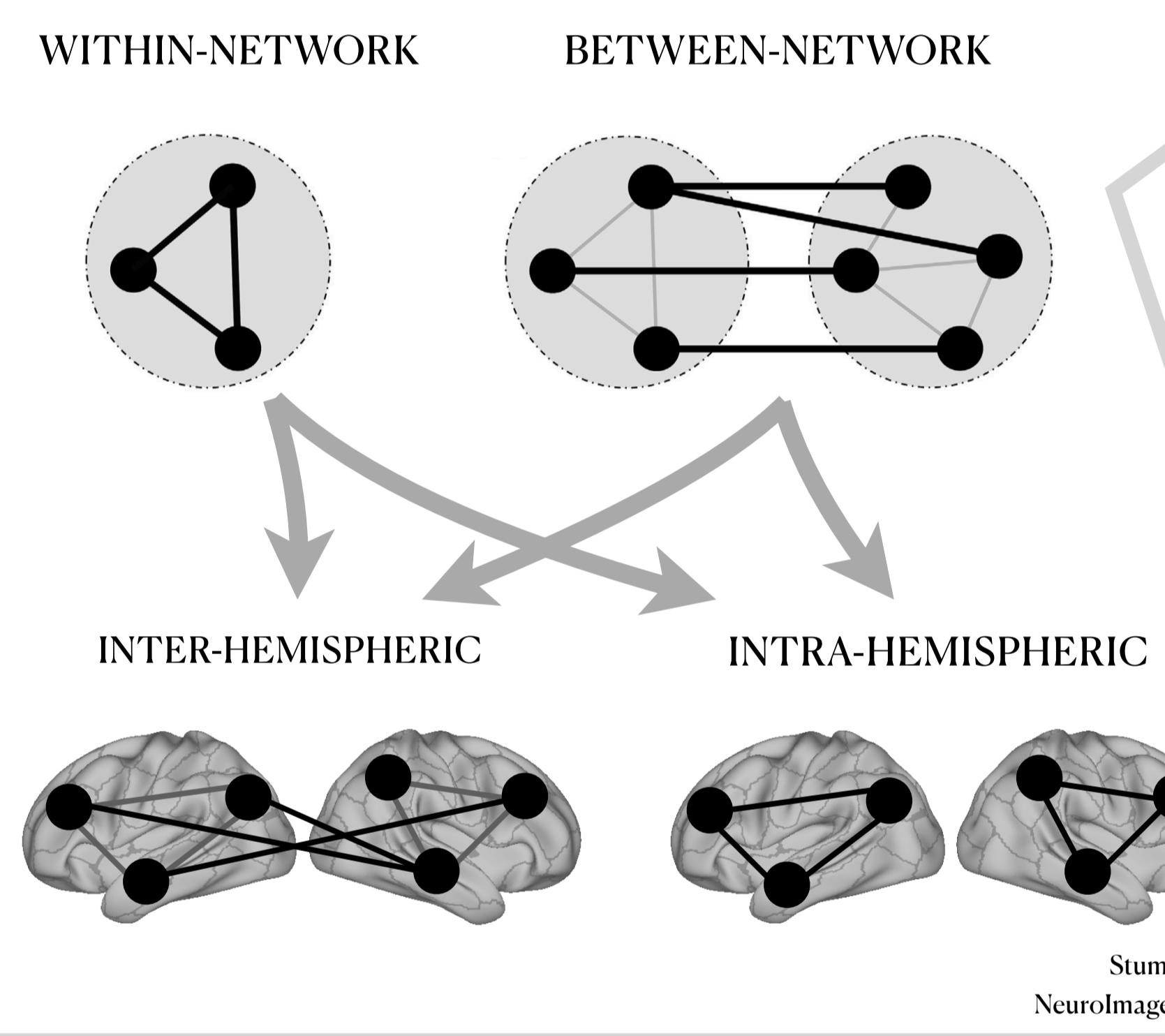
Beyond correlation



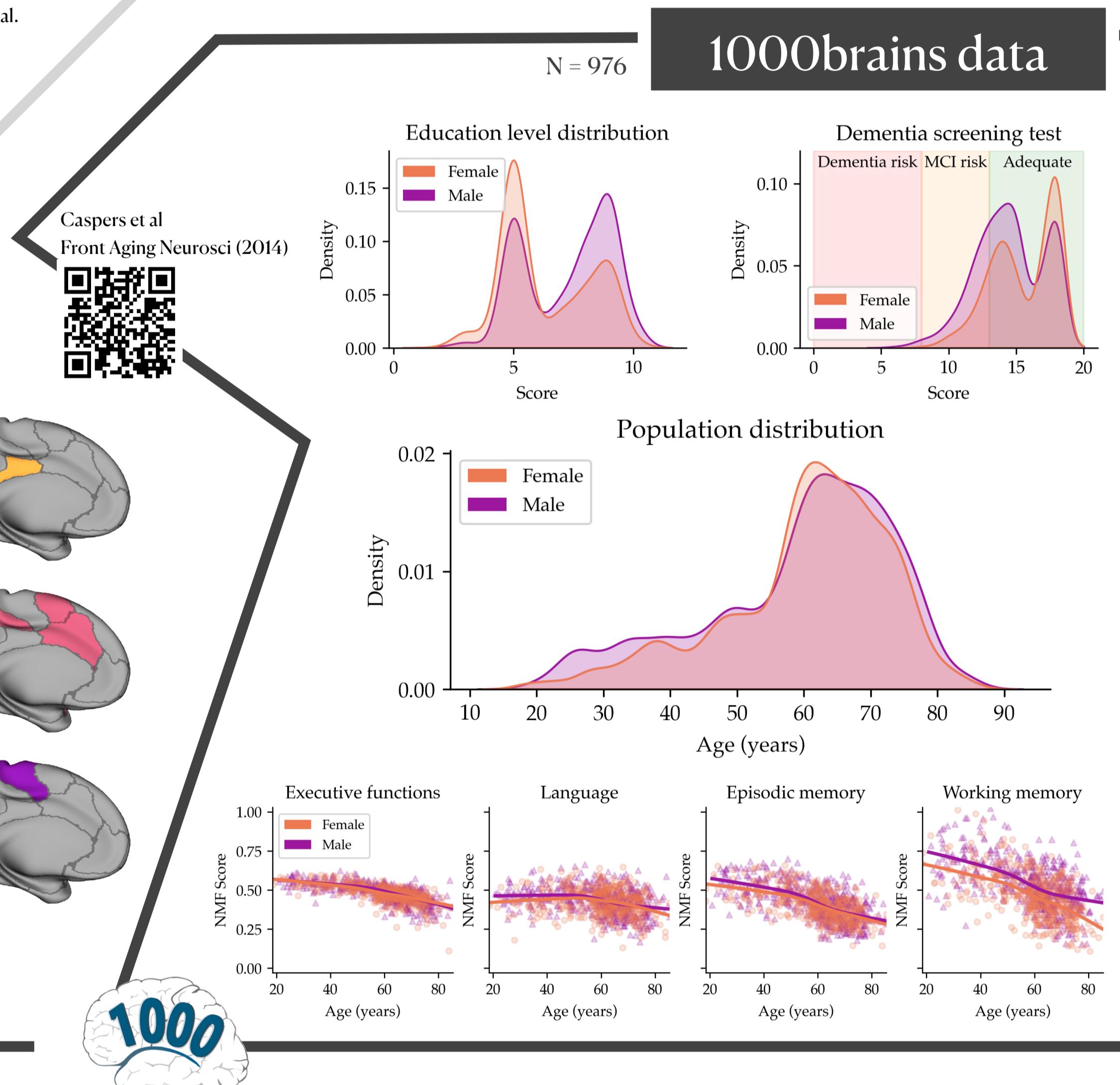
Typical trajectories across the lifespan



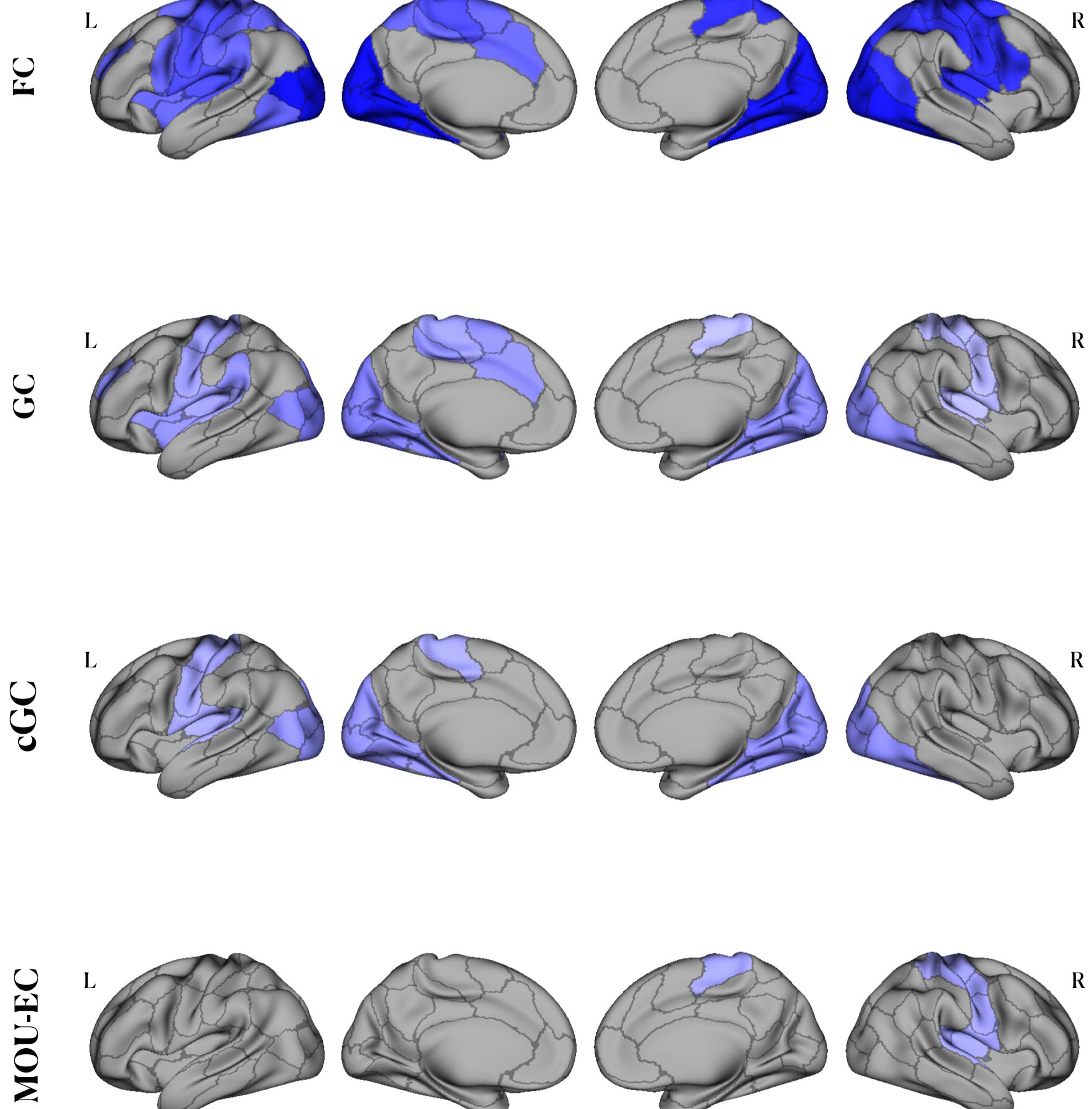
Network interactions



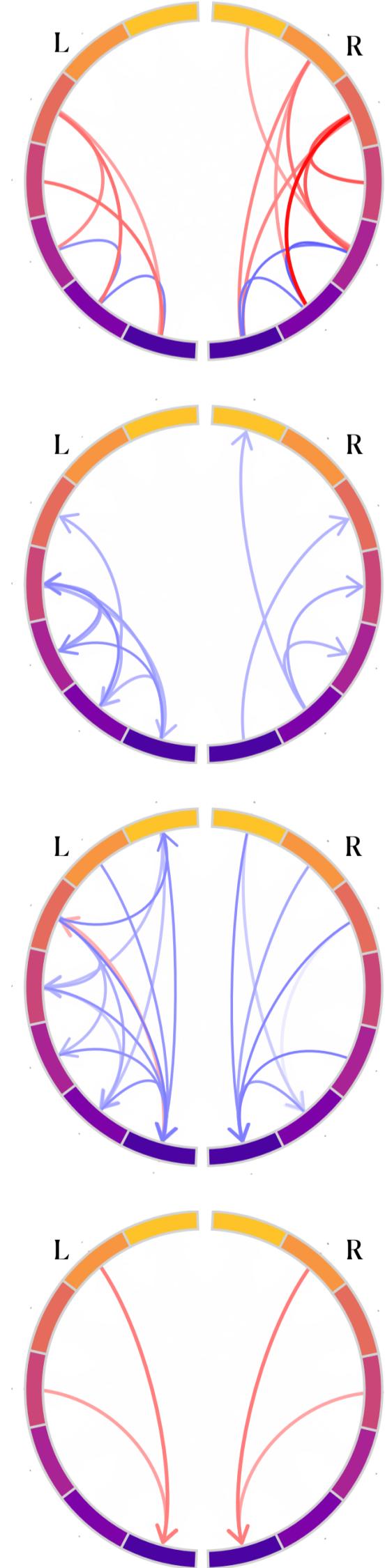
Resting State Networks



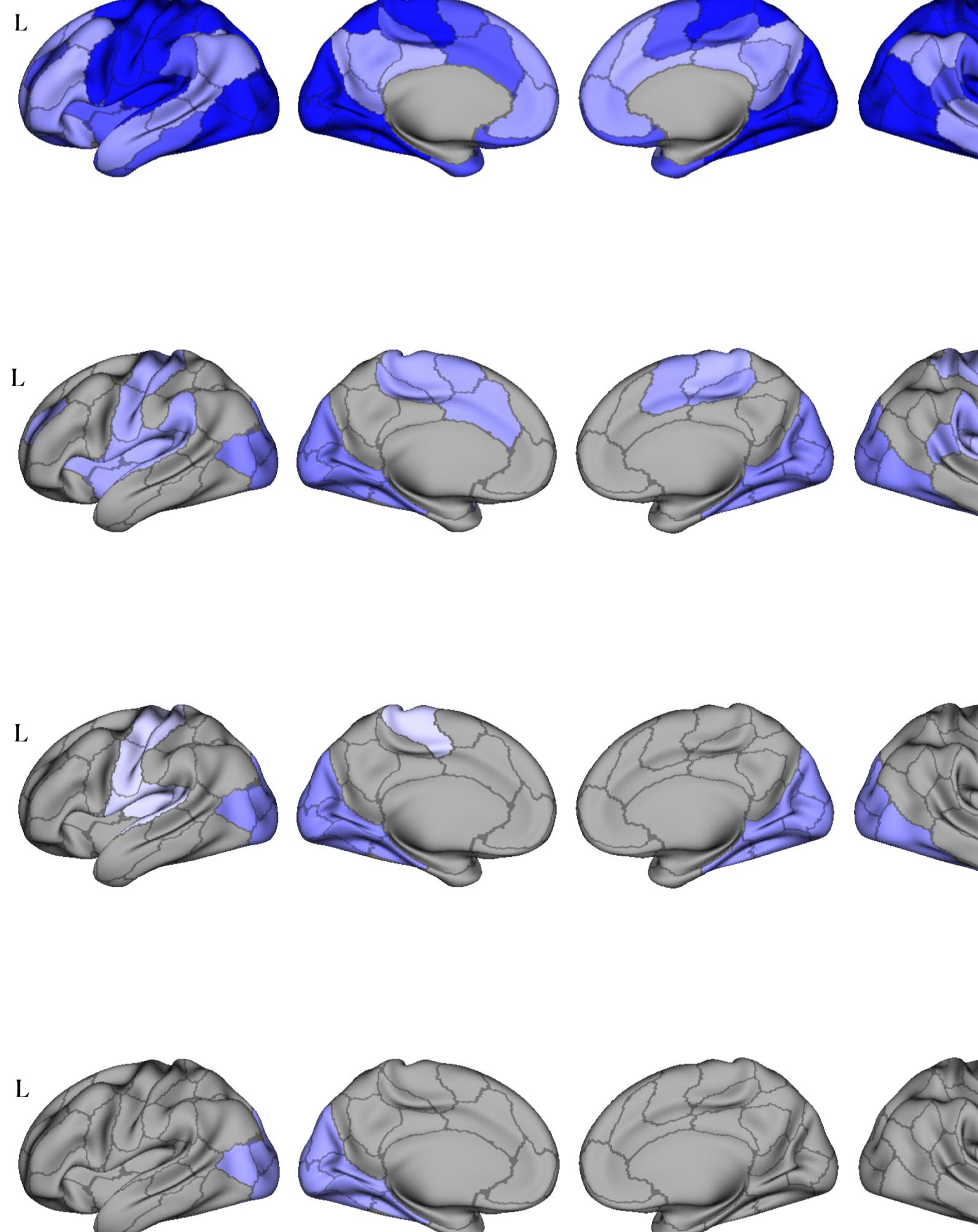
Intra-Within



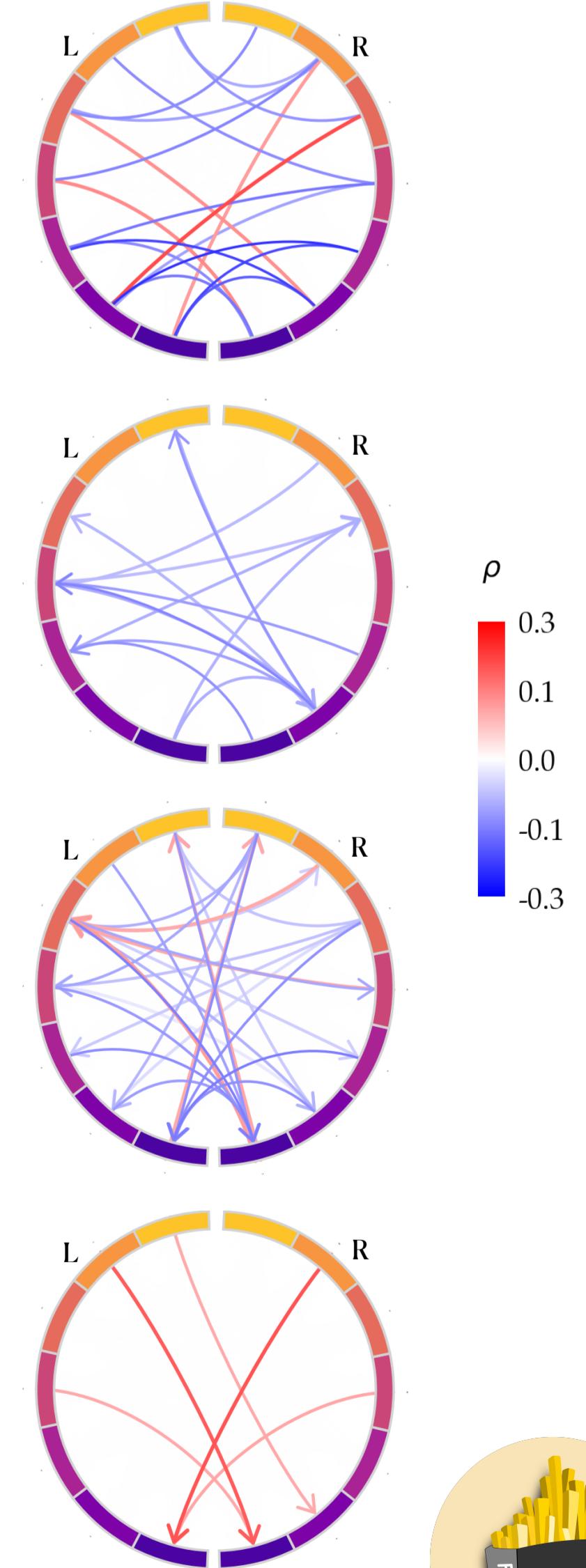
Intra-Between



Inter-Within



Inter-Between



Significant correlations with age

Take-home messages

- Sensory areas (VN and SMN) are the most affected across the lifespan
- The within-network connectivity show more stability across different metrics, in both intra- and inter-hemispheric
- Can directional interaction measures uncover functional hierarchies in the aging process?
- The balance among within- and between-network connectivities suggest a network effect, would this imply higher-order interactions?

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