Describing Structure-Function Relationships In Developing Brain Networks

Brandon A. Zielinski, MD, PhD
Division of Child Neurology
University of Utah
Intrinsic structural covariance map

- Functional connectivity mapping (fcMRI, MEG, EEG)
- Structural connectivity analysis (scMRI, DTI, DSI)

Zielinski, et al., PNAS, 2010

DMN (radar detector)

SN (socio-emotional)

red = autism, blue = controls. p = 0.001 (FWE)


Executive Control R DLPFC (44 36 20)