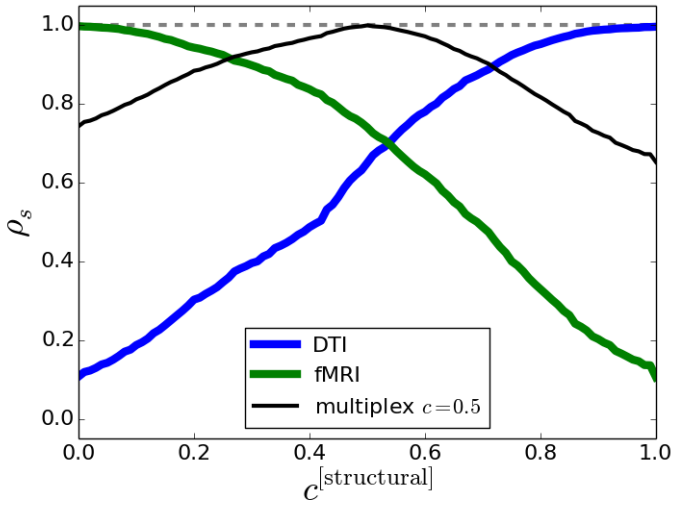

Figure S7: Sensitivity analysis for the multiplex brain coreness. We considered different coefficients $c^{[\alpha]}$ for the structural and functional layer. Specifically, $c^{[\text{structural}]} \in [0,1]$ with $c^{[\text{functional}]} = 1 - c^{[\text{structural}]}$. We analyzed the similarity (in terms of Spearman correlation) between the unbiased multiplex coreness and the structural (DTI), functional (fMRI) and multiplex coreness as a function of $c^{[\text{structural}]}$. The multiplex coreness is relatively stable across different coefficients around the unbiased case $c^{[\text{structural}]} = c^{[\text{functional}]} = 0.5$ (black curve); In addition, $c^{[\text{structural}]} = 0.5$ leads to a multiplex coreness which is slightly more similar to the functional coreness (green curve), highlighting that the multiplex core is more than the sum of the cores at the different layers.