A) Pairwise Distances Separated by Familial Relationships i) Connectome Model: Exact ii) Connectome Model: Global iii) Connectome Model: Vertex iv) Neuroanatomy All Subjects Females Males Distances Relationships Monozygotic Dizygotic Sibling Unrelated B) P-values From Tests for Heritability I) MZ, vs DZ Connectomes II) All Connectomes III) Neuroanatomy IV) All Connectomes V) Connectome Subgraphs Grouping Gender **-**2

Global

Connectome Model

Global

Connectome Model

Global

Connectome Model

Vertex

Global

Connectome Model

Vertex