

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Simulation results of all tested methods in all tested settings.

File Name: Supplementary Data 2

Description: Gene-level information for the essential screen network.

File Name: Supplementary Data 3

Description: Description and source for each gene annotation analyzed for association with eigencentality.

File Name: Supplementary Data 4

Description: Association statistics of gene-level annotations with eigencentality in essential screen network. See Supplementary Data 2 for annotation values and Supplementary Data 6 for further details on each annotation.

File Name: Supplementary Data 5

Description: Association statistics of gene-level annotations with eigencentality in essential screen network. See Supplementary Data 2 for annotation values and Supplementary Data 3 for further details on each annotation.

File Name: Supplementary Data 5

Description: Gene-level information for the genome-wide screen network.

File Name: Supplementary Data 6

Description: Association statistics of gene-level annotations with eigencentality in genome-wide screen network. See Supplementary Data 5 for annotation values and 3 for further details on each annotation.