



**Additional file 1.** Topology parameters of the “ACE2 Full-PPIN”. **A.** The distributions of node degree follows an approximate power law of the Full-PPIN. **B.** Shortest path length (number of edges from one node to another of the Full-PPIN. **C.** Topological coefficients shows a sharp linear decreasing trend in the Full-PPIN. **D.** Closeness centrality of the Full-PPIN.