## Supplementary File for "Constrained Multi-objective Optimization-Based Temporal Network Observability for Critical Biomarker Identification of Individual Patients"

## S-I. Supplementary contents

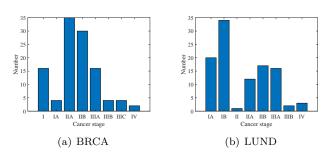


Fig. S-1. Number of patients in each stages for BRCA and LUND.

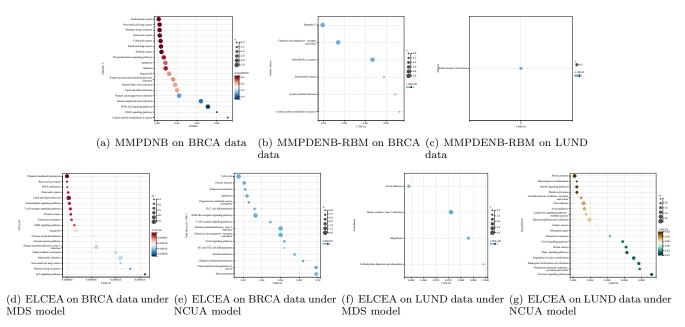
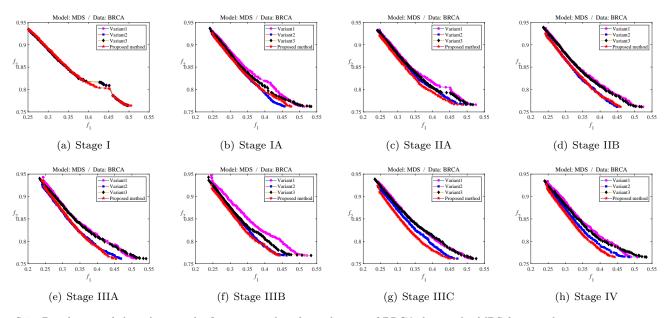


Fig. S-2. Pathway enrichment analysis. Since the result of MMPDNB on LUND data is not shown because it only finds one pathway.



 $Fig. \ S-3. \ \ Populations \ of \ algorithms \ on \ the \ first \ patient \ data \ for \ each \ stage \ of \ BRCA \ data \ under \ MDS \ framework.$