

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Patient selection for the study.

File name: Supplementary Data 2

Description: Information about the 720 epifactor genes used in this study and intersection with COSMIC/OncoKb and other databases.

File name: Supplementary Data 3

Description: Patient assignment into NMF clusters for 24 cancer types.

File name: Supplementary Data 4

Description: Top NMF genes for the 24 cancer types, and mutation and CNV analysis for the NMF clusters corresponding to the five-cancer group (ACC, KIRC, LGG, LIHC, and LUAD).

File name: Supplementary Data 5

Description: Immunologic and TCGA subtype information for the five-cancer group (ACC, KIRC, LGG, LIRC, LUAD).

File name: Supplementary Data 6

Description: WGCNA analysis for the five-cancer group (ACC, KIRC, LGG, LIRC, LUAD) and the enrichment metrics for the PPI networks.

File name: Supplementary Data 7

Description: DESeq2 and differential methylation analysis of the epigenetic factor-based clusters for the five-cancer group (ACC, KIRC, LGG, LIHC, LUAD).

File name: Supplementary Data 8

Description: Prognostic epigenetic factor genes (PFI) for the 24 cancer types before and after the meta-PCNA correction.

File name: Supplementary Data 9

Description: Ranked features for the 5-cancer and 4-cancer machine learning models and validation cohort analysis.

File name: Supplementary Data 10

Description: Patient selection criteria, cluster assignments, top NMF genes, and WGCNA analysis for the pediatric cancer types.

File name: Supplementary Data 11

Description: Prognostic epigenetic factor genes (overall survival) for pediatric and adult cancer types.

File name: Supplementary Data 12

Description: Source data behind graphs in the figures.

File name: Supplementary Data 13

Description: List of software packages used for this study.