

Description of Additional Supplementary files

File name: Supplementary Data 1

Description: Metadata for the 24 cervical cancer patients included in this study.

File name: Supplementary Data 2

Description: Cell counts of different major cell types in scRNA-seq data, separated in different samples in columns.

File name: Supplementary Data 3

Description: Targeted genes included in the Xenium panel, including 50 custom gene probes.

File name: Supplementary Data 4

Description: Cell counts of different major cell types in Xenium data, separated in different samples in columns.

File name: Supplementary Data 5

Description: Cell counts in subclusters of epithelial cells in scRNA-seq data, separated in different samples in columns.

File name: Supplementary Data 6

Description: Differential marker genes found in the cluster 1 of epithelial cell subclustering in scRNA-seq data, ranked by adjusted p-values.

File name: Supplementary Data 7

Description: Marker genes found in the cluster 2 of epithelial cell subclustering in scRNA-seq data, ranked by adjusted p-values.

File name: Supplementary Data 8

Description: Marker genes found in the cluster 0 of epithelial cell subclustering in scRNA-seq data, ranked by average log2FC values (cluster 0/others).

File name: Supplementary Data 9

Description: Cell counts in subtypes of all immune cells in scRNA-seq data, separated in different samples in columns.

File name: Supplementary Data 10

Description: Differential marker genes found in different subclusters of epithelial cells in the Xenium data, ranked by adjusted p-values; the annotated cell subtype is on the last column.