

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Data resources

File Name: Supplementary Data 2

Description: Top scoring genes of the cNMF modules

File Name: Supplementary Data 3

Description: Genes upregulated in high-aggressive tumor regions. *P* values were determined using the two-sided Mann-Whitney U test and adjusted for multiple comparison using the Benjamini-Hochberg procedure.

File Name: Supplementary Data 4

Description: Genes upregulated in low-aggressive tumor regions. *P* values were determined using the two-sided Mann-Whitney U test and adjusted for multiple comparison using the Benjamini-Hochberg procedure.