



**Supplementary Figure 2.** The correlations between 23 previously curated immunotherapy response predictive signatures and the aggressive score, as represented by a correlation matrix (A) and a heatmap (B). In panel (A), the numbers denote Pearson's correlation coefficients (r values), while the asterisks indicate statistical significance: \* $P < 0.05$ ; \*\* $P < 0.01$ ; \*\*\* $P < 0.001$ . In panel (B), four clusters were identified.