

Figure S1: Classifications obtained from biological layer analysis.

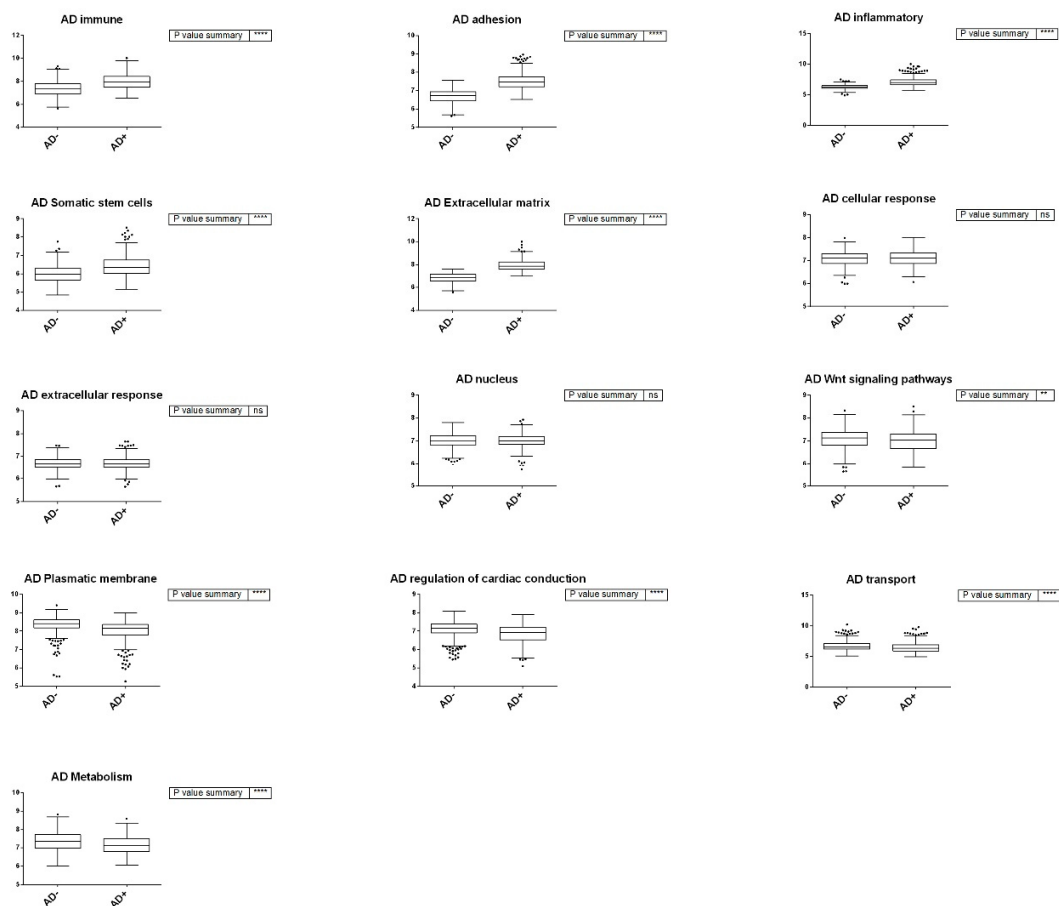
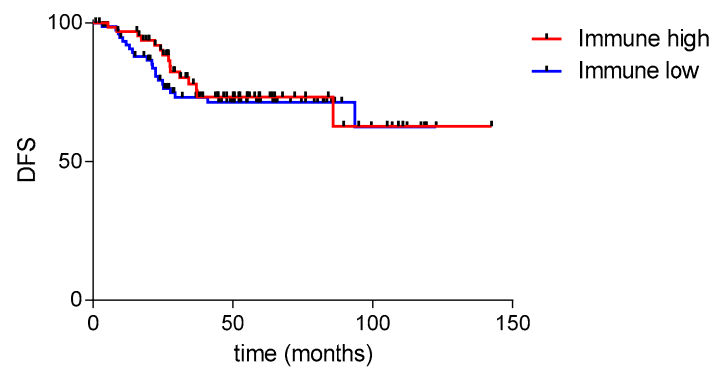
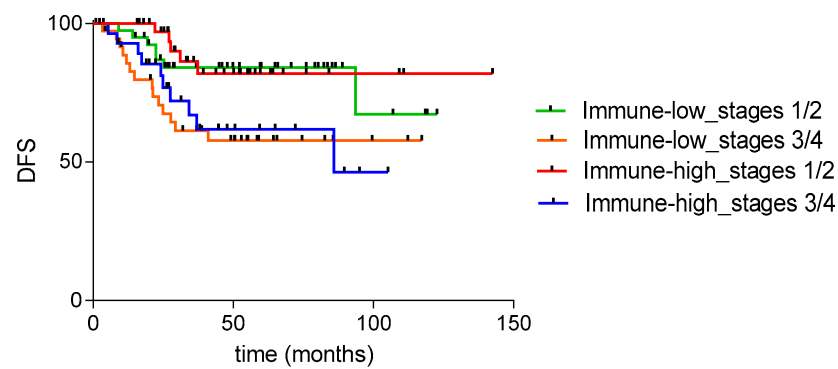


Figure S2: Boxplots representing the activity of each functional node for the adhesion groups. High adhesion group (AD+), low adhesion group (AD-). (* $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, **** $p \leq 0.0001$); ns: non significance ($p > 0.05$).



P value	0.5721
---------	--------

Hazard Ratio (logrank)	A/B
Ratio (and its reciprocal)	0.8266
95% CI of ratio	0.4299 to 1.594



P value	0.0112
---------	--------

Figure S3: Survival analysis of the immune groups. Immune high and immune low tumor prognosis was not significantly different. DFS: disease free survival.

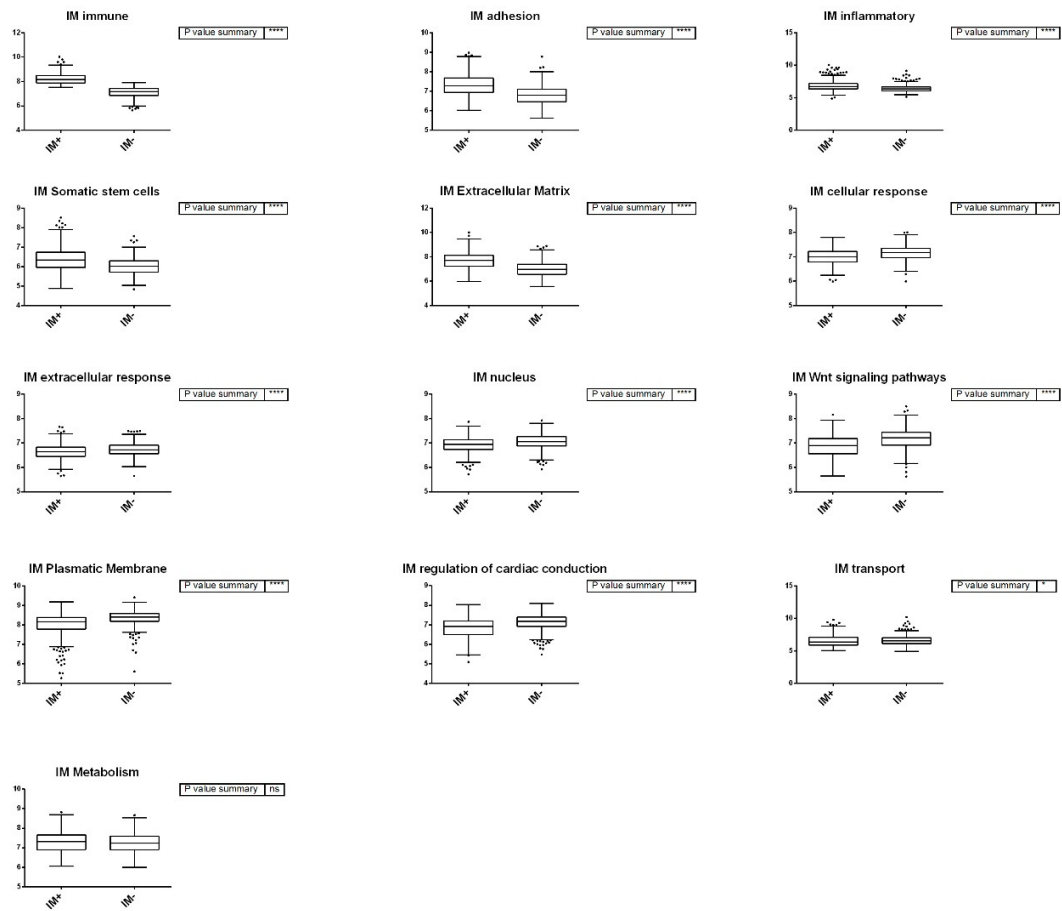


Figure S4: Boxplots representing the activity of each functional node for the immune groups. Immune high group (IM+), immune low group (IM-). (* $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, **** $p \leq 0.0001$; ns: non significance ($P > 0.05$)).

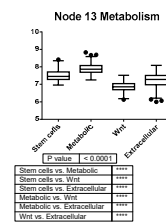
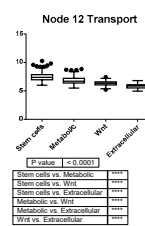
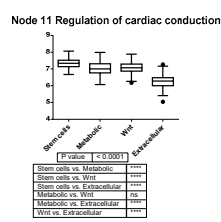
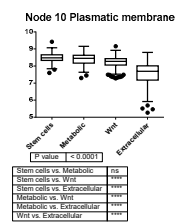
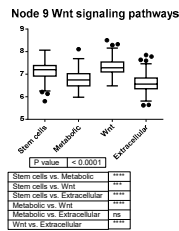
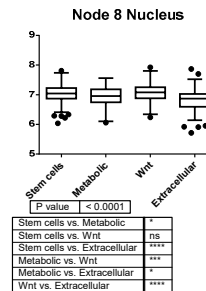
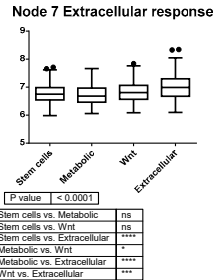
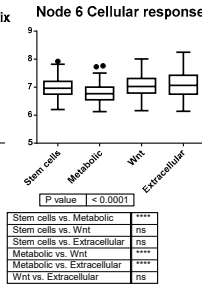
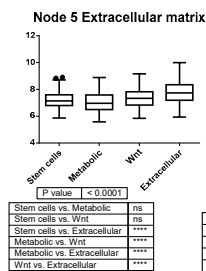
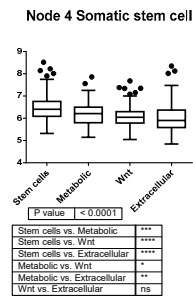
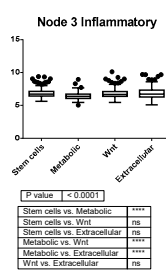
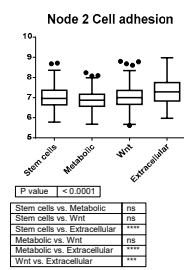
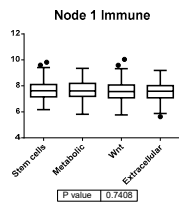


Figure S5: Boxplots representing the activity of each functional node of the four molecular cluster subgroups (M1, M2, M3 and M4). (* $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, **** $p \leq 0.0001$); ns: non significance ($p > 0.05$).

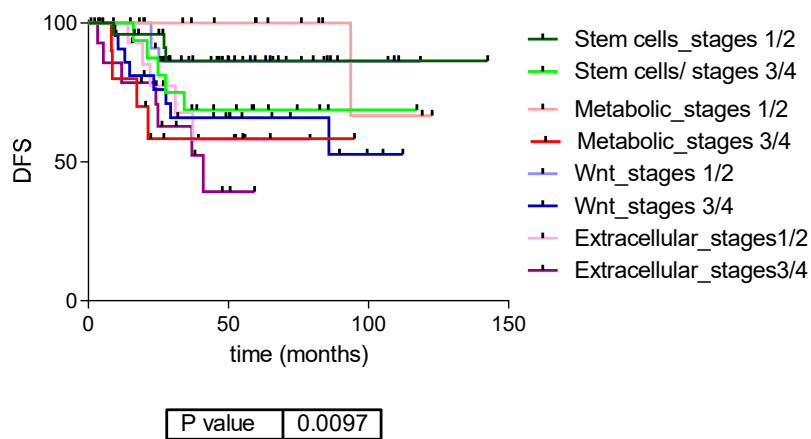
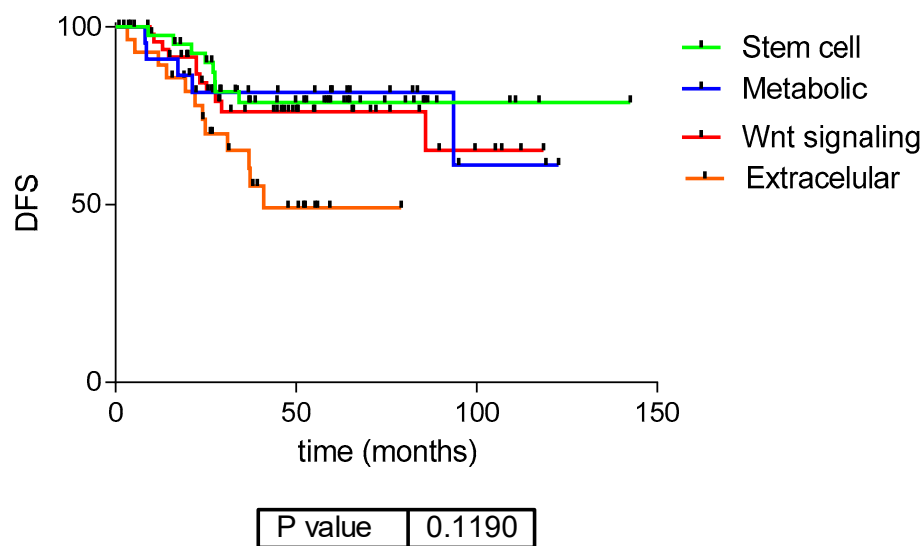


Figure S6: Survival analyses of the four molecular groups. ns: non significance. DFS: disease free survival.