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**Supplementary Figure S5: Functional CD4 T-cell subsets producing IFN-, TNF, and IL-2 simultaneously or TNF alone are significantly associated with outcome.** The functional diversity of CD4 T-cells was visualized using SPICE software. Functional subsets by group are represented by scatter plots/bars (above) and as a pie segments (below). The color legend for the pie charts is located below the scatter plots/bars for each subset. Individual data points are shown. Bars/thick horizontal lines show the median, whiskers show IQR.P-values for differences between the groups are indicated for p≤0.05 (after applying Bonferoni multiple endpoint correction the significance threshold would be p=0.00625).



**Supplementary Figure S6: Functional CD4 T-cell subsets producing IFN-, and TNF but not IL-17 are significantly positively associate with recurrence free survival.** The functional diversity of CD4 T-cells was visualized using SPICE software. Functional subsets by group are represented by scatter plots/bars (above) and as a pie segments (below). The color legend for the pie charts is located below the scatter plots/bars for each subset. Individual data points are shown. Bars/thick horizontal lines show the median, whiskers show IQR.P-values for differences between the groups are indicated for p≤0.05 (after applying Bonferoni multiple endpoint correction the significance threshold would be p=0.00625).