

Figure S1

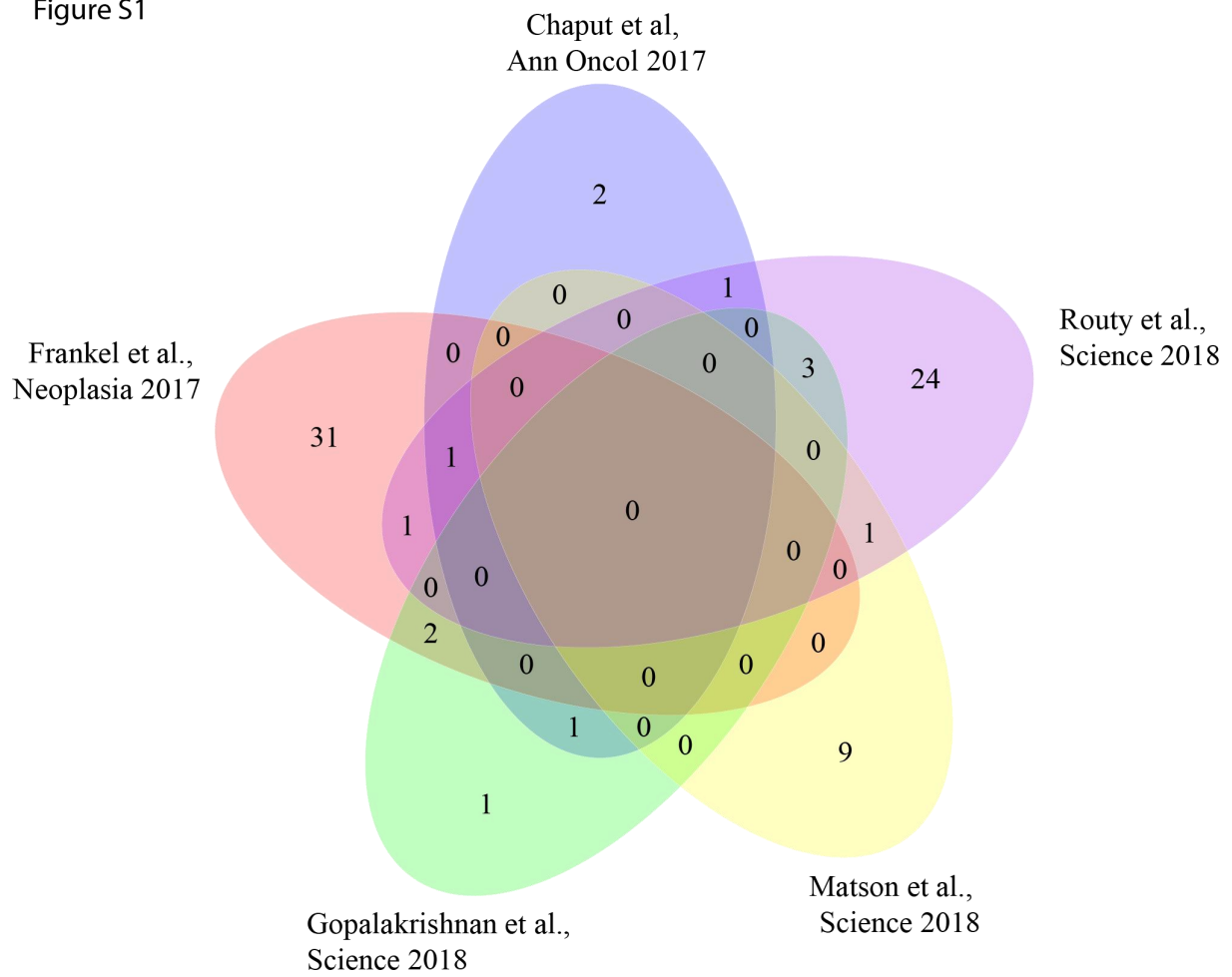


Figure S1. Venn diagram of the overlap of main taxa identified in previous publications.

Figure S2

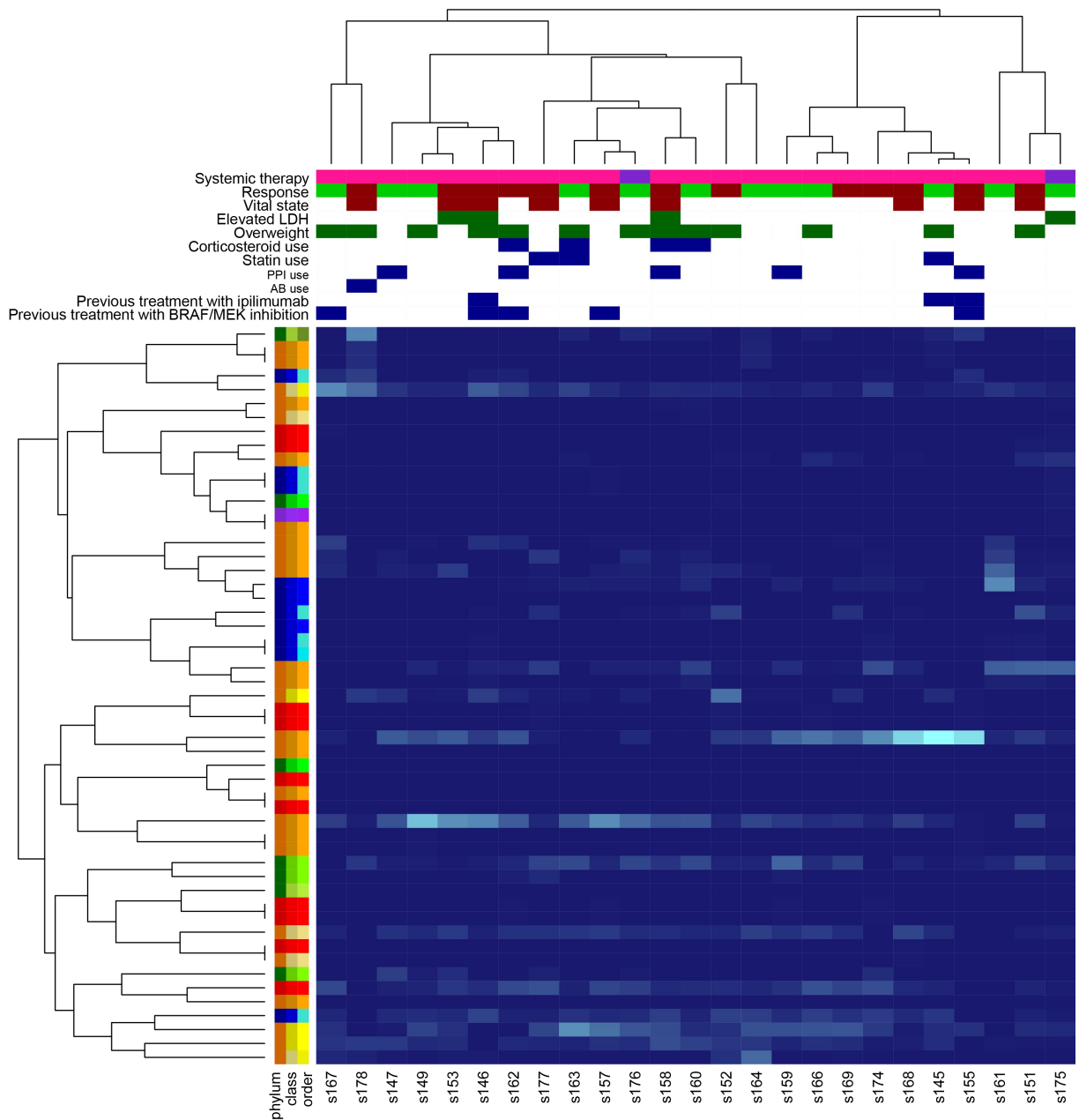


Figure S2. Heatmap of taxa relative abundances at genus level in all samples ($n = 25$). Samples are listed in columns, taxa are listed in rows. Data was ordered according to dendrogram results of complete-linkage clustering over abundance data. The top rows show metadata-variables (i.e. systemic therapy received (pink = monotherapy, purple = combination therapy), response to ICI therapy (green = response, dark red = non-response), vital state at last follow-up, elevated LDH (>250 U/L), overweight (BMI > 25), corticosteroid use, statin use, PPI use, antibiotics use, previous

treatment with ipilimumab and previous treatment with BRAF/MEK inhibition) of covariates included in the final analysis (blank = “no/not present”, colour = “yes/present”).