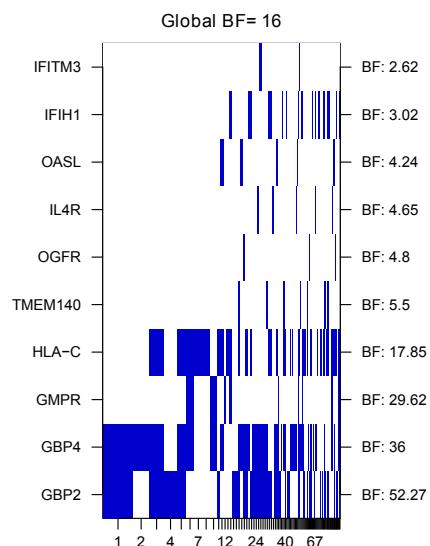
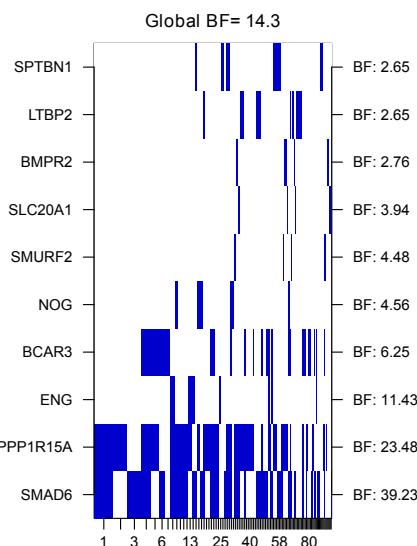


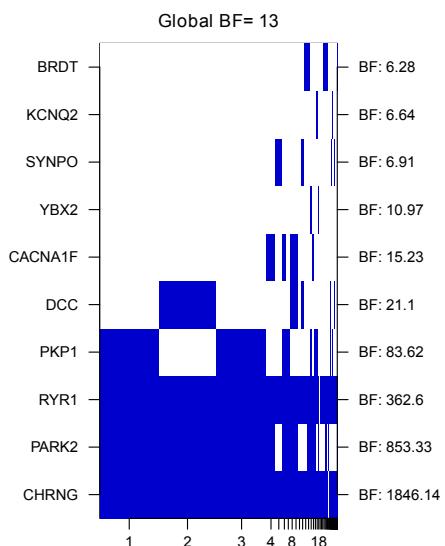
Interferon Alpha



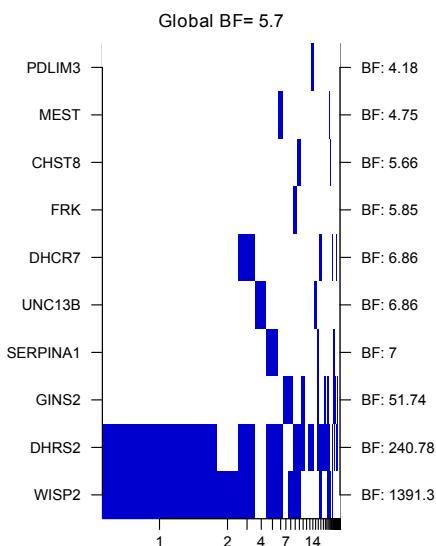
TGF-beta



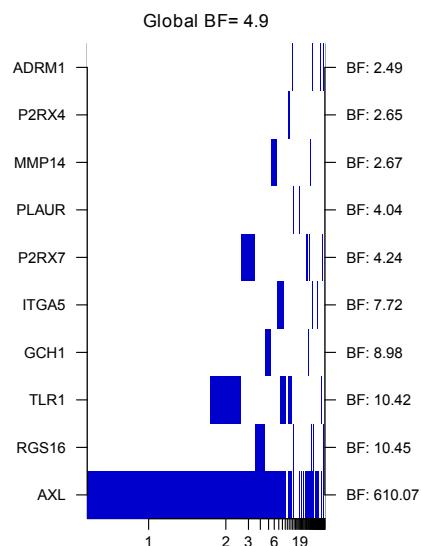
KRAS downregulated genes



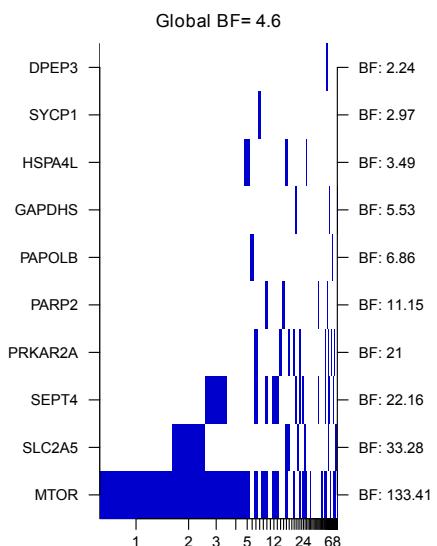
Estrogen response (late)



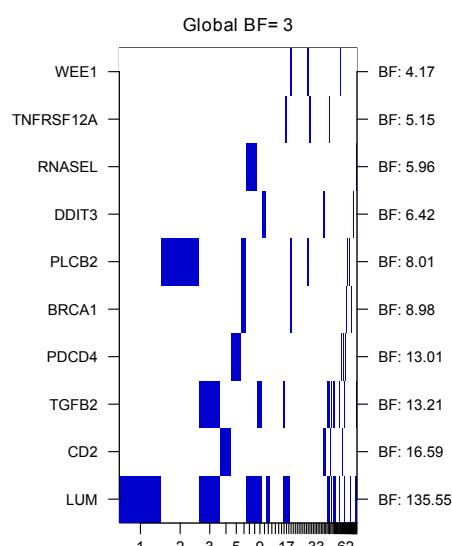
Inflammatory response



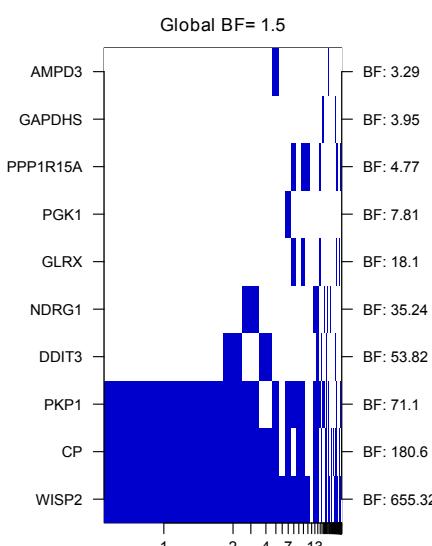
Spermatogenesis



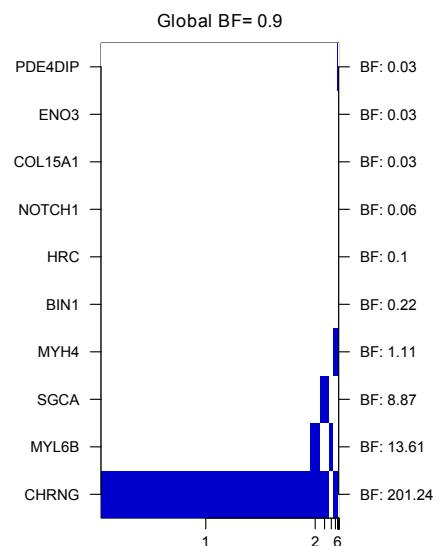
Apoptosis



Hypoxia



Myogenesis



Supplementary Figure 4 - Results of Bayesian Risk Index analysis of Hallmark Gene Sets. Only plots for gene sets with a global Bayes Factor (BF) >10 or in which any individual gene achieved BF ≥100 are shown (IL6_JAK_STAT3_SIGNALING and ANGIOGENESIS gene sets are instead shown in Figure 2). Analyses for differential burden of damaging variants between metastatic and non-aggressive cohorts were conducted for Tier 1 & 2 variants combined with MAF <1%. Each gene in the gene set was analysed as an individual region, with the top 10 genes included in the models depicted as rows in the plot, ordered according to gene level region BF. The gene regions or combinations of regions for the top models (indexed by the numbers on the x-axis) are plotted in the columns. These columns have widths proportional to and are ordered based on the posterior probability of the corresponding model. Global Bayes Factors for the entire gene set are indicated above each plot.