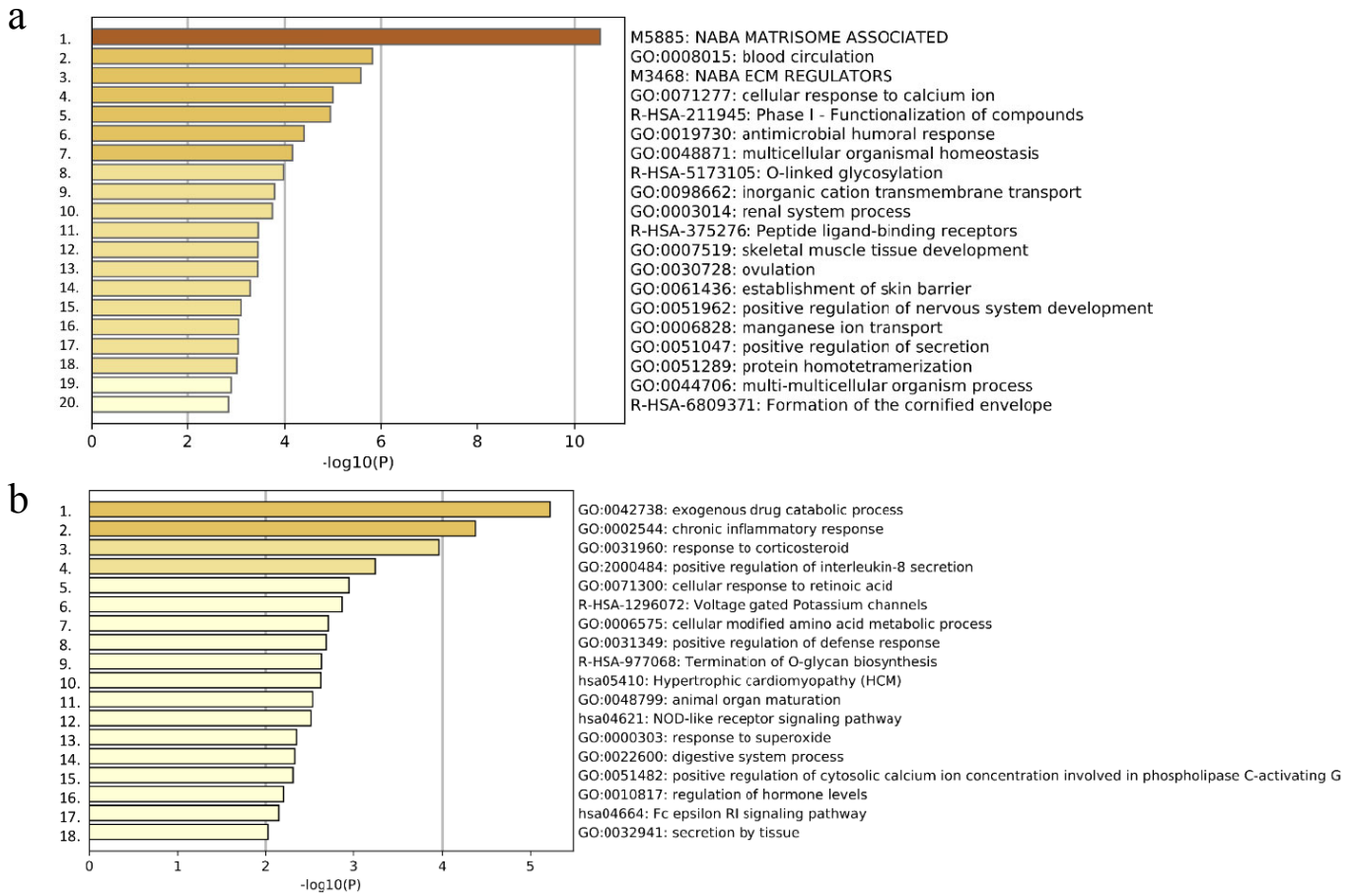
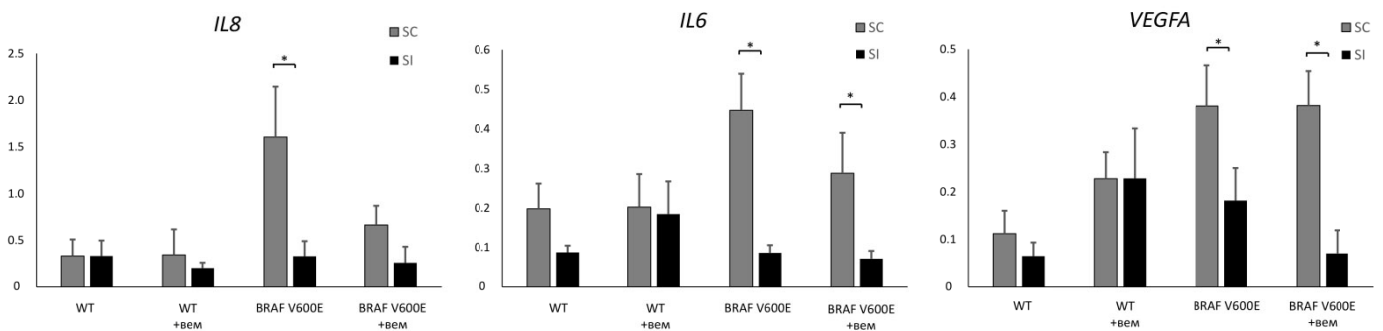


## SUPPLEMENT



**Fig. S1.** Enriched with differentially expressed genes groups that were obtained using Metascape program; X-axis shows P values of enrichment. a) Gene groups enriched with differentially expressed genes upon vemurafenib effect in cells expressing oncogene BRAF V600E. b) Gene groups enriched with differentially expressed genes upon suppression of *PTPN11* gene expression.



**Fig. S2.** Relative expression level of genes after suppression of *PTPN11* expression with siRNA and/or selective inhibition of BRAF V600E by vemurafenib. X-axis: studied cell types, i.e., WT, cells expressing BRAF V600E oncogene, vemurafenib-treated (+vem)/untreated cells. Cells treated with small interfering RNA for *PTPN11* gene are designated as SI, cells treated with control RNA are designated as SC. Gene expression levels are normalized by the *GAPDH* gene expression (Y-axis). \* Significant difference from the sample transfected with control (scrambled) RNA (scRNA) ( $p < 0.05$  according to Student's criterion).