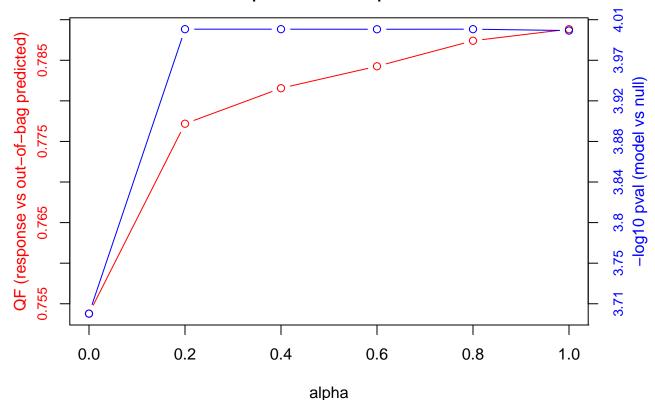
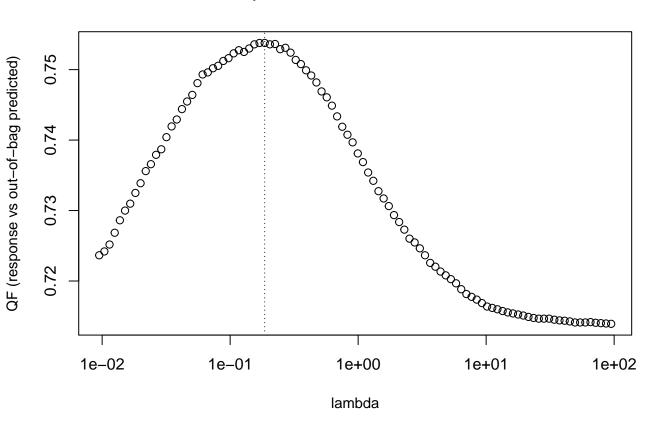
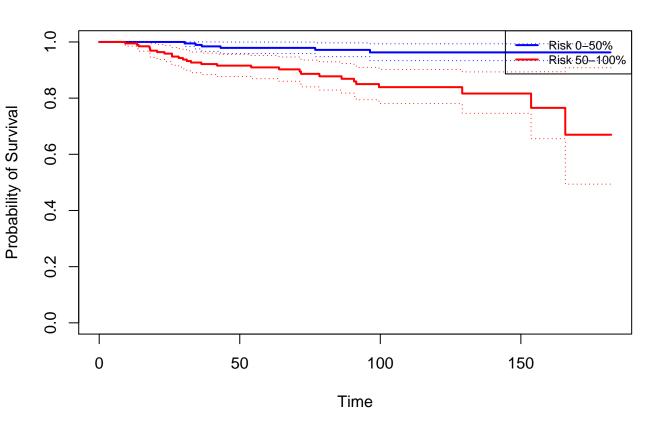
# model performance vs alpha values

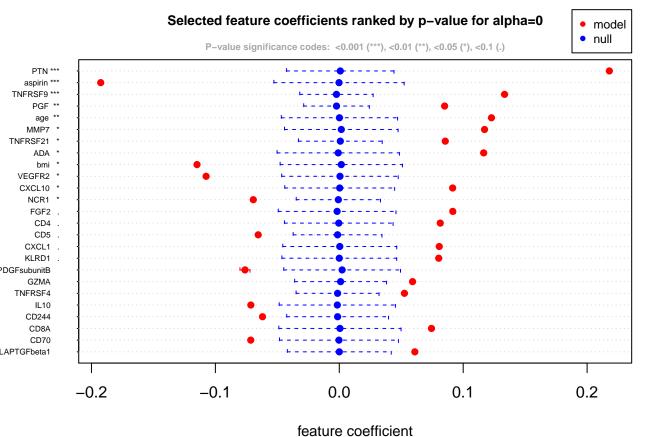


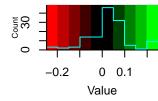
alpha=0; QF=concordance index





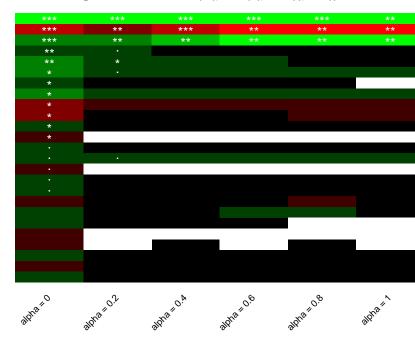






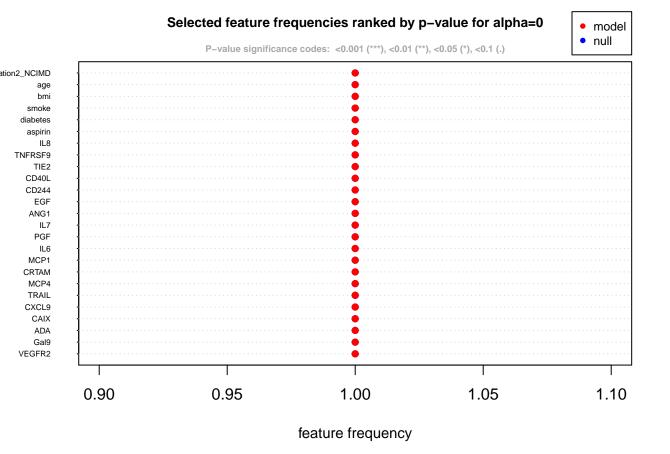
#### Features ranked by p-value for alpha=0

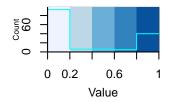
P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



aspirin TNFRSF9 PGF age MMP7 TNFRSF21 ADA bmi VEGFR2 CXCL10 NCR1 FGF2 CD4 CD5 CXCL1 KLRD1 **PDGFsubunitB** GZMA TNFRSF4 IL10 CD244 CD8A CD70 LAPTGFbeta1

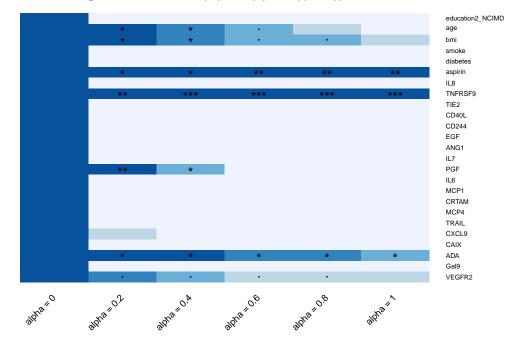
PTN



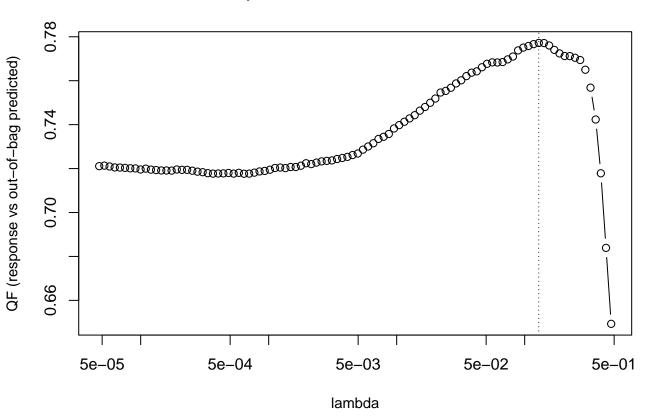


### Features ranked by p-value for alpha=0

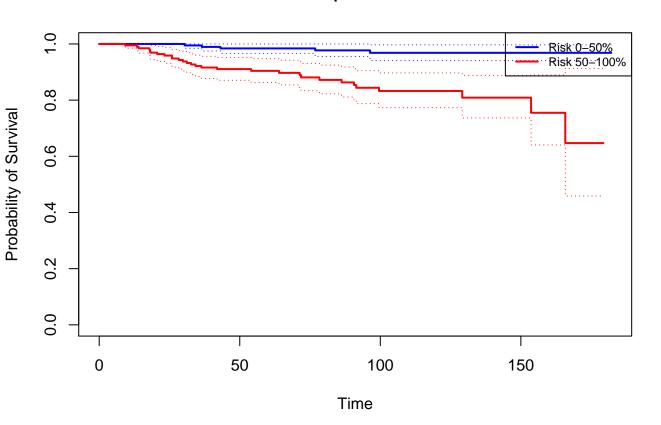
P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)

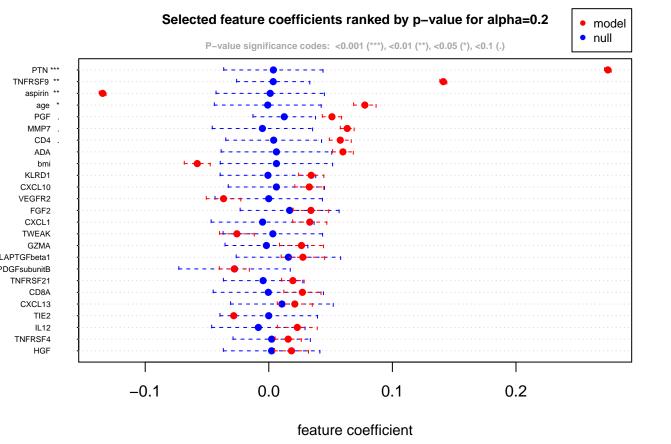


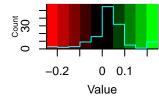
alpha=0.2; QF=concordance index



alpha=0.2

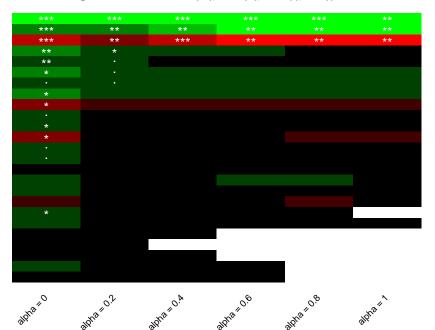






#### Features ranked by p-value for alpha=0.2

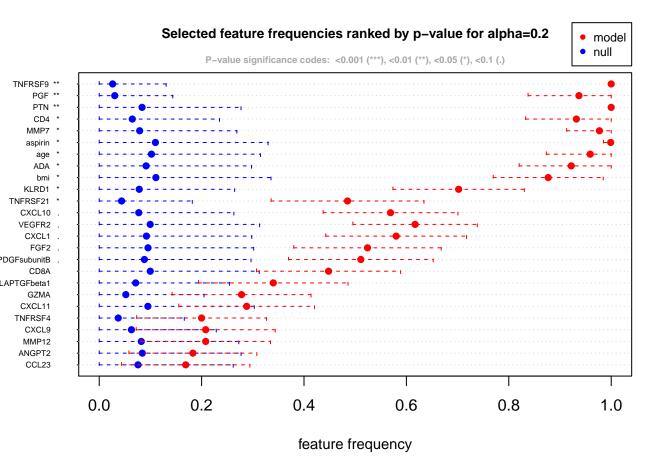
P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)

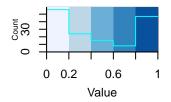


TNFRSF9 aspirin age PGF MMP7 CD4 ADA bmi KLRD1 CXCL10 VEGFR2 FGF2 CXCL1 **TWEAK** GZMA LAPTGFbeta1 **PDGFsubunitB** TNFRSF21 CD8A CXCL13 TIE2 IL12 TNFRSF4

HGF

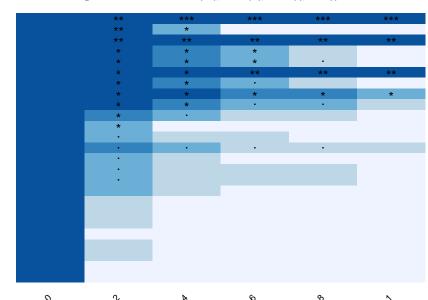
PTN





### Features ranked by p-value for alpha=0.2

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



TNFRSF9

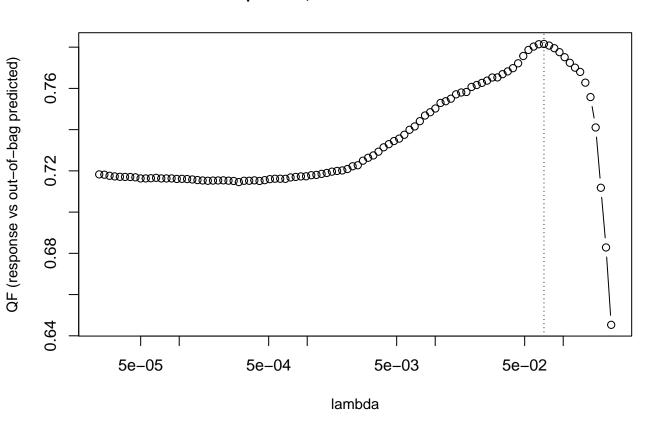
PGF

PTN CD4 MMP7

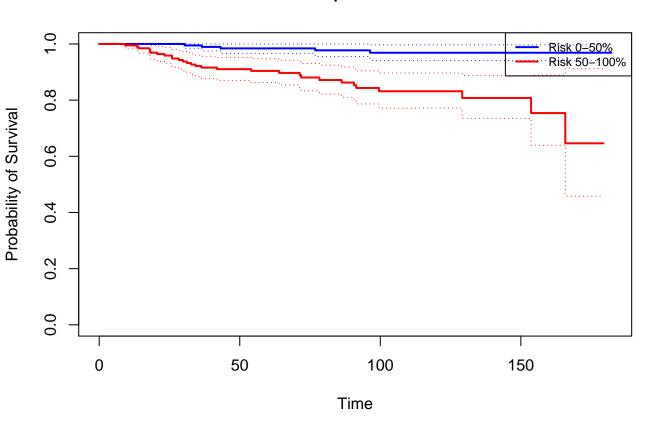
aspirin age

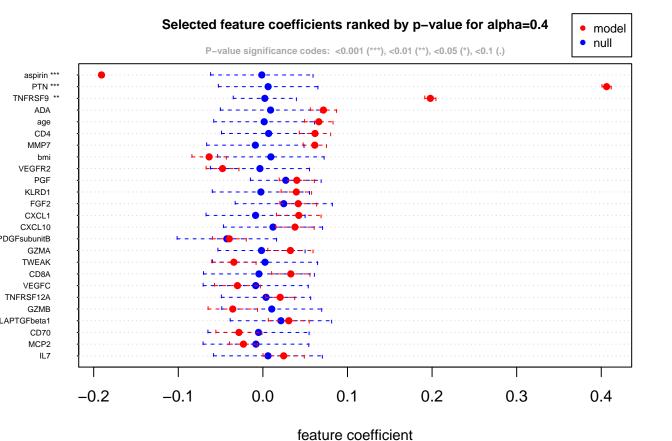
ADA bmi KLRD1 TNFRSF21 CXCL10 VEGFR2 CXCL1 FGF2 PDGFsubunitB CD8A LAPTGFbeta1 GZMA CXCL11 TNFRSF4 CXCL9 MMP12 ANGPT2 CCL23

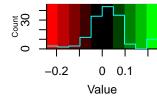
alpha=0.4; QF=concordance index



alpha=0.4

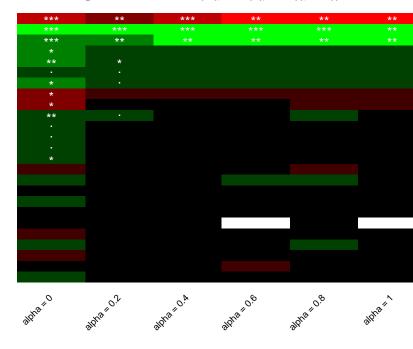






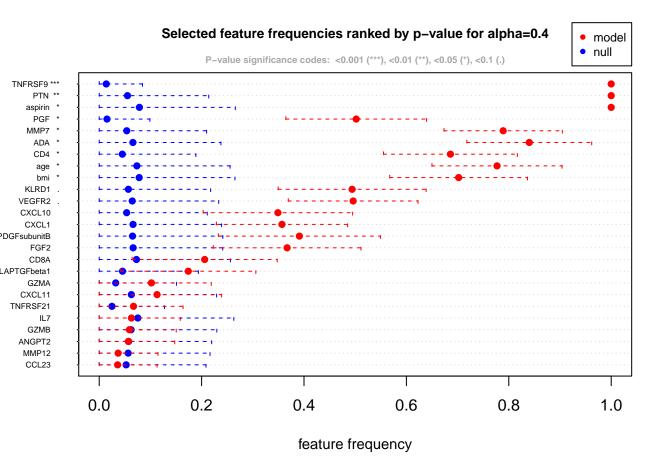
#### Features ranked by p-value for alpha=0.4

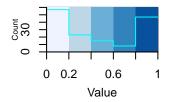
P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



aspirin PTN TNFRSF9 ADA age CD4 MMP7 bmi VEGFR2 PGF KLRD1 FGF2 CXCL1 CXCL10 PDGFsubunitB GZMA TWEAK CD8A VEGFC TNFRSF12A GZMB LAPTGFbeta1 CD70 MCP2

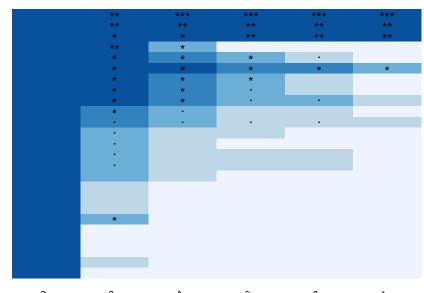
IL7





### Features ranked by p-value for alpha=0.4

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



PTN aspirin PGF MMP7 ADA CD4 age bmi KLRD1 VEGFR2 CXCL10 CXCL1 PDGFsubunitB FGF2 CD8A LAPTGFbeta1 GZMA CXCL11 TNFRSF21 IL7 GZMB ANGPT2 MMP12

CCL23

TNFRSF9

ilpha I

loha 10

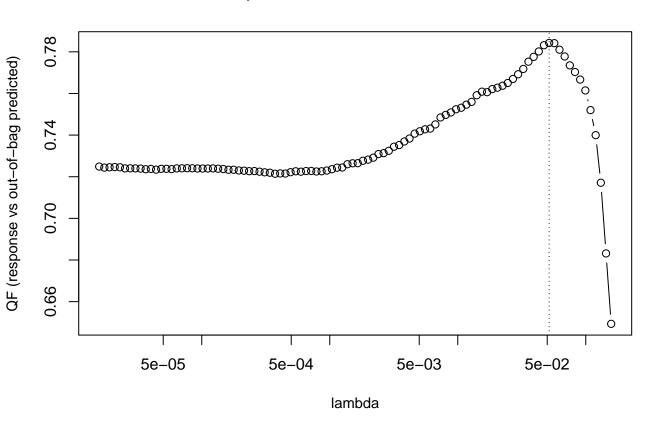
alpha 110

igha "Oʻ

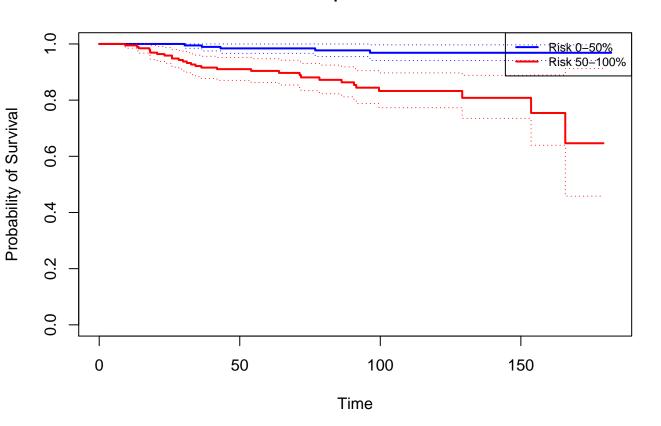
20 0 j

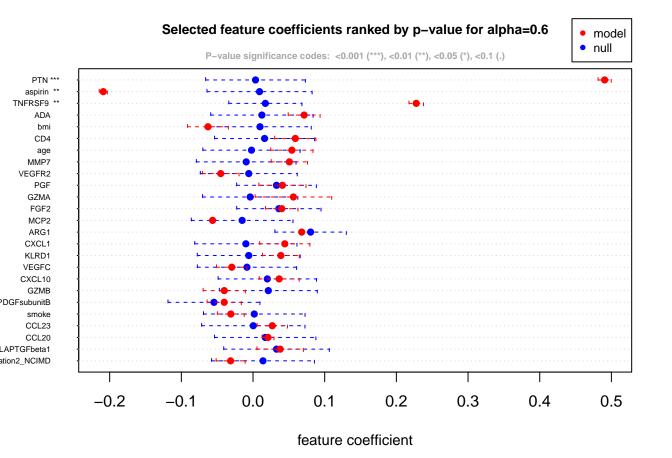
alpha

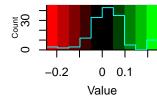
alpha=0.6; QF=concordance index



alpha=0.6





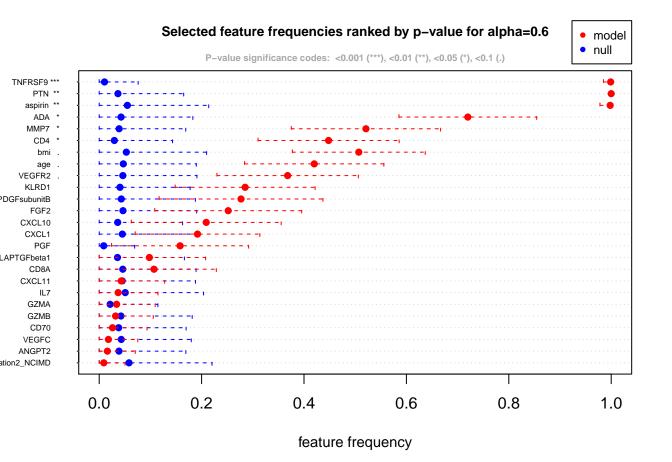


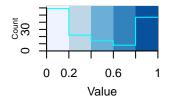
#### Features ranked by p-value for alpha=0.6

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



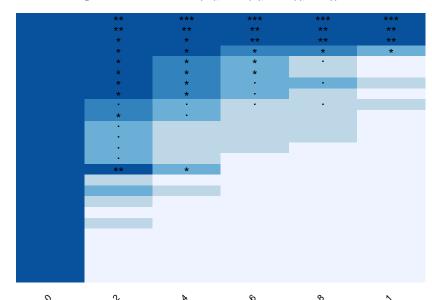
aspirin TNFRSF9 ADA bmi CD4 age MMP7 VEGFR2 PGF GZMA FGF2 MCP2 ARG1 CXCL1 KLRD1 VEGFC CXCL10 GZMB PDGFsubunitB smoke CCL23 CCL20 LAPTGFbeta1





### Features ranked by p-value for alpha=0.6

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



TNFRSF9

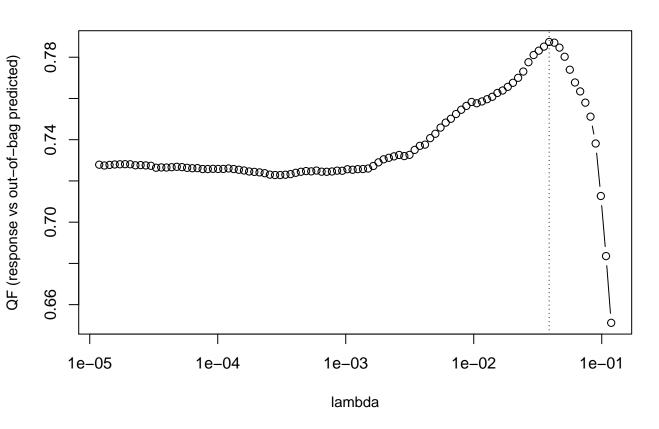
LAPTGFbeta1 CD8A CXCL11 IL7 GZMA GZMB CD70 VEGFC ANGPT2 education2 NCIMD

PTN

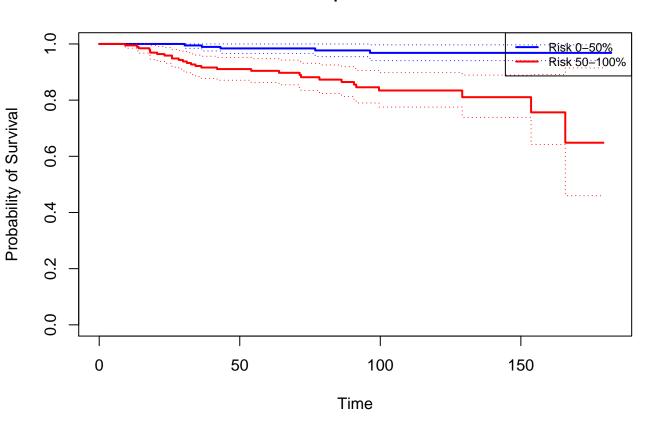
aspirin

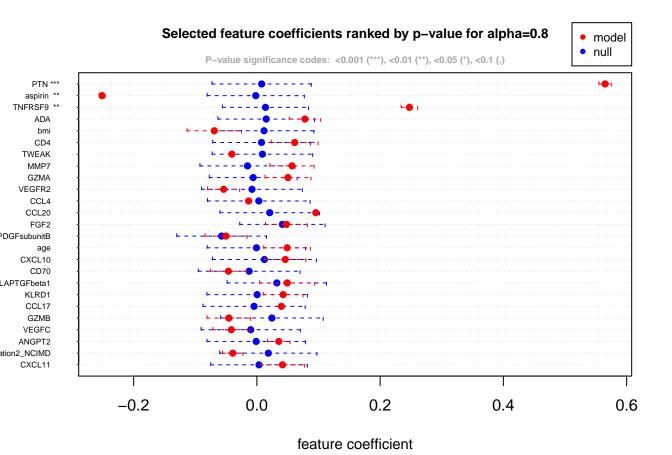
ADA
MMP7
CD4
bmi
age
VEGFR2
KLRD1
PDGFsubunitB
FGF2
CXCL10
CXCL1
PGF

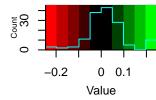
alpha=0.8; QF=concordance index



alpha=0.8

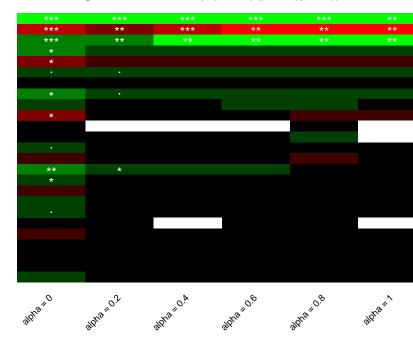




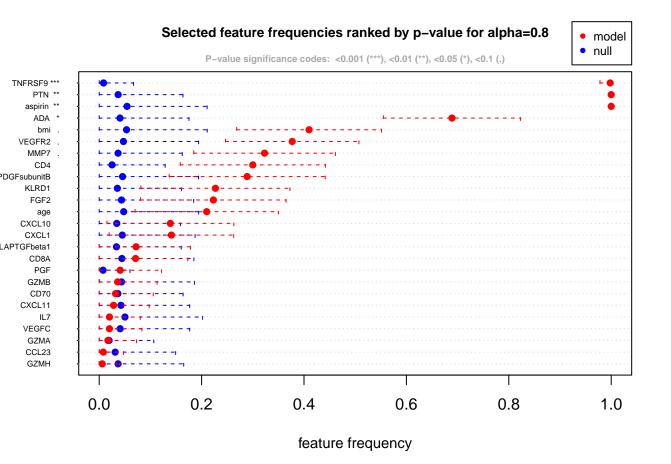


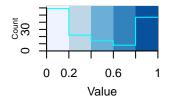
#### Features ranked by p-value for alpha=0.8

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



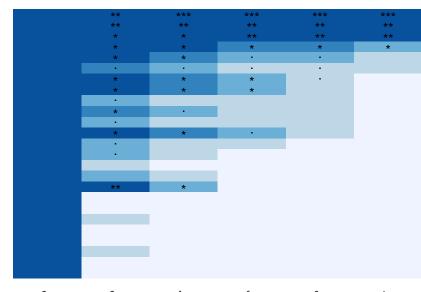
PTN aspirin TNFRSF9 ADA bmi CD4 **TWEAK** MMP7 GZMA VEGFR2 CCL4 CCL20 FGF2 PDGFsubunitB age CXCL10 CD70 LAPTGFbeta1 KLRD1 CCL17 GZMB VEGFC ANGPT2 education2 NCIMD CXCL11





### Features ranked by p-value for alpha=0.8

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



PTN aspirin ADA bmi VEGFR2 MMP7 CD4 **PDGFsubunitB** KLRD1 FGF2 age CXCL10 CXCL1 LAPTGFbeta1 CD8A PGF GZMB CD70 CXCL11 IL7 VEGFC

GZMA CCL23 GZMH

TNFRSF9

ipha IO

.cha "C

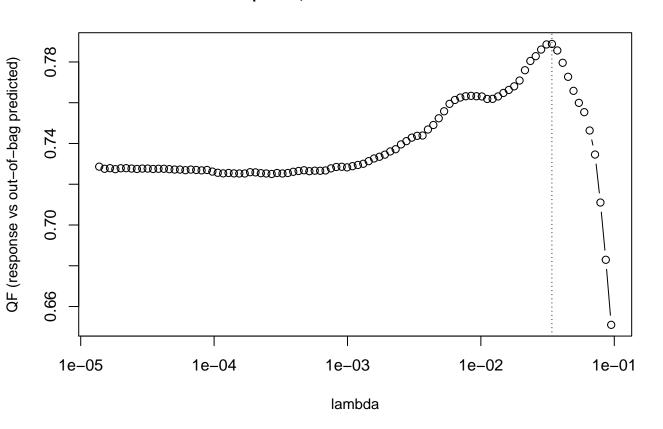
alpha 10

loha "C

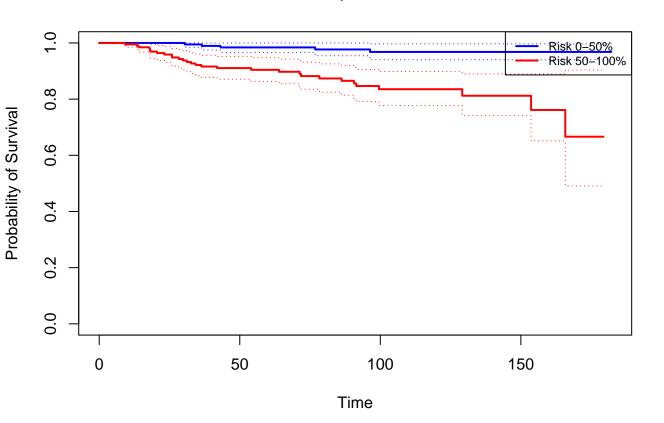
wha TO

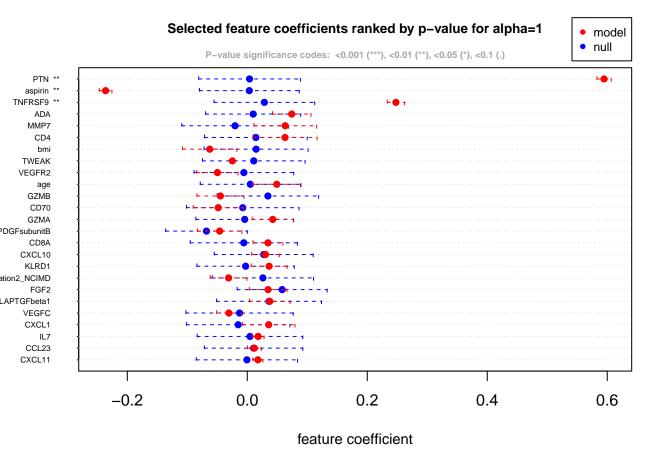
alpha

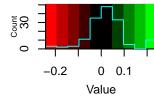
alpha=1; QF=concordance index



alpha=1

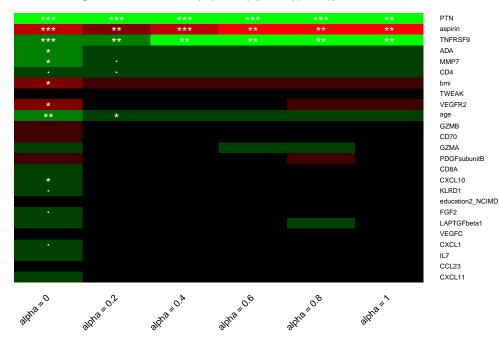


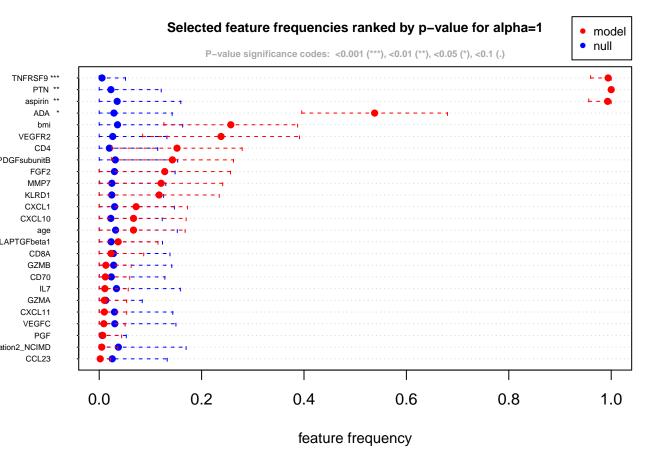


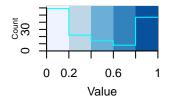


#### Features ranked by p-value for alpha=1

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)

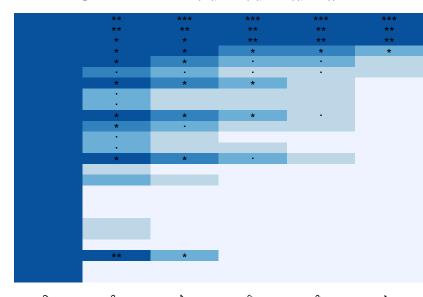






### Features ranked by p-value for alpha=1

P-value significance codes: <0.001 (\*\*\*), <0.01 (\*\*), <0.05 (\*), <0.1 (.)



PTN aspirin ADA bmi VEGFR2 CD4 **PDGFsubunitB** FGF2 MMP7 KLRD1 CXCL1 CXCL10 age LAPTGFbeta1 CD8A GZMB CD70 IL7 GZMA CXCL11 VEGFC PGF education2\_NCIMD CCL23

TNFRSF9