a Predicted differentially active pathways: Neut^{hi} vs Neut^{low}

Pathways (top to bottom): PTPR, EPHB, CADM, FLT3, CD200, SELPLG, CD86, CCL, CD6, SEMA7, CD40, RESISTIN, APRIL, ApoE, CD45, PECAM1, CypA, CD96, PROS, CLEC, CD80, BAFF, FASLG, APP, GRN, CD99, JAM, SN, IL16, SEMA3, THBS, LAIR1, FN1, GALECTIN, SEMA4, COLLAGEN, TGFb, MK, CSF, NECTIN, MIF, COMPLEMENT, GAS, LIGHT, PECAM2, PVR, ANNEXIN, LAMININ, MPZ, ICAM, IFN-II, ADGRE, CXCL, VTN, PLAU, MHC-I, PTPRM, HSPG, AGRN, VISFATIN, CD39, TNF, SEMA6, OX40, CD70, DESMOSOME, ADGRA, NCAM, TRAIL, TWEAK, CD48, GDF, CD46, ADGRG, IL2, LCK, ACTIVIN, NOTCH, IL1

Relative information flow

- Higher activity in Neut^{low}
- Higher activity in Neut^{hi}
- No significant difference

b Predicted pathway interaction activity

Neutrophil-low | Neutrophil-high

IL-1 — Pathway not detected (Neutrophil-low); IL1R2, IL1R1 IL1R2 IL1RAP, IL1B, IL1A (Neutrophil-high)

TNF — TNFRSF1A/TNFRSF1B, TNF

IFN-II — IFNGR1/IFNGR2, IFNG

CXCL chemokine — CXCR6, CXCR2, CXCL8, CXCL16, CXCR1, CXCR2, CXCL3, CCL8

CCL chemokine — CCR4, CCR5, CCR1, CCL23, CCL3, CCL4, CCL5

c *IL1B* — Prog Neut^{low}/Neut^{hi}, Active TB Neut^{low}/Neut^{hi}; % of myeloid; Average expression

d *TNF* — Prog Neut^{low}/Neut^{hi}, Active TB Neut^{low}/Neut^{hi}; % of total; Average expression

e *IFNG* — % of T/NK; Average expression

f *CXCL8* — % of myeloid; Average expression

g *CCL5* — % of T/NK; Average expression

Cell cluster
- 0. AM *APOC2*
- 1. AM *IFI27*
- 10. AM
- 11. AM
- 13. AM *FN1 CCL18*
- 14. AM mito^{hi}
- 21. AM proliferating
- 16. AM IFN-responsive
- 12. Mo-derived AM *APOE*
- 15. Mo-derived AM *FPR3*
- 18. Monocyte
- 2. Neutrophil *IFIT2 IL1RN*
- 3. Neutrophil *CXCR4*^{hi}
- 6. CD4 T cell naive/stem
- 4. CD4 T cell effector
- 5. *CD8A*$^+$ T cell
- 8. Treg *FOXP3*
- 7. γδ T cell/NK cell
- 9. T cell proliferating

Extended Data Fig. 6