**Human Immune Cell Signature Markers for scRNAseq Data analysis**

**Conventional T cells**

CD3D, CD3E, CD3G

CD4--CD4 T cells

CD8A, CD8B--CD8 T cells

**iNKT Cells**

CD3D, CD3E, CD3G

TRAV10 (Vα24), TRAJ18, TRBV25-1 (Vβ11)

KLRB1 (CD161)

ZBTB16 (PLZF)

CD4 and/or CD8

NKG7

GZMB (Granzyme B) and PRF1 (Perforin)

IL12RB1 and IL18R1

**MAIT Cells**

CD3D, CD3E, CD3G

TRAV1-2, TRAJ33, TRAJ20, TRAJ12

SLC4A10

KLRB1 (CD161)

ZBTB16 (PLZF)

RORA

IL18R1

GZMB (Granzyme B) and PRF1 (Perforin)

**B cells**

CD19

MS4A1 (CD20)

CD79A, CD79B

IGHM

HLA-DR

CD27-memory B

CD38- activated & plasma B

MZB1- plasma B

SDC1-plasma B

XBP1-plasma B

**Langerhans Cells (LCs)**

CD1A

CD207 (Langerin)

EPCAM (EpCAM)

HLA-DRA, HLA-DRB1, HLA-DQA1

ITGAX (CD11c)

CD11B (ITGAM)

RAB7A

CD14

**Dendritic Cells (DCs)**

CD1C (BDCA-1)

CLEC10A

FCER1A (FcεRIα)

HLA-DR, HLA-DQ, HLA-DP, HLA-DP

ITGAX (CD11c)

CD14

LAMP3-activated or migratory DCs

CCR7- activated or migratory DCs

**pDC**

CLEC4C (BDCA-2)

LILRA4 (ILT7)

IRF7, IRF8

TLR7, TLR9

SLC15A4

SPIB

HLA-DR, CD74

**Macrophages (MF)**

CD68

HLA-DR- immune surveillance and antigen presentation

CD163-M2, anti-inflammation

MRC1 (CD206)- M2, anti-inflammation

CSF1R (CD115)

FCGR3A (CD16)- phagocytic and cytotoxic functions

CXCL10-activated state

MARCO-innate imm response

LYVE1-Tissue repair

TREM2- Tissue repair, anti-inflamation

APOE (Apolipoprotein E)-Lipid handling

**Monocytes**

CD14

LYZ

FCGR3A (CD16)-non-classical monocytes

CCR2-classical

FCN1 (Ficolin-1)-classical

CSF1R

S100A8 and S100A9-inflammatory

FCN1 (Ficolin-1)-classical

CD36

**Innate Lymphoid Cells (ILCs)**

IL7R (CD127)

GATA3

TBOX21, IFNg-ILC1 (NK)

CRTH2 (GPR44), IL5, IL13-ILC2

RORC, IL22, IL17A, KIT (CD117), NKp44 (NCR2), AHR-ILC3