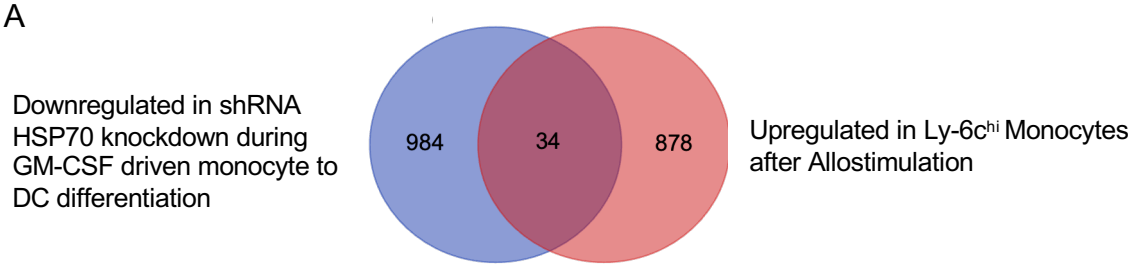
A

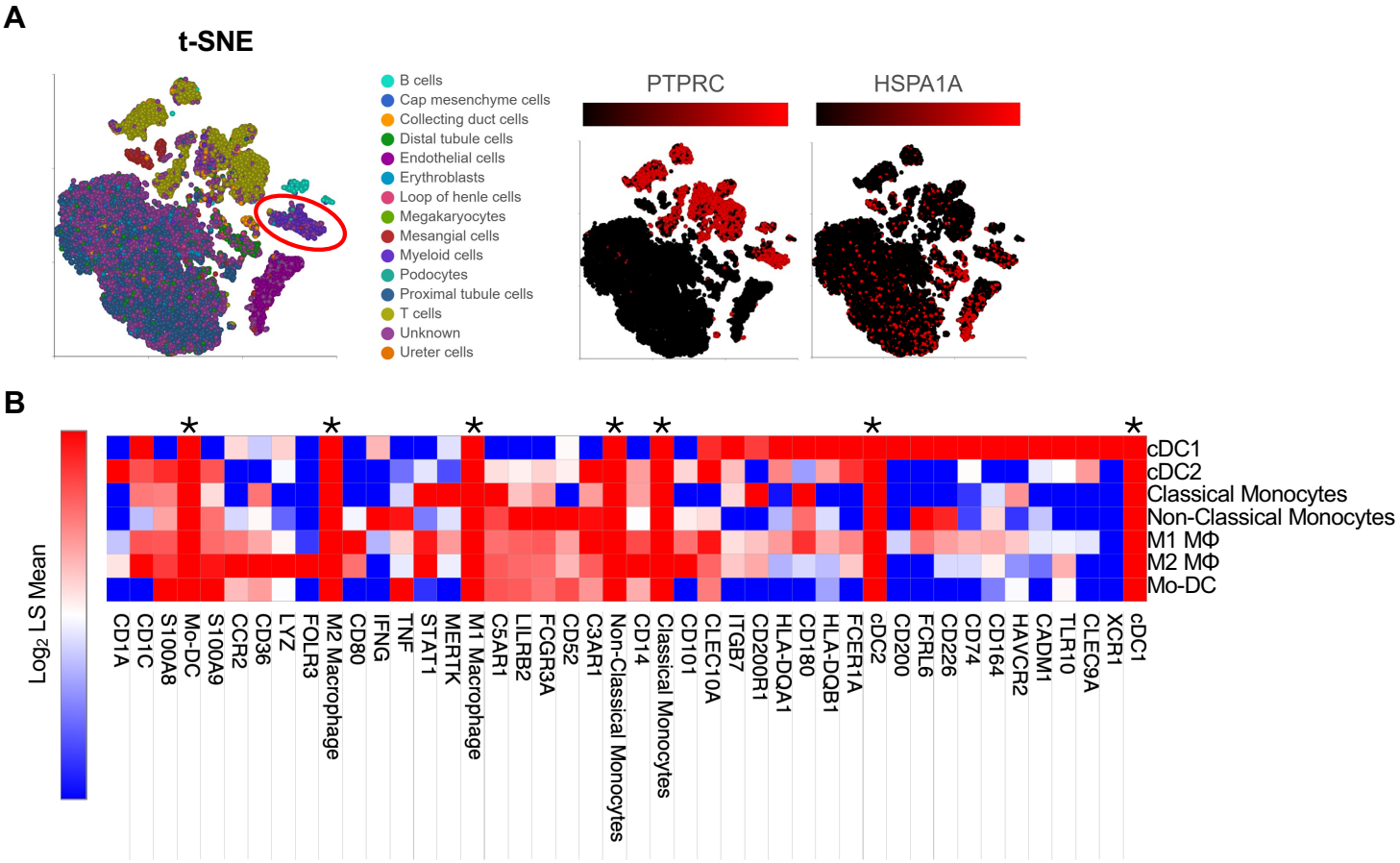


B

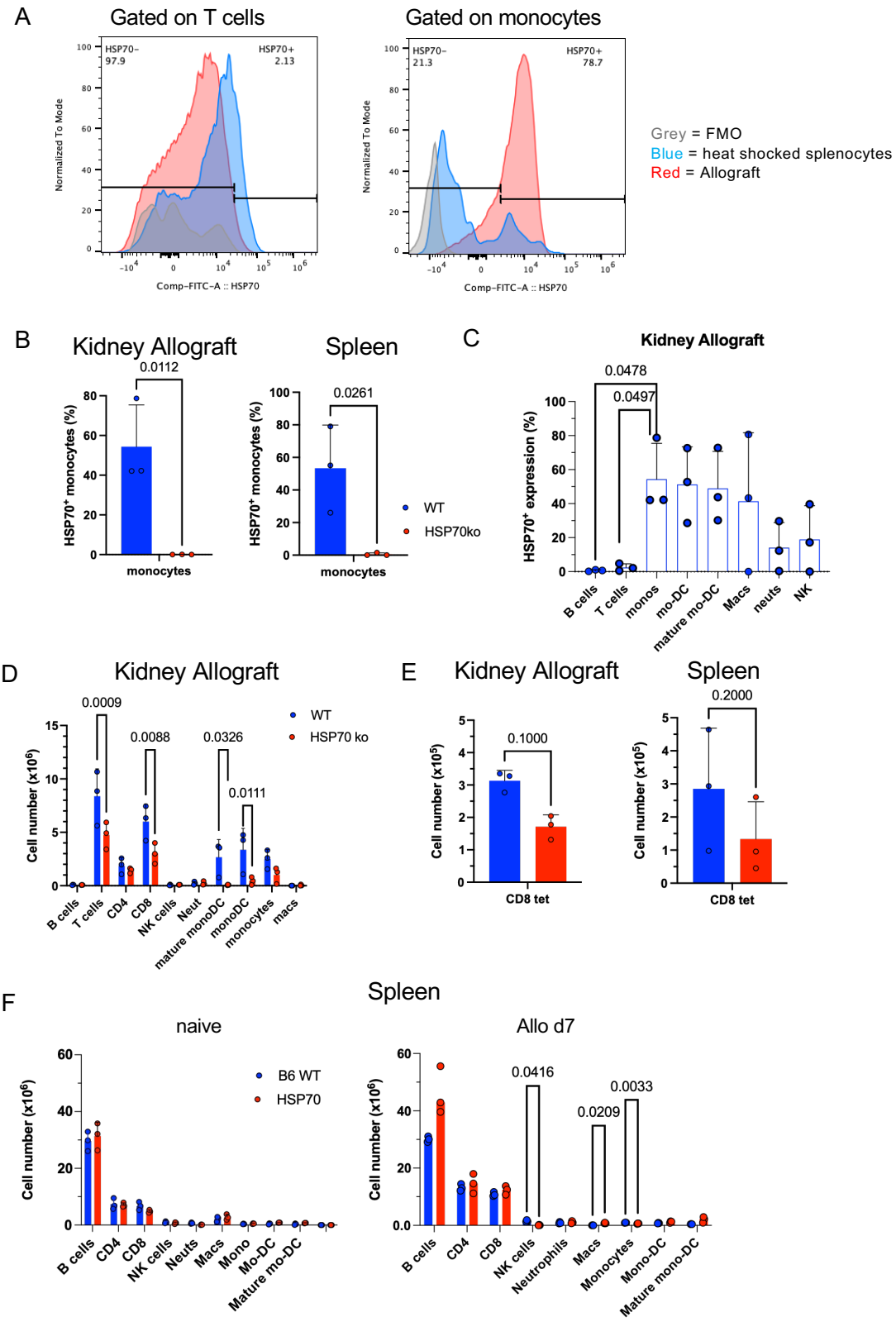
List of the common 34 genes from Venn Diagram in (A)

Ppfibp1	Gins2
Hcar2	Lilrb4a
Spef1	5830432E09Rik
Ccl5	Gm21399
Zfp646	Hmga1b
Myo9b	Pfas
Homer3	Slfn9
Cd81	Angptl2
Ptges	Mms22l
Edil3	Hmox1
Vat1	Stxbp1
Orc1	Eaf1
Actn1	Pidd1
Arg1	Jun
Tk1	Clcf1
Srxn1	Mapk11
Fancm	Cav2

Supplemental Figure 1: **HSP70 regulation of innate allorecognition is unrelated to GM-CSF driven monocyte to DC differentiation.**
(A) Venn Diagram of genes upregulated in Ly-6Chi splenic monocytes 7 days after allostimulation with injection of 20m irradiated Balb/c splenocytes and downregulated in shRNA HSP70 knockdown monocytes during GM-CSF driven monocyte to DC differentiation.
(B) List of the 34 common genes in the Venn diagram.



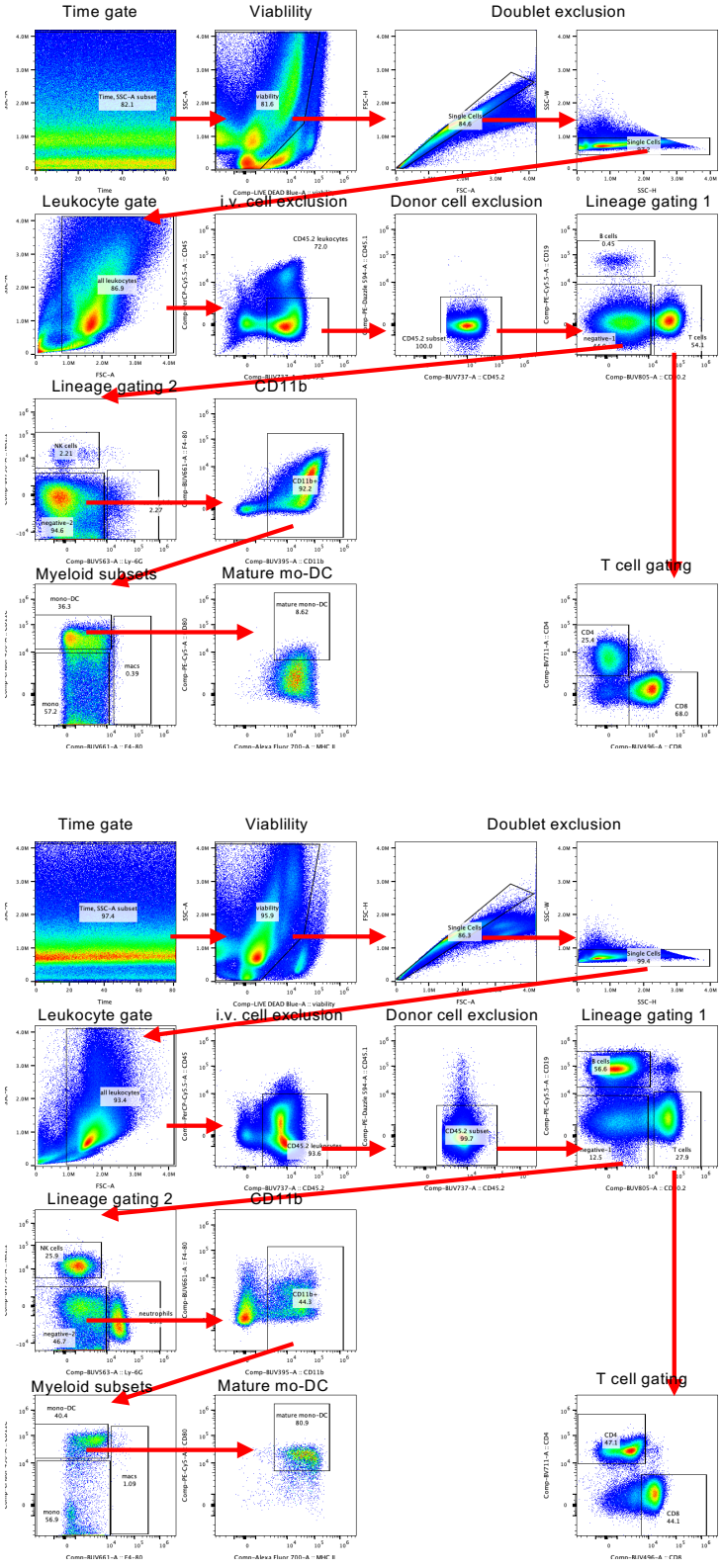
Supplemental Figure 2: **Classification of single cells in scRNAseq dataset E-MTAB-12051 from kidney transplant biopsies.**
(A) t-SNE of immune and non-immune cells from the dataset with classification from automated Garnett cell classifier highlighted, left panel, expression of PTPRC and HSPA1A visualized on the t-SNE, right panels. (B) Heatmap of expression of marker genes used to classify the myeloid neighborhoods of Figure 2.



Supplemental Figure 3: **Immune subsets in WT and HSP70-ko mice.**
(A) Representative flow plots depicting intracellular HSP70 staining in WT cells. Gating according to Suppl. Fig. 4. Shown are fluorescence-minus-one control (grey), heat-shocked positive control (blue) and allograft sample. (B) Intracellular HSP70 expression in monocytes in KTx and spleen on d7. (C) Frequency of intracellular HSP70+ cells in allograft infiltrating immune subsets in WT mice on d7 post Tx. (D) Immune subsets in KTx on d7 after transplantation. (E) Number of allospecific (H-2K(d) tetramer panel positive) CD8 T cells in allograft and spleen on d7. (F) Immune subset characterization in the spleen comparing WT and HSP70-ko mice, left panel naïve mice, right panel Balb/c immunized mice on day 7. ($p<0.05$ considered significant, unpaired t-test (B, E) and two-way ANOVA with Tukey's multiple comparisons test (C, D, F))(n=3, N=2 experiments).

allograft

spleen



Supplemental Figure 4: **Gating strategy for identification of immune subsets in allografts and spleen.**
Representative flow cytometry gating strategy used to identify immune subsets in kidney allografts (top) and spleen (bottom) on day 7 after transplantation. Cells were gated sequentially on time, viability, single cells, leukocytes (CD45+), intravascular (i.v.) label exclusion, and donor-cell exclusion, followed by lineage gating to resolve B cells, T cells (CD4 and CD8), NK cells, neutrophils, CD11b+ myeloid cells, monocytes, mo-DC, mature mo-DC (CD80+ MHCII+), and macrophages.