

Supplemental Tables

Table 1: DEGs of TAMs in contact vs TAMs not in contact or naïve BM MPs

This Excel file contains genes, and complete GO-term analysis used for Figure 6.

Table 2: DEGs of TAMs not in contact vs TAMs in contact or naïve BM MPs

This Excel file contains genes, and complete GO-term analysis used for Figure 6.

Table 3: DEGs of TAMs in contact and TAMs not in contact vs naïve BM MPs

This Excel file contains genes, and complete GO-term analysis used for Figure 6.

Table 4: Analysis of cognate pairs of TAM ligands and MM receptor

This Excel file contains gene analysis used for Figure 7A-B.

Table 5: Analysis of cognate pairs of MM ligands and TAM receptor

This Excel file contains gene analysis used for Figure 7C-D.

Supplemental Movie Legends

Supplemental Movie 1. Z-stack montage through a myeloma cluster using intra-vital two-photon imaging. GFP+ myeloma cells (green) are shown in context of CD169+ macrophages (red), labeled with ant-CD169 PE, administered i.v. one day prior.

Supplemental Movie 2. Intra-vital two-photon time-lapse imaging in the tibia. Myeloma cell (green) extends a nanotube in contact with autofluorescent macrophage (blue). During the time course, the nanotube is snapped off and taken up by the macrophages.

Supplemental Movie 3. Intra-vital two-photon time-lapse imaging of myeloma cells (green) pre and post rTNFa treatment.

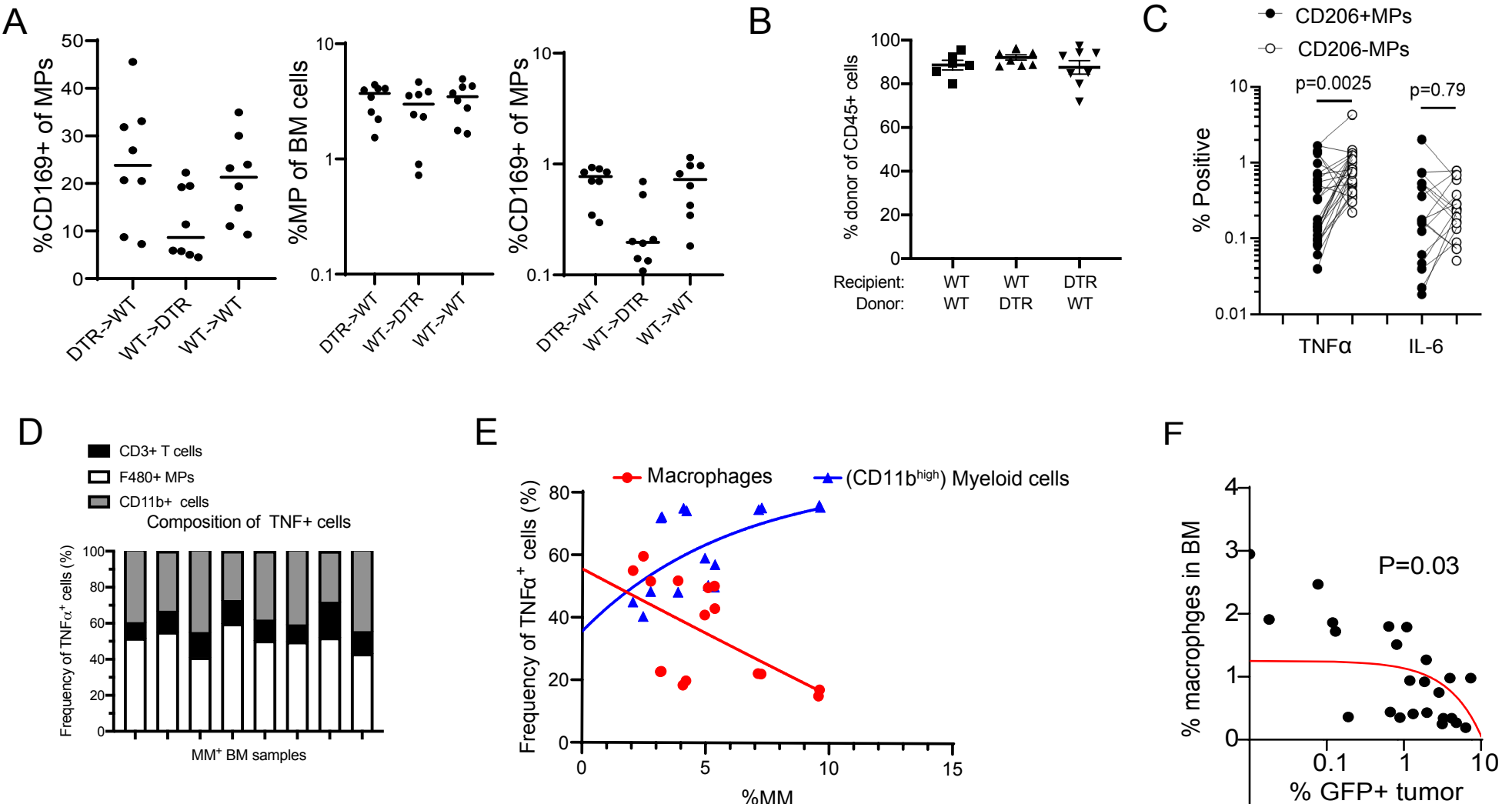
Supplemental Figure Legends

Supplemental Figure 1

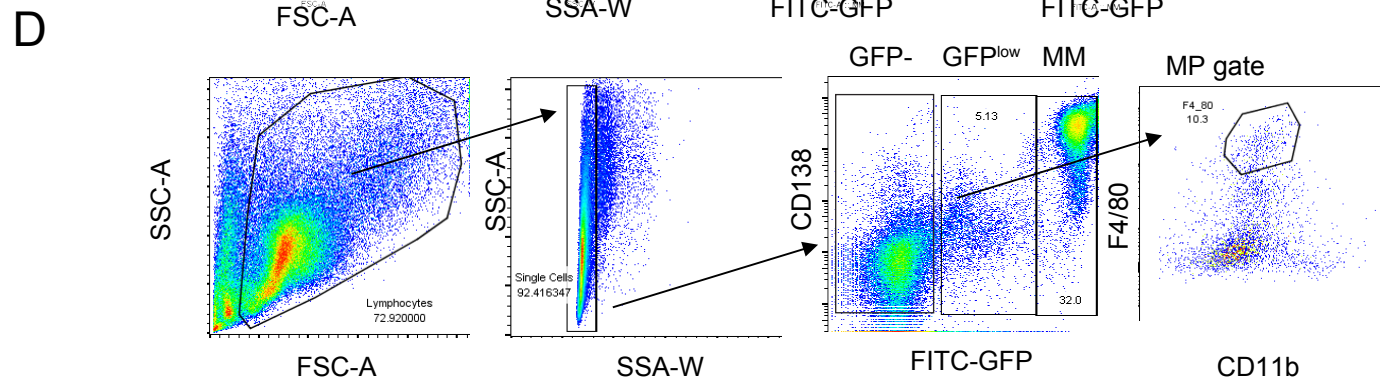
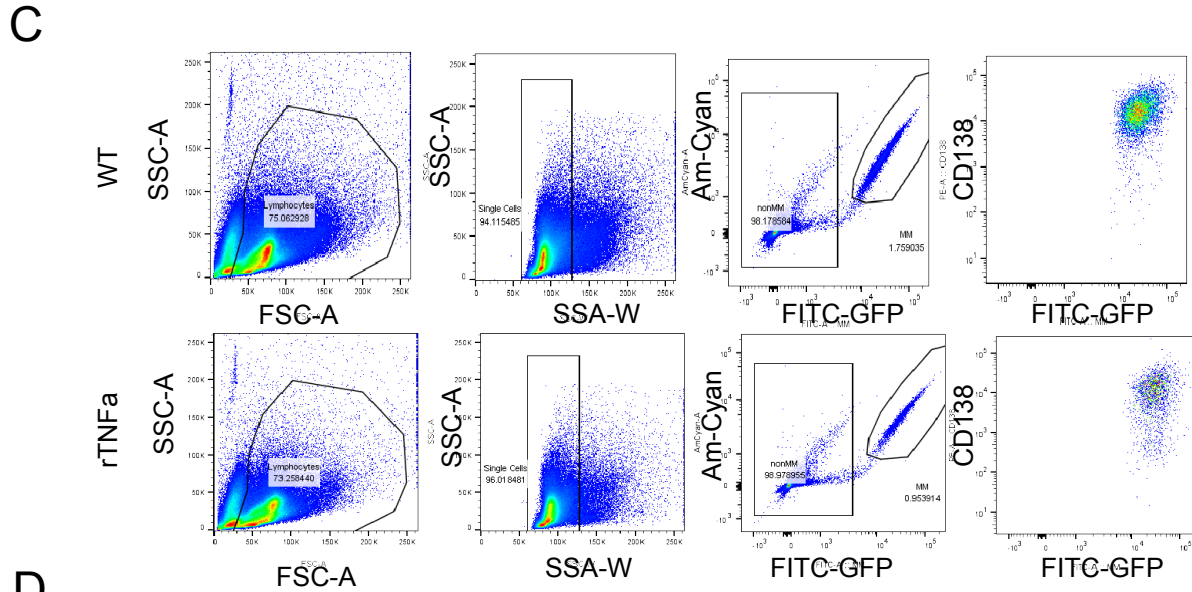
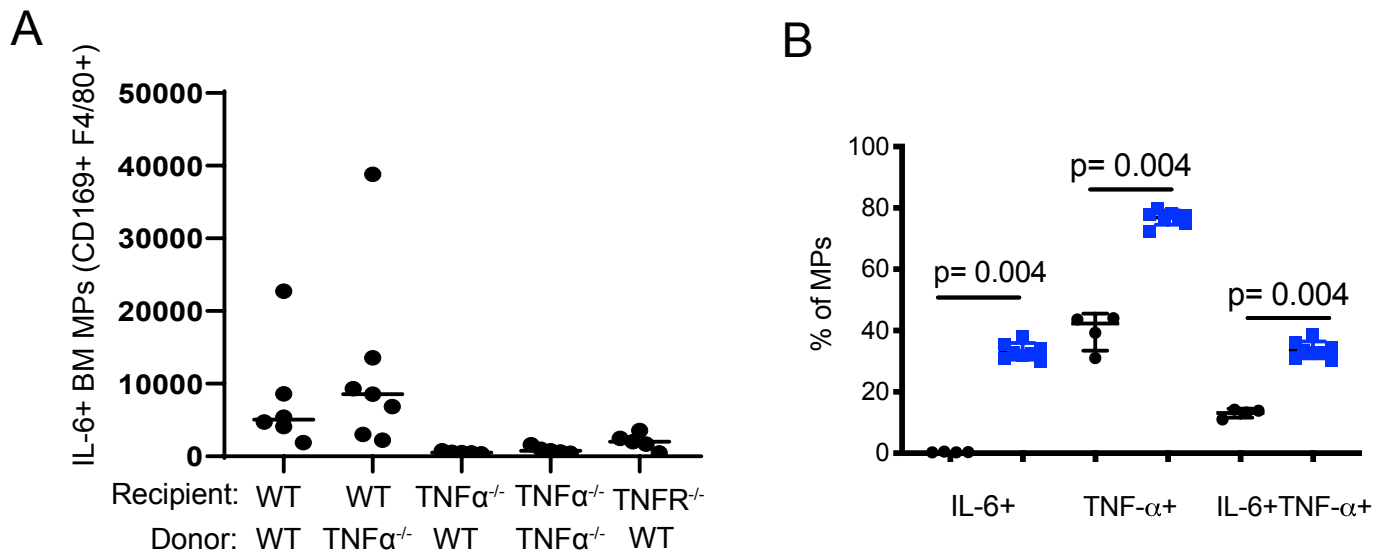
A-B. Analysis of CD169-DTR chimeric mice following DT treatments. A Analysis of macrophages as gated in Figure 1A, and analyzed for CD169 expression. B. Analysis of chimerism based on the spleen. C. Comparison of CD206+ and CD206- MPs on the basis of TNF α and IL-6 intracellular production, pair-wise comparison in matched samples. D-E Analysis of TNF α production in CD3+ T cells, macrophages (gated as in Figure 1A), CD11b^{high} myeloid cells. D. Composition of TNF α + producing cells shown as a stacked plot. E. Comparison of TNF α + MPs and myeloid cells as a function of myeloma size. F. Analysis of frequency of BM macrophages as a function of tumor size.

Supplemental Figure 2

A. Analysis of numbers of IL-6+ BM MPs from TNF α -deficient chimeras, shown in Figure 3I. B. rTNF α stimulation of BM cells from naïve and myeloma bearing mice and analysis of intracellular IL-6 and TNF α producing MPs ex vivo. Mann Whitney t-tests were performed. C. Gating strategy for PBS and rTNF α treated BM from myeloma-bearing mice, analyzed in Figure 4C. D. Gating strategy for GFP+ MPs used in sorting for RNAseq analyses in Figure 6-7.



Supplemental Figure 1



Supplemental Figure 2