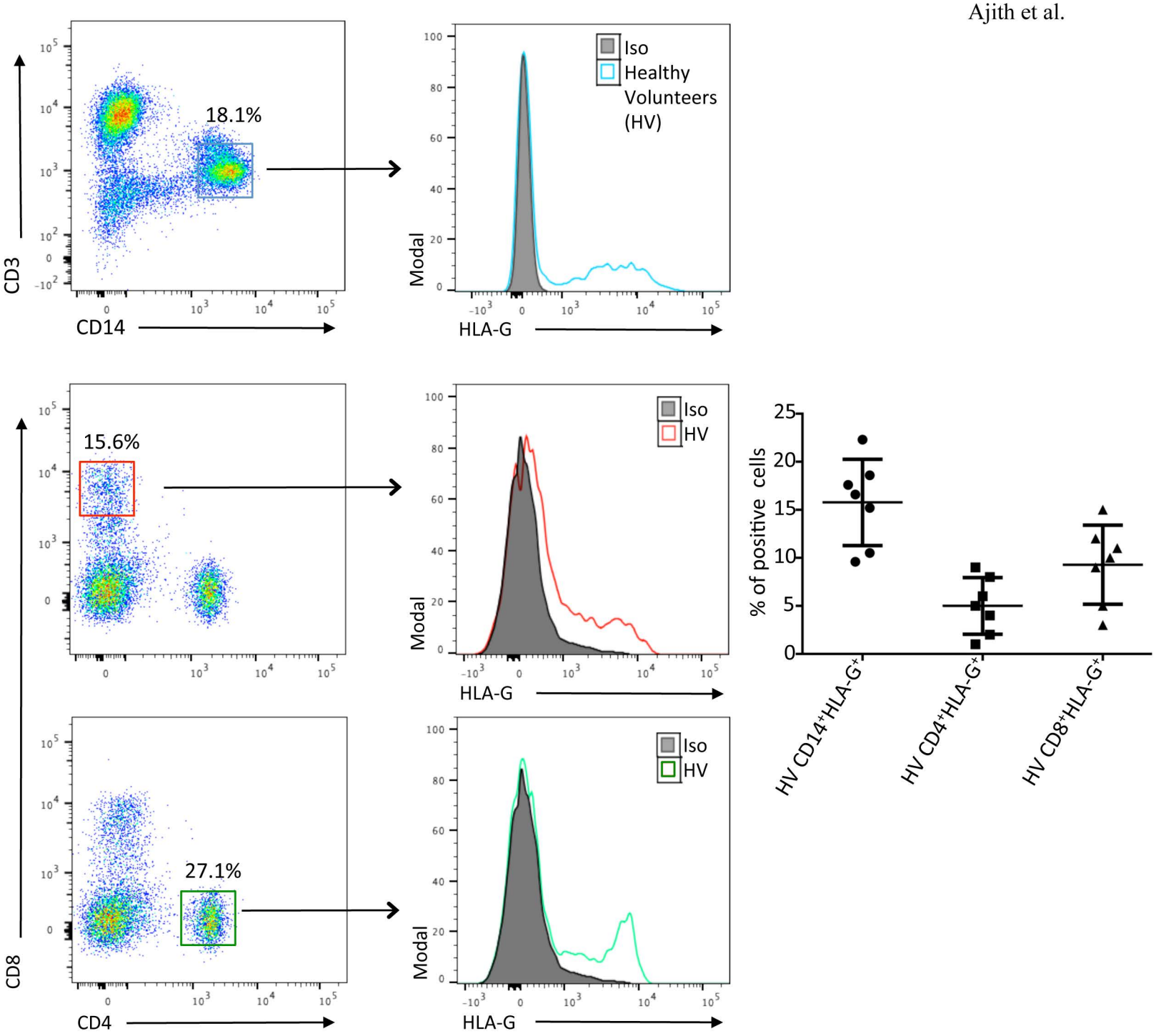
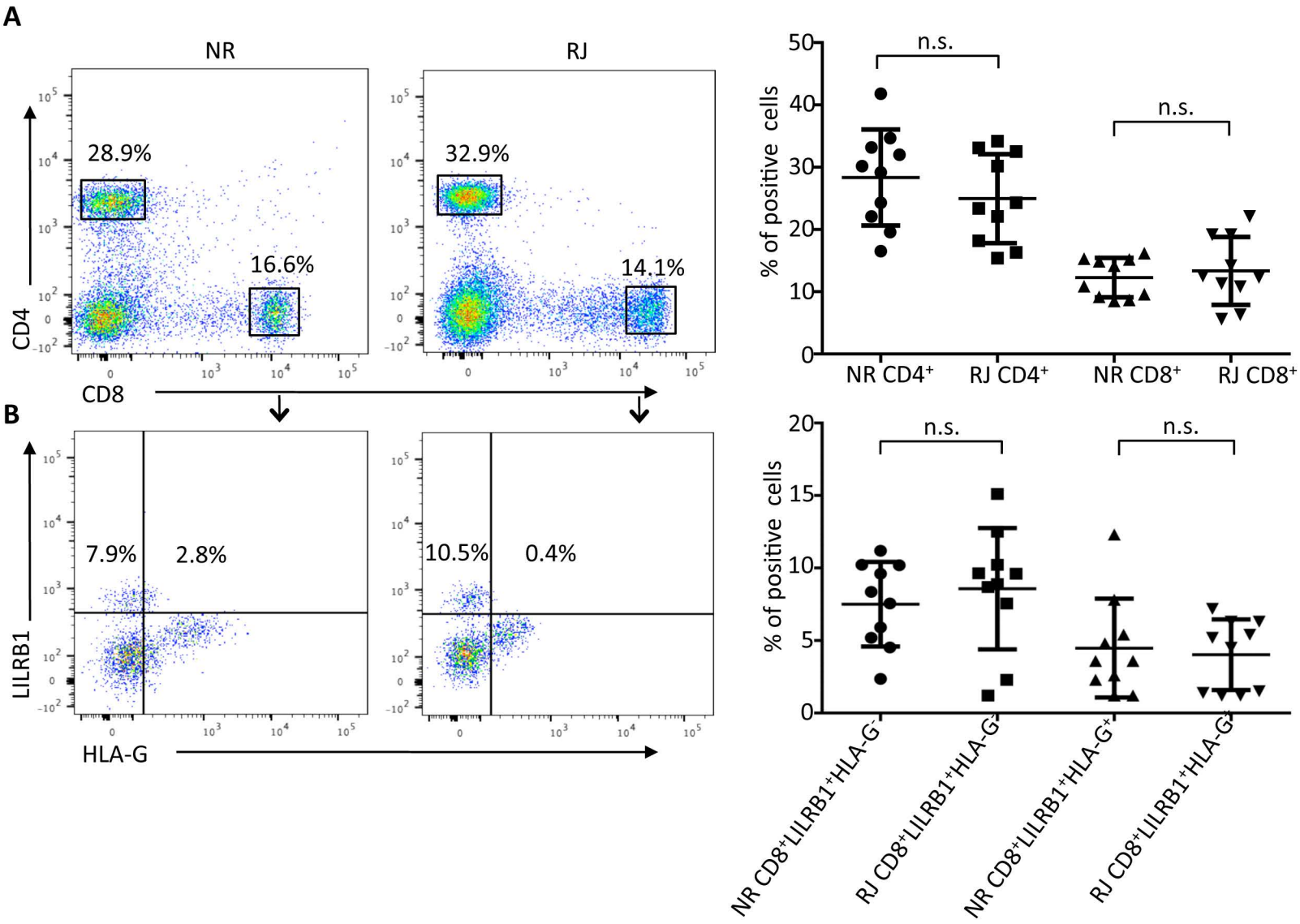
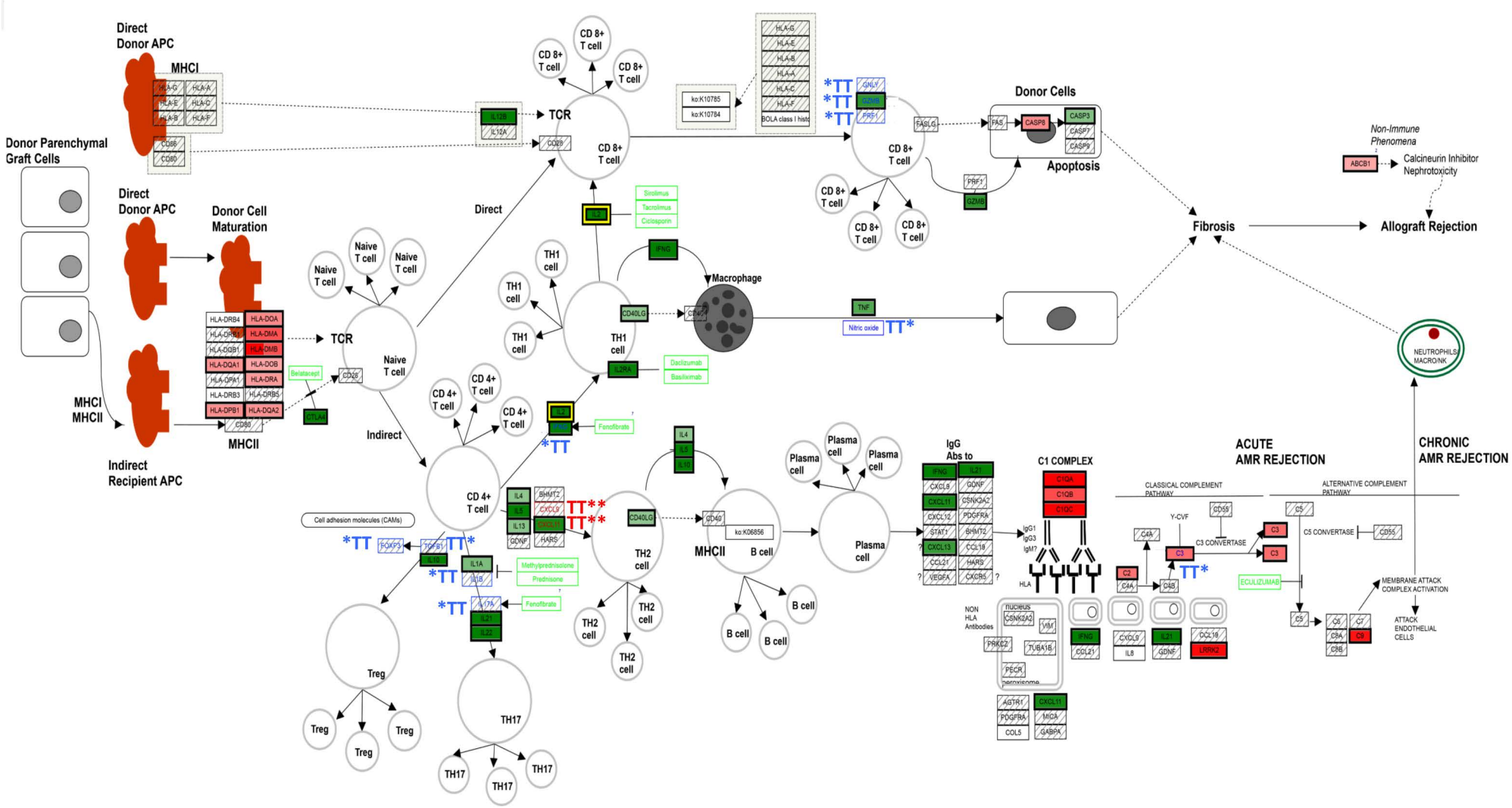
Suppl. Figure S1
Ajith et al.



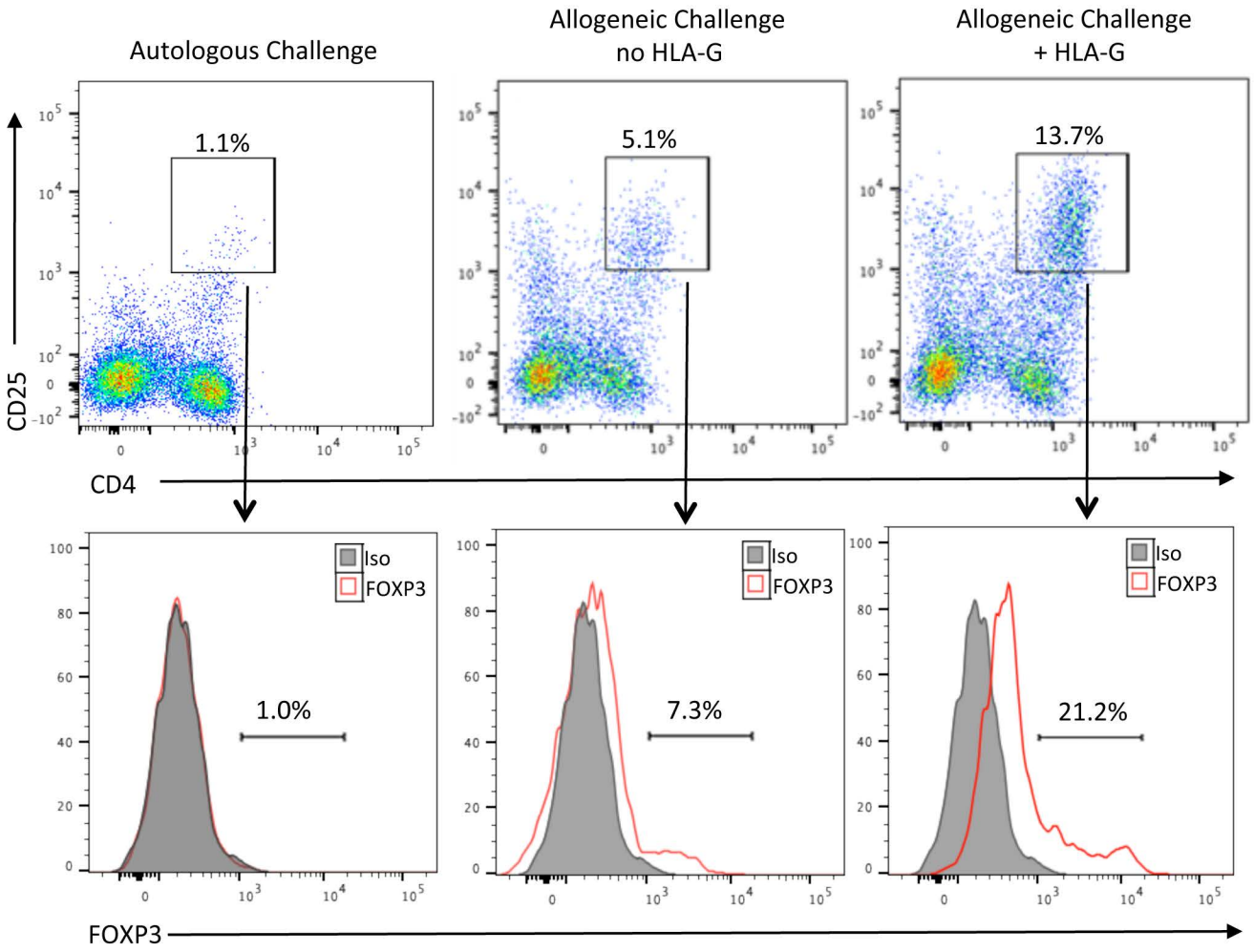
Suppl. Figure S1. HLA-G dimer expression in healthy volunteers (HV, n=7). Representative flow cytometry plots from HV, showing the gating strategy used to determine HLA-G expression on $CD14^+$ monocytes and $CD4^+$ and $CD8^+$ T cells. Histogram depicts HLA-G expression as blue line for monocytes, red line for $CD8^+$ T cells and green for the CD4. Filled histogram represents isotope control (Iso). Data shown as mean ± SD and analyzed by Student's *t* test.

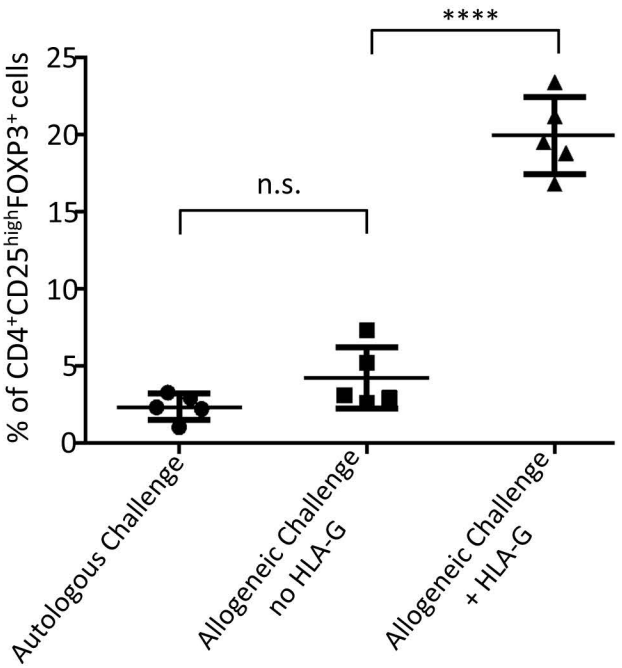


Suppl. Figure S2. Percent of $CD4^+$ and $CD8^+$ T cells and LILRB1 expression remain unchanged between NR and RJ patients. A) Representative flow cytometry plots from NR and RJ patients (n=10 per group), gated on $CD4^+$ and $CD8^+$ T cells showing minimal difference in cell numbers between the groups. B) Representative flow cytometry plot gated on $CD8^+$T cells analyzed for LILRB1 and HLA-G expression. Data shown as mean ± SD , and analyzed by Student's *t* test. n.s., not significant.

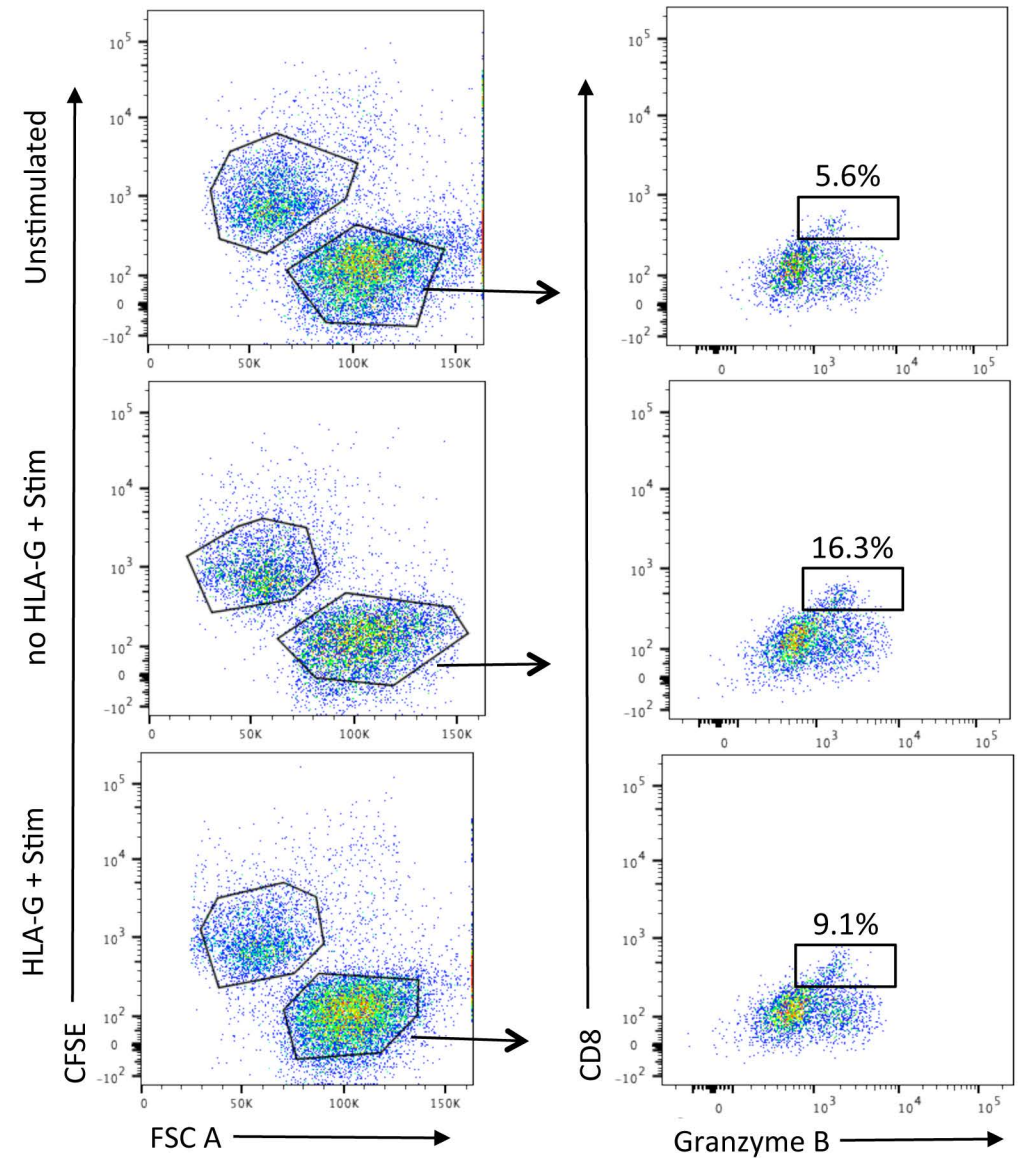


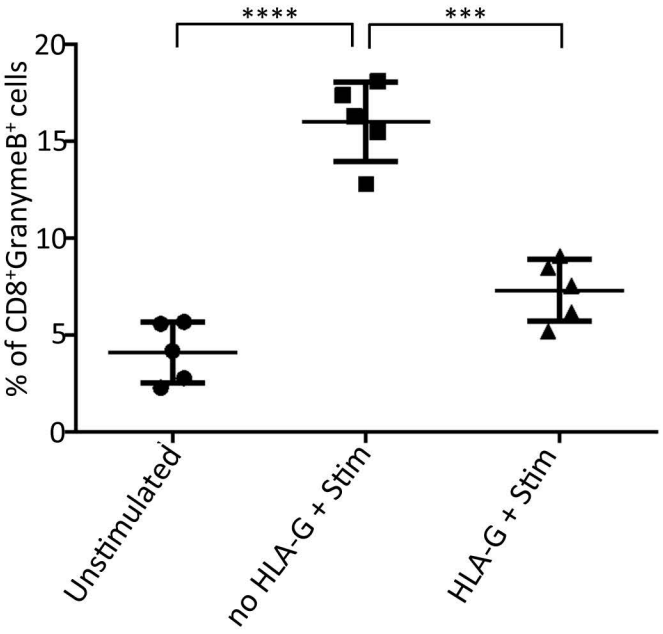
Suppl. Figure S3. Targets involved in allograft rejection signaling affected by HLA-G treatment. Using TAC 4.0, genes in the allograft rejection pathway showing differential expression due to HLA-G treatment were selected and represented as being upregulated (red) or downregulated (green) due to HLA-G treatment. *TT: Indicated therapeutic target for decreased allograft rejection (GNLY, GZMB, PRF1, TNF, IFNG, FOXP3, TGFB1, IL1B, IL17A, C3); **TT: Indicated therapeutic target to prolong allograft survival (CXCL9, CXCL11).





Suppl. Figure S4. HLA-G dimer increased the number of $CD4^{+}CD25^{high}FOXP3^{+}$ cells. Representative flow cytometry plot from indicated experimental groups, gated on $CD4^{+}$ $CD25^{high}$ cells (n=5 per group). Histogram depicts FOXP3 expression as the red line. Filled histogram represents isotype control (Iso). Data shown as mean ± SD and analyzed by Student's *t* test.****p <0.0001. *n.s.,* not significant.





Suppl. Figure S5. Inhibition of cytotoxicity of $CD8^+$ T cells by HLA-G dimer is associated with reduced Granzyme B expression**.** Flow cytometry-based killing assay with representative plot gated on effector PBMCs based on their lack of CFSE staining and analyzed for Granzyme B expression on $CD8^+$ T cells (n=5 per group). Data shown as mean ± SD and analyzed by Students *t*-test. ***p <0.001, ****p <0.0001.