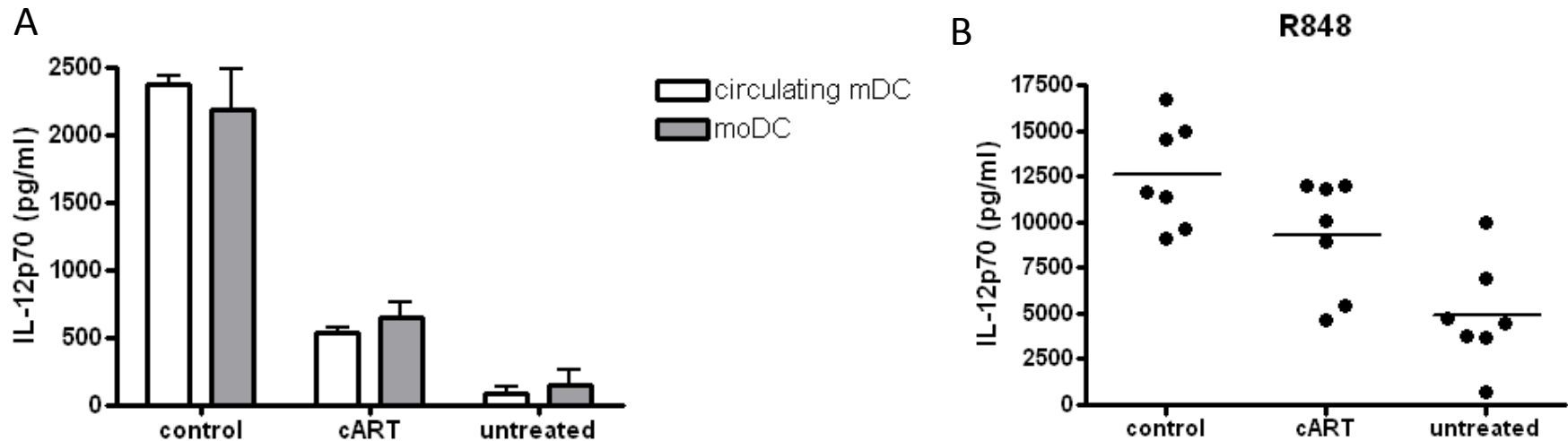


Supplementary Figure 1



Supplementary Figure 1: A) Suppression of IL-12p70 secretion by HIV plasma on circulating myeloid DC (mDC)

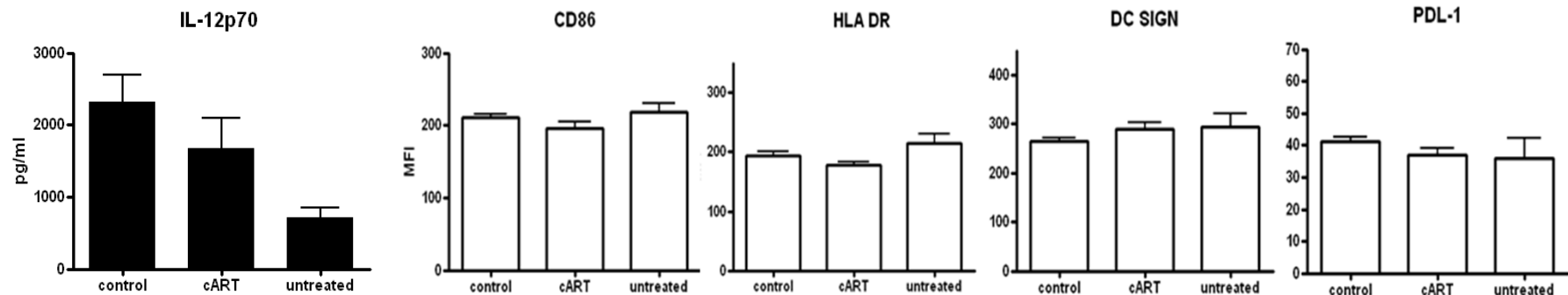
Circulating mDC from control PBMC were enriched and exposed to 10% plasma from each group (N=3 plasma donors per group) followed by Poly I:C stimulation. From the same PBMC donor, moDC were derived and subsequently exposed to the same plasma donors prior to stimulation with Poly I:C. Data displayed are representative of experiments performed on 2 separate PBMC donors

B) Suppression of IL-12p70 secretion by HIV plasma following stimulation with a TLR 7/8 agonist

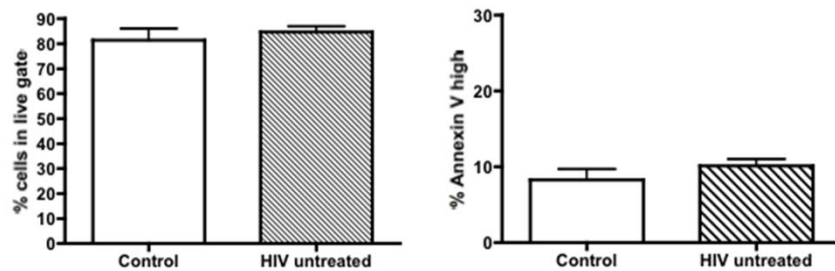
Measurement of IL-12p70 secretion by moDC from uninfected donors was performed following exposure to plasma from either control or HIV-infected subjects and subsequent stimulation with the TLR7/8 agonist, R848. The graph displays raw cytokine data from a single representative moDC donor following plasma exposure and stimulation. Each dot represents an individual plasma donor.

Supplementary Figure 2

A

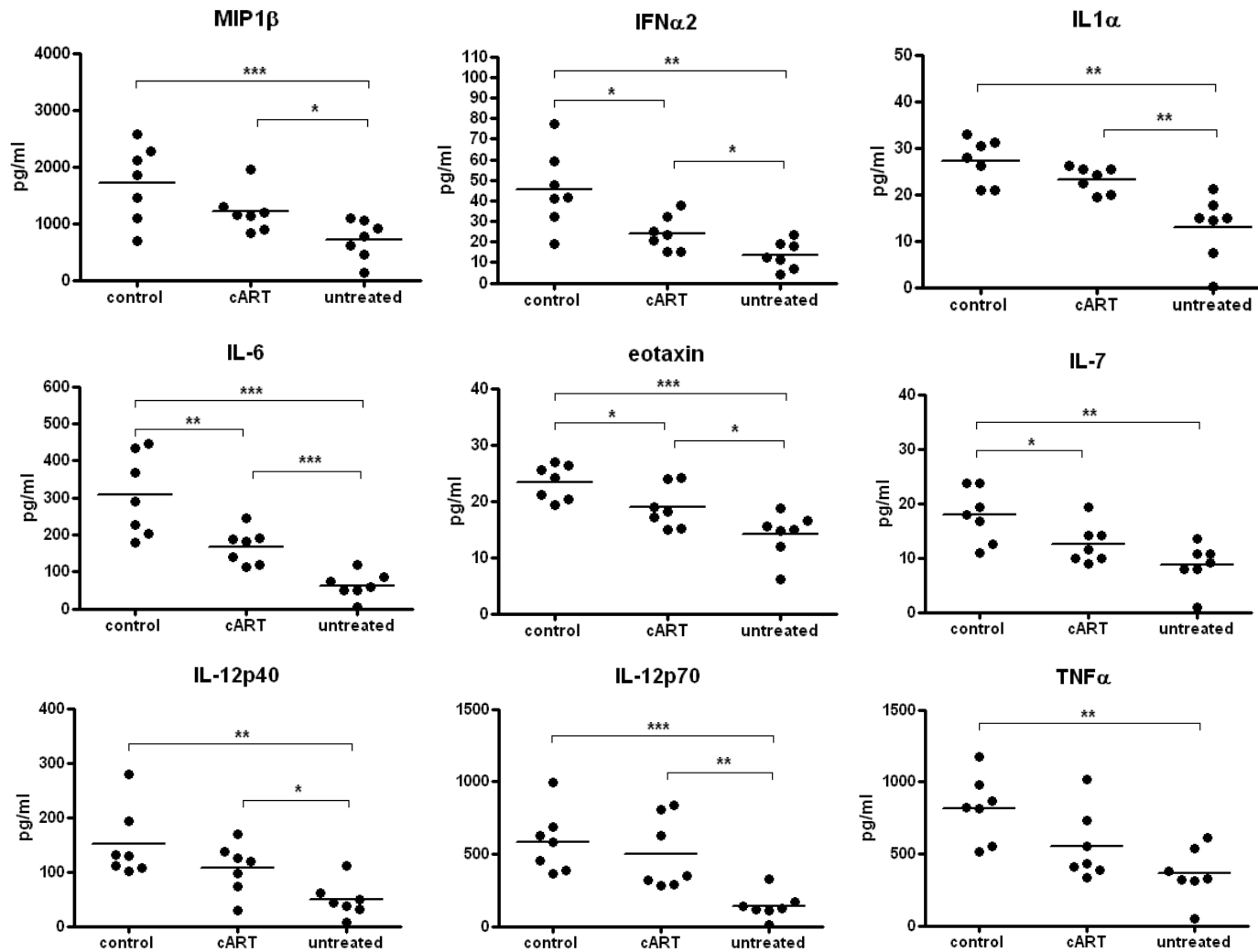


B



Supplementary Figure 2: A) Phenotype of moDC following HIV plasma exposure and stimulation MoDC were exposed to plasma from controls versus HIV-infected donors (N=5 per group) and stimulated with Poly I:C. Supernatants were assayed for IL-12p70 levels (Left) and surface expression of CD86, HLA DR, DC SIGN, and PDL-1 was measured via FACS (Right). **B) No evidence for cell-death-mediated suppression of moDC function by HIV plasma** Cell viability of moDC exposed to plasma from controls versus HIV-infected donors (N=3 per group) was measured by forward scatter/side scatter characteristics (live gate percent) via FACS (Left) and annexin V staining (Right). Data displayed are representative of experiments performed on 3 separate moDC donors.

Supplementary Figure 3



Supplementary Figure 3: Luminex analysis of moDC: naïve CD4⁺ T cell co-culture supernatant. Luminex analysis was performed on supernatants following moDC: naïve CD4 T cell co-culture (MILLIPLEX MAP Human Cytokine/Chemokine Panel I, Millipore, http://www.millipore.com/bmia/flx4/bmia_immunology#tab1=2). Significant differences are displayed above. The asterisks indicate p values: ***p<0.001, **p < .01, *p < .05.

Supplementary Figure 4: No evidence for IL-10 or LPS mediated suppression of moDC function by HIV plasma A) IL-10 secretion by plasma-exposed moDC following stimulation with Poly I:C. Each dot represents an individual plasma donor (mean of 2 replicates per donor) B) IL-10 levels in donor plasma measured via Luminex analysis. C) MoDC were exposed to plasma from untreated HIV-infected donors or to control plasma supplemented with low-level LPS(100pg/ml) during culture +/- polymyxin B (50µg/ml) and subsequently stimulated with Poly I:C. Data displayed in **A and C** are representative of experiments performed on 3 separate moDC donors. The asterisks indicate p values: **p < .01, *p < .05.

