Supporting Information

Redd et al. 10.1073/pnas.0901983106
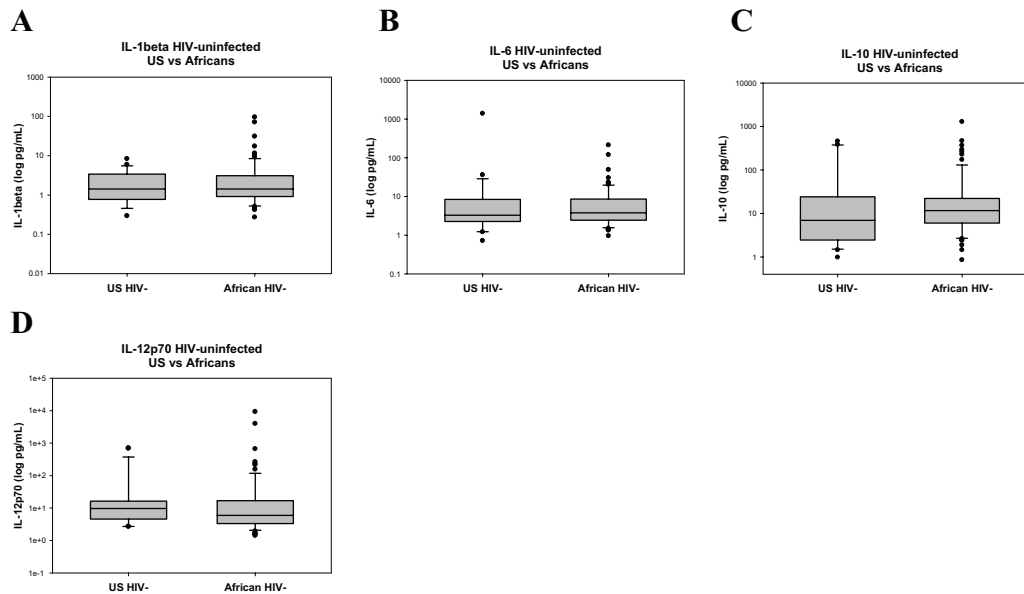

Fig. S1. Baseline circulating cytokine levels of uninfected U.S. and African subjects. Differences in baseline serum levels of IL-1β (*A*), IL-6 (*B*), IL-10 (*C*), and IL-12p70 (*D*) between HIV-negative U.S. individuals and uninfected African individuals are shown, with significance indicated where applicable (*P* < .05, Mann-Whitney rank-sum test).
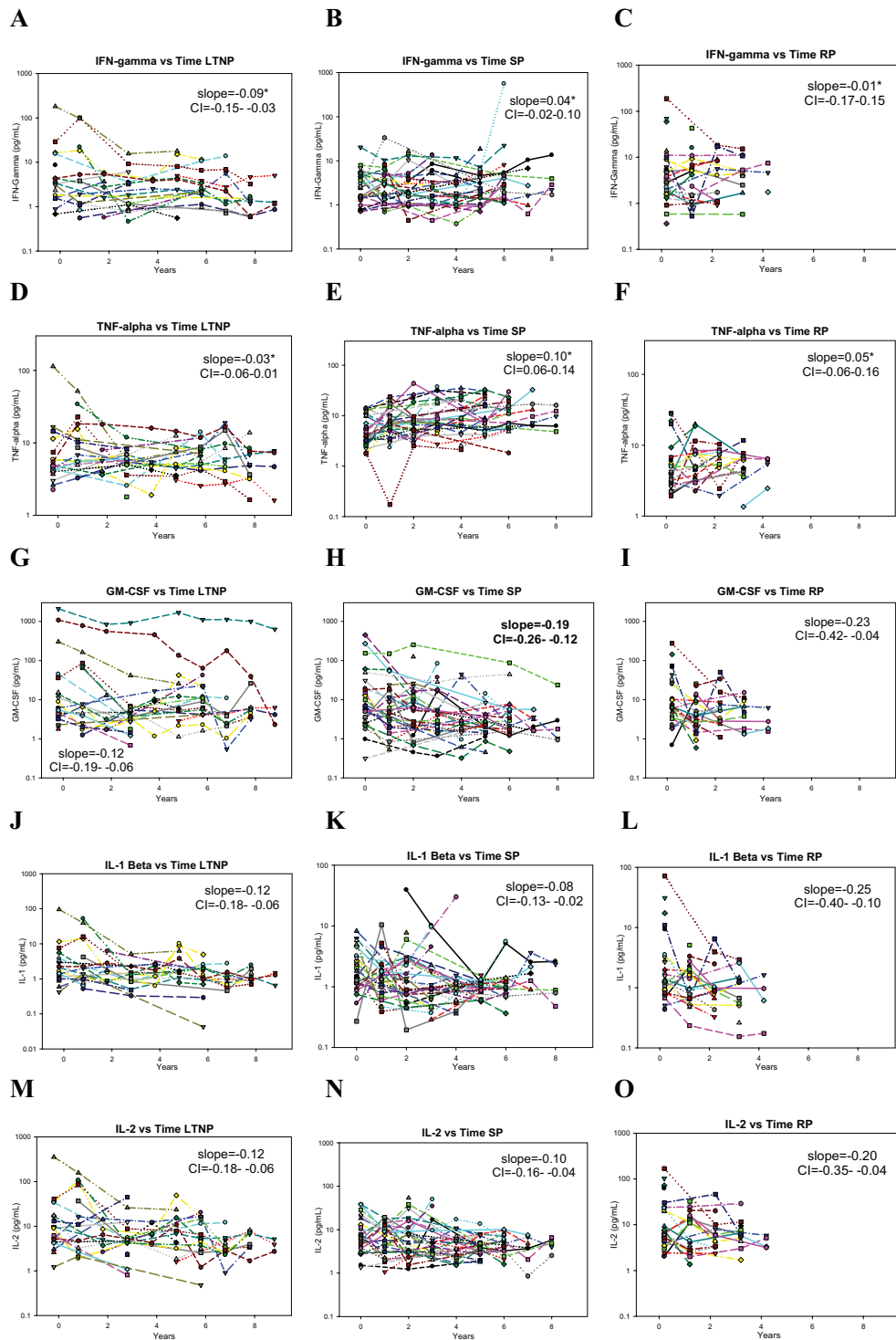
Fig. S2. African patient cytokine profiles according to progression groups. Levels of circulating cytokine levels are shown for the LTNP, SP, and RP groups for IFN-γ (*A–C*), TNF-α (*D–F*), GM-CSF (*G–I*), IL-1β (*J–L*), IL-2 (*M–O*), IL-6 (*P–R*), IL-8 (*S–U*), IL-10 (*V–Y*), and IL-12 p70 (*Z–BB*) accordingly. Linear multilevel modeling fit slopes (*r*) in the log scale of each group are shown with the 95% CI and significance noted by an asterisk (*P* < .01).
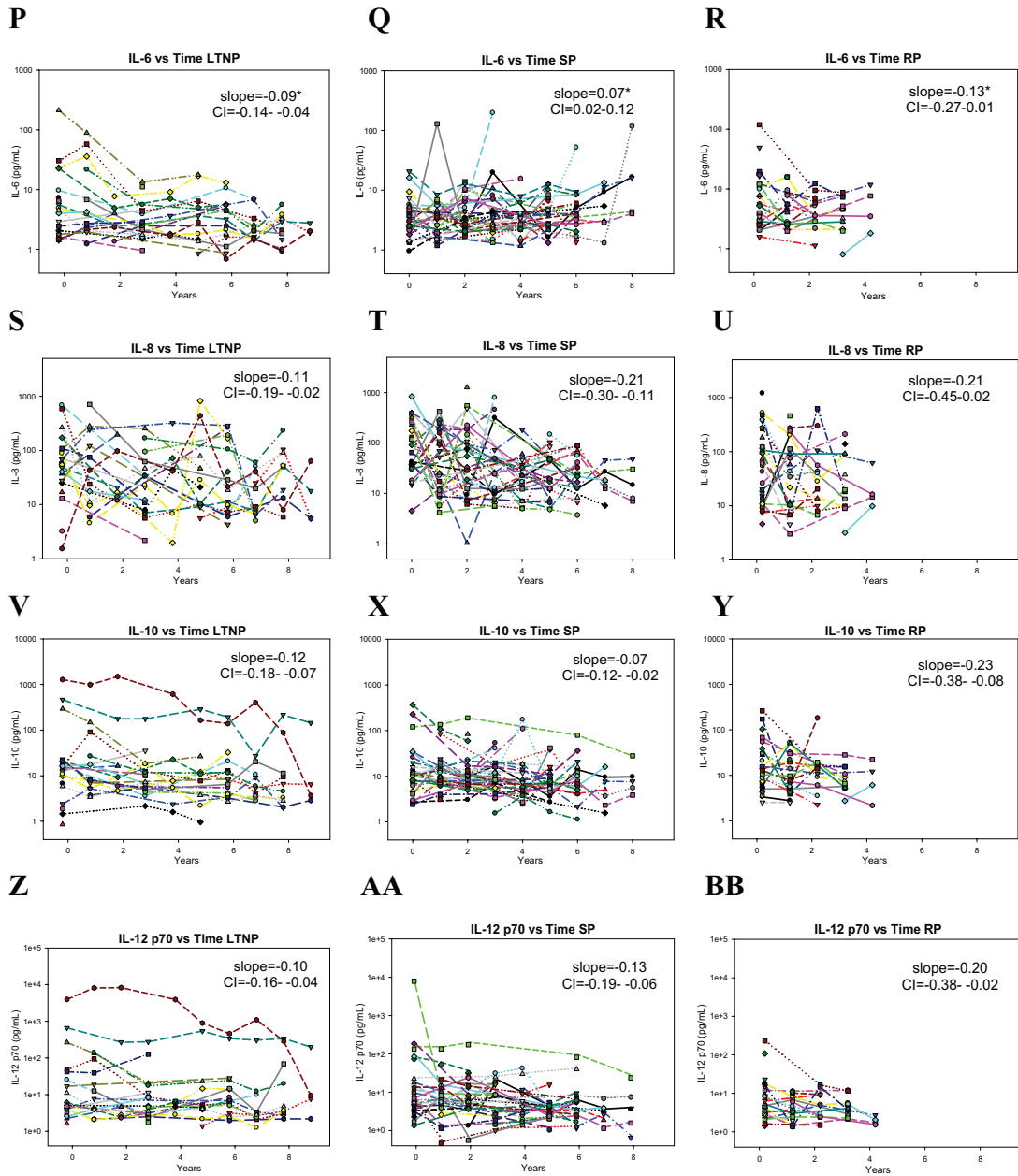
P

IL-6 vs Time LTNP

slope=-0.09*
CI=-0.14- -0.04

Q

IL-6 vs Time SP

slope=0.07*
CI=0.02-0.12

R

IL-6 vs Time RP

slope=-0.13*
CI=-0.27-0.01

S

IL-8 vs Time LTNP

slope=-0.11
CI=-0.19- -0.02

T

IL-8 vs Time SP

slope=-0.21
CI=-0.30- -0.11

U

IL-8 vs Time RP

slope=-0.21
CI=-0.45-0.02

V

IL-10 vs Time LTNP

slope=-0.12
CI=-0.18- -0.07

X

IL-10 vs Time SP

slope=-0.07
CI=-0.12- -0.02

Y

IL-10 vs Time RP

slope=-0.23
CI=-0.38- -0.08

Z

IL-12 p70 vs Time LTNP

slope=-0.10
CI=-0.16- -0.04

AA

IL-12 p70 vs Time SP

slope=-0.13
CI=-0.19- -0.06

BB

IL-12 p70 vs Time RP

slope=-0.20
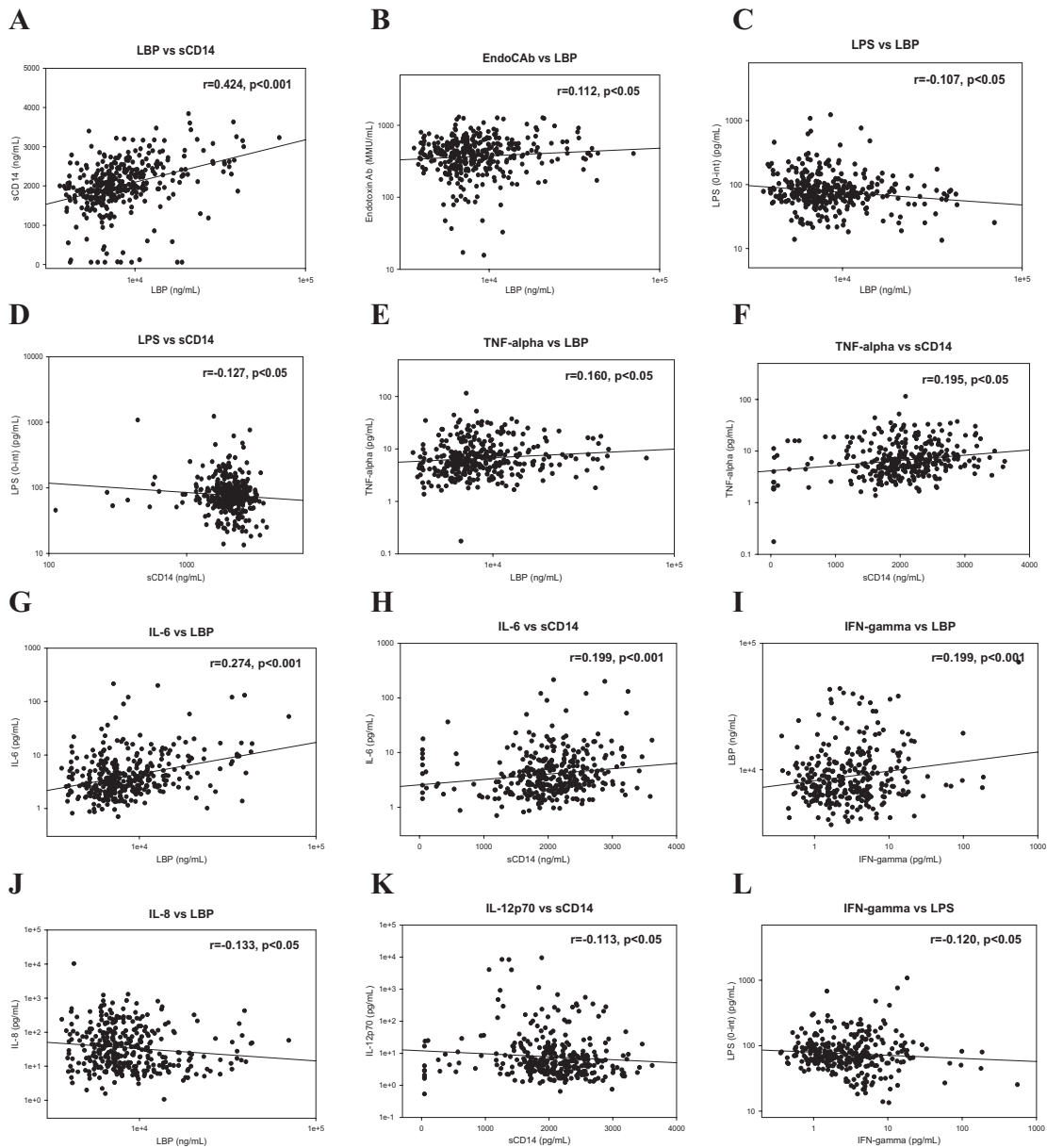CI=-0.38- -0.02

Fig. S2 (continued).

Fig. S3. Significant correlations of microbial translocation markers and inflammatory cytokine levels. Comparisons of (*A*) LBP and sCD14 levels (*r* = 0.424, *P* < .001), (*B*) sCD14 and endoCAb (*r* = 0.112, *P* < .05), (*C*) LPS and LBP (*r* = -0.103, *P* < .05), (*D*) LPS and sCD14 (*r* = -0.122, *P* < .05), (*E*) TNF-*α* and LBP (*r* = 0.16, *P* < .01), (*F*) TNF-*α* and sCD14 (*r* = 0.195, *P* < .001), (*G*) IL-6 and LBP (*r* = 0.274, *P* < .001), (*H*) IL-6 and sCD14 (*r* = 0.199, *P* < .001), (*I*) IFN-γ and LBP (*r* = 0.199, *P* < .001), (*J*) IL-8 and LBP (*r* = -0.133, *P* < .05), (*K*) IL-12p70 and sCD14 (*r* = -0.113, *P* < .05), and (*L*) IFN-γ and LPS (*r* = -0.120, *P* < .05) were calculated using Spearman's rank-order analysis.

Table S1. Correlation coefficients (*r*) for all cytokines and microbial translocation markers with corresponding *P* values and numbers of patient samples tested

	TNF-α	IL-8	IL-6	IL-2	IL-1β	IL-12 p70	IL-10	IFN-γ	GM-CSF	sCD14	LBP	EndoCAb
LPS												
r	0.0802	−0.0147	−0.044	0.0236	0.0152	0.0662	−0.0221	−0.12	0.0295	−0.127	−0.107	0.00597
P value	0.139	0.787	0.417	0.663	0.779	0.222	0.683	**0.0269**	0.587	**0.0164**	**0.043**	0.91
n	342	342	342	342	342	342	342	342	342	359	359	359
EndoCAb												
r	−0.0641	−0.0654	0.0159	0.0221	0.000597	−0.0729	−0.058	−0.0664	−0.0543	0.112	0.0883	
P value	0.237	0.227	0.77	0.684	0.991	0.178	0.284	0.22	0.317	**0.0342**	0.0938	
n	342	342	342	342	342	342	342	342	342	361	361	
LBP												
r	0.16	−0.133	0.274	0.0283	0.000394	−0.0415	0.0982	0.199	−0.0663	0.424		
P value0	**0.00311**	**0.0138**	**0.001**	0.602	0.994	0.444	0.0697	**0.001**	0.221	**0.001**		
n	342	342	342	342	342	342	342	342	342	361		
sCD14												
r	0.195	−0.0355	0.199	−0.037	−0.03	−0.113	0.0847	0.0633	−0.0286			
P value0	**0.001**	0.512	**0.001**	0.495	0.58	**0.036**	0.118	0.243	0.598			
n	342	342	342	342	342	342	342	342	342			
GM-CSF												
r	−0.0838	0.498	0.293	0.628	0.538	0.68	0.468	0.298				
P value	0.121	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**				
n	344	344	344	344	344	344	344	344				
IFN-γ												
r	−0.0266	0.278	0.592	0.541	0.45	0.273	0.388					
P value	0.622	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**					
n	344	344	344	344	344	344	344					
IL-10												
r	0.169	0.14	0.283	0.309	0.237	0.476						
P value	**0.00165**	**0.00913**	**0.001**	**0.001**	**0.001**	**0.001**						
n	344	344	344	344	344	344						
IL-12 p70												
r	0.247	0.416	0.194	0.493	0.436							
P value	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**							
n	344	344	344	344	344							
IL-1β												
r	0.0662	0.544	0.575	0.725								
P value	0.221	**0.001**	**0.001**	**0.001**								
n	344	344	344	344								
IL-2												
r	−0.0324	0.592	0.588									
P value	0.549	**0.001**	**0.001**									
n	344	344	344									
IL-6												
r	0.167	0.348										
P value	**0.00197**	**0.001**										
n	344	344										
IL-8												
r	0.133											
P value	**0.0135**											
n	344											

Significant associations are shown in bold (*P* < 0.05, Spearman's rank-order correlation).