Figure S1. Cytokine induction patterns of *Propionibacterium acnes* **phylotypes in multiple donors.** 2.5×10^6 /mL peripheral blood mononuclear cells were cultured with 2.5×10^6 /mL live *P. acnes* in the (A-C) exponential phase or (D-E) stationary phase for (A, D) IFN- γ , (B, E) IL-17, and (C, F) IL-10. ELISA was conducted on the supernatant to determine the concentration of IFN- γ , IL-17, and IL-10. The cytokine concentrations normalized to the highest value induced by any *P. acnes* strain for each donor and cytokine. Each donor is represented by a different symbol. RT - Ribotype. p± - presence or absence of a large plasmid.

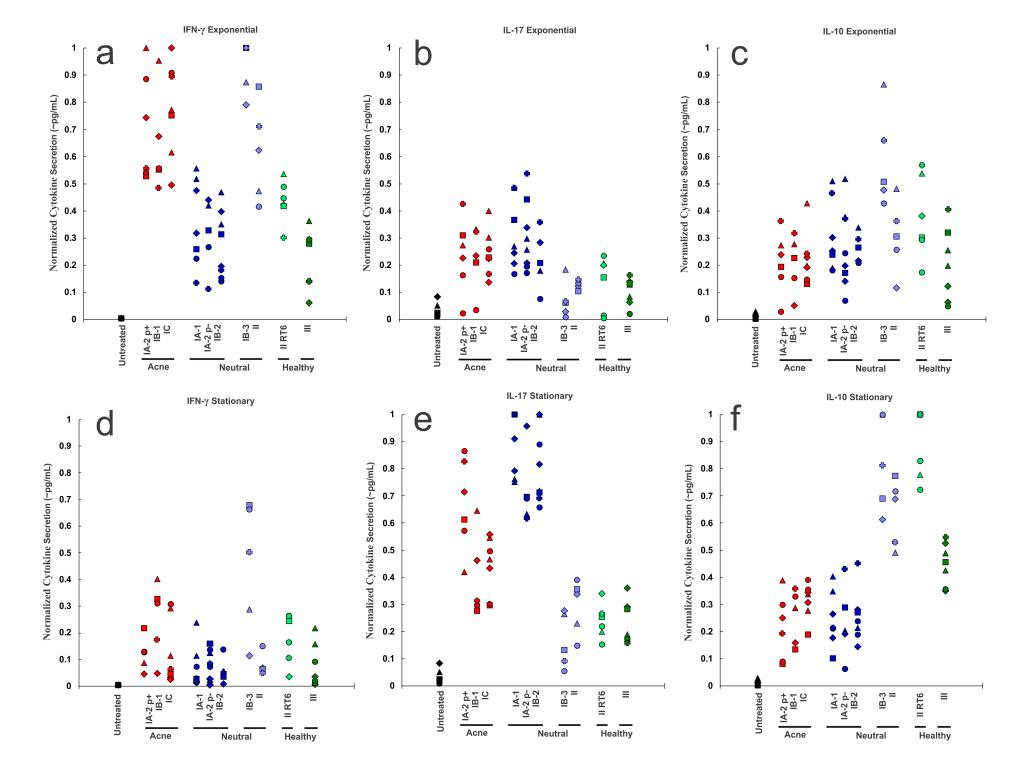


Table S1. Strains of *Propionibacterium acnes* used in this study

Table 51. Strains of Propionibacterium aches used in this study						
Strain	Phylotype	Ribotype	MLST ₄			
HL005PA2,	IA-1	1	IA_1 (CC1)			
HL036PA1,		Neutral	Acne			
HL063PA1						
SK137	IA-2	1	IA ₁ (CC3)			
ATCC 6919	(p-)	Neutral	Acne			
HL005PA1,	IA-2	4,5	IA ₁ (CC3)			
HL043PA1,	(p+)	Acne	Acne			
HL096PA1						
HL110PA1,	IB-1	8	IA ₁ (CC4)			
HL053PA2		Acne	Acne			
HL013PA1,	IB-2	3	IA_2			
HL067PA1,		Neutral	Eye Infection			
HL059PA1,						
HL059PA2						
HL030PA1,	IB-3	1	IB			
KPA171202		Neutral	Medical Device and Tissue Infections			
PRP38,	IC	5	IC			
5-1-3,		Acne	Acne			
5-1-5						
HL001PA1,	II	2	II			
HL060PA1		Neutral	Medical Device and Blood Infections			
HL042PA3,	II	6	II (ST7)			
HL110PA3,		Healthy Skin	Medical Device and Blood Infections			
HL110PA4		_				
ASN12,	III	N/A	III			
12S,			Healthy Skin and Spinal Disc Infection			
2-4						

Phylotype and ribotype are from Fitz-Gibbon *et al.*, 2013 and Tomida *et al.*, 2013. Ribotype shows only the major ribotype(s) of the phylotype and only skin disease association. p+ and p- designate the possession of a large plasmid or lack thereof for phylotype IA-2 strains. Multi-Locus Sequence Typing (MLST₄) phylotypes are from McDowell *et al.*, 2014, in which disease association is for the entire phylotype (CC Clonal Complex and ST Sequence Type are displayed for reference). ATCC 6919, 5-1-3, 5-1-5, ASN12, 12S, and 2-4 strain classifications are based on MLST. Others are based on whole-genome sequencing.

Table S2. Maximum Cytokine Levels in PBMC Experiments

Donor	IFN-γ	IL-17	IL-10
1	2225	6612	5167
2	10740	3342	1713
3	7855	3609	4920
4	7926	2019	8938
5	2629	3551	10073

Table shows the maximum cytokine concentration induced by any *P. acnes* strain in pg/mL.