Supplemental Figures

"Systemic isotretinoin therapy normalizes exaggerated TLR-2-mediated innate immune responses in acne patients"

Dispenza et al.

Figure S1: Mean (\pm SEM) lesion counts of acne patients on isotretinoin therapy: Inflammatory and non-inflammatory lesions were counted on the face (excluding the nose) of acne patients prior to (n = 25) and during isotretinoin therapy (1 week, n = 19; 4 weeks, n = 19; 8 weeks, n = 17; 20 weeks, n = 10) using standard visual counting techniques. The mean (\pm SEM)

weeks, n = 17; 20 weeks, n = 10) using standard visual counting techniques. The mean (\pm SEM number of inflammatory lesions at baseline was 41 \pm 6.3, and the mean (\pm SEM) number of noninflammatory lesions was 68 \pm 17. *P < 0.05, **P < 0.01, and ***P < 0.001 compared with patients' baseline counts.

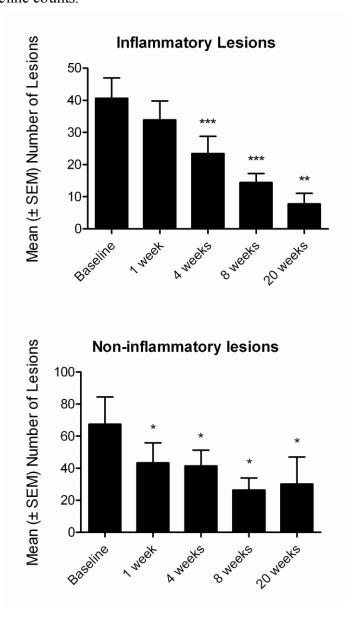


Figure S2: Serum levels of retinoids in acne patients and normal volunteers: Levels of the three retinoic acid isomers in the serum of normal volunteers (n = 19) and acne patients at baseline (n = 25), 1 week (n = 19), 4 weeks (n = 19), 8 weeks (n = 17), and 20 weeks (n = 10) of isotretinoin therapy were analyzed by HPLC/ mass spectrometry. Mean concentrations \pm SEM are displayed. *P < 0.05, **P < 0.01, and ***P < 0.001 compared with patients' baseline.

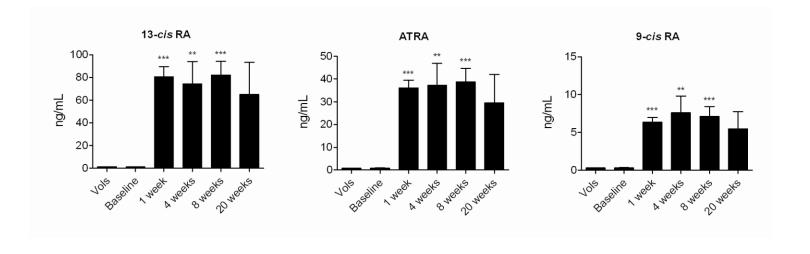


Figure S3: Isotretinoin does not affect peripheral Treg proportions: a) Lymphocytes from normal volunteers (Vols) (n = 11) and from patients at baseline (n = 14), 1 week (n = 13), 4 weeks (n = 10), 8 weeks (n = 10), and 20 weeks (n = 5) of isotretinoin therapy were treated for 5 days with *P. acnes* sonicate or anti-CD3/CD28 antibodies as above, whereupon they were stained with fluorescently-conjugated antibodies to T cell subset specific markers. Plots of CD25 versus Foxp3 expression among CD4+ cells are displayed for one representative patient. **b)** Mean percentages \pm SEM of CD4+ T cells expressing CD25 and Foxp3 are shown for volunteers and acne patients during isotretinoin therapy.

