Role of subnetworks mediated by TNF$_\alpha$, IL-23/IL-17 and IL-15 in a network involved in the pathogenesis of psoriasis

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ABSTRACT
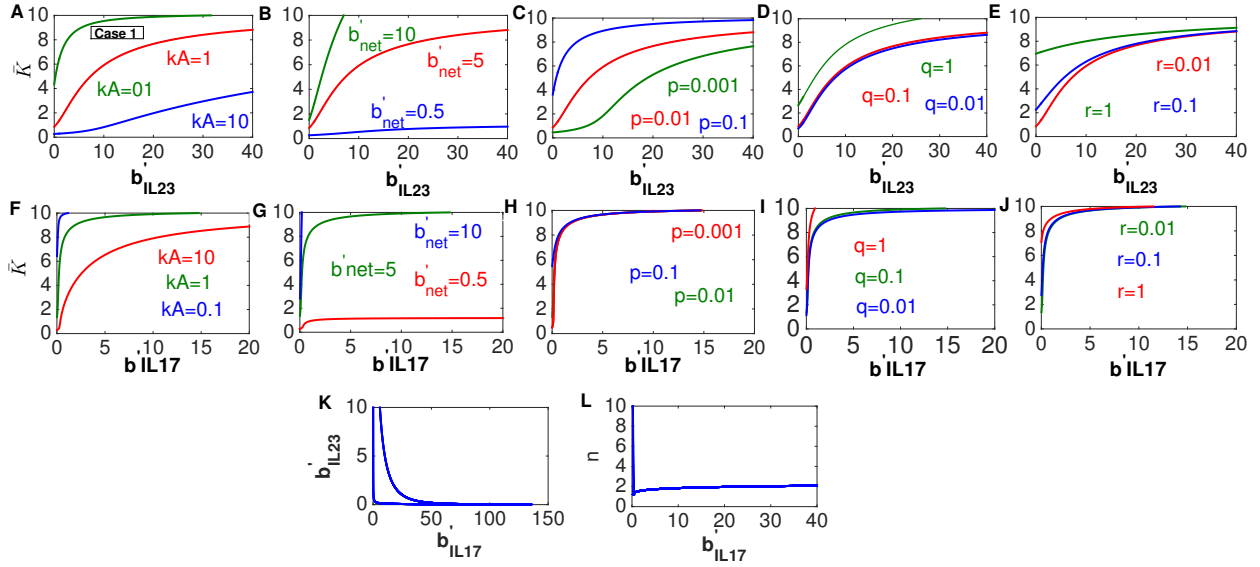
1 Figure S1

2 Figure S2

3 Figure S3

Figure S1. Signal response curves for the subnetwork formed by IL-23 and IL-17 for Case 1. Effects of changes in model parameters on the population of keratinocytes are displayed. Here, the combined level of IL-23 and IL-17 is represented by b_{net}. The default parameters are: $b'_{IL23} = 1$, $b'_{IL17} = 0.01$, $b_{net} = 5$, $p = 0.01\ day^{-1}$, $q = 0.1\ day^{-1}$, r=0.01, n=1, $\mu_L = 0.5\ day^{-1}$, $\mu_K = 0.5\ day^{-1}$, $\mu_D = 0.2\ day^{-1}$, and $k_A = 1$. The initial condition is $\bar{L} = \bar{D} = 2$ and $\bar{K} = 4$
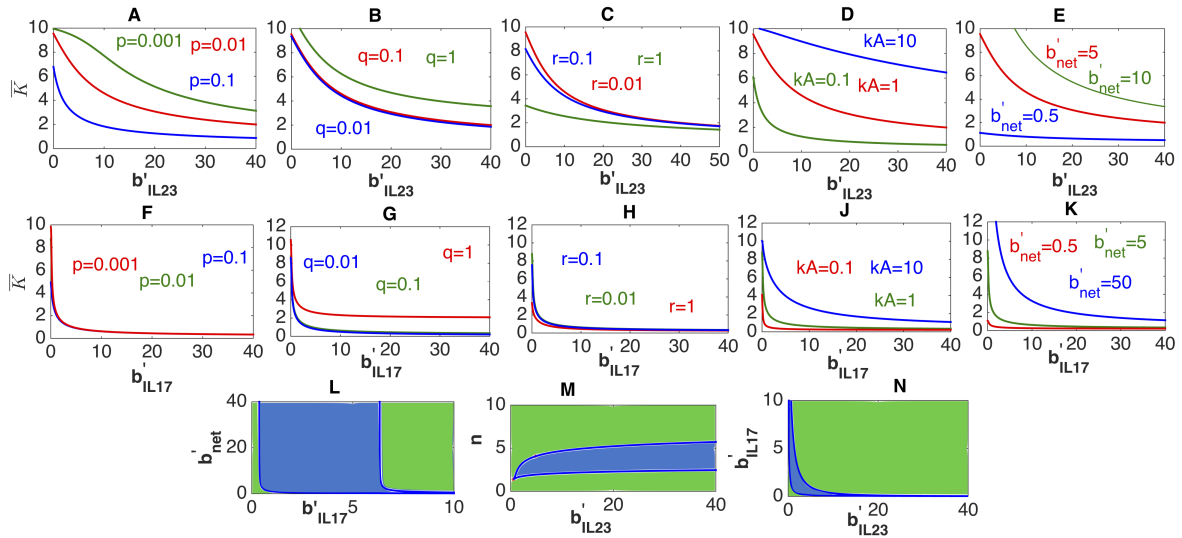.

Figure S2. Signal response curves for the subnetwork formed by IL-23 and IL-17 for Case 2. Parameters are same as in Figure S1.
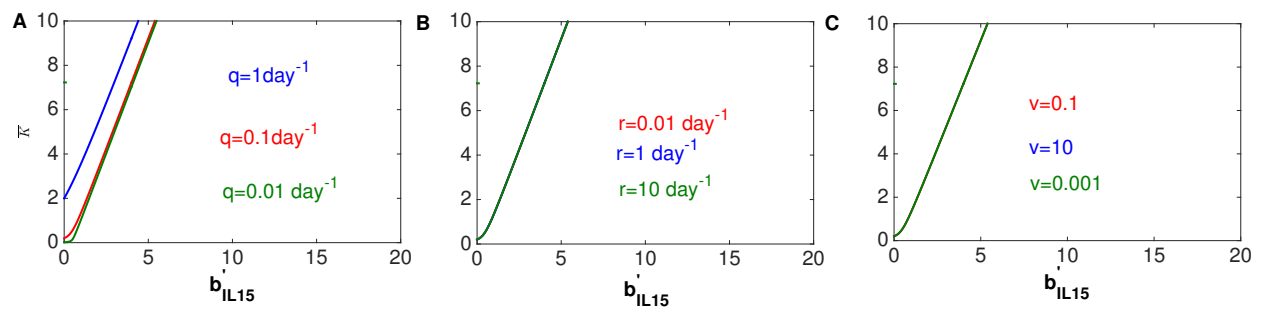
Figure S3. Signal response curves for the subnetwork formed by IL-15. The model parameters used here are same as in Figure 5.