

Supplementary Materials for

Synthetic gene circuits for preventing disruption of the circadian clock due to interleukin-1-induced inflammation

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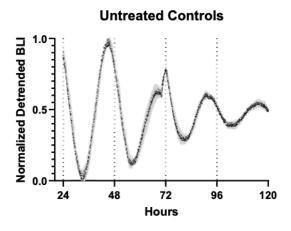
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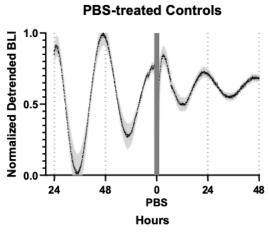
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Figs. S1 and S2

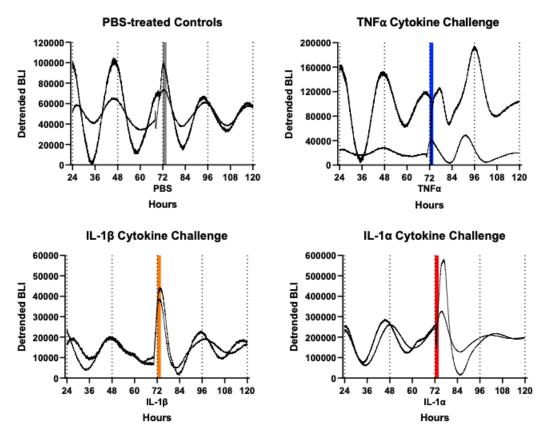
Supplemental Figure 1.





Supplemental Figure 1. PBS-treated control pellets exhibit a daily decrease in amplitude nearly identical to unperturbed pellets over 120h of recording.

Supplemental Figure 2.



Supplemental Figure 2. Per2 expression recorded from two representative cultures of chondrocyte pellets for 3 days before and after treatment. Pellets treated with IL-1 α , but not vehicle, TNF α , or IL-1 β , showed dramatic loss of circadian gene expression. We present the average traces normalized to the maximum bioluminescence of each culture in Figures 3 and 4 and report amplitude and period from measurements of the raw traces.