Supplementary Material

Photoactivated adenylyl cyclases attenuate sepsis-induced cardiomyopathy by suppressing macrophage-mediated inflammation

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**Supplementary Material**

**Supplementary Figure 1. The anti-inflammatory and pro-fibrotic cytokines production in bPAC-transfected macrophages and heart.**

**A.** $2 \times 10^6$ RAW264.7 cells were cultured in 6-well plate overnight and transfected with $0.3 \mu g$ bPAC plasmid. 36 hours later, the cells were treated with 100 ng/ml LPS and cultured in dark or under light exposure for 6 hours, and the RNA was extracted using TRIZOL reagent for RT-qPCR analysis. **B and C.** C57BL/6j mice were implanted with GelMA-Macrophage-LED, injected intraperitoneally with 5 mg/kg LPS and conditioned in wireless power generator for 24 hours. 24 hours later, mice were sacrificed and heart RNA was extracted for RT-qPCR analysis (**B**); and 20 mg heart sample was lysed with 200 µl PBS to measure the IL-10 with ELISA assay (**C**). Data are shown as mean ± SEM of at least three independent experiments or samples from 4 mice. *$p<0.05$.**