

SUPPLEMENTAL FIGURES

Platelet Glycoprotein Ib α Cytoplasmic Tail Exacerbates Thrombosis During Bacterial Sepsis

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Supplemental Figures and Figure Legends

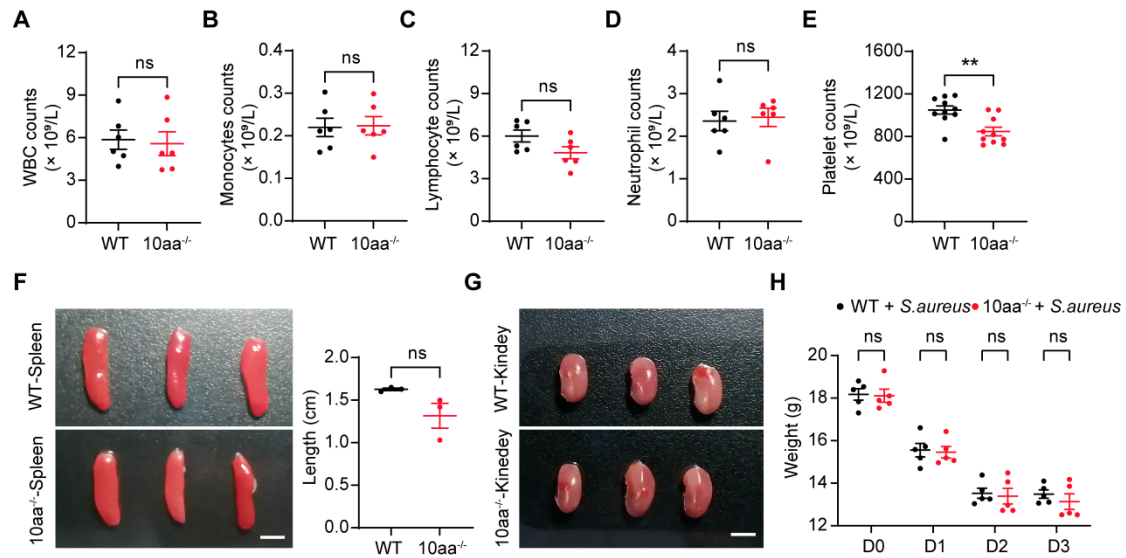


Figure S1. Peripheral blood cell counts and organ damage of 10aa^{-/-} mice.

(A-E) WBC, Monocytes, Lymphocytes, Neutrophils and Platelet counts in WT and 10aa^{-/-} mice (n = 6 mice). (F and G) WT and 10aa^{-/-} mice were killed, and the spleen (F) and kidney (G) were taken photos after *S.aureus* injection at 24 hours (n = 3 mice), Scale bar: 0.5 cm. (H) The weight of WT and 10aa^{-/-} mice infected *S.aureus* (n = 5 independent experiments). Two-tailed Student's t test in (A-F) and Two-way ANOVA followed by Bonferroni's post hoc test in (H).

Data are shown as mean $\pm$ SEM. ***P* < 0.01. ns, no significance.

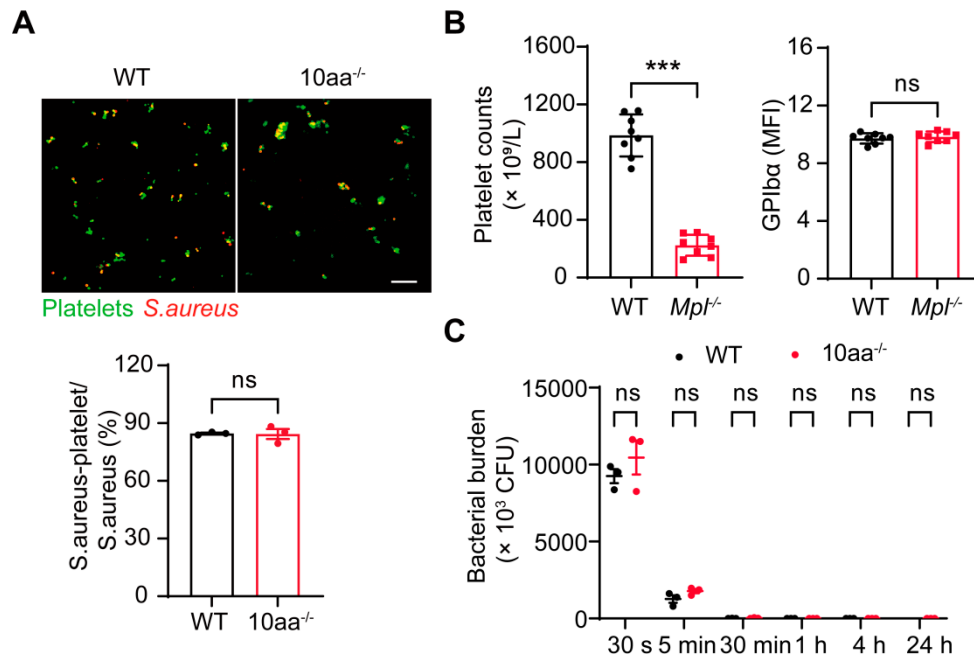
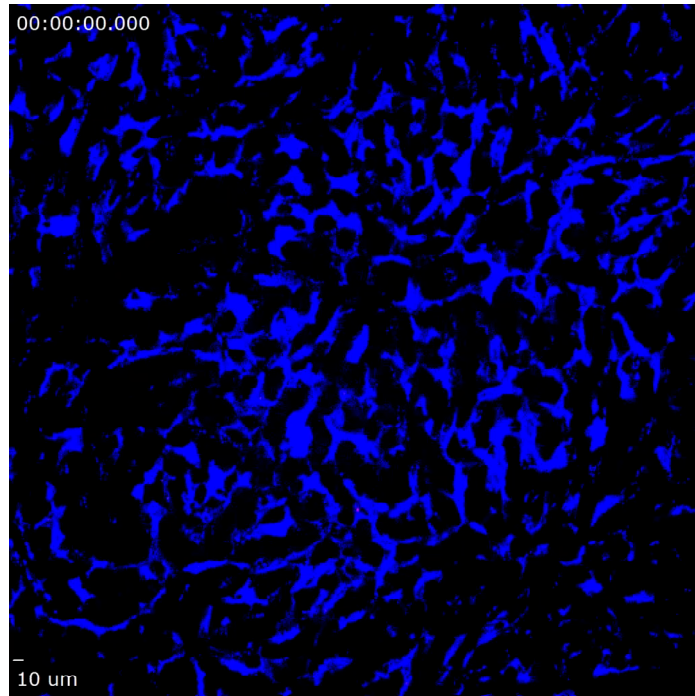


Figure S2. The effects of GPIIb/IIIa cytoplasmic tail on platelet-bacteria interaction and bacteria clearance. (A) Representative confocal images and quantification of the interaction of PH-Red-labeled-*S.aureus* with WT and 10aa^{-/-} platelets (n = 3 mice per genotype). Scale bar: 10 μ m. (B) Platelet counts and GPIIb/IIIa expression in *Mpl*^{-/-} mice (n = 8 mice per genotype). (C) Bacterial burden in blood at different time points (30 s、5 min、30 min、1 h、4 h、24 h) (n = 3 mice per group). Two-tailed Student's t test in (A and B). Differences between two groups were assessed using two-way ANOVA test (C). Data are shown as mean $\pm$ SEM. ****P* < 0.001. ns, no significance.

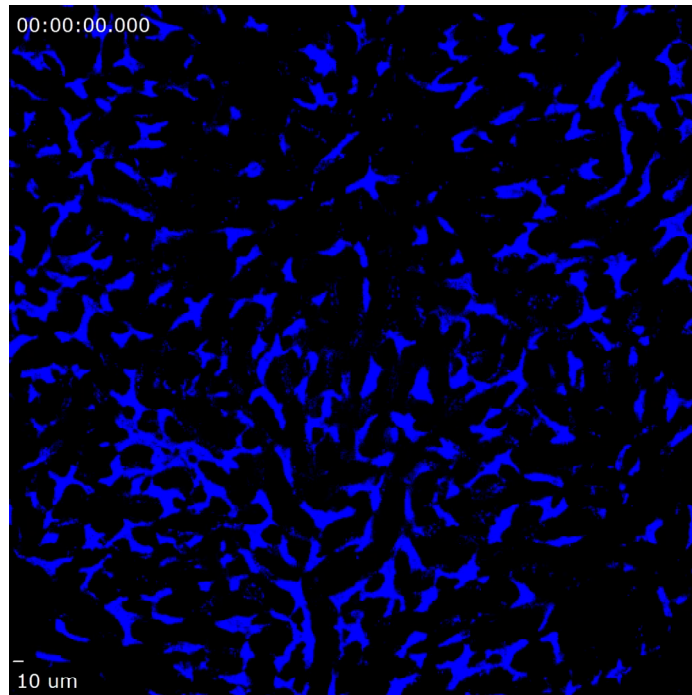
Video legends

Video S1. Effect of DMSO on *S.aureus*-induced platelets clearance in the liver of *Mpl*^{-/-} mice. Liver intravital microscopy in *Mpl*^{-/-} mouse i.v injection of *S.aureus*-incubated with washed WT platelets, pretreated with DMSO (150 μ L

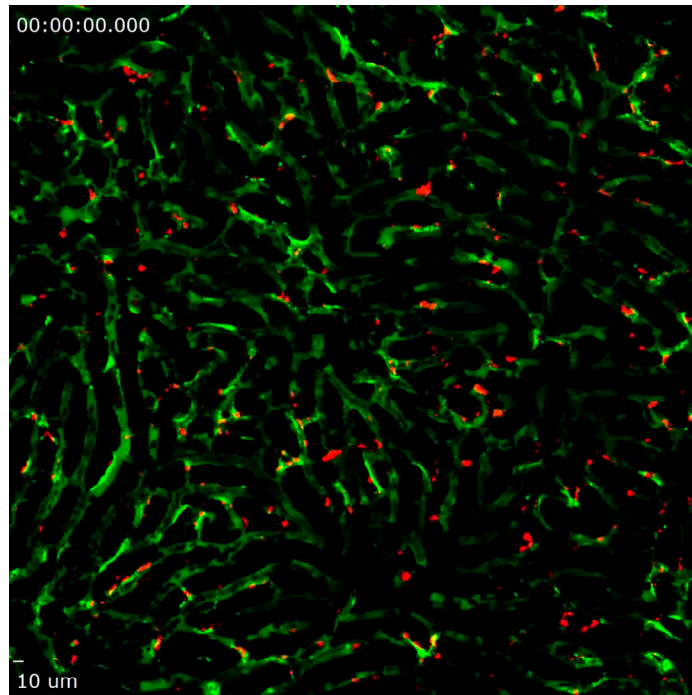
mixture/mouse i.v.). Platelets labeled with calcein-AM (Green); *S.aureus* labeled with PH-Red (Red); Kupffer cell labeled with F4/80 (Blue).



Video S2. Effect of GO6983 on *S.aureus*-induced platelets clearance in the liver of *Mpl*^{-/-} mice. Liver intravital microscopy in *Mpl*^{-/-} mice i.v injection of *S.aureus*-incubated with washed WT platelets, pretreated with GO6983 (150 μ L mixture/mouse i.v.). Platelets labeled with calcein-AM (Green); *S.aureus* labeled with PH-Red (Red); Kupffer cell labeled with F4/80 (Blue).



Video S3. Effect of DMSO-treated platelets on *S.aureus*-induced platelets aggregates in the microvasculature of the liver in *Mpl*^{-/-} mice. Visualization of *Mpl*^{-/-} mice infected with *S.aureus* transfusing of WT washed platelets at 24 hours. Platelets labeled with DyLight649-conjugated- anti-GP1bβ (Red); Blood flow labeled with FITC-dextran 2000 (Green).



Video S4. Effect of GO6983-treated platelets on *S.aureus*-induced platelet aggregates in the microvasculature of the liver in *Mpl*^{-/-} mice. Visualization of *Mpl*^{-/-} mice infected with *S.aureus* transfusing of WT washed platelets, pretreated with GO6983. Platelets labeled with DyLight649-conjugated-anti-GP1bβ (Red); Blood flow labeled with FITC-dextran 2000 (Green).

