Supplementary Figure 1. Assessment of autofluorescence in non-transgenic animals and infections. (A-E) Imaging of autofluorescence within non-transgenic animals. In non-transgenic animals, modest autofluorescence is observed within some blood vessels. Stack from spinning disc confocal is (surface= 1 µm) 335 µm deep (A, E) Max projection, (B-D, F-H) Individual Z planes from stack. (I-P) No fluorescent bacilli are observed in PACT-cleared infected mouse lungs. Stack from spinning disc confocal spans the entire lung lobe, 662 µm deep (I, M) Max projection, (J-L, N-P) Individual Z planes from stack. Scale bars are 100 µm. Single Z frames were exported and gamma adjusted in FIJI/ImageJ for increased visibility, with all gamma adjustments applied uniformly across all images.
Supplementary Figure 2. Whole animal clearing clears internal organs. (A,B,C) Intestine dissected from PACT-cleared whole Tg(Flk1:eGFP) animal is clear (A) and blood vessels can be imaged with an epifluorescent non-confocal microscope (B,C). (B) shows a 680 µm max projection, while (C) shows a single plane at a depth of 511 µm. (D) Brain dissected from PACT-cleared whole Tg(Flk1:eGFP) animal. (E,F,G) Single planes from indicated regions of the brain boxed in (D). (H,I,J) Depth-coded maximum projection images of brain vasculature. Scale bars are 100 µm. Single Z frames were exported and gamma adjusted in FIJI/ImageJ for increased visibility, with all gamma adjustments applied uniformly across images from either top or bottom stack.
**Movie S1.** Vasculature post whole-body CLARITY from Confocal. Blood vessels labeled by *Tg(Flk1:eGFP)* are imaged from the scales to 335 µm deep within the adult body. Steps are 1 µm.
Movie S2. Vasculature post whole-body CLARITY from 2-Photon. Blood vessels labeled by Tg(Flk1:eGFP) are imaged from the scales to >1 mm deep within the adult body. Steps are 2 μm.
**Movie S3.** Vasculature post whole-body PACT from Spinning Disc Confocal. Blood vessels labeled by *Tg(Flk1:eGFP)* are imaged from the scales to ~980 µm deep within the adult body. Steps are 10 µm.