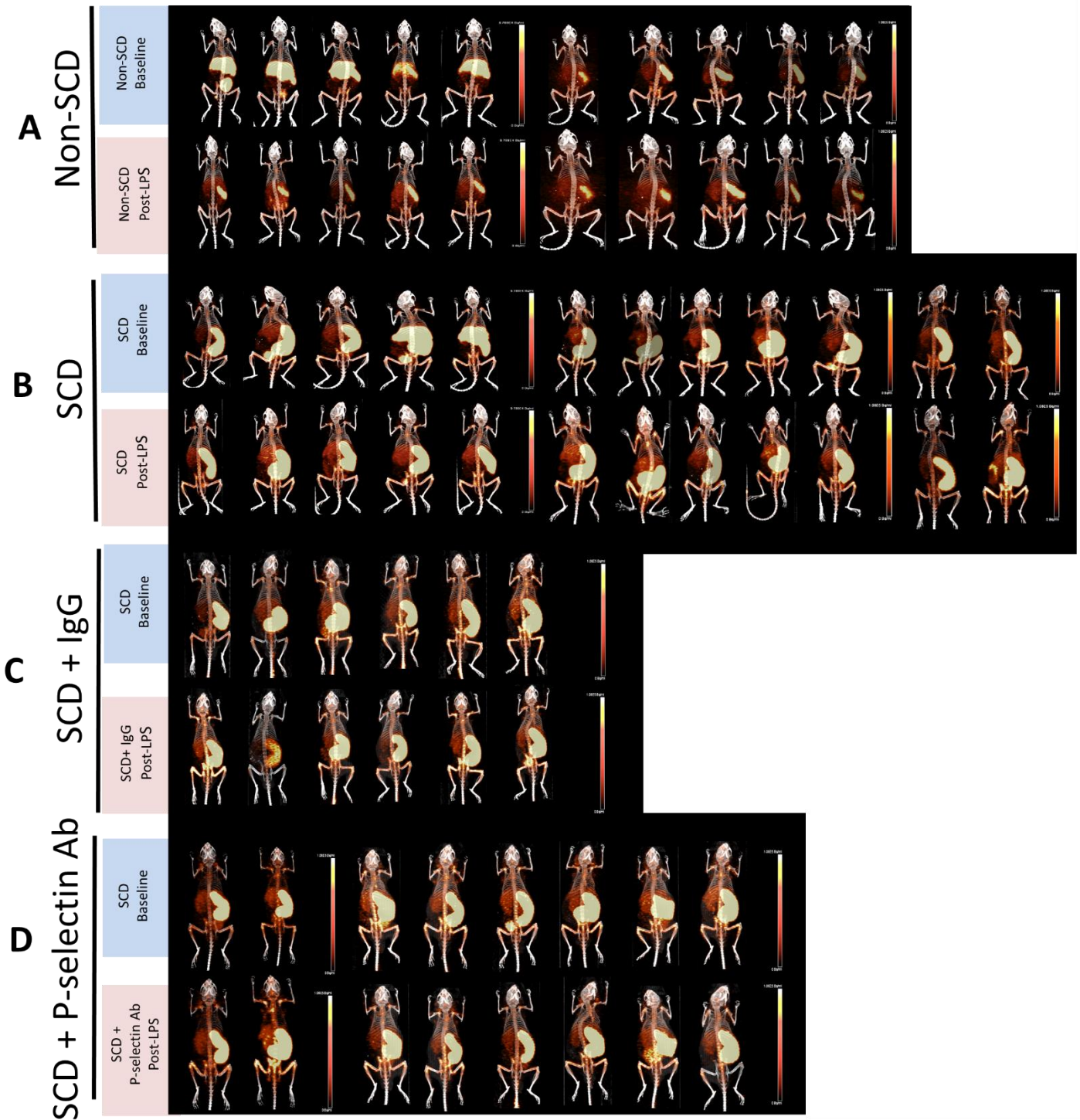


SUPPLEMENTAL DATA



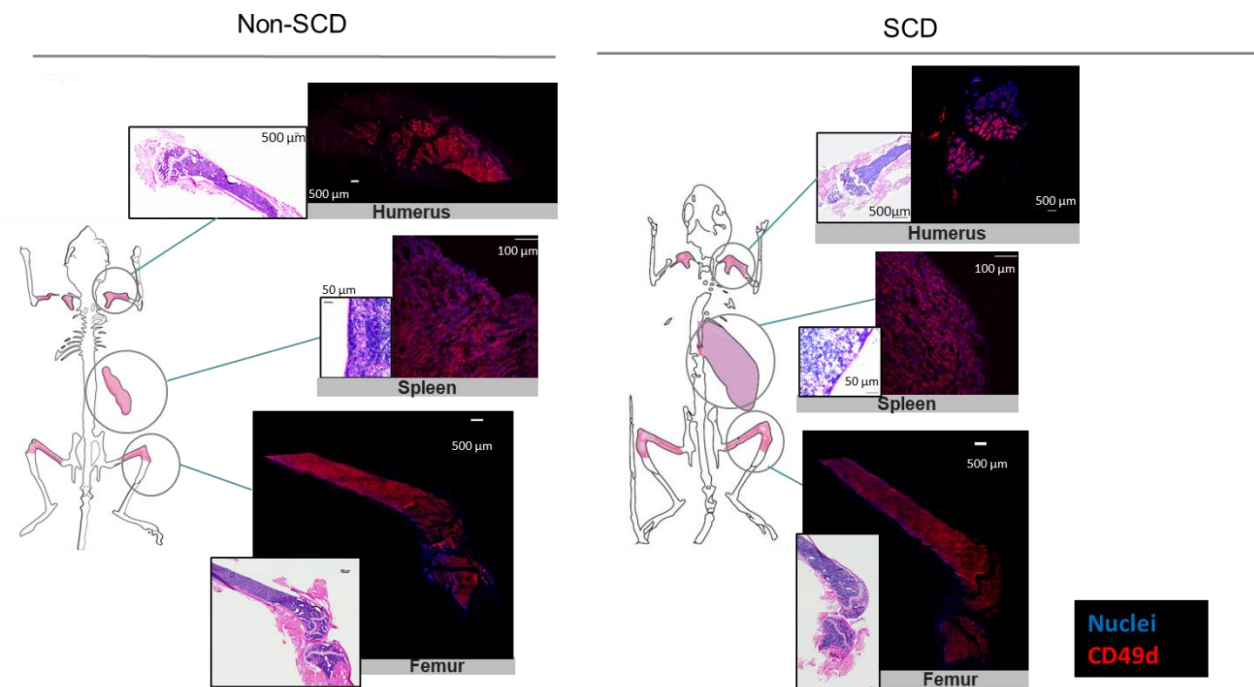
Supplemental Figure 1. PET/CT images of mice 24 h after injection of ^{64}Cu -CB-TE1A1P-PEG₄-LLP2A. Baseline images were acquired one week before LPS challenge. After one week,

mice were injected i.v. with LPS and ^{64}Cu -LLP2A. **A)** Non-SCD mice **B)** SCD mice **C)** SCD mice were co-injected with IgG isotype control with LPS stimulation. **D)** SCD mice were co-injected with anti-P-selectin mAb with LPS stimulation.

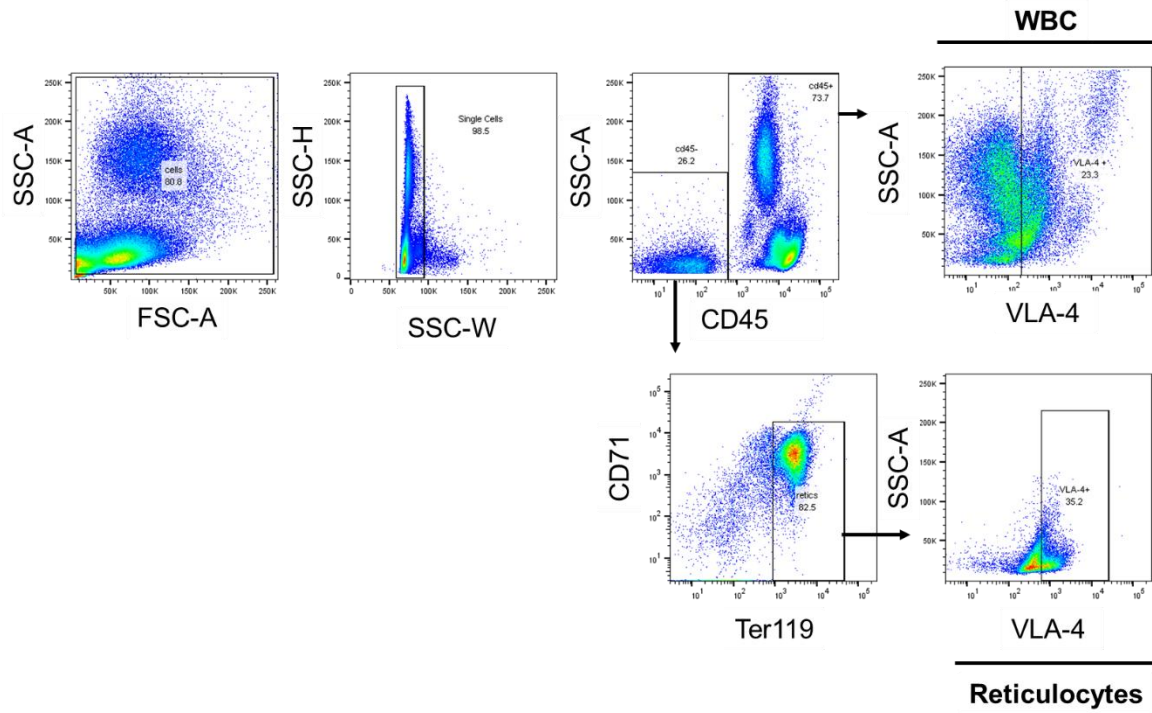
Supplemental Table 1. Peripheral blood counts at baseline and post-LPS

Mouse	Co-LPS Treatment	Mice (#)	HGB (g/dL)		HCT (%)		Platelets (10e9/L)		WBC (10e9/L)		Neutrophils (10e9/L)	
			Baseline	Post-LPS	Baseline	Post-LPS	Baseline	Post-LPS	Baseline	Post-LPS	Baseline	Post-LPS
Non-SCD	N/A	10*	9.0 ± 3.6	12 ± 1.9	29 ± 11	36 ± 5.8	510 ± 340	740 ± 290	8.8 ± 2.4	3.0 ± 1.9	2.1 ± 1.0	1.7 ± 1.2
SCD	N/A	12*	7.3 ± 2.7	9.5 ± 1.9	21 ± 6.8	26 ± 5.4	340 ± 180	470 ± 150	29 ± 16	38 ± 17	4.0 ± 3.2	11 ± 3.8
SCD	IgG Control	6	7.3 ± 3.0	9.6 ± 1.7	22 ± 9.0	27 ± 4.5	400 ± 160	560 ± 135	37 ± 15	28 ± 17	5.0 ± 3.7	8.0 ± 4.1
SCD	P-selectin Ab	8	8.7 ± 2.4	10 ± 1.3	26 ± 6.9	28 ± 3.7	690 ± 230	640 ± 109	33 ± 15	38 ± 15	7.2 ± 3.4	14 ± 5.6

Data presented as mean ± SD. *One mouse had low sample volume for blood count.



Supplemental Figure 2. Histology and immunofluorescence images of the humeri, femurs, and spleen post-LPS in SCD and non-SCD mice. CD49d signal is represented in red and DAPI-labeled nuclei are blue. Fluorescent bones were imaged by SIM Zeiss Axio Observer.Z1-inverted microscope with Apotome (Oslo, Norway) with a 10x 0.3 N.A. EC Plan-Neofluar objective, and spleens were imaged with a Nikon confocal with 20x air objective. H&E slides were imaged with a TissueGnostics microscope system (Vienna, Austria) with a 10x air objective.



Supplemental Figure 3. Flow cytometry gating strategy for reticulocytes and WBC.