

Supplementary Figures

Short-term fasting enhances the protection against *Listeria monocytogenes* infection through changes of intestinal CD103⁺ dendritic cells

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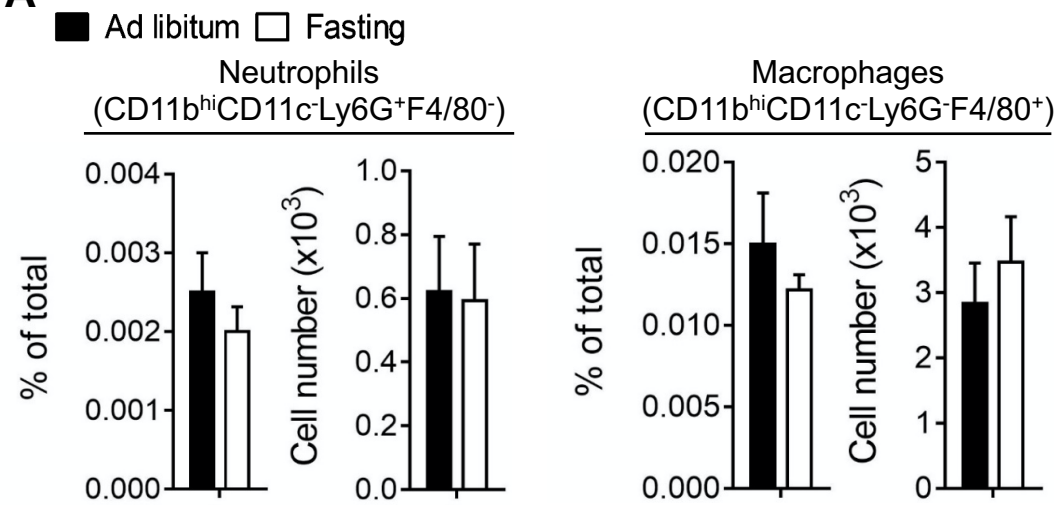
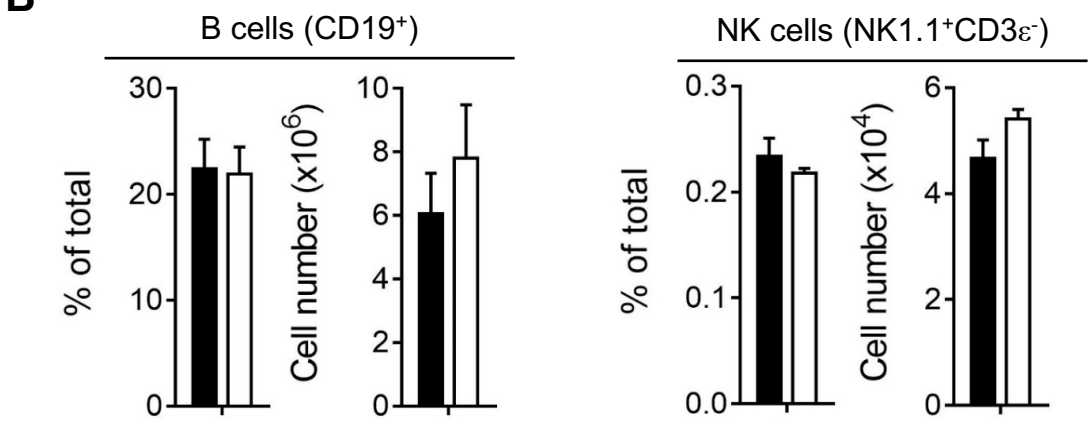
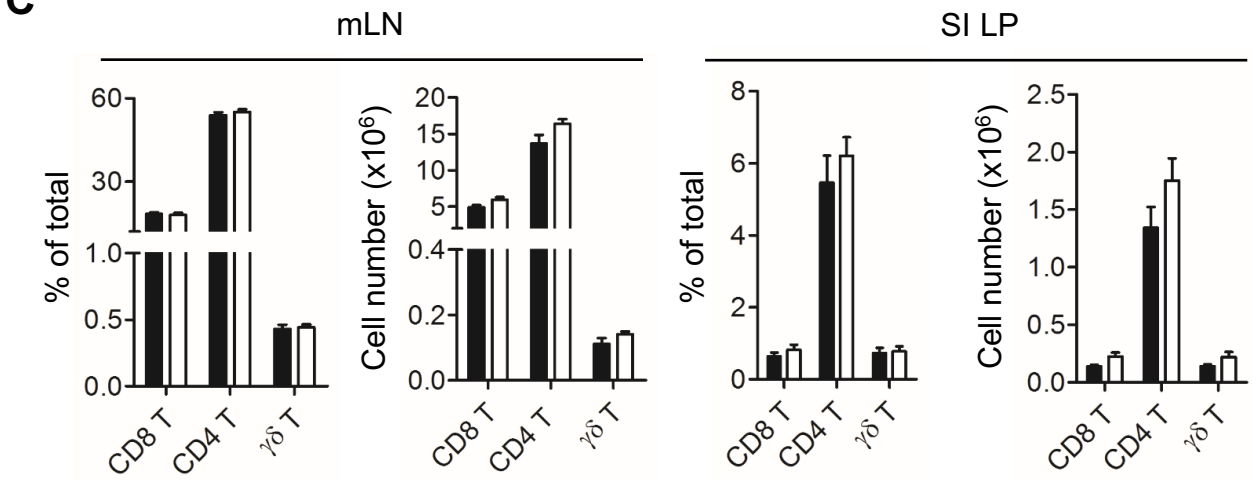
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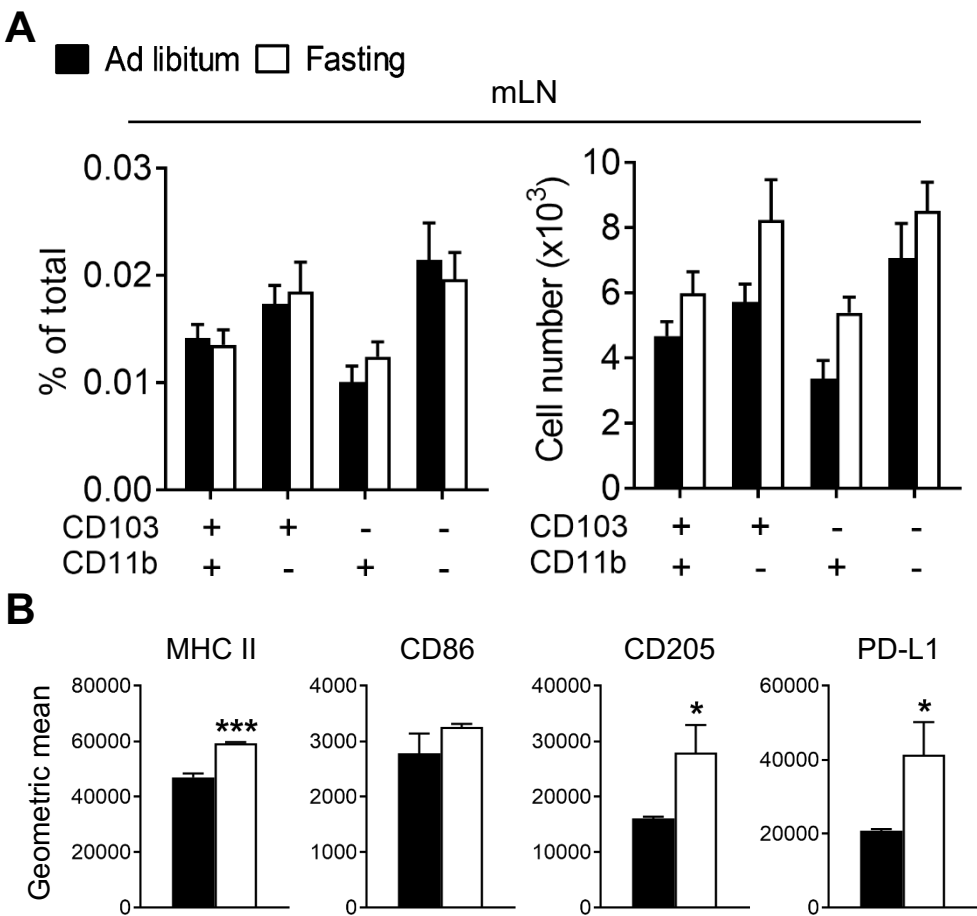
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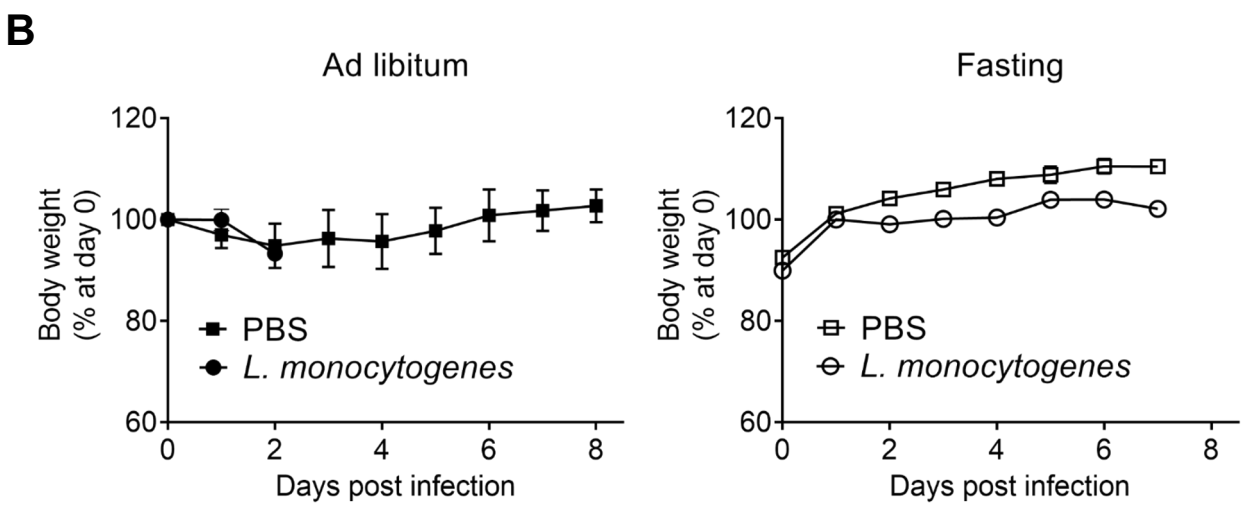
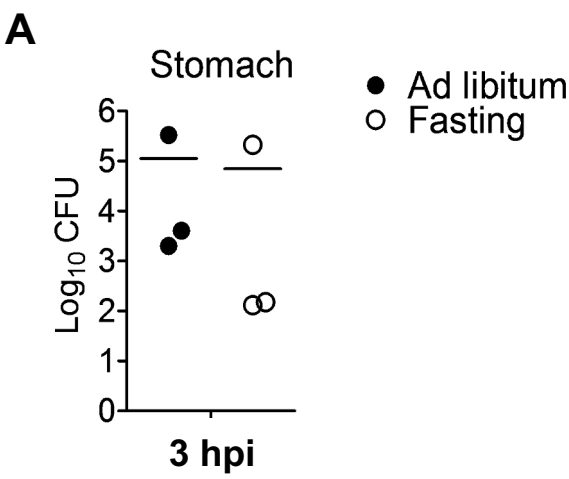
[#]These authors have contributed equally to this work

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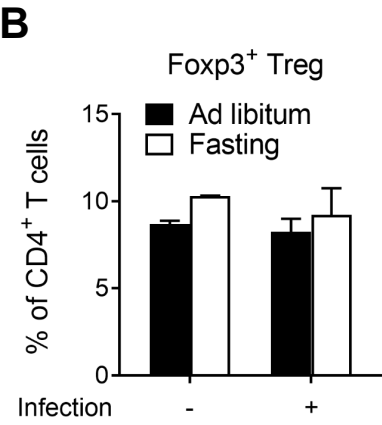
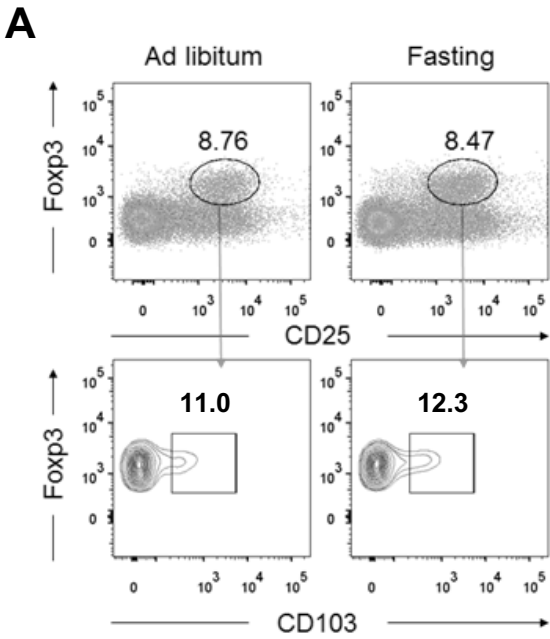
Supplementary Figure 1. Changes on the composition of CD45⁺ cells in mLN and SI LP from mice with short-term fasting. Mice were fasted for 24 h. Changes of neutrophils and macrophages (A), B cell and NK cells (B), and T cells (C) were examined. Statistical significance by unpaired Student's t-test. The representative results from 2-3 independent experiments, n=3-6 mice.



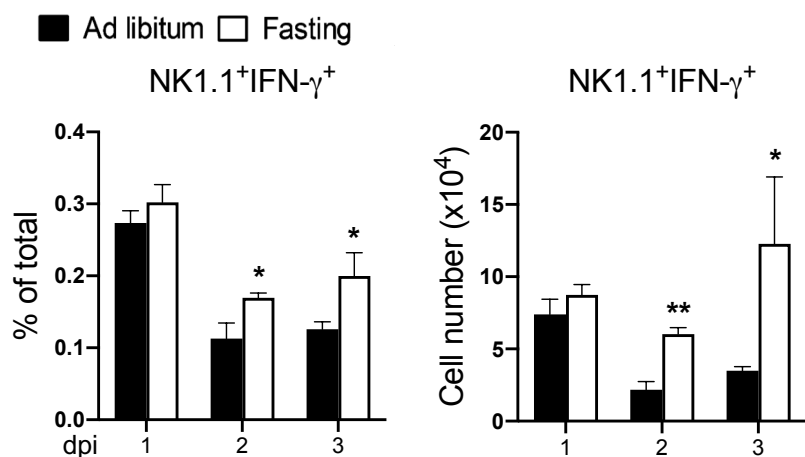
Supplementary Figure 2. Increase of the CD11c^{hi} DC subsets in mice with short-term fasting. Mice were fasted for 24 h. **(A)** The percentage and absolute number of BrdU⁺ cells among CD11c^{hi} DCs subsets were examined in mLN. **(B)** Expression of MHC II, CD86, CD205, and PD-L1 was examined in CD103⁺ DCs of SI LP. Statistical significance by unpaired Student's t-test. The representative results from 2-3 independent experiments, n=3-4 mice.



Supplementary Figure 3. Bacterial burden in stomach and body weight change after short-term fasting in mice infected with *L. monocytogenes*. Mice were fasted for 24 h and then infected with *L. monocytogenes*. **(A)** CFU was measured in stomach at 3 hpi. **(B)** Body weight was monitored for 8 days. To note that the body weight of short-term fasting group was measured from day -1 because of the fasting. The statistics for body weight result was analyzed by log-rank (Mantel-Cox) test and all other statistical significance by unpaired Student's t-test. The representative results from 2-3 independent experiments, n=5-6 mice.



Supplementary Figure 4. Induction of splenic Foxp3⁺ Tregs in mice with short-term fasting followed by *L. monocytogenes* infection. Mice were fasted for 24 h and then infected with *L. monocytogenes*. **(A-B)** Foxp3⁺ Tregs were analyzed in spleen at 1 dpi and shown in **(A)** dot plot and **(B)** percentage among CD3⁺CD4⁺ cells. Statistical significance by unpaired Student's t-test. The representative results from 2-3 independent experiments, n=3-4 mice.



Supplementary Figure 5. Composition of IFN- γ ⁺ cells among NK cells in short-term fasting mice infected with *L. monocytogenes*. Mice were fasted for 24 h and then infected with *L. monocytogenes*. The percentage and absolute number of IFN- γ ⁺ cells among NK cells (NK1.1⁺CD3e⁻NKp46⁺) in mLN at 1, 2 and 3 dpi. Statistical significance by unpaired Student's t-test. The representative results from 2-3 independent experiments, n=4-6 mice.