

Severity of DSS-induced colitis is reduced in Ido1-deficient mice with down-regulation of TLR-MyD88-NF-kB transcriptional networks

Woo-Jeong Shon¹⁺, Young-Kwan Lee²⁺, Ji Hee Shin¹, Eun Young Choi^{2}, Dong-Mi Shin^{1,3*}*

¹Department of Food and Nutrition, Seoul National University, Seoul 151-742, Korea

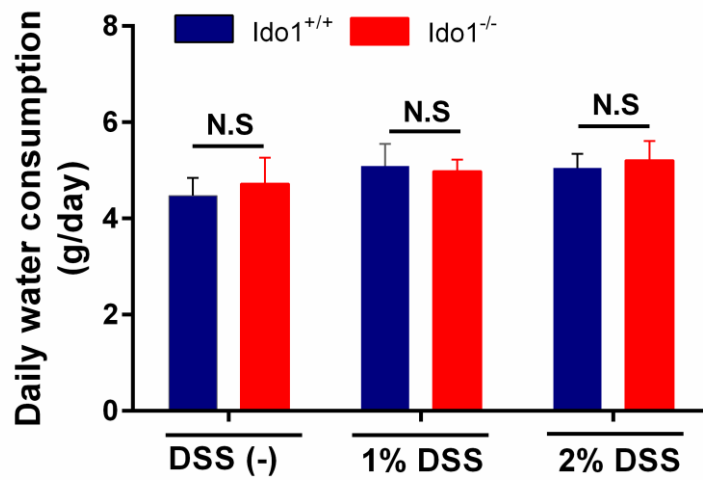
²Department of Biomedical Sciences, Graduate School of Seoul National University, Seoul 110-799, Korea

³Research institution of human ecology, Seoul National University, Seoul 151-742, Korea

*corresponding authors: shindm@snu.ac.kr; eycii@snu.ac.kr

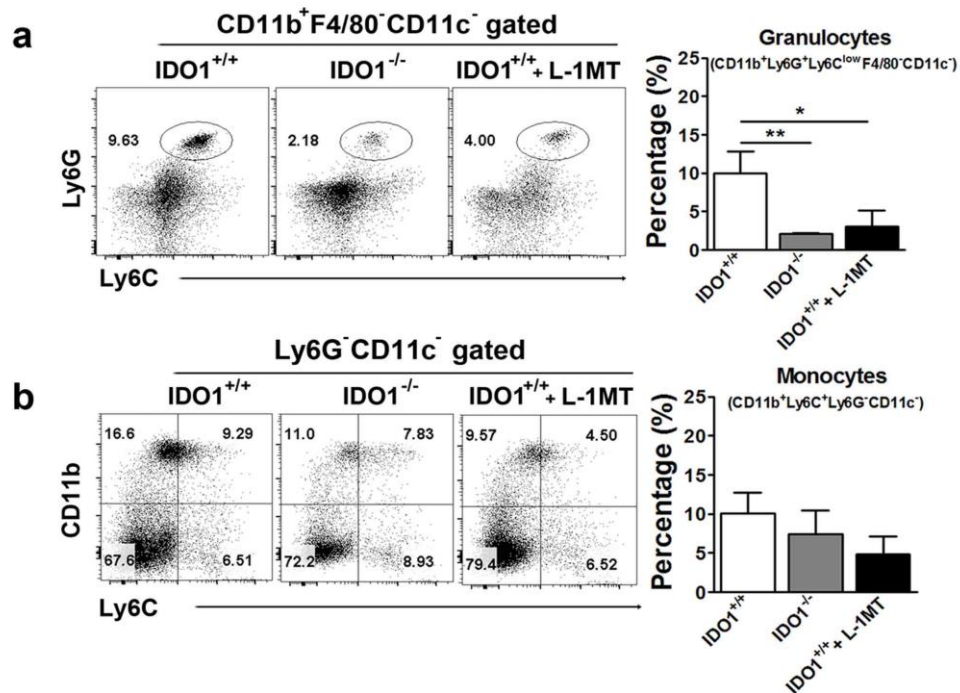
+these authors contributed equally to this work

Supplementary Figure S1



Supplementary Figure S1 | Daily water consumption of *Ido1*^{-/-} and *Ido1*^{+/+} mice. Average water consumption per day per mouse over seven days of DSS treatment was presented. Data are presented as mean \pm S.E.M (n = 3-5 per group) and *p* value was estimated by unpaired t test; NS, Not significant.

Supplementary Figure S2



Supplementary Figure S2 | Flow cytometric analysis of the expression of monocytic and granulocytic populations in the presence or absence of IDO1 in DSS induced colitis.

Colonic cells in lamina propria were isolated from 2% DSS treated *Ido1*^{+/+}, *Ido1*^{-/-} and *Ido1*^{+/+} treated with L-1MT mice on day 7 and 8 after DSS treatment and analyzed difference of the monocytic and granulocytic populations between groups. (a) The expression level of CD11b⁺Ly6G⁺Ly6C^{low}F4/80⁻CD11c⁻granulocytes²⁹ were analyzed using PE-Cy7-conjugated anti-CD11b, eFluor® 450-conjugated anti-Ly6G, APC-conjugated anti-Ly6C, PE-Cy5-conjugated anti-F4/80 and APC-Cy7 conjugated anti-CD11c Abs. (b) The percentage of CD11b⁺Ly6G⁻Ly6C⁺CD11c⁻ monocytic populations²⁹ were also determined by staining with PE-Cy7-conjugated anti-CD11b, eFluor® 450-conjugated anti-Ly6G, APC-conjugated anti-Ly6C and APC-Cy7 conjugated anti-CD11c Abs. *p < 0.05 and **p < 0.01.