



Supplementary Figure 9. Macrophage *Atg16l1* overexpression increases EE in mice. (A) Body weights of HFHCD-fed or chow-fed *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice; n=6 per group. (B, C) Average daily food intake of the *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an HFHCD or NCD; n=6 mice/group. (D, E) O_2 consumption and CO_2 production of the *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an HFHCD; n=6 mice/group. (F) RERs and (G) locomotor activities of the *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an HFHCD; n=6 mice/group. (H, I) O_2 consumption and CO_2 production of *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an NCD; n=6 mice/group. (J) RER and (K) locomotor activity of *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an NCD; n=6 mice/group. (L) The EE of the *Atg16l1^{OE}* and *Atg16l1^{fl/fl}* mice fed an HFHCD or NCD was calculated as $(3.815+1.232 \times RER) \times VO_2 / \text{lean mass}$ (n=6). ATG16L1, autophagy-related protein 16-like 1; EE, energy expenditure; HFHCD, high-fat and high-cholesterol diet. The data are expressed as the mean \pm SD. * $P < 0.05$, ** $P < 0.01$ (unpaired t test or ANOVA).