



**Supplementary Fig. 1.** Metabolic characterization of asialoglycoprotein receptor 1 (ASGR1)-deficient mice fed with high-fat diet (HFD). (A) Western blot of ASGR1 in the liver tissues ( $n=4$ ). (B) Western blot of ASGR1 in the liver of wild type (WT) mice with or without HFD and grey intensity of each band relative to glyceraldehyde-3-phosphate dehydrogenase (GAPDH) were shown ( $n=4$ ). (C) Body weight of the mice during the experimental period ( $n=7$ ). (D) Food intake of WT, *Asgr1*<sup>+/-</sup> and *Asgr1*<sup>-/-</sup> mice per day on average ( $n=7$ ). (E-H) Biochemical index including total cholesterol (TC), low-density lipoprotein cholesterol (LDL-C), high-density lipoprotein cholesterol (HDL-C), and triglyceride (TG) contents in serum of mice (WT,  $n=17$ ; *Asgr1*<sup>+/-</sup>,  $n=11$ ; *Asgr1*<sup>-/-</sup>,  $n=13$ ). All data are shown as the mean  $\pm$  standard deviation. <sup>a</sup>*P* < 0.05, as compared to the indicated WT by one-way analysis of variance (ANOVA).