Supplement

After 8 weeks of HFD-feeding, mice developed insulin resistance characterized by significantly higher body weights (Supplement Fig.1a) and hyperglycemia. As indicated by the GTT test at the 8th week of HFD-feeding (Supplement Fig.1b), the blood glucose levels at 15 min, 30 min, 60 min and 120 min after glucose injection were persistently higher than the RC control. The glucose clearance by insulin injection in HFD-fed mice was also significantly slower than their RC-fed counterparts, shown by ITT test at 9th weeks (Supplement Fig.1d). The respective AUC areas of GTT (Supplement Fig.1c) and ITT (Supplement Fig.1e) were also accordingly elevated.