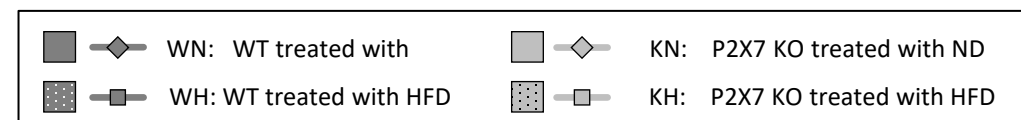
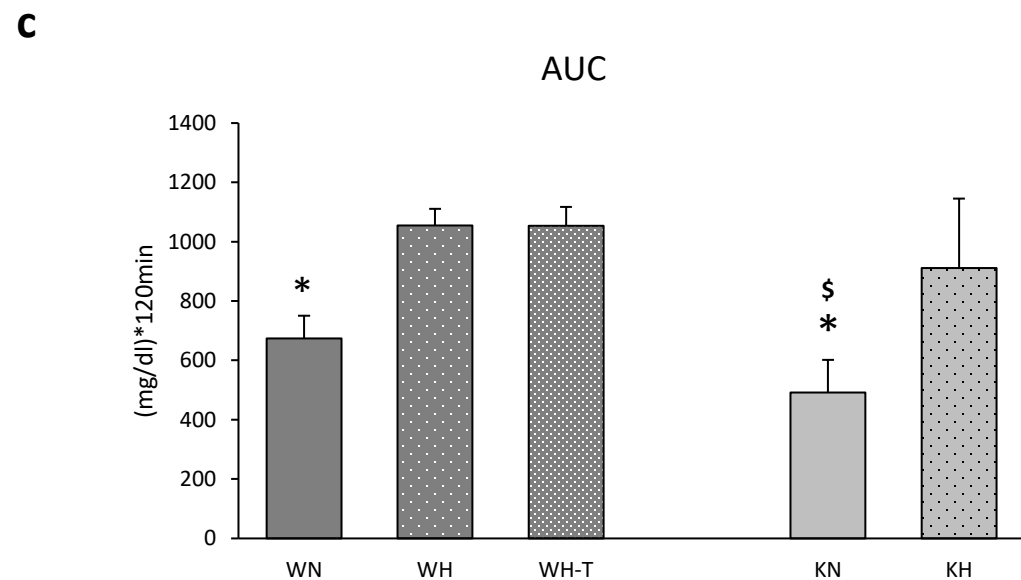
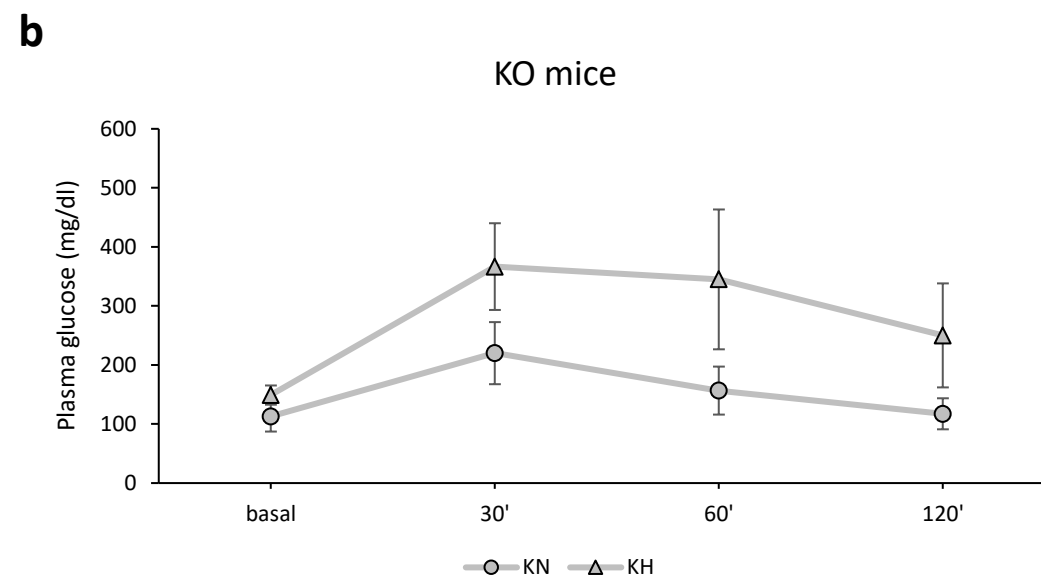
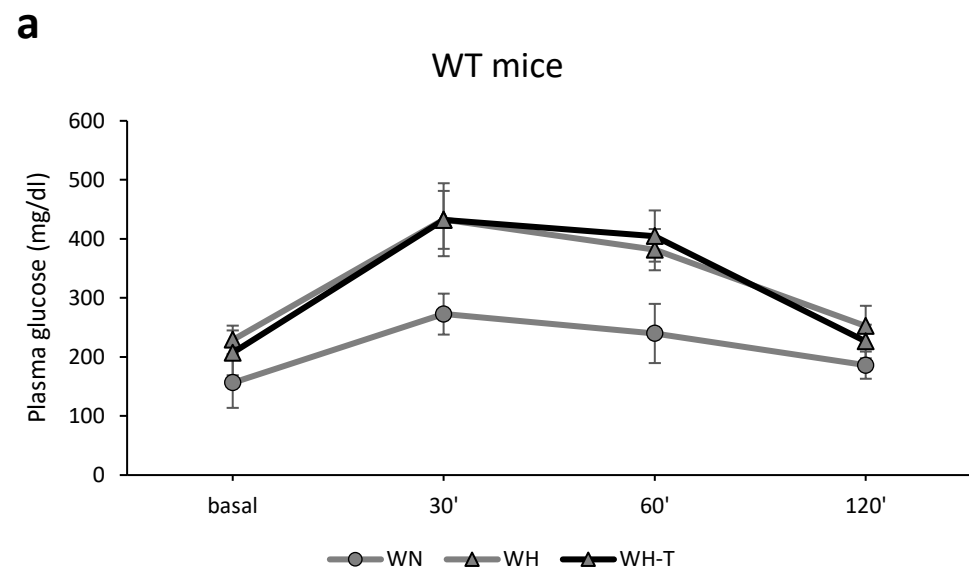


Suppl Figure 1 Body weight measured weekly during the dietary treatment in all experimental groups (n=6 for each group).



WN: WT treated with ND
WH: WT treated with HFD
KN: P2X7 KO treated with ND
KH: P2X7 KO treated with HFD

Suppl Figure 2 Intraperitoneal Glucose Tolerance Test (IPGTT) performed after four months of normal (ND) or high fat diet (HFD) in WT (**a**) and P2X7R KO (**b**) mice. WH-T indicates animals treated with high fat diet and P2X7 receptor antagonist. Quantification of area under curve (AUC) is reported in **c**. Data are mean \pm SD ((n=6 for each group, n=5 in the WH-T group). *p<0.01 normal vs high fat diet. \$p<0.05 KN vs WN

Suppl Table 1

Parameters monitored during the dietary treatment at baseline and after four months in the four groups of mice (n=6 for each group).

	WT BASAL			WT 4 MONTHS			KO BASAL			KO 4 MONTHS		
	NFD	HFD	p	NFD	HFD	p	NFD	HFD	p	NFD	HFD	p
Weight	29 ± 1.9	28 ± 2.7	n.s.	34 ± 3.6	46 ± 4.1	0.011	29 ± 1.9	29 ± 0.8	n.s.	38 ± 4.2	51 ± 1.5	0.012
Plasma Glucose	158 ± 13	150 ± 10	n.s.	186 ± 70	204 ± 35	n.s.	197 ± 41	203 ± 30	n.s.	139 ± 21	194 ± 58	n.s.
Triglycerides	120 ± 24	135 ± 34	n.s.	179 ± 44	158 ± 40	n.s.	148 ± 9	163 ± 32	n.s.	188 ± 49	229± 43	n.s.
Cholesterol	155 ± 10	145 ± 8	n.s.	159 ± 17	178 ± 13	0.046	165 ± 20	178 ± 13	n.s.	157 ± 5	192 ± 23	0.012
sGOT	69 ± 20	88 ± 26	n.s.	97 ± 36	114 ± 58	n.s.	113 ± 38	86 ± 30	n.s.	107 ± 31	134 ± 53	n.s.