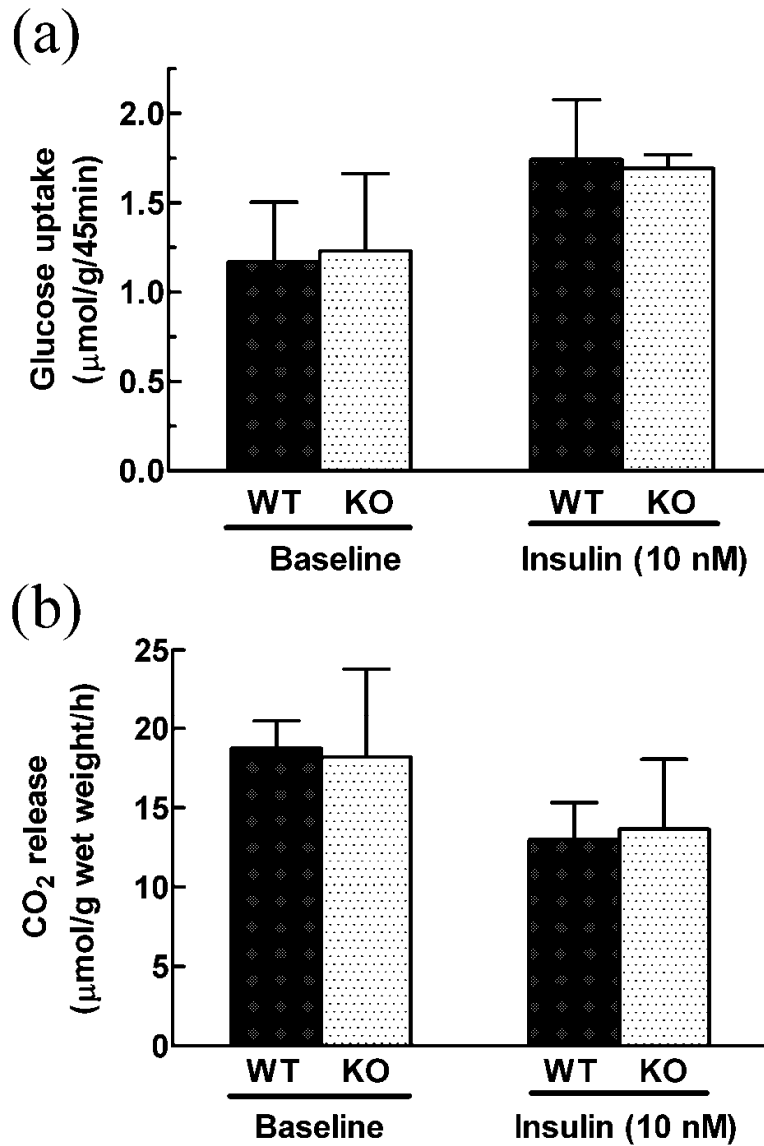


Supplemental data for: Male mice that lack the GPR41 receptor have low energy expenditure and increased body fat content. Mohamed Bellahcene et al.



Supplemental Fig.1. (a) Glucose uptake and (b) palmitate oxidation by soleus muscle from wild-type and GPR41 knockout mice. n=4

Supplemental Table 1

Locomotor activity in wild-type and GPR41 male knockout mice

Horizontal locomotor activity (crossings between squares)

	Low fat diet				High fat diet			
	Wild-type		Knockout		Wild-type		Knockout	
	Mean	SEM	Mean	SEM	Mean	SEM	Mean	SEM
n	8		4		8		5	
Daytime	54	22	66	20	26	6	58	21
Night-time	203	39	154	42	11.0	5.7	17.2	7.2

Night-time locomotor activity was lower in animals fed on the high-fat compared to the chow diet ($P<0.001$; 2-way ANOVA). This was associated with the mice spending 70% of their time in the section of the cage (of six sections in all) where the food was placed, compared to 10% for mice fed on chow.