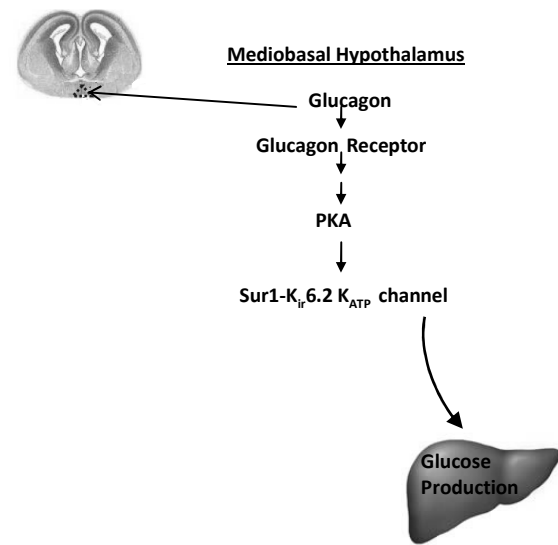


**Supplemental Figure 1a**



**Supplemental Figure 1b**

	Insulin (ng/ml)	Glucagon (pg/ml)	Glucose (mg/dl)
Saline (n=5)			
Basal	0.8 ± 0.1	60.1 ± 4.2	136.3 ± 10.3
Clamp	0.7 ± 0.2	53.7 ± 1.3	133.5 ± 10.4
Glucagon (n=5)			
Basal	0.8 ± 0.1	62.1 ± 2.1	139.5 ± 8.3
Clamp	0.7 ± 0.1	53.4 ± 2.3	129.9 ± 5.7
AICAR+saline (n=5)			
Basal	0.8 ± 0.1	62.1 ± 2.0	129.4 ± 3.9
Clamp	0.8 ± 0.1	53.4 ± 2.3	133.9 ± 9.5
AICAR+glucagon (n=6)			
Basal	1.1 ± 0.2	60.7 ± 2.0	128.6 ± 4.8
Clamp	0.8 ± 0.1	49.9 ± 4.3	127.7 ± 11.0
GFP+saline (n=5)			
Basal	0.8 ± 0.1	60.1 ± 4.2	136.3 ± 10.3
Clamp	0.7 ± 0.2	53.7 ± 1.3	133.5 ± 10.4
CA AMPK+saline (n=5)			
Basal	0.7 ± 0.1	63.6 ± 3.9	130.3 ± 8.0
Clamp	0.7 ± 0.1	53.7 ± 1.2	124.8 ± 13.3
GFP+glucagon (n=5)			
Basal	1.1 ± 0.2	64.4 ± 2.1	140.9 ± 8.4
Clamp	0.9 ± 0.2	54.1 ± 0.8	130.6 ± 3.1
CA AMPK+glucagon (n= 5)			
Basal	1.2 ± 0.2	72.7 ± 5.4	130.2 ± 4.9
Clamp	0.9 ± 0.3	54.7 ± 2.2	140.3 ± 5.1

**Supplemental Table 1**