

Supplementary Table 1 The average blood glucose levels in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 3A)

Group	Day 0	Day 2	Day 5	Day 9	Day 11	Day 16	Day 18	Day 23	Day 25
VPx	45.63 ±14.8	44.88 ±12.6	53.63 ±12.9	52.44 ±14.6	45.50 ±	43.29 ±10.0	45.57 ±	47.83 ±12.8	40.80 ±
	2	5	3	6	6.74	6	6.40	4	5.93
PPx	50.00 ±13.6	42.17 ±10.4	53.00 ±20.4	50.50 ±	56.13 ±15.2	53.63 ±10.1	52.00 ±12.7	63.13 ±26.9	59.75 ±23.1
	2	4	9	9.65 ^a	8	4	4	1	7
SPx	57.40 ±	63.83 ±18.2	166.0 0±67.	71.83 ±12.8	71.83 ±20.9	75.00 ±48.5	72.00 ±45.5	89.33 ±93.7	75.17 ±54.1
	9.04	0	39 ^b	3	0 ^a	0	6	1	5
Sham	55.25 ±20.2	44.60 ±16.7	45.80 ±10.1	66.33 ±11.5	50.67 ±	48.17 ±12.3	45.33 ±	45.83 ±	49.50 ±
	9	6	6	5	8.62	5	8.76	8.28	7.92

^a $P < 0.05$, ^b $P < 0.01$.

Supplementary Table 2 The average AUC of IPGTT in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 3B)

Group	Week 0	Week 1	Week 2	Week 3	Week 4
VPx	16041.4	13413.3	15318.5	17674.2	16337.86
	3	3±1474.	7	9±3392.	±
	±3345.3	55	±4501.3	34	2325.21
	0		3		
PPx	17309.1	15447.5	22246.2	20675.0	20387.50
	7±3199.	0±2681.	5±2677.	0	±
	24	77	87 ^c	±1618.0	1855.50 ^c
				6 ^b	

SPx	11962.5 0±1449. 30	17510.0 0±1852. 66 ^b	23281.6 7±4356. 61 ^b	23188.0 0 ±3452.4 3 ^a	25480.00 ± 5943.28 ^b
Sham	14728.0 0±4083. 95	13212.5 0 ±1206.9 5	15729.1 7±2799. 16	16984.0 0±1724. 14	14406.67 ± 2023.91

^a $P < 0.05$, ^b $P < 0.01$, ^c $P < 0.001$.

Supplementary Table 3 The average insulin levels at 30 min after the IPGTT in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 4B)

	VPx	PPx	SPx	Sham
mean±standard deviation	64.74±11.59	24.84±10.25 ^b	18.77±10.34 ^b	59.48±9.87

^b $P < 0.01$.

Supplementary Table 4 The average body weight in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 6A)

Group	Day 0	Day 5	Day 11	Day 18	Day 25
VPx	91.59±7.7 5	89.26±7.1 0	87.55±7.0 1 ^a	85.58±8.53 a	86.44±8.94 ^a
PPx	96.07±2.9 7	88.60±3.5 1 ^a	88.47±4.2 0 ^a	88.69±4.61 a	89.42±5.53
SPx	93.43±8.0 7	84.12±6.9 3 ^b	80.50±6.5 0 ^b	79.98±6.25 b	80.62±5.47 ^b
Sham	96.62±4.6 8	95.23±5.2 4	95.64±5.3 1	96.46±4.57	96.60±6.64

^a $P < 0.05$, ^b $P < 0.01$.

Supplementary Table 5 The average food intake in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 6B)

Group	Week 1	Week 2	Week 3	Week 4
VPx	6.69±0.86	6.44±1.00	6.60±0.84	5.96±0.67
PPx	6.23±0.96	6.63±0.82	6.83±0.64	6.67±0.91
SPx	4.31±0.33 ^b	5.65±0.5 ^b	6.07±0.53 ^b	5.88±0.60
Sham	6.64±0.89	7.51±0.72	7.26±0.35	6.67±1.18

^b*P* < 0.01.

Supplementary Table 6 The average insulin levels at 30 minutes after feeding in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 7B)

	VPx	PPx	SPx	Sham
mean±standard deviation	24.4±20.46	10.8±4.55 ^b	5.44±1.66 ^b	30.38±12.79

^b*P* < 0.01.

Supplementary Table 7 The average GLP-1 levels at 30 minutes after feeding in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 7D)

	VPx	PPx	SPx	Sham
mean±standard deviation	0.91±0.27	0.97±0.12	1.34±0.22 ^a	1.06±0.15

^a*P* < 0.05.

Supplementary Table 8 The average PP levels at 30 minutes after feeding in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 7F)

	VPx	PPx	SPx	Sham
mean±standard deviation	0.52±0.05 ^c	0.53±0.05 ^b	0.63±0.08	0.73±0.12

^b*P* < 0.01, ^c*P* < 0.001.

Supplementary Table 9 The average somatostatin levels at 30 minutes after feeding in each group and comparisons between the Px groups and the Sham group (Supplementary data for Figure 7H)

	VPx	PPx	SPx	Sham
mean±standard deviation	14.07±1.79 ^b	15.55±0.78 ^a	17.79±3.59	16.92±1.22

^a*P* < 0.05, ^b*P* < 0.01.