## Additional data file 1.

I		Secreted insulin by hislets			
		(mean $\pm$ SD; ng/mg protein content)			
	Days	CTRL (n=4)		hPL (n=4)	
	,	0 mM glucose	25mM glucose	0 mM glucose	25mM glucose
	2	$0.50 \pm 0.2$	$1.00 \pm 0.1$	$0.42 \pm 0.2$	$7.6 \pm 4.0$
	4	$0.51 \pm 0.3$	$0.91 \pm 0.2$	$0.72 \pm 0.5$	$4.8 \pm 3.2$
	8	$0.33 \pm 0.1$	$1.04 \pm 1.2$	$0.55 \pm 0.1$	$1.2 \pm 0.8$
	14	$0.88 \pm 0.3$	$5.10 \pm 0.8$	$0.47 \pm 0.8$	$4.7 \pm 0.4$

**Secreted insulin before and after glucose challenge.** After 2, 4, 8, and 14 days of treatment both CTRL and hPL-treated human cultured islets were challenged with 25 mM glucose. Insulin secretion was assayed before and after glucose stimulation by RIA. Secreted insulin values were normalized by protein concentration.