

ESM Table 4: Comparison of data concerning beta cells morphometry from selected publications

	Straub et al. (2004)	Dean PM (1973)	Olofsson et al. (2002)	Sato and Herman (1981)
Species	Rat	Mouse	Mouse	Rabbit
Fixation	CHEM	CHEM	CHEM	CHEM
Analyzed Cells	11	342	57	N.A.
Cell Volume	1202	1434 μm^3	1376 \pm 84 μm^3	1260 μm^3
Cell surface	N.A.	973 μm^2	N.A.	600 μm^2
Cell Diameter	13.2 μm	11.3 μm - 12.7 μm	N.A.	N.A.
Nuclear Volume	N.A.	168 μm^3	N.A.	168 μm^3
Cytoplasm Volume	N.A.	1266 μm^3	N.A.	1092 μm^3
ISGs OMD	348 nm	289 nm	357 \pm 11 nm	304 \pm 48 nm
ISGs Volume	0.022 μm^3	0.012 μm^3	N.A.	N.A.
ISGs Density	N.A.	0.0808 x 10 ¹³ /cm ³	6.4 \pm 0.4/ μm^3	N.A.
ISGs/Cell	11136	13060	8800 \pm 600	9200