



**Supplementary Figure 1. Frequency Distribution Data for analysis of Electron Microscopy 2D sections of PTEC mitochondria.** (A) Shape descriptors of 'Form Factor'. (B) Frequency Distribution of % Area mitochondria in 2D cytosol volume. Frequency data was divided into 20 bins of equal size. Graphs show mean and SD of n=3 per group.

**Supplementary Table 1. List of Primers sequences used**

Gene ( <i>Mus musculus</i> )	Forward 5' – 3'	Reverse 5' – 3'	Genebank accession
Ppif <sup>‡</sup> (Cyclophilin F, Cyclophilin D)	TGGCTCTCAGTTCTTTATCTGC	ACATCCATGCCCTCTTTGAC	NM_134084.1
Cyt c	CATCTTGGTTTCAAGCCCAGA	CTGCCCAGGCCAAAATTGC	JF919281.1
ATP synthase, F1- $\alpha$	TGTCCGCTTACATTCCAACAAA	CAGGGCGGATGCCTTTATAG	BC020417
Fibronectin	ACATGGCTTTAGGCGGACAA	ACATTCGGCAGGTATGGTCTTG	M10905
TGF- $\beta$	GCAGTGGCTGAACCAAGGA	GCAGTGAGCGCTGAATCGA	NM_011577
F4/80	GGTACAGTCATCTCCCTGGTATGTCT	GGTTCTGAACAGCACGACACA	X93328
Casp 3	GACGGTCCTCCTGGTCTTTG	GTGGCTGGCTGCATTGC	NM_009810
Casp 8	CAACTTCCTAGACTGCAACCG	TCCAACCTCGCTCACTTCTTCT	NM_009812.2
Casp 9	TCCTGGTACATCGAGACCTTG	AAGTCCCTTTCGCAGAAACAG	NM_015733.5
Casp 12	AGACAGAGTTAATGCAGTTTGCT	TTCACCCACAGATTCCTTCC	NM_009808.4
Col I	GACTGGAAGAGCGGAGAGTACTG	CCTTGATGGCGTCCAGGTT	NM_007742
$\alpha$ -SMA	GACGCTGAAGTATCCGATAGAACA	GGCCACACGAAGCTCGTTAT	NM_007392
CTGF	GCTGCCTACCGACTGGAAGA	CTTAGAACAGGCGCTCCACTCT	BC006783
Mief1	GCTTCGCTACACTGATCGAGACT	CTCAAGCTTCTGATTTTCTGAAT	NM_178719
Pink1	AGAAAACCAAGCGGTGTCT	GGAAGCCCTGCCAGCAT	NM_026880
Opa1 <sup>□</sup>	ATACTGGGATCTGCTGTTGG	AAGTCAGGCACAATCCACTT	NM_001199177.1
Ucp-2	CCGTAATGCCATTGTCAACTGT	GGCTTTCAGGAGAGTATCTTTGATG	BC012697

Notes: All genes were generated against sequences for *Mus musculus*

<sup>‡</sup>Ppif primer sequence from Lam, CK et al *PNAS* 2015