



**Supplementary Figure S1.** Mitochondrial morphology analysis by confocal microscopy. (A) Representative images of L6 myoblasts incubated with Mitotracker green after the different treatments. Control. Insulin 100 nM. DG. DS. DG+ OLZ. DS+ OLZ. DG+OLZ+Ins. DS+OLZ+INS. (B) Quantification of the number of mitochondria per cell by Image J NIH software. OLZ treatment promoted an increase in the number of mitochondria that was also noted with the treatment of DG and DS and in co-incubation. (C) Quantification of mean mitochondrial volume by Image J NIH software.