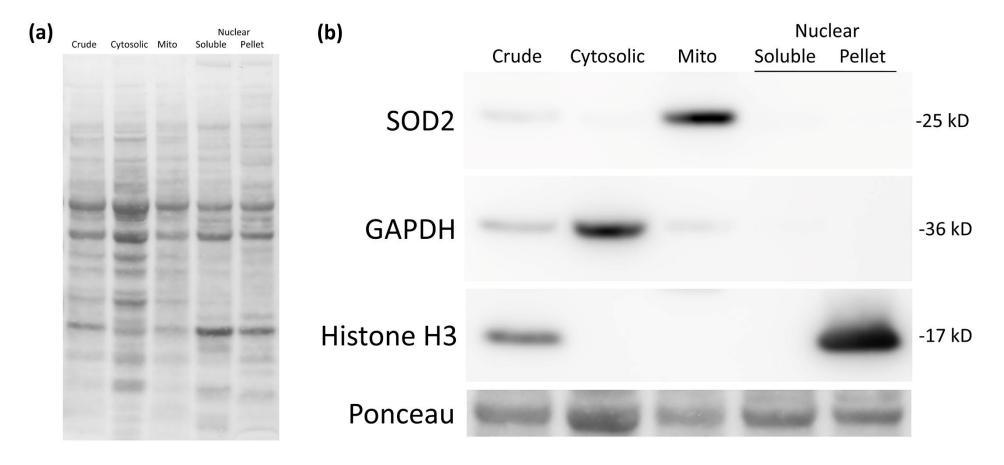
Supplemental Figure 1. Subcellular fractionation in piglet putamen. (**a**) Representative Ponceau S stained membrane showing total protein loading of the different fractions using the ThermoFisher NE-PER extraction kit. Fraction selective protein banding can be seen in the different lanes. (**b**) Western blotting of the fractions for SOD2 verified that the mitochondrial (mito)/organelle fractions used in the paper have a strong mitochondrial (SOD2) signal compared to the other fractions. The mito fraction has minimal cytosolic (GAPDH) and absent nuclear (histone) contamination.



Supplemental Figure 2. Rapid fresh (not frozen) tissue homogenization preparation vs frozen putamen homogenization preparation for isolation of mitochondrial enriched fractions. (a) Western blots for VDAC and CypD along with (b) band quantification do not show a difference between fresh and flash frozen samples. A human putamen sample is also shown with a band seen co-migrating at the expected molecular weight for VDAC and CypD with the piglet samples. Human lane was cropped to show a longer exposure time.

