

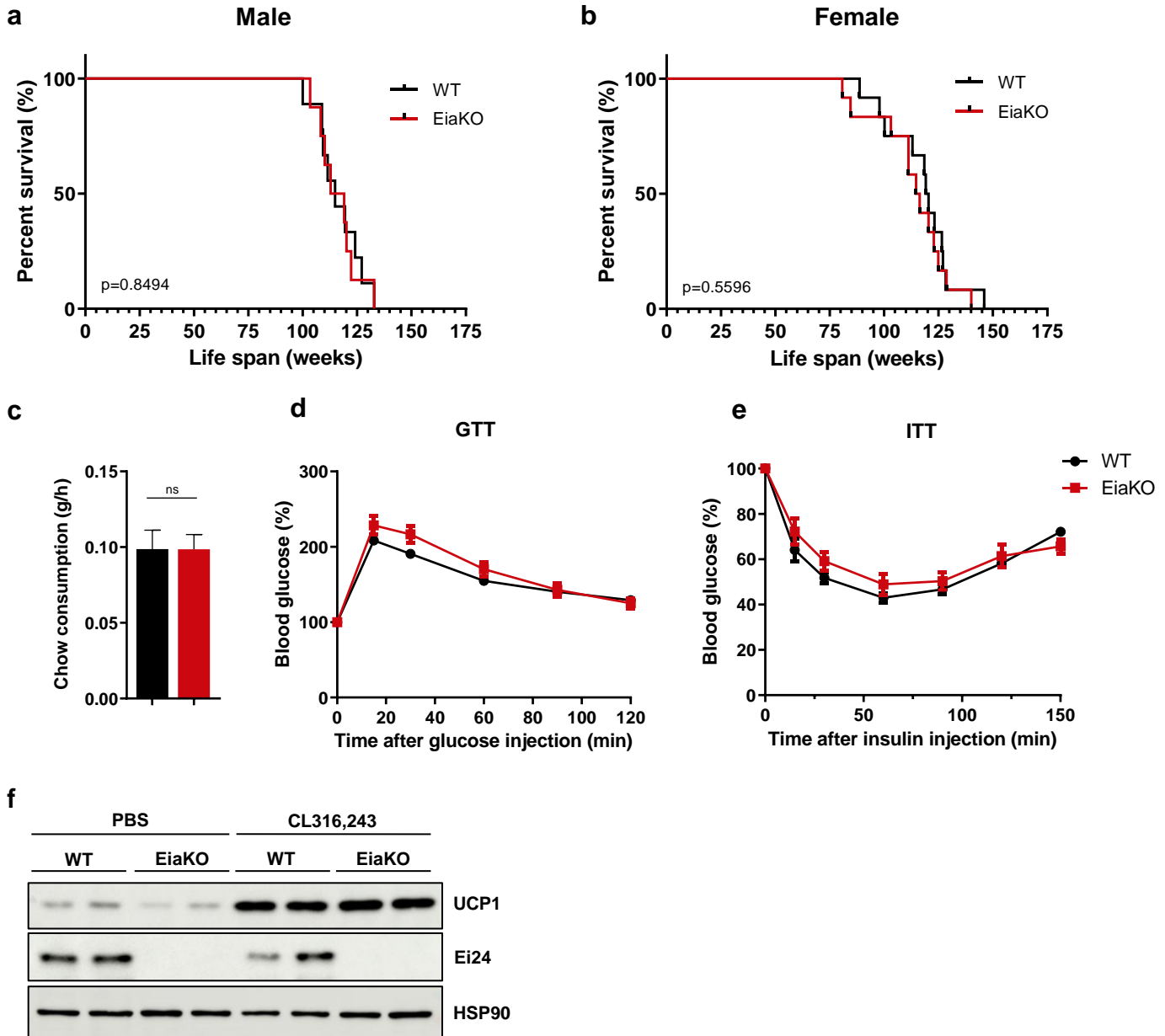
## Supplemental Information

### **Ei24 deficiency in brown adipocytes induces severe hypothermia under cold stress independent of UCP1 activity**

Su Bin Lee, Bui Thanh Thu, Tae Wook Nam, Yaechan Song, Jae Hoon Lee, Yangsik Jeong, and Han-Woong Lee

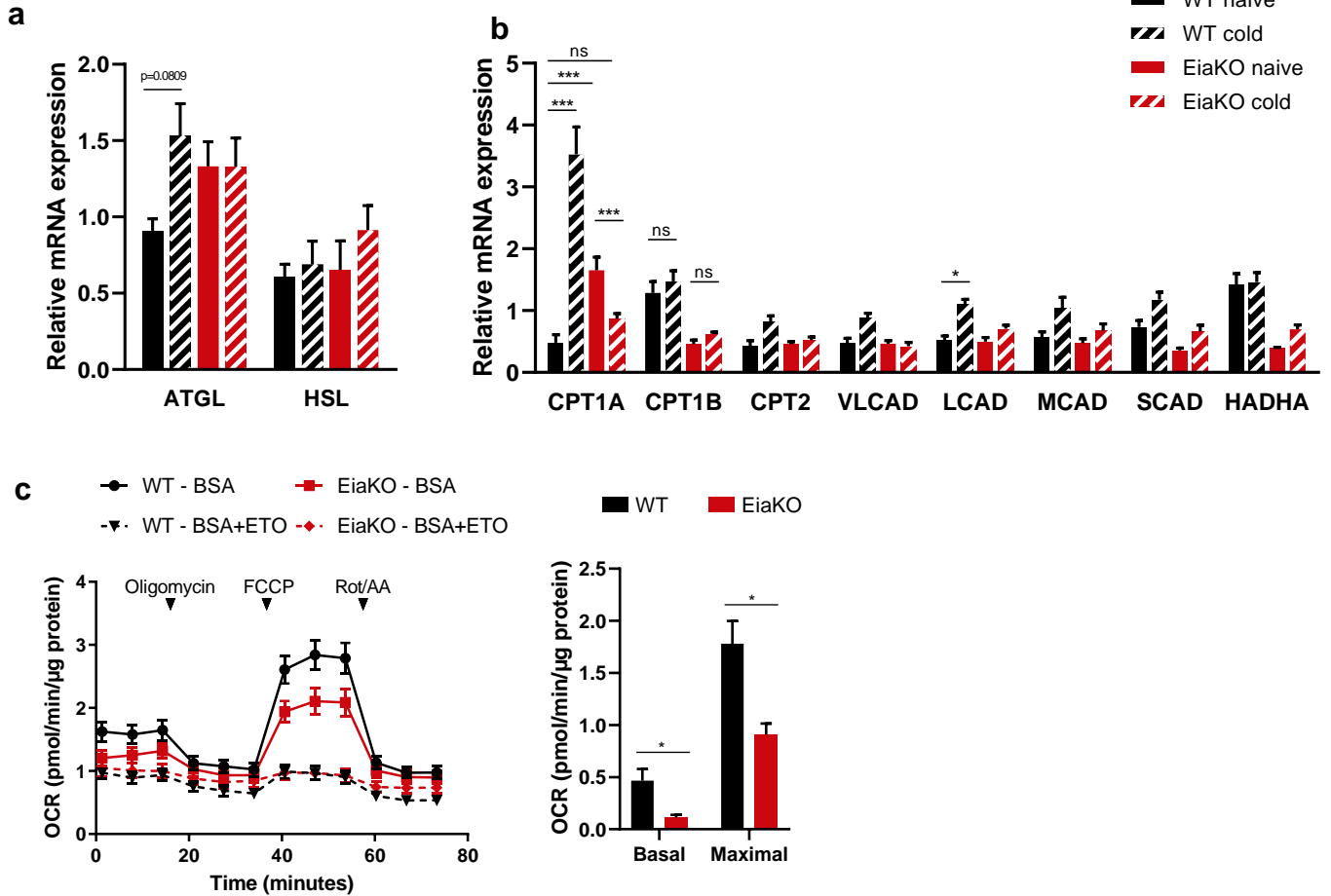
# Supplementary Figures S1

## Adipocyte-specific deletion of Ei24 does not affect lifespan and glucose/insulin tolerance



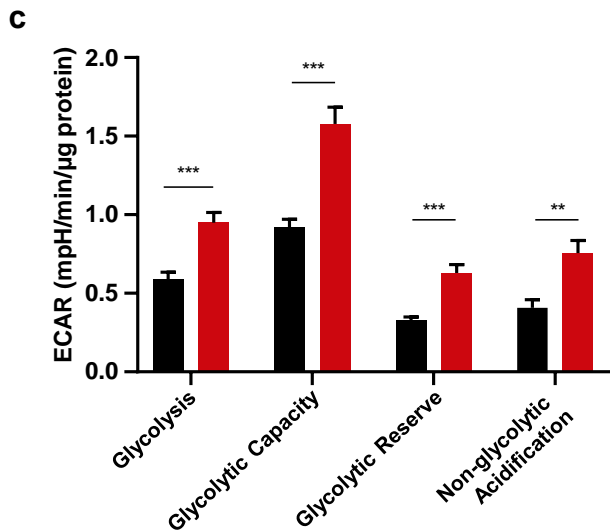
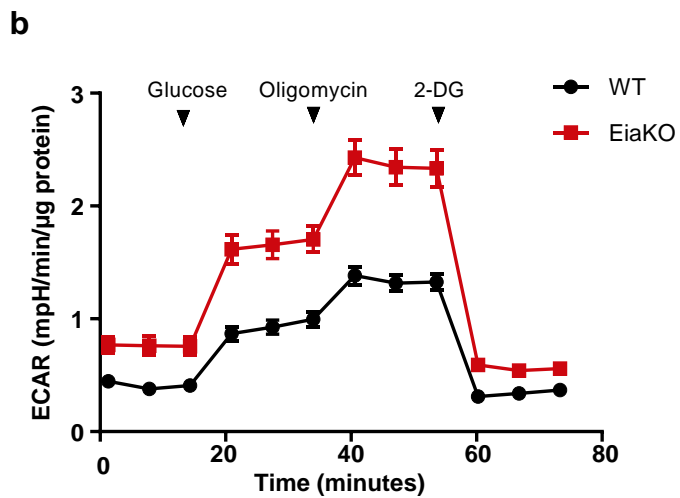
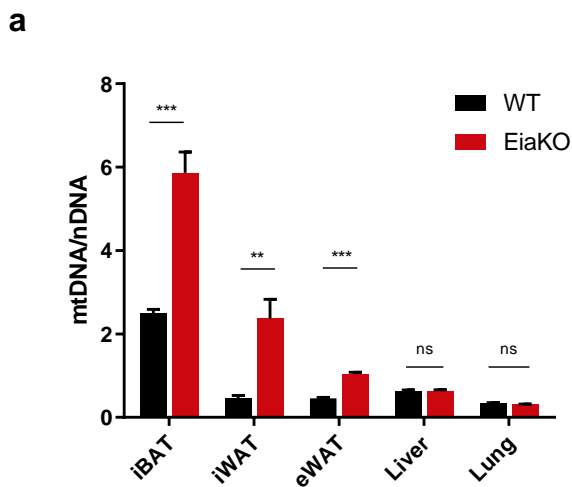
## Supplementary Figures S2

### mRNA expression of lipolytic enzymes, fatty acid oxidation regulators, and endogenous FAO in EiaKO



# Supplementary Figures S3

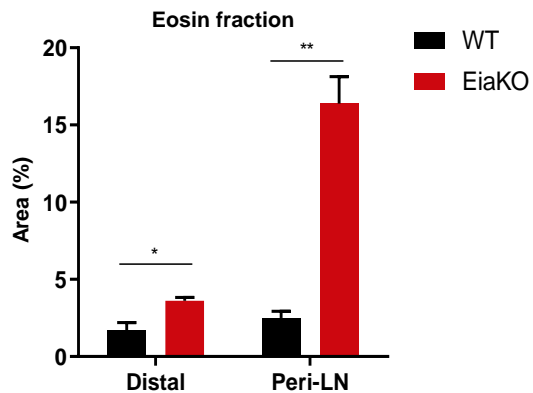
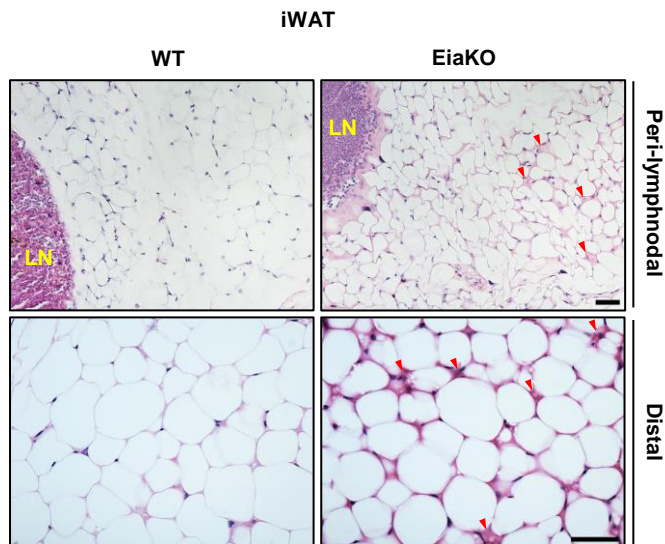
## Mitochondrial accumulation and elevated glycolytic rate in EiaKO



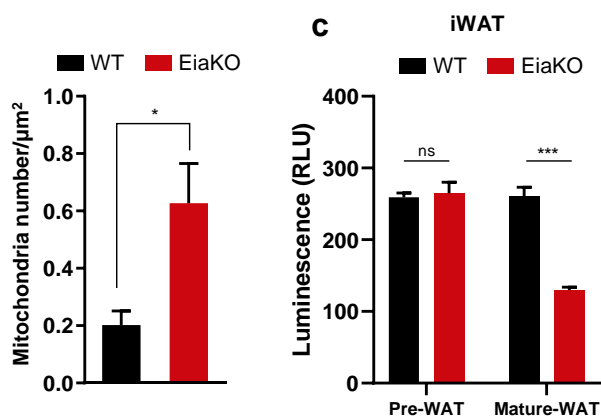
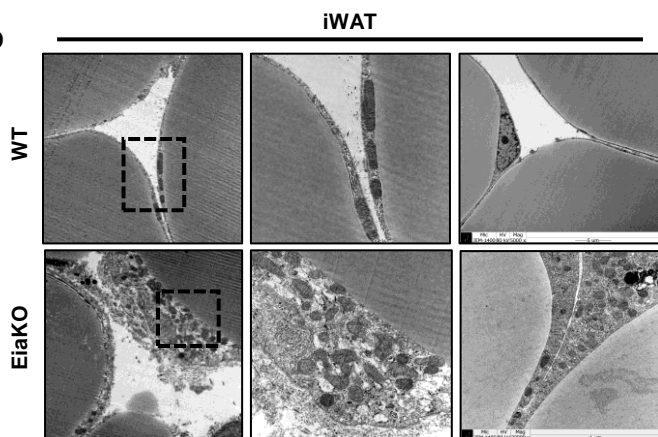
# Supplementary Figures S4

## Mitochondrial alterations in EiaKO white adipocytes resemble those observed in brown adipocytes

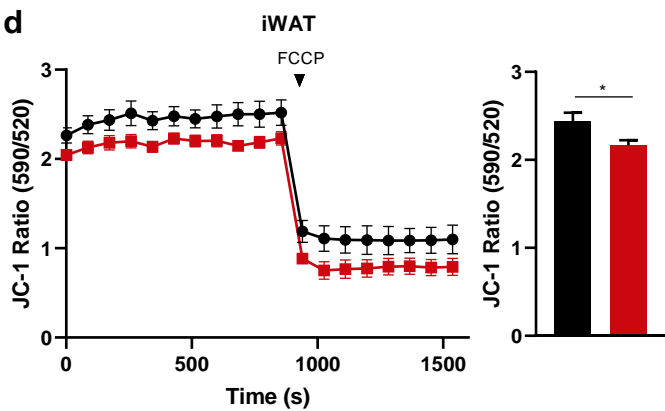
a



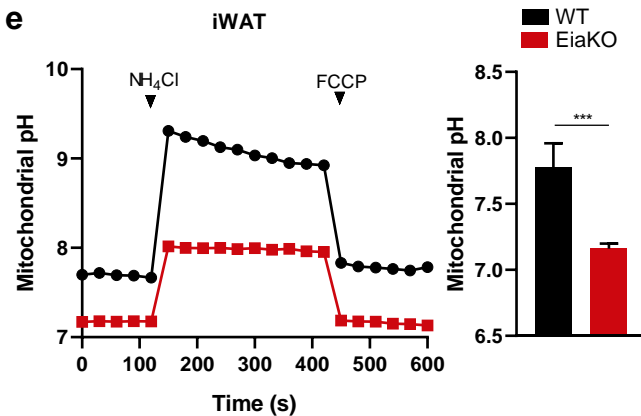
b



d



e



# Supplementary Figures S5

## Impaired mitophagy and altered mitochondrial functionality in EiaKO cells

