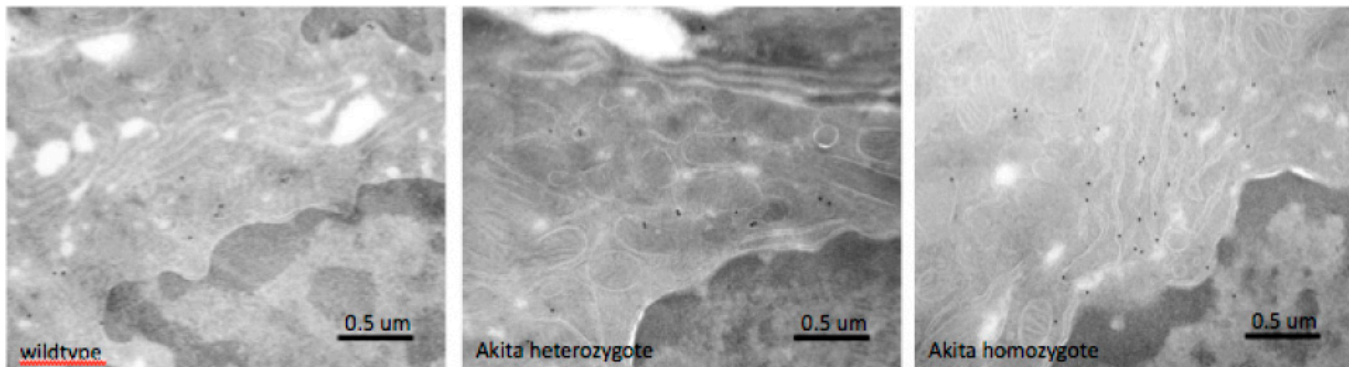
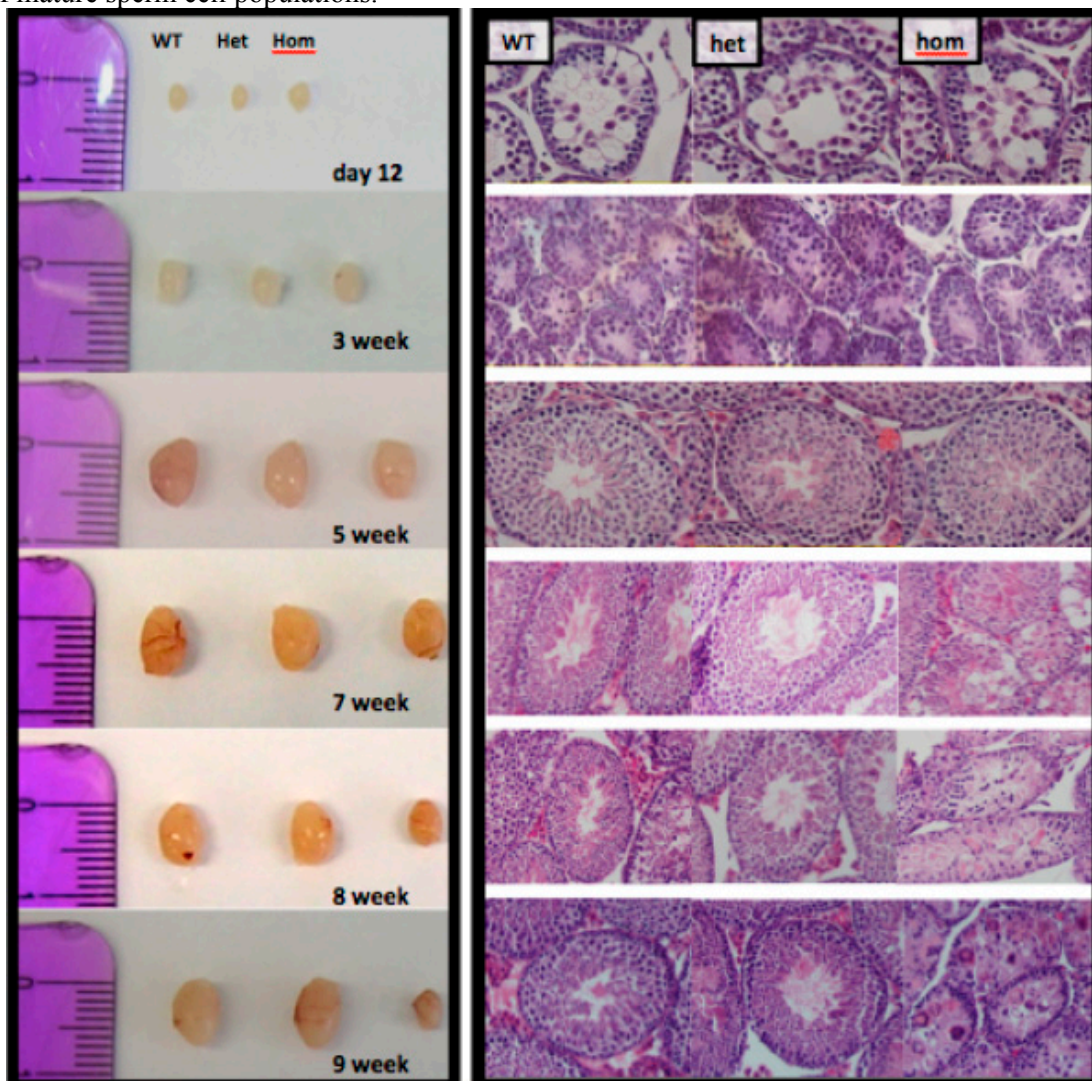


SUPPLEMENTARY DATA

Supplementary Figure 1. Immunogold localization of insulin to the endoplasmic reticulum in Akita mice. Immunogold labeling of insulin shows a higher density of insulin localizing to the endoplasmic reticulum in Akita homozygous mice. This demonstrates the accumulation of the misfolded mutant *ins2* protein product in homozygotes.



Supplementary Figure 2. Progressive atrophy of Akita homozygous testes. The testes of Akita homozygous mice progressively atrophy with age in the Akita homozygous mouse corresponding to increased vacuolization and loss of mature sperm cell populations.



SUPPLEMENTARY DATA

Supplementary Figure 3. Histological analysis of Akita tissues. Full necropsy of wildtype, Akita heterozygous, and Akita homozygous mice show no severe defects in any other organ aside from the testes.

