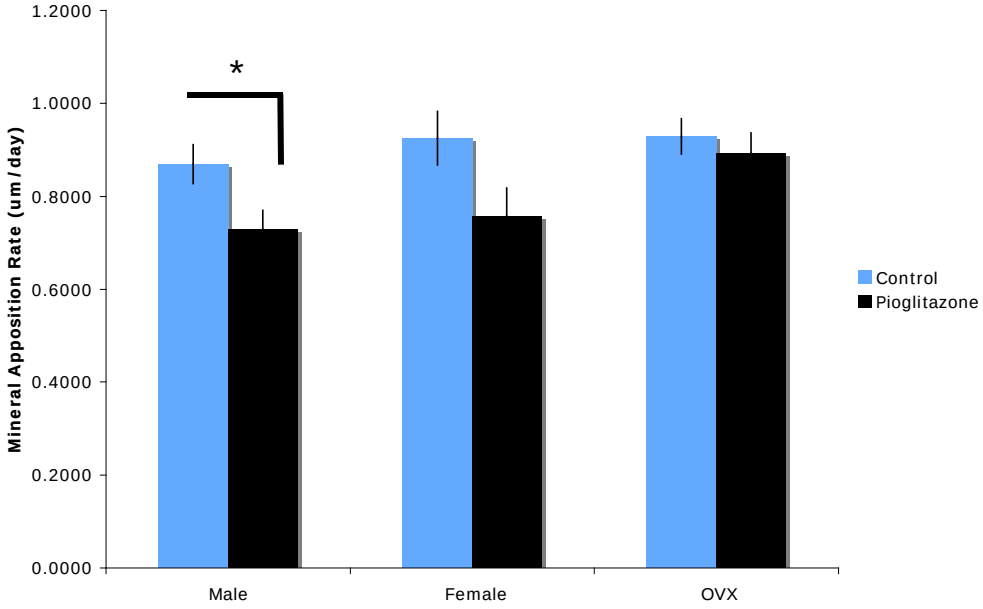
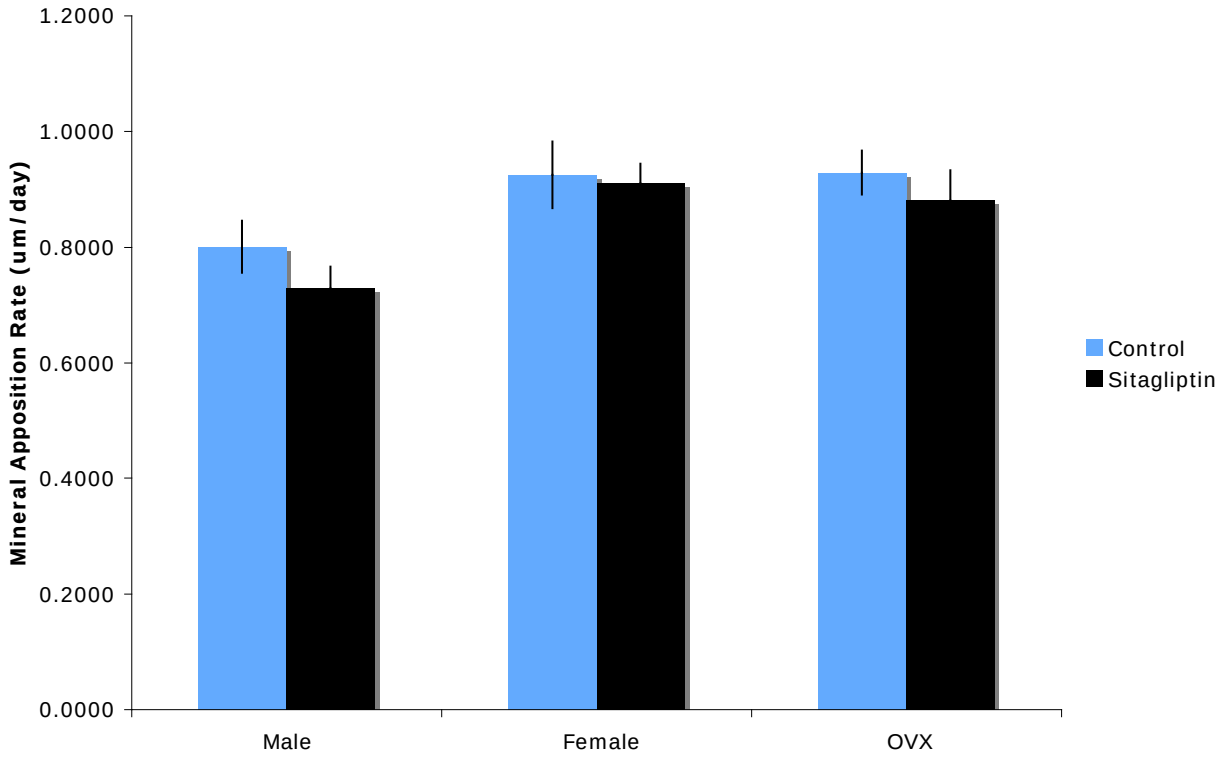


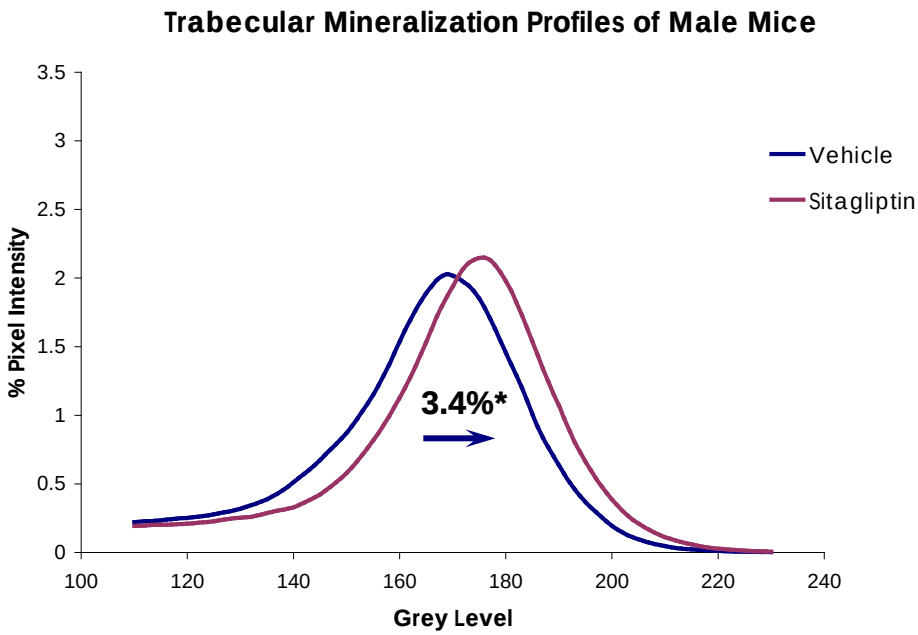
Supplemental Figure 1

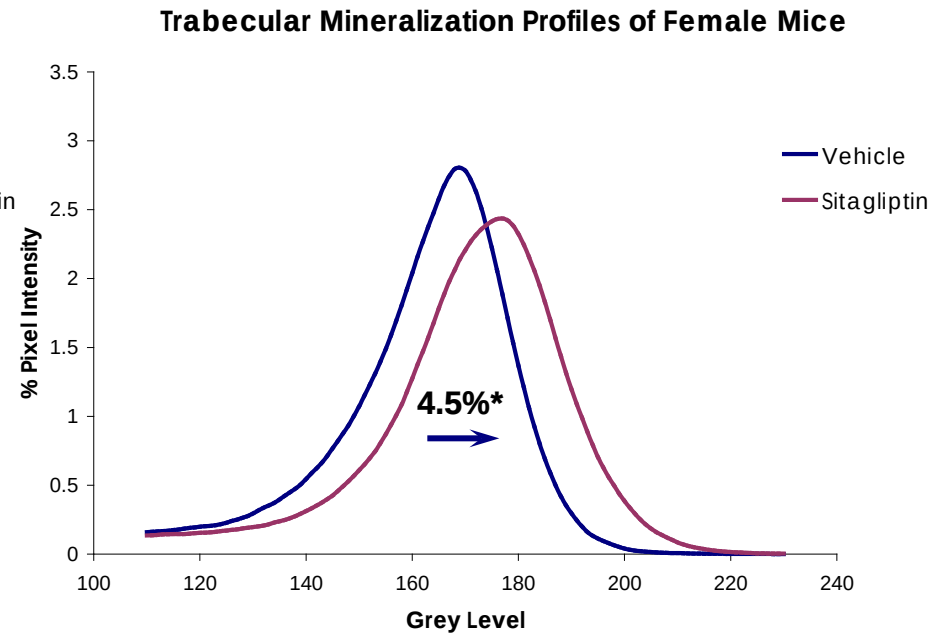
Mineral apposition rate for male, female, and OVX HFD mice treated with vehicle or pioglitazone*= $p<0.05$

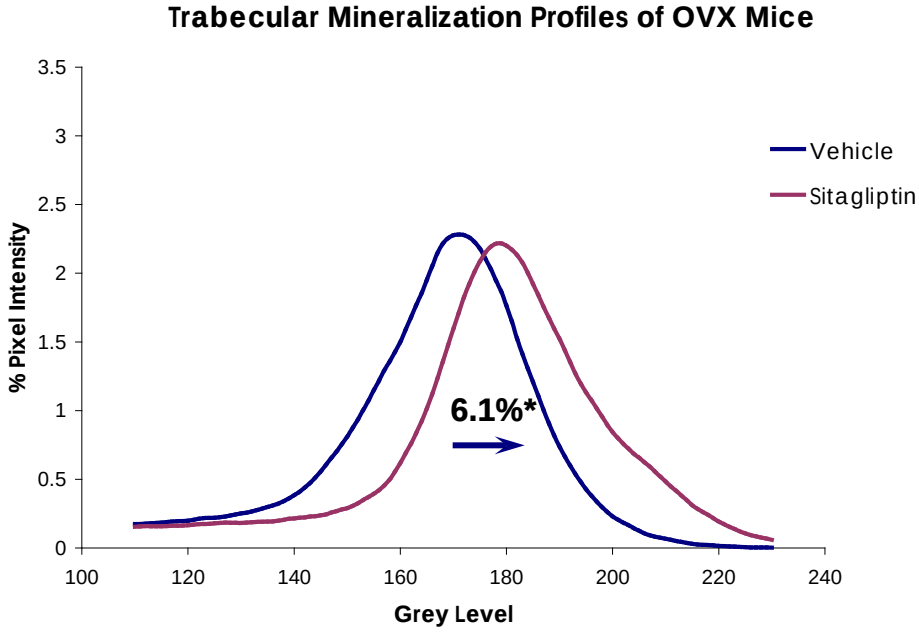


Supplementary Figure 2

Mineral apposition rate for male, female, and OVX HFD mice treated with vehicle or sitagliptin *= $p<0.05$



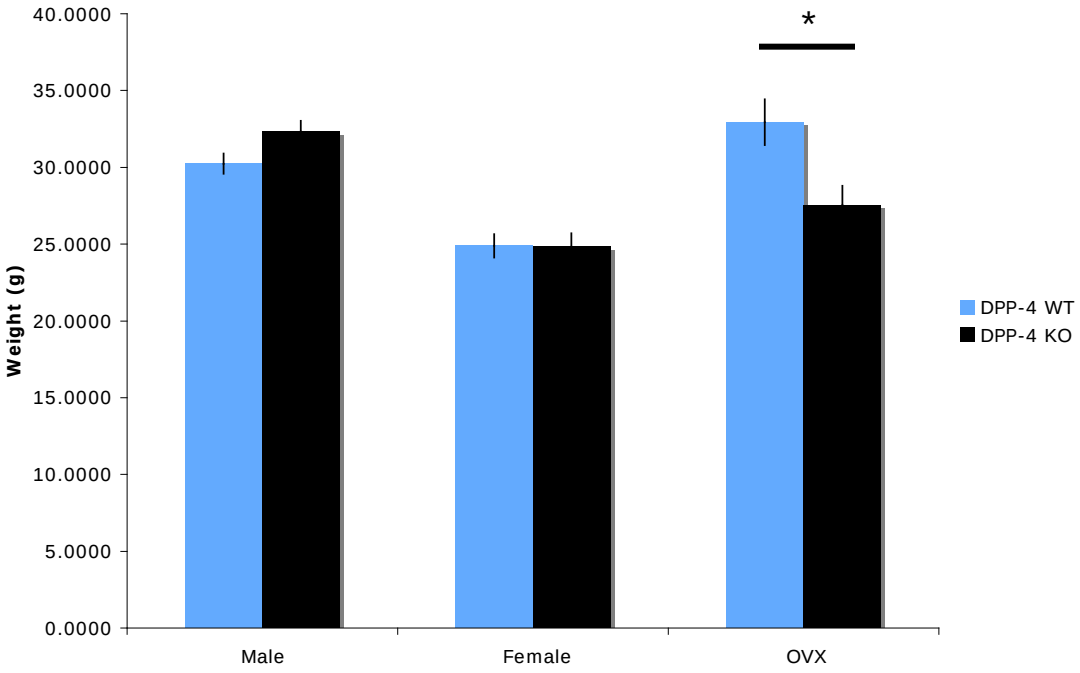




Average mineralization profiles for trabecular bone area in sitagliptin- vs. vehicle-treated HFD mice
* = p< .05 vehicle vs. sitagliptin

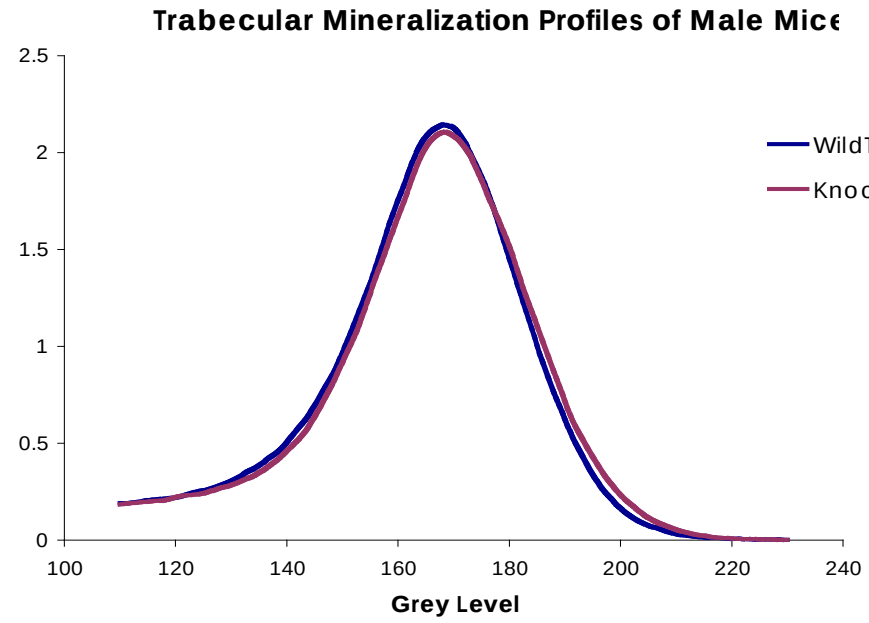
Supplementary Figure 3

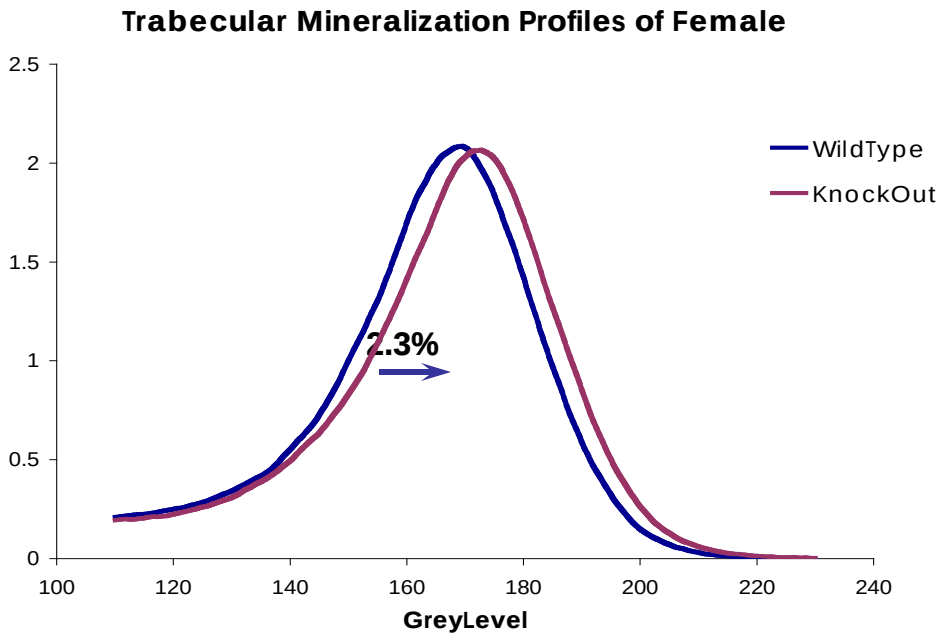
Body weight in *Dpp4*+/+ and *Dpp4*-/- mice

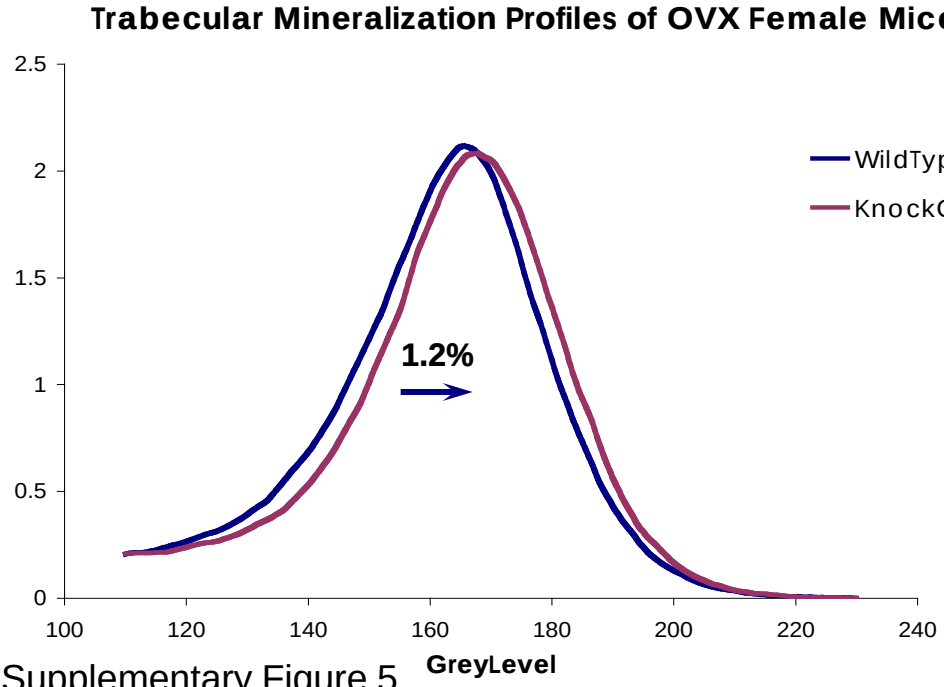


Supplementary Figure 4

Body weight in male and female littermate *Dpp4*+/+ and *Dpp4*-/- 7 month old mice * = p<.05, DPP-4 WT vs. DPP-4 KO

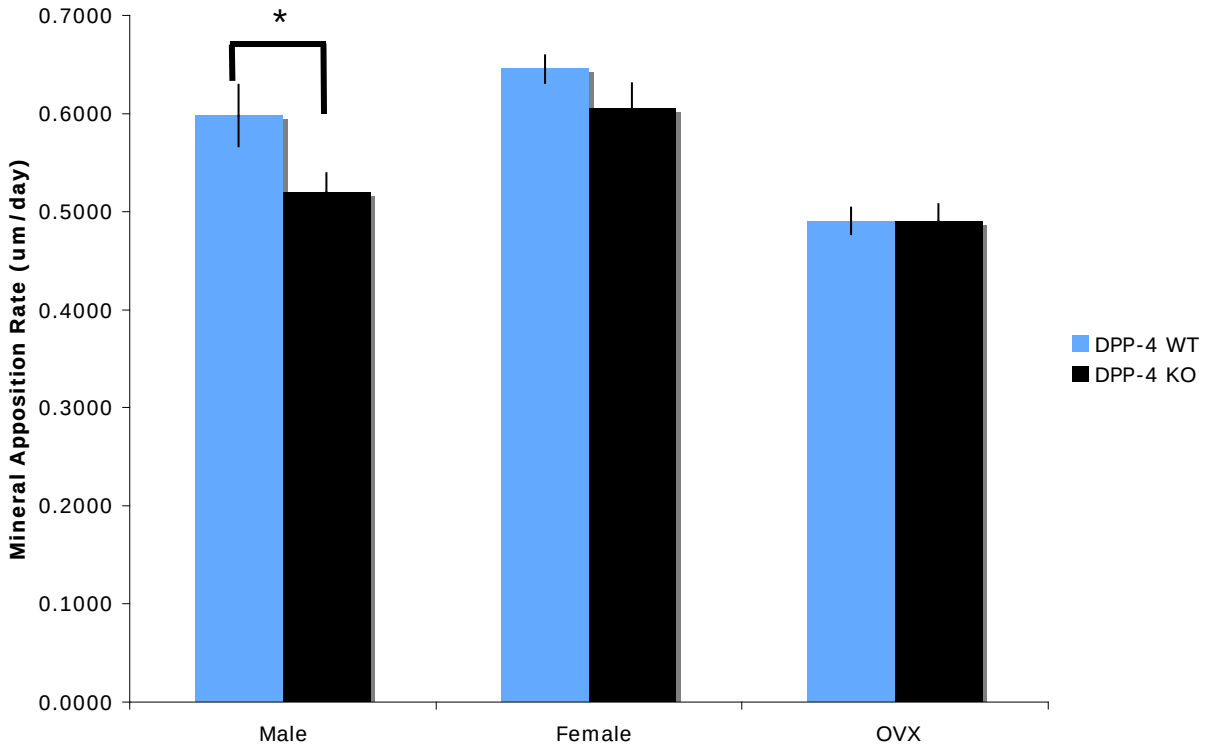






Average mineralization profiles for trabecular bone area in *Dpp4*+/+ and *Dpp4*-/- mice

Supplementary Figure 5



Supplementary Figure 6

Mineral apposition rate in male, female and OVX Dpp4+/+ (WT) and Dpp4-/- (KO) mice