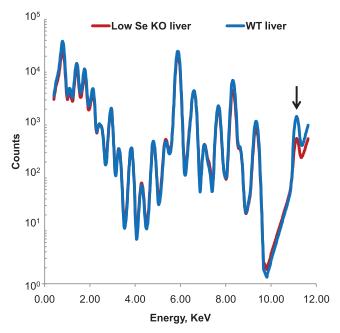
Supplementary Data



SUPPLEMENTARY FIG. S1. Integral X-ray fluorescence spectra of mouse liver samples. XFM spectra were obtained for paraffin-embedded sections (5 μ m) from livers of C57BL/6J mice (WT liver) on a regular diet, and the corresponding mice characterized by liver-specific Sec tRNA^{[Ser]Sec} knockout maintained on a Se-deficient diet (low Se KO liver). The *arrow* indicates the location of the Se peak. The XFM scan was obtained by using 13 keV incident energy with a dwell time of 4 sec per pixel and $0.4 \, \mu$ m steps through the sample.