



Supplementary Figure 1 Effects of zinc on the expression levels of zinc transporter family genes, NRF2 and Lgr5. A-Z: Small intestinal organoids

were cultured for five days, after which 30 mM ZnSO₄ was added. Following 24 hours of treatment, the organoids were subjected to 2 hours of hypoxia followed by reoxygenation. Zinc transporters include the Zrt- and Irt-like protein family and the zinc transporter family. All the data are presented as the means ± SEM. ^a*P*<0.05; ^b*P*<0.01; ^c*P*<0.001, ^d*P*<0.0001.