Reversal of hemochromatosis by apo-transferrin in non-transfused and transfused Hbbth3/+ (heterozygous b1/b2 globin gene deletion) mice

Hbbth3/+ → hepatocyte → red blood cell

↑ non-transferrin bound iron

↓ expression hepcidin

↓ hepcidin-25

↑ expression Fam132b (erythroferrone)

↑ expression hepcidin

↑ hepcidin-25

↓ expression Fam132b (erythroferrone)

↓ anemia

iron accumulation

spleen

liver

kidney

heart

Hbbth3/+ + ApoTf chronic treatment

non-transferrin bound iron

↓ anemia

normalisation tissue iron content

liver

kidney

heart

Gelderman et al., Haematologica, 2015