

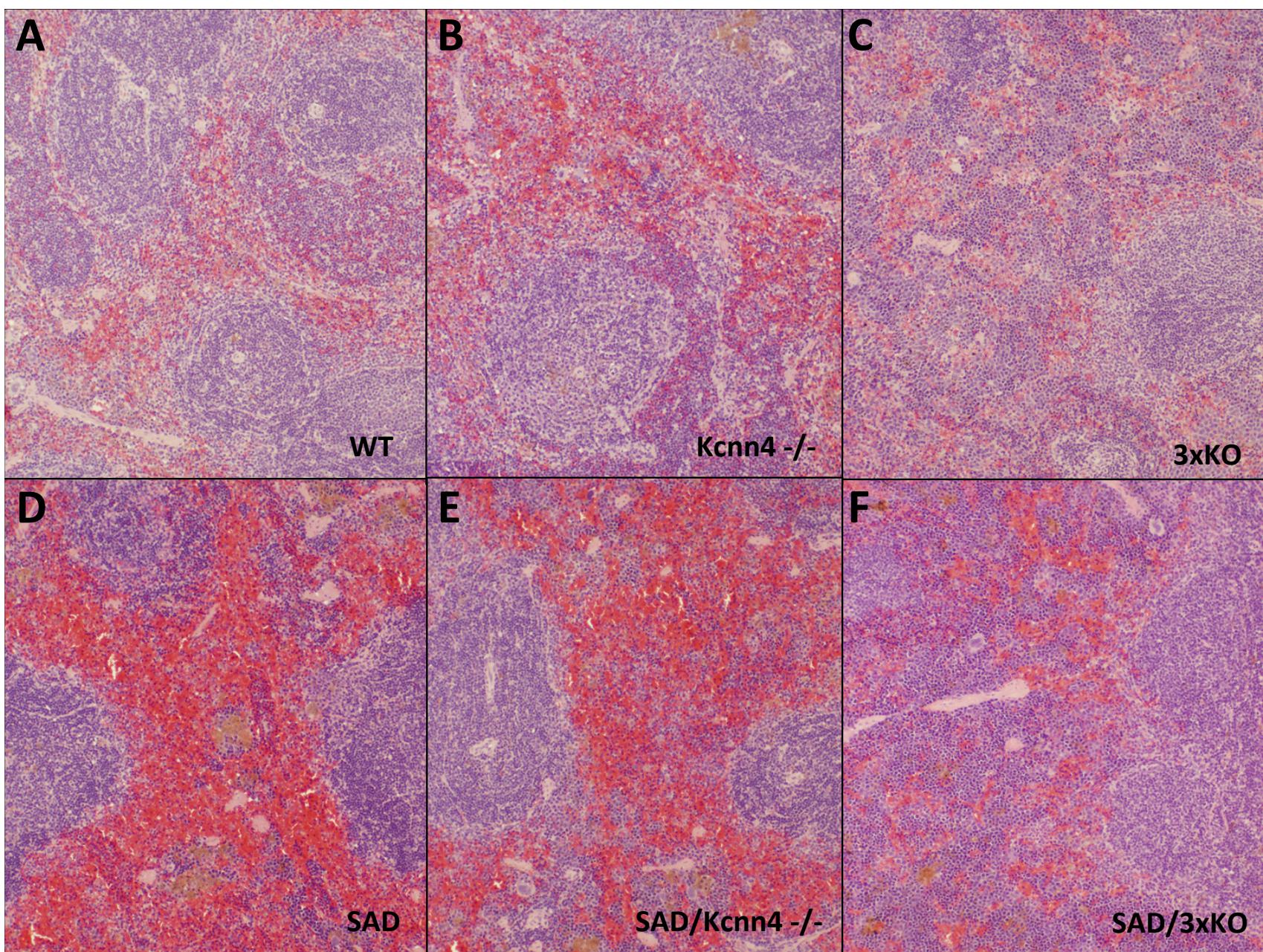
Supplemental Table 1. Plasma hematological indices from WT and SAD mice carrying individual and combined knockouts of *Kcnn4*, *Kcc1* and *Kcc3*.

Genotype	n	T. Bili (mg/dL)	LDH (U/L)	Iron (μg/dL)
WT ^{Kcnn4}	6	0.8±0.2	561.2±102	123.8±15
<i>Kcnn4</i> ^{-/-}	12	0.2±0**	335.8±41*	115.2±5
WT ^{SAD}	9	0.4±0.1	314.7±28	109.6±4.4
<i>Kcnn4</i> ^{-/-} ; <i>Kcc1</i> ^{-/-} ; <i>Kcc3</i> ^{-/-}	6	0.2±0.1	321.3±32	129.0±21
SAD	6	0.5±0.3	441.3±53*	99.4±4
SAD; <i>Kcnn4</i> ^{-/-}	6	0.1±0	390.2±60	109.5±6
SAD; <i>Kcnn4</i> ^{-/-} ; <i>Kcc1</i> ^{-/-} ; <i>Kcc3</i> ^{-/-}	6	0.2±0.1	371.3±45	119.2±7*

Supplemental Table 2. Spleen/weight Ratio stratified by sex.

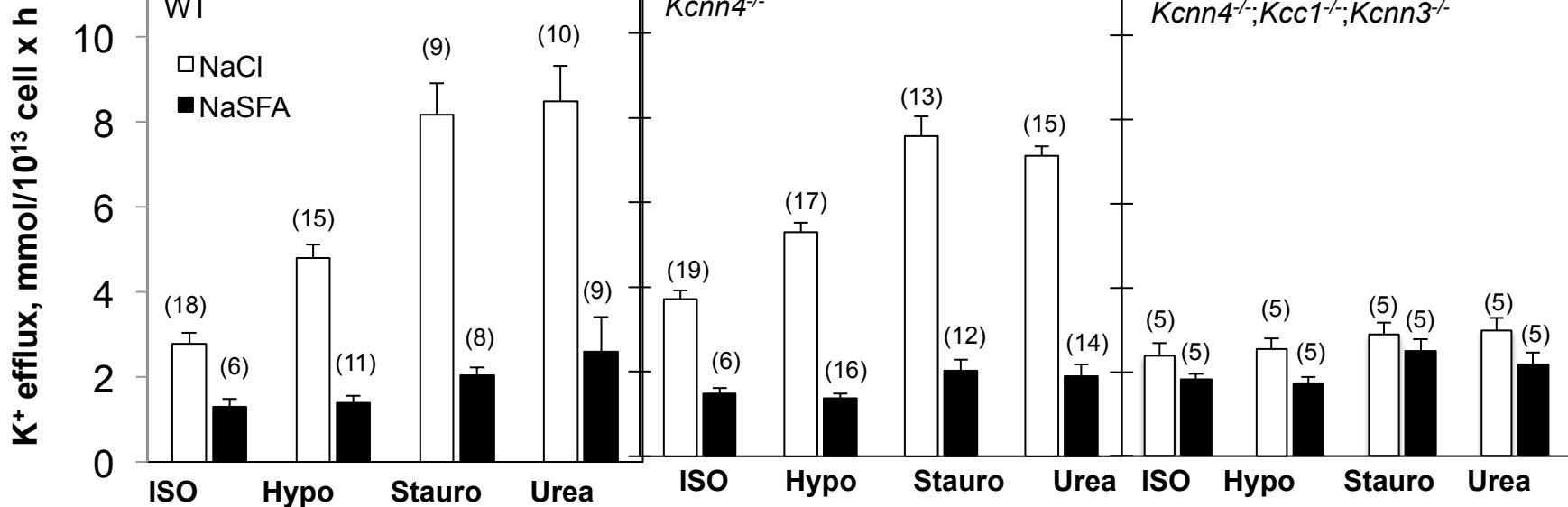
Genotype	Female	Male	p value
WT ^{C57}	3.7±0.1(29)	3.2±0.3 (4)	ns
WT ^{SAD}	3.65±.12 (48)	2.84±0.1 (72)	0.0001
WT ^{Kcnn4}	5.55±0.9 (73)	3.7±0.95 (81)	0.0001
Kcnn4 ^{-/-}	6.09±0.2 (95)	4.2±0.1 (72)	0.0001
2xKO	2.76±0.1 (39)	2.75±0.1(44)	ns
3xKO	7.78±0.4 (34)	7.4±0.3 (27)	ns
SAD	5.6±0.3 (44)	3.7±0.1 (54)	0.0001
SAD;Kcnn4 ^{-/-}	7.5±0.6 (32)	5.2±0.5 (45)	0.0001
SAD;2xKO	2.74±0.6 (7)	3.9±0.7 (8)	ns
SAD;3xKO	9.9±0.7 (22)	8.1±0.6 (19)	ns

Supplemental Figure 1



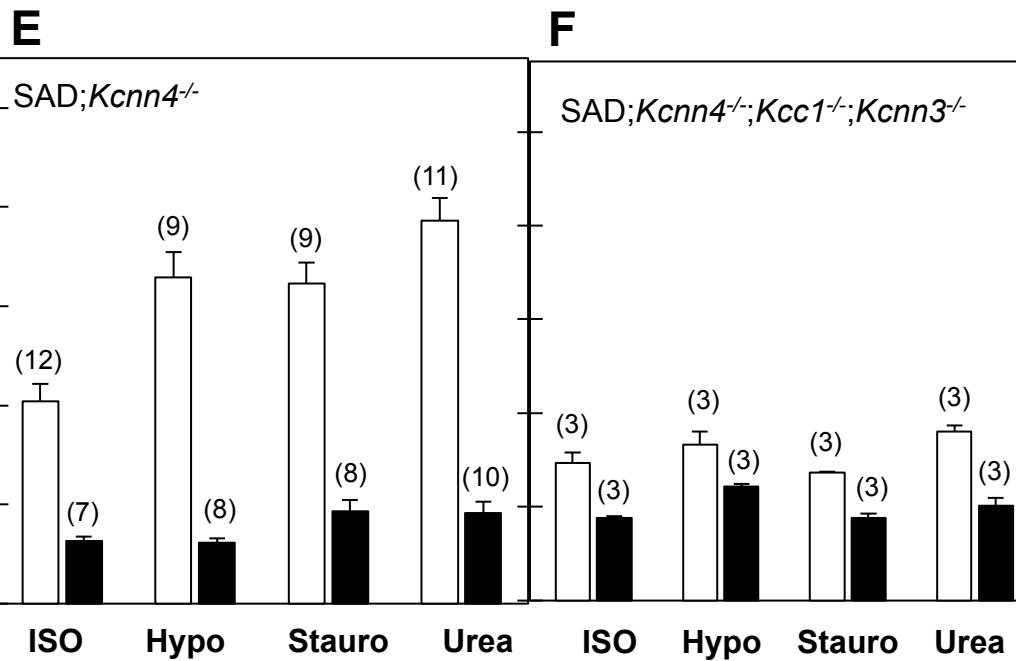
Supplemental Figure 2

A



B

Kcnn4^{-/-}



C

Kcnn4^{-/-},*Kcc1*^{-/-},*Kcnn3*^{-/-}

D

E

F

K⁺ efflux, mmol/10¹³ cell x h