

Alport Syndrome

Col4a3^{-/-} Mouse Model

Mice homozygous for the Col4a3 targeted mutation are a model for autosomal-recessive Alport syndrome. Animals bred on a 129/SvJ background develop glomerulonephritis and die at about 10 weeks of age. Starting at an age of 4 weeks, Col4a3^{-/-} mice and wild type littermates of mixed sex were treated with Ramipril or vehicle via drinking water. Treatment was continued until humane endpoints were reached.



Cosgrove D, Meehan DT, Grunkemeyer JA, Kornak JM, Sayers R, Hunter WJ, Samuelson GC. Collagen COL4A3 knockout: a

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Figure 2: Quantification of albumin in urine samples. Urine samples collected at treatment day 0, 10, 20, and 28. n = 6; mean \pm SEM. Two-way ANOVA with Bonferroni's *post hoc* test. *Col4a3-/- Vehicle vs. WT-Vehicle; #Col4a3-/- Ramipril vs. Col4a3-/- Vehicle; *p<0.05; ***p<0.001.

mouse model for autosomal Alport syndrome. Genes Dev. 1996 Dec 1;10(23):2981-92.

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