

Mouse model of chronic kidney disease (CKD): 5/6 Nephrectomy

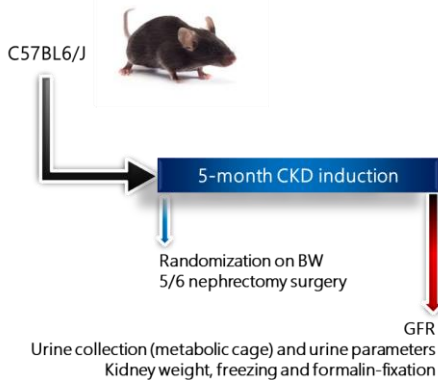
Benefit from this surgical model of chronic kidney disease to test your compounds targeting the disease.

Key benefits

- ✓ A surgical mouse model, on a C57BL6/J background, enabling the evaluation of drugs targeting chronic kidney diseases.
- ✓ Confirm your drug efficacy with non-invasive assessment of glomerular filtration rate, urine parameters and complete histopathological scoring.

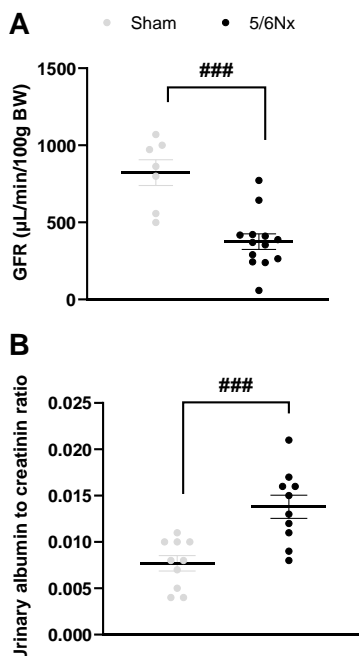
ANIMAL MODEL

- Background strain: C57BL6/J
- Gender/Weight: male, 8-week-old
- Surgery: 5/6 nephrectomy (5/6 Nx)
- Time: 0 to 5 months



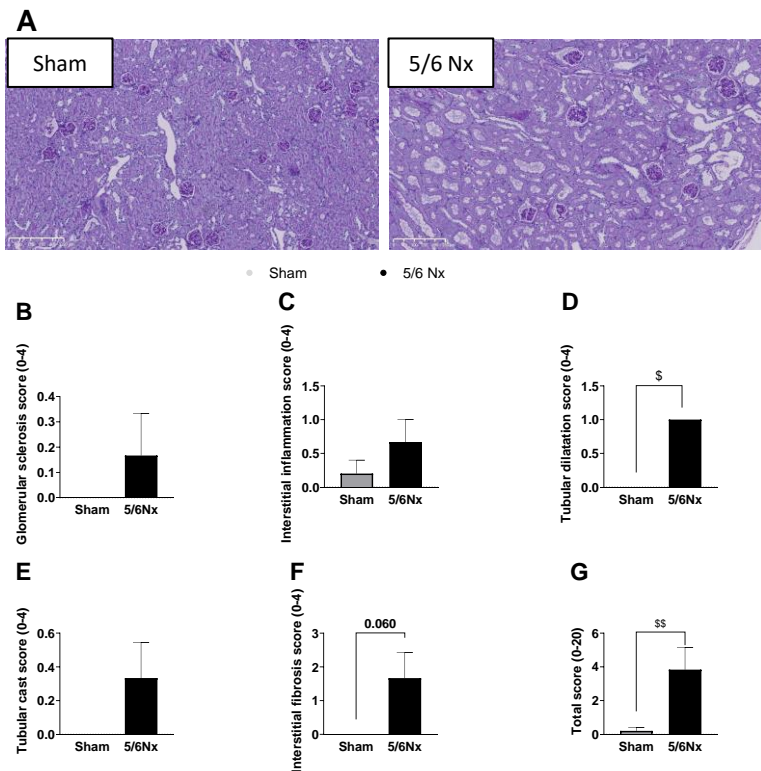
MODEL CHARACTERISTICS

1 – GFR DECLINE AND INCREASE OF URINARY ALBUMIN TO CREATININE RATIO IN 5/6 Nx MICE

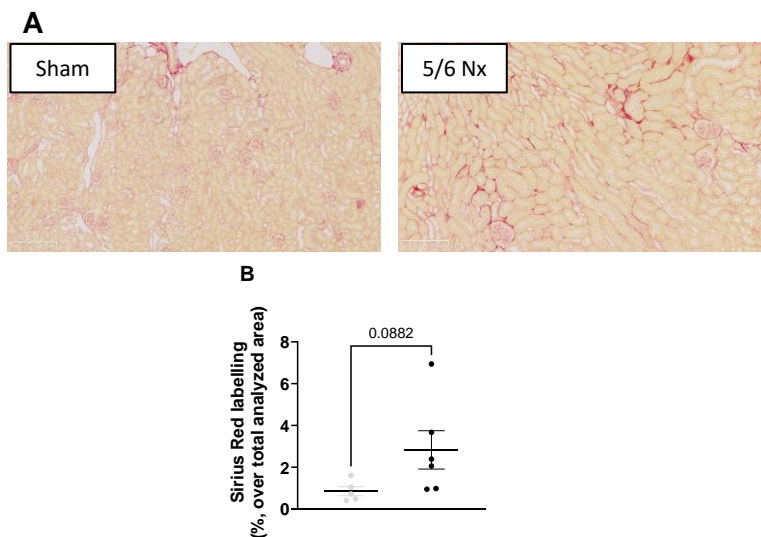


(A) Glomerular filtration rate and (B) urinary albumin to creatinine ratio at 5 months post-surgery. ### $p < 0.001$

2 – HISTOLOGY FEATURES IN THE REMNANT PIECE OF KIDNEY



PAS staining of remnant kidney: (A) Representative images (scale bar: 250 μm), (B) glomerular sclerosis score, (C) interstitial inflammation score, (D) tubular dilatation score, (E) interstitial fibrosis score, (G) total score. \$ $p < 0.05$, \$\$ $p < 0.01$



Sirius Red staining of remnant kidney: (A) Representative images (scale bar: 250 μm), (B) Percentage of Sirius Red labelling.