

UUO-induced mouse model of renal fibrosis

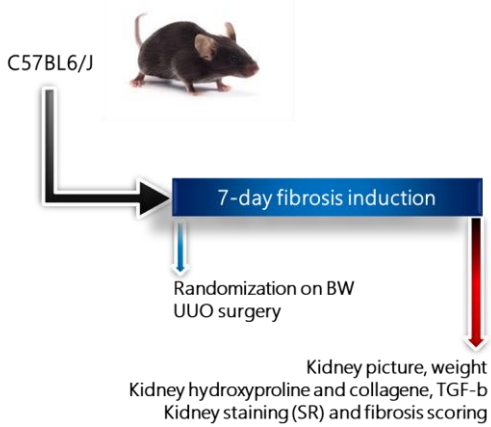
Physiogenex delivers the standard mouse model of renal fibrosis to rapidly evaluate your compounds targeting fibrosis

Key benefits

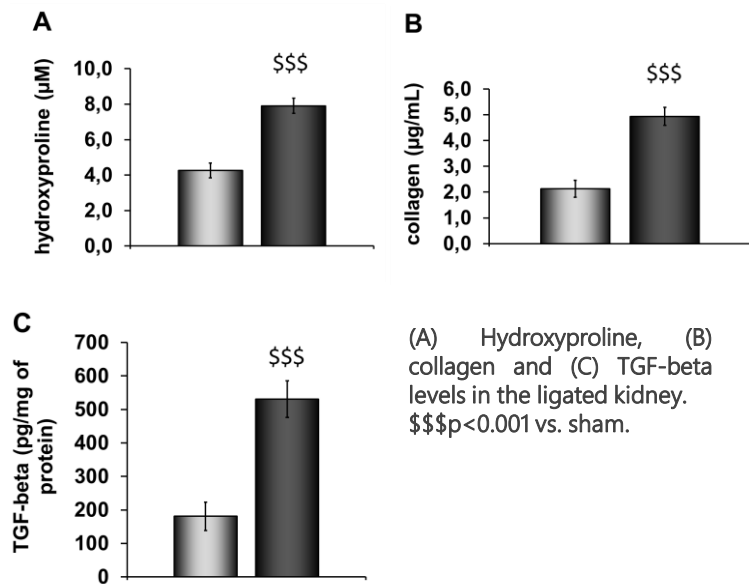
- ✓ A surgical and cost-effective animal model to rapidly evaluate the efficacy of your anti-fibrotic drug in just one week.
- ✓ Confirm the benefits of your test compounds with specific biochemical parameters and histopathology expertise.

EXPERIMENTAL DESIGN

- Background strain: C57BL6/J mice
- Age/Gender/Weight: 6 week-old, male, 23-25g
- Surgery: Unilateral Ureteral Obstruction (UUO), left kidney
- Time of induction: 7 days



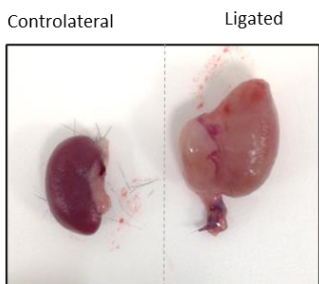
2-UUO RAISES FIBROSIS MARKERS HYDROXYPROLINE, COLLAGEN AND TGF-BETA LEVELS IN THE LIGATED KIDNEY



MODEL CHARACTERISTICS

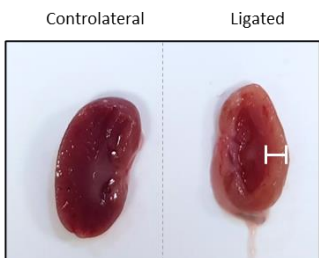
1-UUO INDUCES KIDNEY HYPERTROPHY

Entire kidney



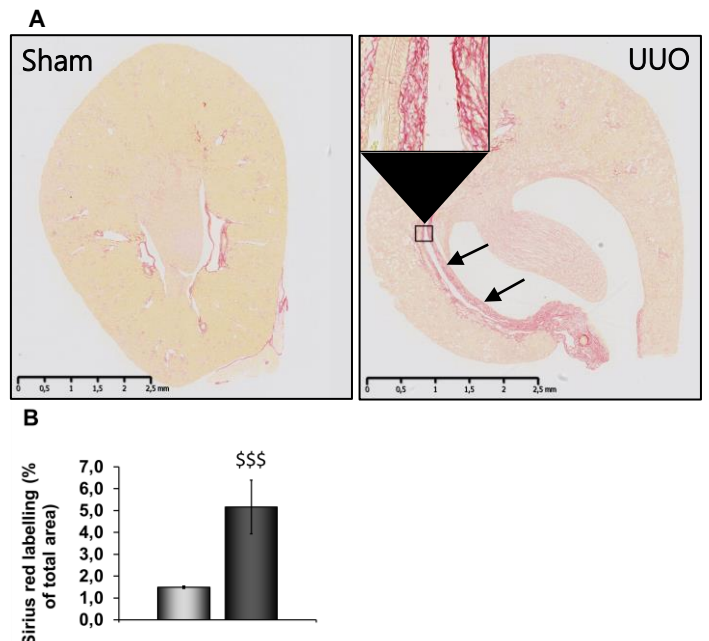
Representative pictures of entire contralateral and ligated kidneys

Sagittal cut



Representative pictures of sagittal cut of contralateral and ligated kidneys

3-UUO RAISES SIRIUS RED STAINING



(A) Representative pictures of Sirius red-stained sham- or ligated-kidney, (B) Percentage of Sirius red labelling relative to total area in ligated kidney. \$\$\$p < 0.001 vs. sham. Arrows show fibrotic area.