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

**MODEL CHARACTERISTICS**

1-UUO INDUCES KIDNEY HYPERTROPHY

**Entire kidney**

Controlateral Ligated

Representative pictures of entire contralateral and ligated kidneys

**Sagittal cut**

Controlateral Ligated

Representative pictures of sagittal cut of contralateral and ligated kidneys

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

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydroxyproline (µM)</td>
<td>$$$$$$</td>
<td>$$$$$$</td>
<td>$$$$$$</td>
</tr>
<tr>
<td>collagen (µg/mL)</td>
<td>0.0</td>
<td>1.0</td>
<td>5.0</td>
</tr>
<tr>
<td>TGF-beta levels</td>
<td>0.0</td>
<td>1.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

(A) Hydroxyproline, (B) collagen and (C) TGF-beta levels in the ligated kidney. $$\$\$\$$$p<0.001 vs. sham.

3-UUO RAISES SIRIUS RED STAINING

**A**

Sham UUO

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.