

# Unilateral ureteral obstruction (UUO) renal fibrosis model SMC's CRO services

## **Digest version**

The **<u>full version</u>** includes the following content.

- •All analysis data in UUO on day 7 and 14
- Experience with tested compound targets
- Histology guide
- Drug evaluation data (ALK5 (TGFβ receptor I) inhibitor) etc.

# Request for the full version material from here.

#### SMC Laboratories, Inc.

- Founded in October 2006
- A privately-held non-clinical CRO based in Tokyo, Japan;

specialized in research on fibrosis, inflammation and cancer

- CRO services
  - Non-clinical pharmacology
    - One of the leading CRO in liver research with Proprietary NASH-HCC (STAM<sup>™</sup>) Model
    - A wide range of In-vivo disease model mice for many different organs
  - Histological imaging services
  - Histological scoring: NAFLD activity score, fibrosis and inflammation scores etc.



Tokyo office (Japan)



LA office (USA)

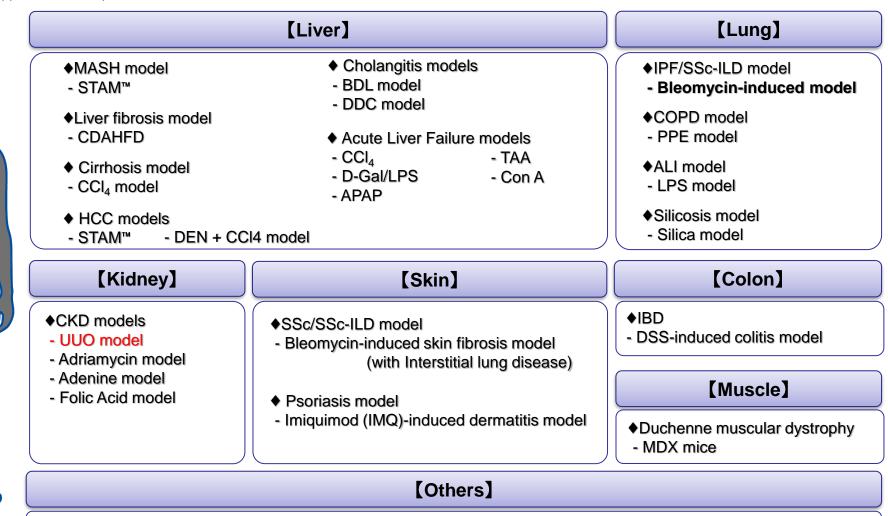
### **CRO** capability

- SPF-grade animal room:
  - 2080 mice
- Facility
  - Accreditation by MEXT\*
  - Sponsor audit (QAU)
  - Animal welfare audit by global pharmaceuticals



### SMC's model lineup

We are able to support the development with various models based on Inflammation and Fibrosis.



icv-STZ model (Alzheimer's disease)

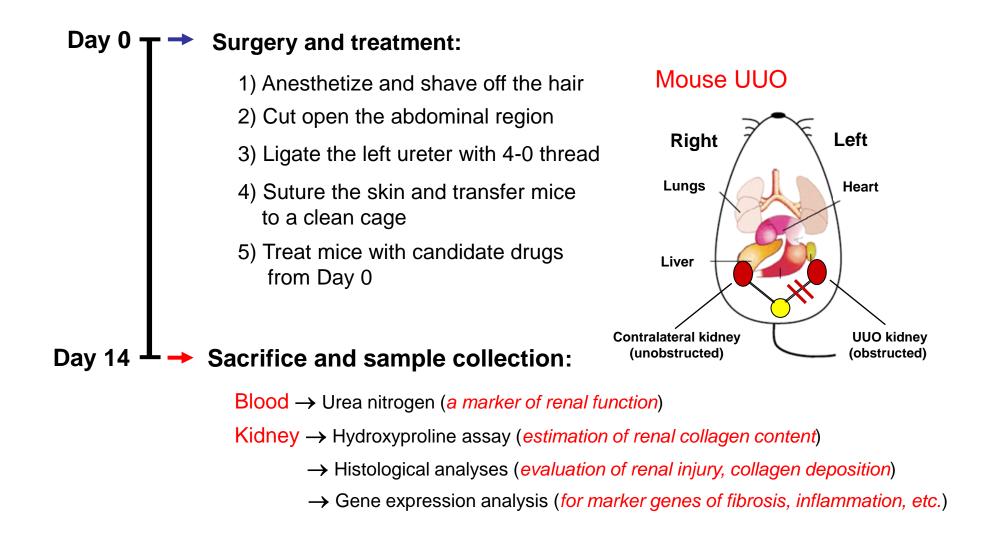
Xenograft model (Subcutaneous/Orthotopic)

Custom model









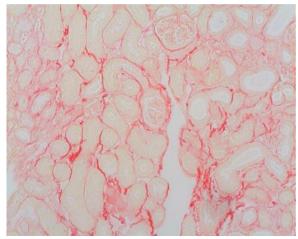


# Sirius red staining

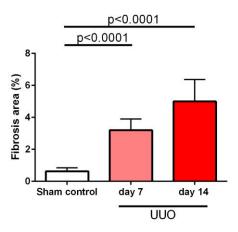
#### **Sham-control**



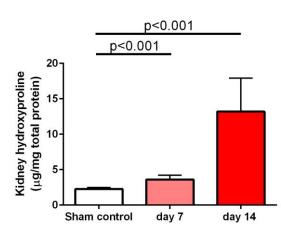
UUO



### Sirius red positive area



### Kidney hydroxyproline



Unpaired t-test Mean  $\pm$  SD

X200, corticomedullar region, Day 14 Positive area: red

### The UUO model exhibits;

- severe interstitial fibrosis with a statistically significant increase in the Sirius red-positive area
- · a 4-5 times increase in kidney hydroxyproline content