



## CHRONIC UNILATERAL URETERAL OBSTRUCTION

A MODEL FOR TUBULOINTERSTITIAL FIBROSIS, A COMMON FINAL FEATURE OF CHRONIC RENAL DISEASES

### MODEL

Accelerated tubulointerstitial fibrosis induced by unilateral ureteral obstruction.

### SPECIES

Mouse

### INTEREST

All the features of human obstructive nephropathy are obtained within 1 week.

### MODEL DESCRIPTION

Unilateral ureteral ligation leads to the development of tubulointerstitial fibrosis.

Reference substances: angiotensin-converting enzyme inhibitors, AT1 receptor antagonists.

### PARAMETERS EVALUATED

- Renal function
- Histomorphometry
- Inflammation
- Oxidative stress
- Apoptosis
- Proliferation
- Specific mRNA expression profile

### SCIENTIFIC PUBLICATIONS

- Schanstra JP et al, *Thromb Haemost* **89**: 735-40, 2003
- Schanstra JP et al, *J Clin Invest* **110**: 371-9, 2002

□ Collagen I  
▨ Collagen III

