

## Pressure overload-induced cardiac hypertrophy in mice

Gold standard and predictive models to study efficacy of compounds on cardiac hypertrophy and associated heart failure

### MODEL FEATURES

- C57Bl6J mice - Transverse aortic constriction (TAC) - 4 weeks
- Cardiac dysfunction / heart failure
- Cardiac remodeling with left ventricle dilation and hypertrophy

Reference compounds: ACE inhibitors, AT1 blockers

### KEY PARAMETERS

- Cardiac function and geometry (Echocardiography)
- Invasive left ventricle function (Millar probe)
- Histology, gene / protein expression, biomarkers assays

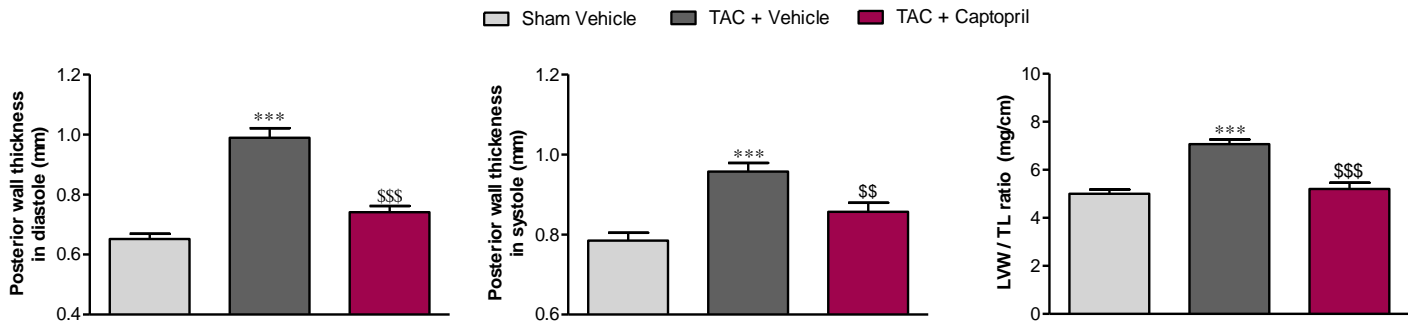
Please contact us for customized protocol

## PHARMACOLOGICAL VALIDATION WITH CAPTOPRIL, AN ACE INHIBITOR

Captopril (30mg/kg/day from 1 week post-TAC, for 4 weeks) – Echocardiography 5 weeks after TAC

(Full data package upon request)

### ➤ Captopril prevents left ventricle hypertrophy induced by aortic stenosis



### ➤ Captopril improves cardiac function and reduces left ventricle dilation

