

## Systemic Hypertension in rats

Gold standard model of essential hypertension with genetic predisposition

Predictive model to test efficacy of compounds on high blood pressure and related complications

### MODEL FEATURES

- Spontaneously hypertensive rats (SHR)
- High blood pressure
- Endothelial dysfunction

*Reference compounds: ACE inhibitors*  
*Please contact us for customized protocol*

### KEY PARAMETERS

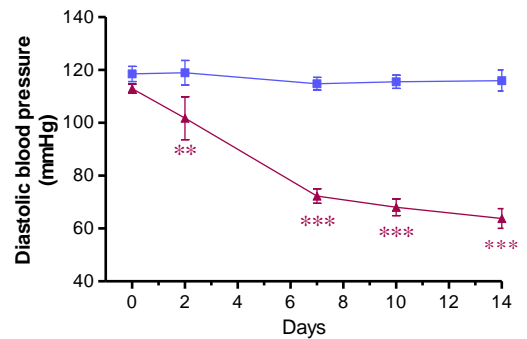
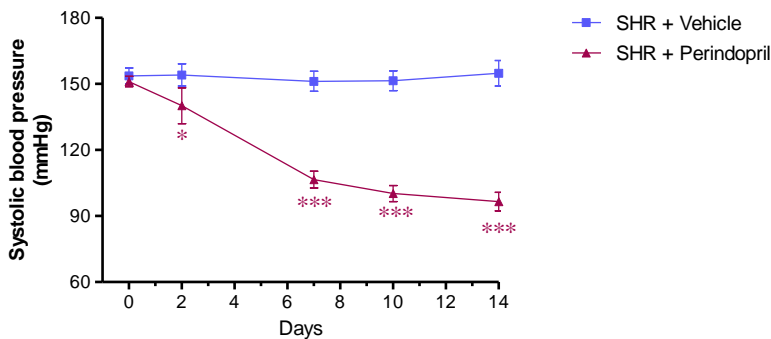
- Telemetry (blood pressure)
- Cardiac function and geometry (echography)
- Invasive left ventricle function (Millar probe)
- Vascular reactivity (Myograph)
- Histology, gene / protein expression, Biomarkers assays

## PHARMACOLOGICAL VALIDATION WITH PERINDOPRIL, AN ACE INHIBITOR

Telemetry monitoring of arterial pressure for 14 days – Perindopril treatment from day 1

(Full data package upon request)

### ➤ Perindopril progressively reduces systolic and diastolic blood pressure



### ➤ Perindopril improves endothelial relaxation in aortic rings from SHR rats

