



**References (2022-Present) on Hypertension  
Using ALZET® Osmotic Pumps**

**Q11346:** C. Lee, *et al.* Inhibition of miR-25 Ameliorates Cardiac Dysfunction and Fibrosis by Restoring Kruppel-like Factor 4 Expression. *International Journal of Molecular Sciences* 2023;24(15):

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 4 weeks; **ALZET Comments:** Dose (3 mg/kg/day); animal info (Male; 8 weeks old; Weighed about 20-25 g); peptides; cardiovascular

**Q11327:** P. Kmiec, *et al.* Differential Role of Aldosterone and Transforming Growth Factor Beta-1 in Cardiac Remodeling. *International Journal of Molecular Sciences* 2023;24(15):

**Agents:** Aldosterone **Vehicle:** Ethanol; saline; **Route:** SC; **Species:** Rat; **Strain:** Rat; **Pump:** 1002; **Duration:** 14 days; **ALZET Comments:** Dose: (0.35 mg/kg/day); 20% Ethanol; 0.9% NaCl used; controls received mp w/ vehicle; animal info (male 6 weeks); cardiovascular;

**Q11038:** J. Zicha, *et al.* Nitric oxide and salt resistance in Dahl rats: no role of inducible NO synthase. *Physiological Research* 2023;72(1):123-127

**Agents:** Aminoguanidine; 2-amino-5,6-dihydro-6-methyl-4H-1,3-thiazine **Vehicle:** Water; saline; **Route:** CSF/CNS (lateral cerebral ventricle); **Species:** Rat; **Strain:** Wistar; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose: AMG (2 mg/kg/day); AMT (0.5 mg/kg/day); Controls received mp w/ vehicle; animal info: Male 8-week-old outbred rats; Blood pressure measured via pressure transducer and a multichannel recorder; Blood pressure measurement see (pg.3 &4) fig.1,2,3 polyethylene catheter; AMG and AMT used as NOS II inhibitors; cardiovascular (blood pressure and high salt intake)

**Q11031:** J. Youwakim, *et al.* Neurovascular Coupling in Hypertension Is Impaired by IL-17A through Oxidative Stress. *International Journal of Molecular Sciences* 2023;24(4):

**Agents:** Angiotensin II; interleukin 17A, recombinant **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; 1007D; **Duration:** 14 days; 7 days; **ALZET Comments:** Dose: Ang II 600 ng/kg/min, IL-17A 50 pg/kg/h; Controls received mp w/ vehicle; animal info: male, 10-12 weeks old; Blood pressure measured via Tail cuff; Blood pressure results see (pg.2) cardiovascular; hypertension

**Q11220:** N. Yang, *et al.* Sclareol attenuates angiotensin II-induced cardiac remodeling and inflammation via inhibiting MAPK signaling. *Phytotherapy Research* 2023;37(2):578-591

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1004; **Duration:** 28 days; **ALZET Comments:** Dose: Ang II 1,000 ng/kg/min; Controls received mp w/ vehicle; animal info: male 18–22 g; post op. care: disinfection treatment, 1 g/L neomycin in drinking water; Blood pressure measured via: tail cuff; Blood pressure measurement results (see pg. 3) Fig.1B; cardiovascular;

**Q11224:** L. H. Tanriverdi, *et al.* Activation of the Mas receptors by AVE0991 and MrgD receptor using alamandine to limit the deleterious effects of Ang II-induced hypertension. *Fundamental and Clinical Pharmacology* 2023;37(1):60-74

**Agents:** Ang II **Vehicle:** Saline; DMSO; **Route:** SC; IP; **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** 2004; **Duration:** 40 days; **ALZET Comments:** Dose: Ang II (80 ng/kg/min); animal info: 12–16 weeks 300–400 g, Blood pressure measured via: tail-cuff plethysmography; Blood pressure measurement results (see pg.63 fig. 1; cardiovascular; mentions prev study where Ang II delivered for 2 wks at 200 ng/kg/min

**Q11002:** D. Solise, *et al.* Inhibition of angiotensin II type 1 receptor agonistic autoantibodies by direct binding does not impact reduced uterine perfusion pressure offspring birthweight and blood pressure at adulthood. *American Journal of Obstetrics and Gynecology MFM* 2023;5(6):100945

**Agents:** n7AAc **Vehicle:** Saline; **Route:** Not Stated; **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** 2002; **Duration:** Not Stated; **ALZET Comments:** Dose (24 ug/d); Controls received mp w/ vehicle; animal info: rat dams w/ reduced uterine perfusion pressure; mean arterial pressure measured; peptides; cardiovascular; Preeclampsia



**Q10996:** S. Shen, *et al.* Leonurine attenuates angiotensin II-induced cardiac injury and dysfunction via inhibiting MAPK and NF-kappaB pathway. *Phytomedicine* 2023;108(154519)

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 4 weeks;  
**ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: non-hypertensive; Blood pressure measured via Tail cuff; Blood pressure measurement (p.2) Fig. 1C; cardiovascular; Therapeutic indication (Hypertensive heart failure);

**Q10985:** L. A. Ramirez, *et al.* Perinatal intermittent hypoxia increases early susceptibility to ANG II-induced hypertension in adult male but not in female Sprague-Dawley rats. *American Journal of Physiology Renal Physiology* 2023;324(5):F483-F493

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** 2001; **Duration:** 12 days;  
**ALZET Comments:** Dose (400 ng/kg/min); animal info: Female 15 wk of age; Blood pressure measured via: telemetry; BP measurement results (see pg. 487); cardiovascular; hypertension, intermittent hypoxia

**Q10981:** L. Pioppi, *et al.* FTIR Analysis of Renal Tissue for the Assessment of Hypertensive Organ Damage and proANP(31-67) Treatment. *International Journal of Molecular Sciences* 2023;24(6):

**Agents:** Atrial natriuretic peptide 31-67, pro- **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** DSS; **Pump:** Not Stated;  
**Duration:** Not Stated;  
**ALZET Comments:** Dose (50 ng/kg per day); Controls received mp w/ vehicle; animal info: male rats (150g initially); nephrology; cardiovascular (hypertension)

**Q10979:** Y. Peng, *et al.* EglN1(Tie2Cre) Mice Exhibit Similar Therapeutic Responses to Sildenafil, Ambrisentan, and Treprostinil as Pulmonary Arterial Hypertension (PAH) Patients, Supporting EglN1(Tie2Cre) Mice as a Useful PAH Model. *International Journal of Molecular Sciences* 2023;24(3):

**Agents:** Treprostinil **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** EglN1Tie2Cre; **Pump:** 1004; **Duration:** 70 days;  
**ALZET Comments:** Dose: 110 ng/kg/min; animal info: C57BL/6J background; male and female 5 weeks; pumps primed for 48 hrs; post op. care: analgesia with buprenorphine injections 2x; Blood pressure measurement (see pg. 3 ) Fig. A, B; cardiovascular; pulmonary arterial hypertension

**Q10974:** Z. D. Pang, *et al.* YAP-galectin-3 signaling mediates endothelial dysfunction in angiotensin II-induced hypertension in mice. *Cellular & Molecular Life Sciences* 2023;80(2):38

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Gal-3<sup>-/-</sup>; **Pump:** 2002; **Duration:** 2 weeks;  
**ALZET Comments:** Dose (0.75 mg/kg/day); Controls received mp w/ vehicle; animal info: male 8-week old; Blood pressure measured via tail cuff; cardiovascular (hypertension);

**Q11063:** K. Okuno, *et al.* Infused juice concentrate of Japanese plum *Prunus mume* attenuates inflammatory vascular remodeling in a mouse model of hypertension induced by angiotensin II. *Hypertension Research* 2023;46(8):1923-1933

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 2 weeks;  
**ALZET Comments:** Dose: 1000 ng/kg/min; controls received mp w/ vehicle; animal info: 8 to 10-week-old male; blood pressure measured via Tail cuff; blood pressure results (p.1929) Fig. 4; cardiovascular; hypertension

**Q10971:** Y. Okamura, *et al.* Human Omentin-1 Administration Ameliorates Hypertensive Complications without Affecting Hypertension in Spontaneously Hypertensive Rats. *International Journal of Molecular Sciences* 2023;24(4):

**Agents:** Omentin-1, human **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** SHR; **Pump:** 2002; **Duration:** 14 days;  
**ALZET Comments:** Dose (18 ug/kg/day); Controls received mp w/ vehicle; animal info: Male WKY and SHR (65–68-week-old); Blood pressure measured via: Tail cuff; Blood pressure measurement results (pg.2) fig.1; cardiovascular; (hypertension)

**Q11062:** M. Nugent, *et al.* Sexual dimorphism in the closure of the hippocampal postnatal critical period of synaptic plasticity after intrauterine growth restriction - link to oligodendrocyte and glial dysregulation. *Developmental Neuroscience* 2023;

**Agents:** U-46619 **Vehicle:** Ethanol; **Route:** IP; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1007D; **Duration:** Not Stated;  
**ALZET Comments:** Dose: 4000 ng/uL; 0.5% ethanol used; controls received mp w/ vehicle; animal info: pregnant mice; U-46619 is a thromboxane A<sub>2</sub>-analog; cardiovascular (hypertension)



**Q10970:** A. Nenmar, *et al.* Assessment of the Hepatotoxicity of Intratracheally Instilled Silver Nanoparticles in Hypertensive Mice. Hamdan Medical Journal 2023;

**Agents:** Angiotensin II **Vehicle:** Saline; PEG; **Route:** SC; **Species:** Mice; **Strain:** BALB/c; **Pump:** 2006; **Duration:** Not Stated; **ALZET Comments:** Dose (0.75 Mg/kg/day); Controls received mp w/ vehicle; animal info: Eight to 10-week-old mice both genders weighing 20–25 g; functionality of mp verified by Ang II plasma concentration; Blood pressure measured via: computer-based tail-cuff manometry system;  $136 \pm 2$  mmHg -  $81 \pm 1$  mmHg pg.4 (result); cardiovascular; (hypertension)

**Q11061:** A. Nemmar, *et al.* Impact of Intratracheal Administration of Polyethylene Glycol-Coated Silver Nanoparticles on the Heart of Normotensive and Hypertensive Mice. International Journal of Molecular Sciences 2023;24(10):

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** CSF/CNS; **Species:** Mice **Strain:** BALB/c; **Pump:** 2006; **Duration:** 28 days; **ALZET Comments:** Dose (0.75 mg/kg/day); 0.15 mol/L NaCl and 0.01-N acetic acid used; controls received mp w/ vehicle; animal info: both sexes, aged 8 to 10 weeks, 20 to 25 g); blood pressure measured via tail cuff; blood pressure measurement results (p.4) Fig. 2; functionality of mp verified by plasma levels; cardiovascular (hypertension)

**Q10969:** A. Nemmar, *et al.* Waterpipe smoke inhalation potentiates cardiac oxidative stress, inflammation, mitochondrial dysfunction, apoptosis and autophagy in experimental hypertension. Biomedicine & Pharmacotherapy 2023;158(114144

**Agents:** Angiotensin II **Vehicle:** Saline; acetic acid; **Route:** SC; **Species:** Mice; **Strain:** BALB/c; **Pump:** 2006; **Duration:** 6 weeks; **ALZET Comments:** Dose (0.75 mg/kg/day); animal info: both genders (6–8 weeks old); Blood pressure measured via: noninvasive tail-cuff manometry system; Blood pressure measurement results (see pg.4) Fig.1; cardiovascular; (hypertension)

**Q11140:** X. J. Liu, *et al.* Minocycline and Pyrrolidine Dithiocarbamate Attenuate Hypertension via Suppressing Activation of Microglia in the Hypothalamic Paraventricular Nucleus. Tohoku Journal of Experimental Medicine 2023;259(2):163-172

**Agents:** Ang II **Vehicle:** Saline; **Route:** IV (femoral; vena cava); **Species:** Rat; **Strain:** SD; **Pump:** Not Stated; **Duration:** 4 weeks; **ALZET Comments:** Dose (0.6 µg/hr); 0.3% NaCl used; Controls received mp w/ vehicle; animal info (Male; Weighed 275-300 g); peptides; polyethylene catheter; cardiovascular (hypertension)

**Q10957:** Y. Li, *et al.* Simultaneous late-gadolinium enhancement and T1 mapping of fibrosis and a novel cell-based combination therapy in hypertensive mice. Biomedicine & Pharmacotherapy 2023;158(114069

**Agents:** Serelaxin **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1007D; **Duration:** 7 days; **ALZET Comments:** Dose (0.5/mg/kg/day); animal info (12 week-old male K/DOCA/salt injured mice, weighing approximately 25–30 g); Blood pressure measured via Tail cuff; Blood pressure measurement (p.9) see Fig. 3; cardiovascular;

**Q11135:** M. Li, *et al.* Baicalin mitigates hypertension-linked alterations in the intestinal lymphatic vasculature in part through preserving the functional barrier integrity of lymphatic endothelial cells. Biomedicine & Pharmacotherapy 2023;160(

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1002; **Duration:** 2 weeks; **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; 8 weeks old; Weighed about 25 g); Blood pressure measured via tail-cuff method; peptides; cardiovascular;

**Q11051:** J. C. Li, *et al.* Angiotensin II mediates hypertensive cardiac fibrosis via an Erbb4-IR-dependent mechanism. Molecular Therapy Nucleic Acids 2023;33(180-190

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 28 days; **ALZET Comments:** Dose (1.46 mg/kg/day); controls received mp w/ vehicle; animal info: age of 8–10 weeks; blood pressure measured via noninvasive tail cuff; Blood pressure measurement results see (p.181) Fig.1 C; cardiovascular, Hypertensive cardiovascular disease; "Indeed, chronic Ang II infusion markedly upregulated cardiac Erbb4-IR, which was associated with hypertension and development of hypertensive cardiac disease, as demonstrated by significant reductions in LVEF and LVFS and increases in LV mass and cardiac fibrosis." p.4

**Q11121:** J. D. Kim, *et al.* Increased angiotensin II coupled with decreased Adra1a expression enhances cardiac hypertrophy in pregnancy-associated hypertensive mice. Journal of Biological Chemistry 2023;299(3):102964

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** WT; C57BL/6J; **Pump:** 1002 **Duration:** 6 d **ALZET Comments:** Dose (2 mg/kg/day); Controls received mp w/ vehicle; animal info (Female; pregnant; 10-12 w); BP measured via tail-cuff; cardiovascular;



- Q11104:** K. Karimi Galougahi, *et al.* beta3 adrenergic agonism: A novel pathway which improves right ventricular-pulmonary arterial hemodynamics in pulmonary arterial hypertension. *Physiological Reports* 2023;11(1):e15549  
**Agents:** CL316243 **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** FVB/N; **Pump:** Not Stated; **Duration:** 2 w  
**ALZET Comments:** Dose: (40 µg/kg/h); Controls received mp w/ vehicle; animal info (Male Weighed 20-25 g; 10-16 weeks old); receptor agonist (CL316243 is a B3 AR agonist); systolic pressure measured; cardiovascular; Therapeutic indication (Pulmonary arterial hypertension);
- Q11118:** D. Jiang, *et al.* Analysis of Mechanisms for Increased Blood Pressure Variability in Rats Continuously Infused with Angiotensin II. *Journal of the Renin Angiotensin Aldosterone System* 2023;2023(4201342)  
**Agents:** Angiotensin II **Vehicle:** Acetic acid; **Route:** SC; **Species:** Rat; **Strain:** Wistar; **Pump:** 2002; **Duration:** 14 days;  
**ALZET Comments:** Dose (5.2 µg/kg/h); Controls received mp w/ vehicle; animal info (Male; 8 weeks old; Weighed 260-300 g); Blood pressure measured via tail-cuff method; peptides; cardiovascular; hypertension
- Q11042:** P. Jia, *et al.* Liensinine improves AngII-induced vascular remodeling via MAPK/TGF-beta1/Smad2/3 signaling. *Journal of Ethnopharmacology* 2023;317(116768)  
**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated;  
**Duration:** Not Stated;  
**ALZET Comments:** Dose: (500 ng/kg/min); controls received mp w/ vehicle; animal info (6-8 weeks; spf male; blood pressure measured via Kent non-invasive caudal system; Blood pressure results see (p.6) cardiovascular; hypertension
- Q10524:** Z. Fu, *et al.* Mutagenesis of the cleavage site of (pro)renin receptor abrogates aldosterone-salt-induced hypertension and renal injury in mice. *American Journal of Physiology* 2023;324(1):F1-F11  
**Agents:** Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** PRR R279V/L28V mutant; **Pump:** 1002;  
**Duration:** 14 days;  
**ALZET Comments:** Dose (0.4 mg/kg/day); Controls received mp w/ vehicle; animal info (Male; mice; 16-20 weeks old); blood pressure measured with implantable radiotelemetric device; cardiovascular (hypertension)
- Q11306:** H. B. Figueiredo Galvao, *et al.* Proteasome inhibition reduces plasma cell and antibody secretion, but not angiotensin II-induced hypertension. *Frontiers in Cardiovascular Medicine* 2023;10(1184982)  
**Agents:** Ang II **Vehicle:** Acetic acid in saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL6/J; **Pump:** 2004; **Duration:** 28 days;  
**ALZET Comments:** Dose (0.7 mg/kg/day); 0.1% acetic acid in saline used; animal info (Male; 8-14 weeks old; Weighed about 30 g); Blood pressure measured via tail-cuff method; peptides; immunology;
- Q11295:** Z. Fang, *et al.* Gasdermin D affects aortic vascular smooth muscle cell pyroptosis and Ang II-induced vascular remodeling. *Heliyon* 2023;9(6):e16619  
**Agents:** Angiotensin II **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1004; **Duration:** 4 weeks;  
**ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; 6-8 weeks old); Blood pressure measured via tail cuff method; peptides; cardiovascular;
- Q11292:** Z. Fang, *et al.* MicroRNA-31 regulates TNF-alpha and IL-17A co-induced-endothelial cell apoptosis by repressing E2F6. *Biochemical and Biophysical Research Communications* 2023;666(76-82)  
**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 14 days;  
**ALZET Comments:** Dose (750 ng/kg/min); 0.9% NaCl used; Controls received mp w/ vehicle; animal info (Male; 8-10 weeks old); peptides; cardiovascular;
- Q11271:** T. W. Dorey, *et al.* PDE4D mediates impaired beta-adrenergic receptor signalling in the sinoatrial node in mice with hypertensive heart disease. *Cardiovascular Research* 2023;119(17):2697-2711  
**Agents:** Ang II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 3 w  
**ALZET Comments:** Dose (2.5 mg/kg/day); controls received mp w/ vehicle; animal info (male 13 -16 weeks); cardiovascular;



**Q11265:** J. Deng, *et al.* Ghrelin improves endothelial function and reduces blood pressure in Ang II-induced hypertensive mice: Role of AMPK. *Clinical and Experimental Hypertension* 2023;45(1):2208774

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2002; **Duration:** 4 weeks;  
**ALZET Comments:** Dose (400 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; 12 weeks old); Blood pressure measured via tail-cuff method; peptides; cardiovascular;

**Q11098:** X. Dai, *et al.* Thymus transplantation regulates blood pressure and alleviates hypertension-associated heart and kidney damage via transcription factors FoxN1 pathway. *International Immunopharmacology* 2023;116(109798)

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2006;  
**Duration:** Not Stated;  
**ALZET Comments:** Dose (1000 ng/kg/d); Controls received mp w/ vehicle; animal info (Male; 8 weeks old; Avg weight 20 g); Blood pressure measured via tail-cuff method, see Fig. 1; peptides; cardiovascular (hypertension)

**Q10459:** E. O. Cruz-Lopez, *et al.* Blood pressure-independent renoprotective effects of small interference RNA targeting liver angiotensinogen in experimental diabetes. *British Pharmacological Society* 2023;180(1):80-93

**Agents:** Valsartan; Captopril **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Strain:** Ren2; **Pump:** 2ML4; **Duration:** 3 weeks;  
**ALZET Comments:** Dose: Valsartan (4 mg/kg/day); Captopril (6 mg/kg/day); animal info: Male, heterozygous rats (10-week-old; weight 300–500 g); Blood pressure measured via: radiotelemetry transmitters; Blood pressure results see (pg.5) antihypertensive;

**Q11247:** M. Bode, *et al.* Complement component C3 as a new target to lower albuminuria in hypertensive kidney disease. *British Journal of Pharmacology* 2023;180(18):2412-2435

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 2 weeks;  
**ALZET Comments:** Dose (1.5 ng/g/min); animal info (Male); Blood pressure measured via tail cuff method; peptides; cardiovascular; nephrology (hypertensive kidney disease)

**Q10950:** P. J. Azurmendi, *et al.* Behavior of the renal kallikrein in spontaneously hypertensive rats: Influence of sexual hormones and aldosterone-sensitive distal nephron ion channels. *Peptides* 2023;160(170925)

**Agents:** Benzamil **Vehicle:** Methanol; **Route:** SC; **Species:** Rat; **Strain:** SHR; **Pump:** Not Stated; **Duration:** 3 days;  
**ALZET Comments:** Dose (0.175 mg/day); 4% glucose solution used; Controls received mp w/ vehicle; animal info: SHR of either sex, (4 to week 12 of age.); Blood pressure measured via SBP was measured by an indirect technique using an MK III S Physiograph; Blood pressure measurement results (see pg. 3 fig. 1); Bz is an ENac blocker; cardiovascular; (hypertension)

**Q11234:** F. Ali, *et al.* Quercetin attenuates angiotensin II-induced proliferation of vascular smooth muscle cells and p53 pathway activation in vitro and in vivo. *Biofactors* 2023;49(4):956-970

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 w  
**ALZET Comments:** Dose (500 ng/kg/min); Controls received mp w/ saline; animal info (Male; 8 weeks old); Blood pressure measured via CODA noninvasive blood pressure system; peptides; cardiovascular (hypertension)

**Q10889:** W. Zhao, *et al.* Endothelial Cyclin I Reduces Vulnerability to Angiotensin II-Induced Vascular Remodeling and Abdominal Aortic Aneurysm Risk. *Microvascular Research* 2022;142(104348)

**Agents:** Angiotensin II **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** Wild-type; **Pump:** 1002; **Duration:** 28 days;  
**ALZET Comments:** Dose (0.4 mg/kg/day); Controls received mp w/ vehicle; Animal Info (, 16-22 wk old male); Blood Pressure Measured via Tail Cuff Method; Peptides; Cardiovascular;

**Q10874:** Z. Zhang, *et al.* Elabela Alleviates Ferroptosis, Myocardial Remodeling, Fibrosis and Heart Dysfunction in Hypertensive Mice by Modulating the IL-6/STAT3/GPX4 Signaling. *Free Radical Biology & Medicine* 2022;181(130-142)

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 2 w  
**ALZET Comments:** Dose (1.5 mg/kg/d); Controls received mp w/ vehicle; animal info (Male; 10 weeks old; Wild-type); Blood pressure measured via tail-cuff method; peptides; cardiovascular; Therapeutic indication (Hypertensive heart diseases);



**Q10852:** F. Yu, *et al.* Chronic Reduction of Store Operated Ca(2+) Entry is Viable Therapeutically but is Associated with Cardiovascular Complications. *The Journal of Physiology* 2022;600(22):4827-4848

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2004; **Duration:** 2 weeks; **ALZET Comments:** Dose (2 ng/min/g); 0.9% saline vehicle used; Controls received mp w/ vehicle; animal info: Male mice (8 weeks old); Blood pressure measured via Tail cuff; Blood pressure measurement (p.4842) Fig. 5;

**Q10847:** A. Yin, *et al.* Exercise-Derived Peptide Protects Against Pathological Cardiac Remodeling. *EBioMedicine* 2022;82(104164)

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose: (1.5mg/kg/day); Controls received mp w/ vehicle; animal info: Eight-week-old male mice (22-25 g); Blood pressure measured via: tail cuff (Male systolic) 118.7 - 5.7mmHg (Female systolic) 112.8 - 5.9 mmHg. (Male diastolic) 74.2 - 7.2 mmHg (Female diastolic) 70.8 - 5.0 mmHg (see pg.4); cardiovascular; "The results provide new insights into exercise-afforded cardioprotection in pathological cardiac remodeling and highlight the therapeutic potential of CCDC80tide in heart failure treatment." (pg.1)

**Q10846:** C. Ye, *et al.* Chronic Infusion of ELABELA Alleviates Vascular Remodeling in Spontaneously Hypertensive Rats vVa Anti-Inflammatory, Anti-Oxidative and Anti-Proliferative Effects. *Acta Pharmacologica Sinica* 2022;43(10):2573-2584

**Agents:** ELA-21 **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** Wistar-Kyoto; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose (6 nmol/d; 1 nmol/μL); Controls received mp w/ vehicle; animal info: Male; 12 weeks old; Blood pressure higher than 150 mmHg); Blood pressure measured via tail cuff system; functionality of pump verified by plasma levels (Fig. 4a); cardiovascular; Therapeutic indication (Hypertension);

**Q10841:** T. Yang, *et al.* Cell-Specific Actions of the Prostaglandin E-Prostanoid Receptor 4 Attenuating Hypertension: A Dominant Role for Kidney Epithelial Cells Compared With Macrophages. *Journal of the American Heart Association* 2022;11(19):e026581

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 3 weeks; **ALZET Comments:** Dose (1000 ng/kg/min); animal info: male; Blood pressure measured via radiotelemetry; Blood pressure measurement (p.6) see fig. 1; cardiovascular;

**Q10832:** P. Xu, *et al.* Erythrocyte Transglutaminase-2 Combats Hypoxia and Chronic Kidney Disease by Promoting Oxygen Delivery and Carnitine Homeostasis. *Cell Metabolism* 2022;34(2):299-316 e6

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** EpoR-Cre+ Tgm2flox/flox; EpoR-Cre+ mutant; **Pump:** Not Stated; **Duration:** Not Stated; **ALZET Comments:** Dose: (500 ng/kg/min) Controls received mp w/ vehicle; animal info: Mice Eight to 12 weeks, age matched t mice; Blood pressure measured via: tail cuff; Blood pressure measurements (p.309) see fig.5b

**Q10805:** L. Xie, *et al.* Uncaria Rhynchophylla attenuates angiotensin II-induced myocardial fibrosis via suppression of the RhoA/ROCK1 pathway. *Biomed Pharmacother* 2022;146(112607)

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose (500 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; Weigh 25-30 g; 10-16 weeks old); Blood pressure measured via tail-cuff plethysmograph method; peptides; cardiovascular;

**Q10803:** P. Xiao, *et al.* RTN4/Nogo-A-S1PR2 Negatively Regulates Angiogenesis and Secondary Neural Repair Through Enhancing Vascular Autophagy in the Thalamus After Cerebral Cortical Infarction. *Autophagy* 2022;18(11):2711-2730

**Agents:** RTN4-d20-Fc; Immunoglobulin G, recombinant **Vehicle:** PBS; PEG 300; **Route:** CSF/CNS (right lateral ventricle); **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** 1003D; **Duration:** 24 hours; **ALZET Comments:** Dose: (40 μg/kg); 2% DMSO; 40% PEG300 vehicle used Controls received mp w/ vehicle; animal info: rats weighting 90–110 g; Recombinant human IgG Fc aka (IgG Fc); Brain coordinates (into the right lateral ventricle under a stereotaxic apparatus (–1.0 mm anteroposterior, 1.4 mm mediolateral, –4.0 mm dorsoventral relative to the bregma); neurodegenerative (cerebral cortical infarction);



**Q10796:** C. Woods, *et al.* Estrogen Receptor Beta Activity Contributes to Both Tumor Necrosis Factor Alpha Expression in the Hypothalamic Paraventricular Nucleus and the Resistance to Hypertension Following Angiotensin II in Female Mice. *Neurochemistry International* 2022;161(105420)

**Agents:** Ang II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; Wild-type; **Pump:** Not Stated; **Duration:** 14d  
**ALZET Comments:** Dose (600 ng/kg/min); Controls received mp w/ vehicle; animal info (Female; Male; ); Blood pressure measured via tail-cuff method; peptides; cardiovascular;

**Q10763:** M. Wang, *et al.* Improved Renal Denervation Mitigated Hypertension Induced by Angiotensin II Infusion. *Journal of Visualized Experiments* 2022;183):

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated;  
**Duration:** Not Stated;

**ALZET Comments:** Dose: (1,000 ng/kg/min) Controls received mp w/ vehicle; animal info: 14-week-old mice; post op. care: povidone-iodine; warmed electric blanket for recovery and post-operative monitoring; meloxicam (0.5 mg/kg, SC); Blood pressure measured via: Tail cuff; Blood pressure measurements (p.6) see fig. 2; good methods see pg. 2,3; cardiovascular;

**Q10770:** M. Wang, *et al.* Diacerein Alleviates Ang II-Induced Cardiac Inflammation And Remodeling By Inhibiting The MAPKs/c-Myc Pathway. *Phytomedicine* 2022;106(154387)

**Agents:** Angiotensin II **Vehicle:** Sodium carboxymethyl cellulose; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1004;  
**Duration:** 4 weeks;

**ALZET Comments:** Dose (1000 ng/kg/min Angiotensin); animal info (Male; 6 weeks old); post op. care (Neomycin); Blood pressure measured via tail-cuff method; peptides; cardiovascular; Therapeutic indication (Hypertension);

**Q10767:** G. Wang, *et al.* Angiotensin II Infusion Results in Both Hypertension and Increased AMPA GluA1 Signaling in Hypothalamic Paraventricular Nucleus of Male but not Female Mice. *Neuroscience* 2022;485(129-144)

**Agents:** Angiotensin II **Vehicle:** BSA; Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 14 d

**ALZET Comments:** Dose (600 ng/kg/min); 0.1% BSA; 0.9% saline; Controls received mp w/ vehicle; animal info (Male; Female); Blood pressure measured via Hatteras MC-4000 tail-cuff blood pressure system; peptides; cardiovascular;

**Q10722:** K. Wallace, *et al.* Evidence of Anxiety, Depression and Learning Impairments following Prenatal Hypertension. *Behavioral Sciences (Basel)* 2022;12(2):

**Agents:** Tyrosine kinase 1 **Vehicle:** Not Stated; **Route:** IP; **Species:** Rat; **Strain:** Sprague Dawley; **Pump:** 2002;  
**Duration:** Not Stated;

**ALZET Comments:** Dose (4.7 µg/kg); animal info (Female ; Weighed 230-250 g; Pregnant); behavioral testing (Maternal Pup Interaction; Forced Swim Test; Novel Object Recognition; Elevated Zero Maze; Barnes Maze; Sucrose Preference); cardiovascular (hypertensive preeclampsia, hemolysis, elevated liver enzyme, and low platelet syndrome)

**Q10718:** A. E. Vendrov, *et al.* Renal NOXA1/NOX1 Signaling Regulates Epithelial Sodium Channel and Sodium Retention in Angiotensin II-induced Hypertension. *Antioxidants & Redox Signaling* 2022;36(7-9):550-566

**Agents:** Ang II **Vehicle:** Sodium chloride; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 1002; **Duration:** 14 d

**ALZET Comments:** Dose (500 ng/kg/min); 0.9% NaCl used; animal info (male; bred in-house; 4-months old; surgically implanted with systemic BP transmitters); blood pressure measured via telemetry; peptides; cardiovascular (hypertension)

**Q10710:** E. Uijl, *et al.* Conventional Vasopressor and Vasopressor-Sparing Strategies to Counteract the Blood Pressure-Lowering Effect of Small Interfering RNA Targeting Angiotensinogen. *Journal of American Heart Association* 2022;11(15):e026426

**Agents:** Fludrocortisone; Midodrine **Vehicle:** PEG 400; DMSO; **Route:** SC; IP; **Species:** Rat; Mice; **Strain:** floxed; Agt;  
**Pump:** 2ML2; 2004; **Duration:** 4 days;

**ALZET Comments:** Dose (Rats: fludrocortisone 6 mg/kg/day, midodrine:4 mg/kg/day, Mice: 12 mg/kg/day fludrocortisone); 85% PEG 400, 15% DMSO used; Controls received mp w/ vehicle; animal info (Male, 11-week-old spontaneously hypertensive rats; Male; 7-10 weeks old angiotensinogen mice); Blood pressure measured via tail-cuff method; cardiovascular (blood pressure)



**Q11200:** P. Stamm, *et al.* Mechanistic Insights into Inorganic Nitrite-Mediated Vasodilation of Isolated Aortic Rings under Oxidative/Hypertensive Conditions and S-Nitros(yl)ation of Proteins in Germ-Free Mice. *Biomedicines* 2022;10(3):

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Rat; **Strain:** Wistar; **Pump:** 2001; **Duration:** 7 d  
**ALZET Comments:** Dose (1 mg/kg/d); animal info (Male; 46 total; 8-10 weeks old; 14 were born and raised under specific pathogen-free or germ-free conditions); peptides; cardiovascular;

**Q10667:** S. Rubin, *et al.* PHACTR-1 (Phosphatase and Actin Regulator 1) Deficiency in Either Endothelial or Smooth Muscle Cells Does Not Predispose Mice to Nonatherosclerotic Arteriopathies in 3 Transgenic Mice. *Arteriosclerosis Thrombosis and Vascular Biology* 2022;42(5):597-609

**Agents:** Angiotensin II **Vehicle:** Not Stated **Route:** SC **Species:** Mice **Strain:** Not Stated **Pump:** Not Stated **Duration:** 21 d  
**ALZET Comments:** Dose: (1000 ng/kg/minute) animal info: Three-month-old male mice; post op. care: 0.05 mg/kg buprenorphine; Blood pressure measured via: Tail-cuff > 50 mm Hg- ≤ 30 mm Hg); cardiovascular;

**Q10663:** D. Rohde, *et al.* Bone Marrow Endothelial Dysfunction Promotes Myeloid Cell Expansion in Cardiovascular Disease. *Nature Cardiovascular Research* 2022;1(1):28-44

**Agents:** Ang II **Vehicle:** Saline; **Route:** SC; IP; **Species:** Mice; **Strain:** Wild-type; **Pump:** 1004; 2006; 1003D; **Duration:** 8 w  
**ALZET Comments:** Dose (490 ng min/kg); Controls received mp w/ vehicle; animal info (; Western-type diet); pumps replaced after 3 weeks; 90 mmHg - 140 mmHg; peptides; cardiovascular;

**Q10660:** L. Rezacova, *et al.* Both Central Sympathoexcitation and Peripheral Angiotensin II-Dependent Vasoconstriction Contribute to Hypertension Development in Immature Heterozygous Ren-2 Transgenic Rats. *Hypertension Research* 2022;45(3):414-423

**Agents:** Losartan **Vehicle:** Not Stated; **Route:** IP; CSF/CNS (lateral ventricle); **Species:** Rat (transgenic); **Strain:** mRen-2; **Pump:** 2004; **Duration:** Not Stated;  
**ALZET Comments:** Dose (1 or 2 mg/kg/day); animal info ( immature Male heterozygous ()27 transgenic; 6 weeks old; Fed Sniff diet); Blood pressure measured via pressure transducer and multichannel recorder; Brain coordinates: (AP = -1.0, L= 1.5, V= 4.1); polyethylene catheter used; antihypertensive; cardiovascular;

**Q10656:** S. Ramdin, *et al.* Physiological Characterization of an Arginine Vasopressin Rat Model of Preeclampsia. *Systems Biology in Reproductive Medicine* 2022;68(1):55-69

**Agents:** Arginine vasopressin **Vehicle:** Saline; **Route:** SC; **Species:** Rat **Strain:** Sprague Dawley **Pump:** 2004 **Duration:** 18 d  
**ALZET Comments:** Dose (150 ng/h); Controls received mp w/ vehicle; animal info (Female pregnant ; 10-12 weeks old; 160-180 g); Blood pressure measured via MRBP tail-cuff BP monitor; cardiovascular;

**Q10646:** R. Perez-Villavicencio, *et al.* Effect of Empagliflozin on Sphingolipid Catabolism in Diabetic and Hypertensive Rats. *International Journal of Molecular Sciences* 2022;23(5):

**Agents:** Angiotensin II **Vehicle:** Isoflurane; **Route:** SC; **Species:** Rat; **Strain:** Wistar; **Pump:** 2002; **Duration:** 2 weeks;  
**ALZET Comments:** Dose (435 ng/kg/min); Controls received mp w/ vehicle; animal info (Male Weighed 350-360 g); post op. care (Empagliflozin treatment for 2 weeks); peptides; cardiovascular (hypertension); diabetes;

**Q10642:** P. D. Patil, *et al.* A Polyphenol-Rich Extract from Muscadine Grapes Prevents Hypertension-Induced Diastolic Dysfunction and Oxidative Stress. *Antioxidants (Basel)* 2022;11(10):

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Strain:** Sprague Dawley; **Pump:** 2004; **Duration:** 4 w  
**ALZET Comments:** Dose (24 ug/kg/h); Controls received mp w/ vehicle; animal info (rats (male), 8 weeks of age; Blood pressure measured via Tail cuff(113 +- 1.1 mm Hg) - (0:118 +- 1.2mmHg) see p.5 fig.1A; cardiovascular;

**Q10618:** M. B. Murphy, *et al.* Optimizing Transesophageal Atrial Pacing in Mice to Detect Atrial Fibrillation. *American Journal of Physiological Heart and Circulatory Physiology* 2022;322(1):H36-H43

**Agents:** Ang II **Vehicle:** Sodium chloride; Acetic acid; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2002 **Duration:** 14d  
**ALZET Comments:** Dose (140 ng/kg/min); 0.259% NaCl used; Controls received mp w/ vehicle; animal info (Male; 9 weeks old; Fed high-salt diet to induce hypertension); Blood pressure measured via tail cuff method; peptides; cardiovascular;





**Q11208:** L. G. Niu, *et al.* Genistein Alleviates Oxidative Stress and Inflammation in the Hypothalamic Paraventricular Nucleus by Activating the Sirt1/Nrf2 Pathway in High Salt-Induced Hypertension. *Cardiovascular Toxicology* 2022;22(10-11):898-909

**Agents:** Genistein; nicotinamide **Vehicle:** Saline; **Route:** CSF/CNS (hypothalamic paraventricular nucleus); **Species:** Rat;

**Strain:** Wistar; **Pump:** 1004; **Duration:** 4 weeks;

**ALZET Comments:** Dose (20 µg/h); (0.3% NaCl); (8% NaCl) used; Controls received mp w/ vehicle; animal info: Four-week-old male 100–120 g; blood pressure measured via: Tail cuff; Blood pressure measurement results (see pg.900) fig.1 b; Brain coordinates (1.8 mm caudal to the bregma, 0.4 mm lateral to the central line, and 7.9 mm ventral to the dorsal surface); bilateral cannula used; cardiovascular;

**Q10616:** M. Mukohda, *et al.* Hypertension is Linked to Enhanced Lymphatic Contractile Response Via RGS16/RhoA/ROCK Pathway. *American Journal of Physiology* 2022;323(6):H1118-H1129

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Rat; **Strain:** Wistar; **Pump:** Not Stated;

**Duration:** 1 week;

**ALZET Comments:** Dose: (330 ng/min/kg); Blood pressure measured via Tail cuff; cardiovascular (hypertension)

**Q11205:** T. A. Milner, *et al.* Angiotensin II differentially affects hippocampal glial inflammatory markers in young adult male and female mice. *Learning & Memory* 2022;29(9):265-273

**Agents:** Angiotensin II **Vehicle:** Saline; BSA; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 14 d

**ALZET Comments:** Dose (600 ng/kg/min); 0.1% BSA used; Controls received mp w/ vehicle; animal info: male and female 23–28 g; Blood pressure measured via: Tail cuff; measurements (see pg. 266) fig.1

**Q10597:** P. F. Malacarne, *et al.* Loss of Endothelial Cytochrome P450 Reductase Induces Vascular Dysfunction in Mice. *Hypertension* 2022;79(6):1216-1226

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Strain:** Not Stated; **Pump:** Not Stated;

**Duration:** Not Stated;

**ALZET Comments:** Dose: Ang II (0.7 mg/kg per day); animal info: Mice 8 weeks old; blood pressure measured via: telemetry; tail cuff blood pressure measurement (p.1224) cardiovascular (hypertension);

**Q10595:** S. Majumder, *et al.* Toll-like Receptor 4 Mutation Protects the Kidney From Ang-II-Induced Hypertensive Injury. *Pharmacological Research* 2022;175(106030)

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C3H/HeOuj; **Pump:** 1004; **Duration:** 4 weeks;

**ALZET Comments:** Dose (1000 ng/kg/min); animal info ( 10-12 weeks old; standard chow); Blood pressure measured via tail cuff method; peptides;

**Q11185:** K. Lin, *et al.* Inhibition of MyD88 attenuates angiotensin II-induced hypertensive kidney disease via regulating renal inflammation. *International Immunopharmacology* 2022;112(109218)

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1004; **Duration:** 4 weeks;

**ALZET Comments:** Dose: (1000 ng/kg/min) animal info: 6-week-old male; Blood pressure measured via: non-invasive tail-cuff telemetric blood pressure system; Blood pressure measurement result see graph (p.7); cardiovascular (hypertension)

**Q11181:** Q. Liang, *et al.* Postnatal Deletion of Bmal1 in Cardiomyocyte Promotes Pressure Overload Induced Cardiac Remodeling in Mice. *Journal of American Heart Association* 2022;11(13):e025021

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** cKO; Bmal1flox/flox; **Pump:** 2004; **Duration:** 28 d

**ALZET Comments:** Dose: (1000 ng/kg per minute); Controls received mp w/ vehicle; animal info: 8 weeks of age; behavioral testing: running wheel-equipped cages; .Blood pressure measured via: computerized noninvasive tail-cuff device; Diastolic Ctrl (n=5) 69.49 ± 3.163 mmHg/ 66.5 ± 2.325 mmHg Systolic cKO (n=5) 27.15 ± 4.855 mmHg- 23.99 ± 4.52 mmHg;

**Q11182:** J. Liang, *et al.* Design, synthesis and biological evaluation of novel nitric oxide donors with antioxidative activity. *European Journal of Medicinal Chemistry* 2022;236(114331)

**Agents:** Angiotensin II **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2006; **Duration:** 4 weeks;

**ALZET Comments:** Dose (1 mg/kg/day); Controls received empty mp; animal info (Wild-type; Adult; 8-12 weeks old); Blood pressure measured via tail-cuff plethysmography; peptides; cardiovascular; Therapeutic indication (Vascular diseases);



**Q11179:** X. T. Li, *et al.* Sirtuin 7 mitigates renal ferroptosis, fibrosis and injury in hypertensive mice by facilitating the KLF15/Nrf2 signaling. *Free Radical Biology and Medicine* 2022;193(Pt 1):459-473

**Agents:** Angiotensin II **Vehicle:** Saline, sterile; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1002; **Duration:** 2 weeks;  
**ALZET Comments:** Dose (1.5 mg/kg/d); Controls received mp w/ vehicle; animal info (male) Blood pressure measured via Tail cuff; Blood pressure measurement (p.462) see Fig.1A; cardiovascular;

**Q11177:** X. Li, *et al.* NLRP3 inflammasome contributes to endothelial dysfunction in angiotensin II-induced hypertension in mice. *Microvascular Research* 2022;143(104384)

**Agents:** Ang II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** WT; Nlrp3<sup>-/-</sup>; C57BL/6; **Pump:** 2002; **Duration:** 2 w  
**ALZET Comments:** Dose: 1000 ng/kg/min; animal info: Eight-week old healthy male; Blood pressure measured via: Tail cuff; Blood pressure results. See diagram pg. 4; cardiovascular; Hypertension

**Q11175:** T. Li, *et al.* Comprehensive bioinformatics analysis identifies LAPT5 as a potential blood biomarker for hypertensive patients with left ventricular hypertrophy. *Aging* 2022;14(3):

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 1007D; **Duration:** 7 days;  
**ALZET Comments:** Dose (1500 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; Wild-type); Blood pressure measured via tail-cuff method; peptides; cardiovascular; cardiac hypertrophy, hypertension

**Q10822:** S. Li, *et al.* Fibroblast Growth Factor 21 Ameliorates Endothelin I-Induced Hypertension Partly Through PPAR  $\gamma$  Pathway. *International Journal of Peptide Research and Therapeutics* 2022;28(4):

**Agents:** Endothelin-1 **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** Sprague–Dawley; **Pump:** 2001; **Duration:** 14 days;  
**ALZET Comments:** Dose: (200 ng/kg); Controls received mp w/ vehicle; animal info: Male (SD) rats (200–220 g); Blood pressure measured via: tail-cuff; Blood pressure measurements (p.6)Endothelin-1 aka (ET-1)cardiovascular; (Hypertension)

**Q11174:** P. Li, *et al.* Perirenal adipose afferent nerves sustain pathological high blood pressure in rats. *Nature Communications* 2022;13(1):3130

**Agents:** Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Rat; **Strain:** Wistar Kyoto; **Pump:** 2006; **Duration:** 6 w  
**ALZET Comments:** Dose: 200 ng/kg/min; 0.9% Saline vehicle used Controls received mp w/ vehicle; animal info: Male 250 g; Blood pressure measured via: tail cuff; Blood pressure results (see pg.3); cardiovascular; Hypertension

**Q11164:** Y. Kwon, *et al.* Effects of 3-methyladenine, an autophagy inhibitor, on the elevated blood pressure and arterial dysfunction of angiotensin II-induced hypertensive mice. *Biomedicine & Pharmacotherapy* 2022;154(113588)

**Agents:** Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 w  
**ALZET Comments:** Dose: (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: Eight-week-old male; Blood pressure measured via: tail-cuff method with a photoplethysmography blood pressure monitoring system; bp measurements see (pg.4) Fig.1A; cardiovascular;

**Q10576:** M. Kluknavsky, *et al.* MLN-4760 Induces Oxidative Stress without Blood Pressure and Behavioural Alterations in SHRs: Roles of Nfe2l2 Gene, Nitric Oxide and Hydrogen Sulfide. *Antioxidants (Basel)* 2022;11(12):

**Agents:** MLN-4760 **Vehicle:** DMSO; Saline; **Route:** SC; **Species:** Rat; **Strain:** Not Stated; **Pump:** 2002; **Duration:** 14 days;  
**ALZET Comments:** Dose (1 mg/kg/day); 10% DMSO used; Controls received mp w/ vehicle; animal info (Male rats; Spontaneously hypertensive; 16-18 weeks old); Blood pressure measured via tail-cuff method; MLN-4760 is a specific ACE2 inhibitor; behavioral testing (Open field test; Plus maze test);