



**References from (2020 - Present) on the Abdominal Aortic Aneurysm
Using ALZET® Osmotic Pumps**

Q11034: J. Zhang, *et al.* Identification of Novel Biomarkers for Abdominal Aortic Aneurysm Promoted by Obstructive Sleep Apnea. *Annals of Vascular Surgery* 2023;92(285-293)

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** apoE^{-/-}; **Pump:** Not Stated; **Duration:** 28 days; **ALZET Comments:** Dose: 1,000 ng/min/kg; animal info: 8-10 weeks; cardiovascular; abdominal aortic aneurysm

Q10840: S. Yang, *et al.* Neutrophil Extracellular Traps Induce Abdominal Aortic Aneurysm Formation by Promoting the Synthetic and Proinflammatory Smooth Muscle Cell Phenotype via Hippo-YAP Pathway. *Translational Research* 2023;255(85-96)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1004; **Duration:** 28 days; **ALZET Comments:** Dose (1000 ng/(kg min)); Controls received mp w/ vehicle; animal info (12-week-old male background; Blood pressure measurement (p.7) see Fig.3; cardiovascular (abdominal aortic aneurysm)

Q11022: Y. Wang, *et al.* CCN2 deficiency in smooth muscle cells triggers cell reprogramming and aggravates aneurysm development. *JCI Insight* 2023;8(1):

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** CCN2-floxed; **Pump:** 2006; 1007D; **Duration:** 42 days; 7 days;

ALZET Comments: Dose (500 ng/kg/min); Controls received mp w/ vehicle; Blood pressure measurements see (pg.5) Fig. 2E; cardiovascular; abdominal aortic aneurysm

Q10776: S. Wang, *et al.* Reactive Oxygen Species-Induced Long Intergenic Noncoding RNA p21 Accelerates Abdominal Aortic Aneurysm Formation by Promoting Secretary Smooth Muscle Cell Phenotypes. *Journal of Molecular and Cellular Cardiology* 2023;174(63-76)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6 J, ApoE^{-/-}; **Pump:** 2004; **Duration:** 28 days; **ALZET Comments:** Dose (1.5 mg/kg/d); (0.9% NaCl) used; Controls received mp w/ vehicle; animal info (10-12-week-old male); Blood pressure measurement (p.6) Fig.8 D & E; cardiovascular;

Q11019: J. C. Wang, *et al.* Hyperuricemia exacerbates abdominal aortic aneurysm formation through the URAT1/ERK/MMP-9 signaling pathway. *BMC Cardiovascular Disorders* 2023;23(1):55

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: Eight- to ten-week-old male; cardiovascular (abdominal aortic aneurysm)

Q10768: J. Wang, *et al.* TCF7L1 Accelerates Smooth Muscle Cell Phenotypic Switching and Aggravates Abdominal Aortic Aneurysms. *JACC: Basic to Translation Science* 2023;8(2):155-170

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 1004; **Duration:** 28 days; **ALZET Comments:** Dose (1,000 ng/kg/min)(0.9% sodium chloride) used; animal info (Eight-week old mice); cardiovascular;

Q11010: Y. Tian, *et al.* The abdominal aortic aneurysm-related disease model based on machine learning predicts immunity and m1A/m5C/m6A/m7G epigenetic regulation. *Frontiers in Genetics* 2023;14(1131957)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** APOE^{-/-}; **Pump:** 2004; **Duration:** 28 days; **ALZET Comments:** Dose (1000 ng/min/kg); Controls received mp w/ vehicle; animal info: 8 weeks; cardiovascular; abdominal aortic aneurysm

Q10690: K. Takahashi, *et al.* LOX-1 Deficiency Increases Ruptured Abdominal Aortic Aneurysm Via Thinning of Adventitial Collagen. *Hypertension Research* 2023;46(1):63-74

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 4 weeks; **ALZET Comments:** Dose (1.44 mg/kg/day); Controls received mp w/ vehicle; animal info: background (8-week-old male mice); post op. care (medetomidine, midazolam, and butorphanol (0.3, 4.0, and 5.0 mg/kg); Blood pressure measured via Tail cuff; Blood pressure measurement (pg.67) see Fig.1D; cardiovascular (abdominal aortic aneurysm)



Q11008: L. Sun, *et al.* Purinergic receptor P2X7 contributes to abdominal aortic aneurysm development via modulating macrophage pyroptosis and inflammation. *Translational Research* 2023;258(72-85

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose: (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: 8–12-week-old; cardiovascular; Abdominal aortic aneurysm

Q10990: M. Salarian, *et al.* Homeostatic, Non-Canonical Role of Macrophage Elastase in Vascular Integrity. *Circulation Research* 2023;132(4):432-448

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE^{-/-}; Mmp12^{-/-}/ApoE^{-/-};
Pump: 2004; 2001; **Duration:** 4 weeks;
ALZET Comments: Dose (1000 ng/kg per minute); Controls received mp w/ vehicle; animal info: 12- to 14-week-old male; Blood pressure measured via: radiotelemetry; Blood pressure measurements see (pg.439) Fig.3 H; cardiovascular (abdominal aortic aneurysm)

Q10978: R. Patel, *et al.* Signaling through the IL-6-STAT3 Pathway Promotes Proteolytically-Active Macrophage Accumulation Necessary for Development of Small AAA. *Vascular and Endovascular Surgery* 2023;57(5):433-444

Agents: Interleukin-6 **Vehicle:** Saline, sterile; **Route:** IP; **Species:** Mice; **Strain:** C57BL/6; IL-6KO; **Pump:** 1004; **Duration:** 21 d
ALZET Comments: Dose: (4.36 µg/kg/day); Controls received mp w/ vehicle; animal info: wild-type mice; post op. care (subcutaneous injection of 0.05 mg/kg buprenorphine); functionality of mp verified by IL-6 plasma levels; cardiovascular; abdominal aortic aneurysm; immunology

Q10968: M. Navas-Madronal, *et al.* Targeting mitochondrial stress with Szeto-Schiller 31 prevents experimental abdominal aortic aneurysm: Crosstalk with endoplasmic reticulum stress. *British Journal of Clinical Pharmacology* 2023;180(17):2230-2249

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; ApoE^{-/-}/CHOP^{+/+} (C57BL/6J); **Pump:** 1004;
Duration: 28 days;
ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: 11 wk male female; post op. care (Antibiotics (penicillin 450,000 µg/kg, intramuscular) and analgesics (buprenorphine 0.05 mg/kg subcutaneous) were given immediately after surgery to prevent infection and discomfort); Blood pressure measured via: tail-cuff plethysmography method; Blood pressure measurements (see pg.8) table 1; cardiovascular (abdominal aortic aneurysm)

Q11355: S. Liu, *et al.* 3, 4-Benzopyrene (Bap) aggravated abdominal aortic aneurysm formation by targeting pyroptosis in smooth muscle cells through ET-1 mediated NLRP3-inflammasome activation. *International Immunopharmacology* 2023;124(Pt A):110851

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2006; **Duration:** 6 weeks;
ALZET Comments: Dose (0.9 mg/kg/day); controls received mp w/ vehicle; animal info (Male; 8-10 months old; Weighed 30-35 g); blood pressure measured via tail-cuff method; wound clips used; peptides; cardiovascular

Q11353: C. P. Lin, *et al.* Tributyrin Intake Attenuates Angiotensin II-Induced Abdominal Aortic Aneurysm in LDLR^{-/-} Mice. *International Journal of Molecular Sciences* 2023;24(9):

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Strain:** LDLR^{-/-}; C57BL/6J background; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose (1000 ng/kg/min); animal info (Male 14–16 weeks of age); Blood pressure results see (pg. 3) table 1; cardiovascular; "

Q11052: Y. Li, *et al.* Taxifolin ameliorates abdominal aortic aneurysm by preventing inflammation and apoptosis and extracellular matrix degradation via inactivating TLR4/NF-kappaB axis. *International Immunopharmacology* 2023;119(110197

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** apoE^{-/-}; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1 µg/kg/min); animal info: ApoE gene knockout, 10–12 weeks old; cardiovascular; therapeutic indication (Abdominal aortic aneurysm);



Q11127: S. Kurose, *et al.* Interleukin-38 suppresses abdominal aortic aneurysm formation in mice by regulating macrophages in an IL1RL2-p38 pathway-dependent manner. *Physiological Reports* 2023;11(2):e15581

Agents: Angiotensin II **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** C57BL6/J; **Pump:** 2004; **Duration:** 14 days;
ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info(Male; 10-12 weeks old); peptides; cardiovascular;

Q11120: K. Karasaki, *et al.* Angiotensin II Type 1 Receptor Blocker Prevents Abdominal Aortic Aneurysm Progression in Osteoprotegerin-Deficient Mice via Upregulation of Angiotensin (1-7). *Journal of the American heart Association* 2023;12(3):e027589

Agents: A779 **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** WT, Opg-KO (C57BL/6J); **Pump:** 2006;
Duration: Not Stated;
ALZET Comments: Dose (400 ng/kg/minute); Controls received mp w/ vehicle; animal info (Male; 7 weeks old); A779 is an angiotensin antagonist; Blood pressure measured via tail-cuff method; peptides; cardiovascular; abdominal aortic aneurysm

Q11116: A. Javidan, *et al.* Celastrol Supplementation Ablates Sexual Dimorphism of Abdominal Aortic Aneurysm Formation in Mice. *Biomolecules* 2023;13(4):

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** LDL receptor -/-backcrossed to C57Bl/6N; **Pump:** 1004; 2004; **Duration:** 28 days;
ALZET Comments: Dose (500 or 1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male and female; 8-12 weeks old); Blood pressure measured via tail-cuff method; peptides; cardiovascular; abdominal aortic aneurysm

Q11285: J. Huang, *et al.* Macrophage scavenger receptor A1 antagonizes abdominal aortic aneurysm via upregulating IRG1. *Biochemical Pharmacology* 2023;213(115631

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-SR-A1+/+; ApoE-/-SR-A1-/-; **Pump:** 2004; **Duration:** Not Stated;
ALZET Comments: Dose (1.44 mg/kg/d); animal info (Male; 15 weeks old); Blood pressure measured via tail cuff method; peptides; cardiovascular;

Q11284: J. Hu, *et al.* Identification of core cuprotosis-correlated biomarkers in abdominal aortic aneurysm immune microenvironment based on bioinformatics. *Frontiers in Immunology* 2023;14(1138126

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose (1000 ng/kg/day); Controls received mp w/ vehicle; animal info (12 weeks old); peptides; cardiovascular (abdominal aortic aneurysm)

Q11314: Y. Hada, *et al.* Neutrophil Elastase Inhibition by Sivelestat (ONO-5046) Attenuates AngII-induced Abdominal Aortic Aneurysms in Apolipoprotein E-Deficient Mice. *American Journal of Hypertension* 2023;

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** apoE-/-; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose (1000 ng/min/kg); controls received mp w/ saline; animal info (male 8-10 weeks); blood pressure measured via tail cuff system; cardiovascular (abdominal aortic aneurysm)

Q11310: J. Guo, *et al.* Pharmacological Inhibition of Gasdermin D Suppresses Angiotensin II-Induced Experimental Abdominal Aortic Aneurysms. *Biomolecules* 2023;13(6):

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/- (C57BL/6 background); **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose (1000 ng/kg/min); animal info (Male; 10-12 weeks old); Blood pressure measured via tail cuff method; peptides; cardiovascular (abdominal aortic aneurysm)

Q10916: M. Dai, *et al.* Dexmedetomidine protects cells from Angiotensin II-induced smooth muscle cell phenotype switch and endothelial cell dysfunction. *Cell Cycle* 2023;22(4):450-463

Agents: Angiotensin **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose: (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; Mice; 8-10 weeks old; Weighed 20-22 g ApoE-/- with background); peptides; cardiovascular (abdominal aortic aneurysm)



Q11263: L. Chen, *et al.* Mesenchymal stem cell-derived extracellular vesicles protect against abdominal aortic aneurysm formation by inhibiting NET-induced ferroptosis. *Experimental & Molecular Medicine* 2023;55(5):939-951

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-} C57BL/6J; **Pump:** 1004; **Duration:** 28 days; **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; 12 weeks old); peptides; cardiovascular (abdominal aortic aneurysm)

Q10906: Y. Zhou, *et al.* Overexpressed DDX3x Promotes Abdominal Aortic Aneurysm Formation and Activates AKT in ApoE Knockout Mice. *Biochemical and Biophysical Research Communication* 2022;634(138-144)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days; **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; Apolipoprotein E deficient; 12-16 weeks old); peptides; cardiovascular;

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;

Q10888: G. Zhao, *et al.* BAF60c Prevents Abdominal Aortic Aneurysm Formation Through Epigenetic Control of Vascular Smooth Muscle Cell Homeostasis. *Journal of Clinical Investigation* 2022;132(21):

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Baf60cSMKO/ApoE^{-/-}; Baf60c^{f/f}/ApoE^{-/-}; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose: (1000ng/kg/min); 2% heparin vehicle used animal info: 16-week-old male mice; Blood pressure measured via: non-invasive tail-cuff method; Blood pressure result see diagram (pg.45 fig.2); cardiovascular; (Abdominal aortic; "Together, our identification of the essential role of BAF60c in preserving VSMC homeostasis expands its therapeutic potential in preventing and treating AAA." (pg.3)

Q10863: D. Zhang, *et al.* Inhibition of XIST Attenuates Abdominal Aortic Aneurysm in Mice by Regulating Apoptosis of Vascular Smooth Muscle Cells Through miR-762/MAP2K4 Axis. *Microvascular Research* 2022;140(104299)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** IP; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** Not Stated; **Duration:** 28 days; **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; peptides; cardiovascular;

Q10839: L. Yang, *et al.* MiR-30c-1-3p Targets Matrix Metalloproteinase 9 Involved in the Rupture of Abdominal Aortic Aneurysms. *Journal of Molecular Medicine (Berl)* 2022;100(8):1209-1221

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 1004; **Duration:** 4 weeks; **ALZET Comments:** Dose (1 ug/kg/min); Controls received mp w/ vehicle; animal info (Male; 6-8 weeks old; Weighed 20-25 g; Fed western diet for 4 weeks); Blood pressure measured via tail-cuff method; peptides; cardiovascular; (abdominal aortic aneurysm)

Q10800: T. C. Wu, *et al.* Tolvaptan Reduces Angiotensin II-Induced Experimental Abdominal Aortic Aneurysm and Dissection. *Vascular Pharmacology* 2022;144(106973)

Agents: Ang II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Apo-E knockout, C57BL/6; **Pump:** 2004; **Duration:** 28 d **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info Male; 12-14 weeks old); Blood pressure measured via noninvasive tail-cuff system; peptides; cardiovascular; Therapeutic indication (Abdominal aortic aneurysm);

Q10779: Y. Wang, *et al.* Interleukin-22 Deficiency Reduces Angiotensin II-Induced Aortic Dissection and Abdominal Aortic Aneurysm in ApoE^{-/-} Mice. *Oxidative Medicine and Cellular Longevity* 2022;2022(7555492)

Agents: Angiotensin II **Vehicle:** Saline **Route:** SC; **Species:** Mice **Strain:** C57BL/6J ApoE^{-/-}; Il-22^{-/-} **Pump:** 2004 **Duration:** 28 d **ALZET Comments:** Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: ages 9-10 weeks; Blood pressure measured via tail-cuff method; peptides; cardiovascular; Therapeutic indication (Abdominal aortic aneurysm; Aortic dissection);



Q10771: P. Wang, *et al.* Protective Effect of Vasostatin-1 Plasmid-Like Nanoparticles on Aortic Aneurysm and its Mechanism. *Bioengineered* 2022;13(1):544-559

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ApoE; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (1000 ng/kg/min); animal info (8 weeks old; Weighed 20-22 g); peptides; cardiovascular;

Q10706: H. Y. Tsai, *et al.* miR-424/322 Protects Against Abdominal Aortic Aneurysm Formation by Modulating the Smad2/3/Runt-Related Transcription Factor 2 Axis. *Molecular Therapy- Nucleic Acids* 2022;27(656-669

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** miR-322 KO, ApoE KO; **Pump:** 2004;

Duration: 28 days;

ALZET Comments: Dose (1000 ng/kg/min); animal info (male ; high-fat diet; 8-10 weeks of age); Blood pressure measured via tail cuff method; peptides; cardiovascular (abdominal aortic aneurysm)

Q10679: P. Shridas, *et al.* Adipocyte-Derived Serum Amyloid A Promotes Angiotensin II-Induced Abdominal Aortic Aneurysms in Obese C57BL/6J Mice. *Arteriosclerosis Thrombosis and Vascular Biology* 2022;42(5):632-643

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1000 ng/kg per minute); Controls received mp w/ vehicle; animal info: Obese; stress/adverse reaction; All mice that died during the course of Ang II infusion underwent necropsy to confirm that cause of death was due to aortic rupture; cardiovascular (abdominal aortic aneurysm)

Q10607: M. R. Molla, *et al.* Vascular Smooth Muscle RhoA Counteracts Abdominal Aortic Aneurysm Formation by Modulating MAP4K4 Activity. *Communication Biology* 2022;5(1):1071

Agents: Angiotensin II; B-aminopropionitrile **Vehicle:** Saline, sterile; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 1004;

Duration: 4 weeks;

ALZET Comments: Dose: Ang II (1000 ng/kg/min); BAPN (37.5 mg/kg/d); Controls received mp w/ vehicle; animal info (Littermate mice without the Cregene) 10–14 weeks old male); Blood pressure measured via Tail cuff; Blood pressure measurement (p.5) fig. 5A; β-aminopropionitrile aka (BAPN); cardiovascular (abdominal aortic aneurysm)

Q10278: D. B. Mangarova, *et al.* Microscopic multifrequency magnetic resonance elastography of ex vivo abdominal aortic aneurysms for extracellular matrix imaging in a mouse model. *Acta Biomaterialia* 2022;140(389-397

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** B6.129P2- Apoetm1Unc/J (ApoE-/-);

Pump: 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (1000 ng/kg/min); animal info (8-weeks old) male mice; tissue perfusion (cardiac); cardiovascular;

Q11199: F. Liao, *et al.* Disulfiram protects against abdominal aortic aneurysm by ameliorating vascular smooth muscle cells pyroptosis. *Cardiovascular Drugs and Therapy* 2022;

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-; C57BL/6; **Pump:** 1004; **Duration:** 28 days;

ALZET Comments: Dose: (1000 ng/kg/min); Controls received mp w/ saline; animal info: 8- to 10-week-old males; cardiovascular; (Abdominal aortic aneurysm);

Q11151: J. O. Kaufmann, *et al.* ADAMTS4-specific MR probe to assess aortic aneurysms in vivo using synthetic peptide libraries. *Nature Communications* 2022;13(1):2867

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1000 ng/kg/min) Controls received mp w/ vehicle; animal info: male 8-week-old mice; cardiovascular; aortic aneurysms

Q10813: Y. Jia, *et al.* Targeting Macrophage TFEB-14-3-3 Epsilon Interface by Naringenin Inhibits Abdominal Aortic Aneurysm. *Cell Discovery* 2022;8(1):21

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (1000 ng/kg/min); animal info C57BL/6J (Male; 16 weeks old); post op. care (Naringenin); Blood pressure measured via tail-cuff plethysmography; peptides; cardiovascular; Therapeutic indication (Abdominal aortic aneurysm);



Q10555: D. M. Jensen, *et al.* Broad-Acting Therapeutic Effects Of miR-29b-chitosan On Hypertension And Diabetic Complications. *Molecular Therapy* 2022;30(11):3462-3476

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE KO; C57; **Pump:** 1004; 1002;

Duration: 14 days; 28 days;

ALZET Comments: Dose: 1 ug/kg/min; animal info: mice; mice; Blood pressure measurement (pg.4 figure.2B, figure 2C);

Q10754: J. Hu, *et al.* Trimethylamine N-Oxide Promotes Abdominal Aortic Aneurysm Formation by Aggravating Aortic Smooth Muscle Cell Senescence in Mice. *Journal of Cardiovascular Translational Research* 2022;15(5):1064-1074

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** apoe-/-; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (Male; 8 weeks old); peptides; tissue perfusion (Brain tissue); cardiovascular;

Q10755: J. Hu, *et al.* Exosomal miR-17-5p From Adipose-Derived Mesenchymal Stem Cells Inhibits Abdominal Aortic Aneurysm By Suppressing TXNIP-NLRP3 Inflammasome. *Stem Cell Research and Therapy* 2022;13(1):349

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-C57BL/6; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1550 ng/kg per minute)Controls received mp w/ vehicle; animal info: 12-week-old male; cardiovascular; Abdominal aortic aneurysm

Q10273: X. He, *et al.* CircRNA Chordc1 protects mice from abdominal aortic aneurysm by contributing to the phenotype and growth of vascular smooth muscle cells. *Molecular Therapy Nucleic Acids* 2022;27(81-98

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE -/- on C57BL/6 background;

Pump: 2004; **Duration:** 28 days;

ALZET Comments: Dose (1 ug/kg/min); animal info (10-16 week old); cardiovascular;

Q10919: N. Geng, *et al.* Nuclear receptor Nur77 protects against oxidative stress by maintaining mitochondrial homeostasis via regulating mitochondrial fission and mitophagy in smooth muscle cell. *Journal of Molecular and Cellular Cardiology* 2022;170(22-33

Agents: Angiotensin II **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-; ApoE-/-Nur77- /-; **Pump:** 2004;

Duration: 28 days;

ALZET Comments: Dose: (1000 ng/kg/min)Controls received mp w/ vehicle; animal info: AAA, male 6–8 weeks; cardiovascular;

Q10483: Y. K. Gao, *et al.* A regulator of G protein signaling 5 marked subpopulation of vascular smooth muscle cells is lost during vascular disease. *PLoS One* 2022;17(3):e0265132

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 28 days;

ALZET Comments: Dose (1µg/kg/min); animal info (Male; 10-12 weeks old ; Fed high-cholesterol diet); peptides;

Q10484: R. Gao, *et al.* Phosphodiesterase 4D contributes to angiotensin II-induced abdominal aortic aneurysm through smooth muscle cell apoptosis. *Experimental & Molecular Medicine* 2022;54(8):1201-1213

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1000 ng kg/1 min)Controls received mp w/ vehicle; animal info: eight-week-old male mice, high-fat diet; Blood pressure measured via: Tail cuff; Blood pressure measurement see (pg.1207) ; Abdominal aortic aneurysm

Q10480: H. Fu, *et al.* Activating alpha7nAChR ameliorates abdominal aortic aneurysm through inhibiting pyroptosis mediated by NLRP3 inflammasome. *Acta Pharmacologica Sinica* 2022;43(10):2585-2595

Agents: Ang II **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE-/-; Wild-type; **Pump:** 2004; **Duration:** 4 w

ALZET Comments: Dose (1000 ng/kg/min); animal info (Male; 6 month old mice; 12 month old mice); peptides; cardiovascular; Therapeutic indication (Abdominal aortic aneurysm);

Q10382: A. C. Filiberto, *et al.* Endothelial pannexin-1 channels modulate macrophage and smooth muscle cell activation in abdominal aortic aneurysm formation. *Nature Communications* 2022;13(1):1521

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (8-12 weeks old; Male); peptides;



Q10380: X. Z. Fan, *et al.* Kv7.4 channel is a key regulator of vascular inflammation and remodeling in neointimal hyperplasia and abdominal aortic aneurysms. *Free Radical Biology & Medicine* 2022;178(111-124

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1000 ng/kg/min); animal info (Male; 8-12 weeks of age); peptides; cardiovascular; Therapeutic indication (Vascular inflammatory diseases);

Q10424: X. Chen, *et al.* Galactose-modified nanoparticles for delivery of microRNA to mitigate the progress of abdominal aortic aneurysms via regulating macrophage polarization. *Nanomedicine* 2022;44(102564

Agents: Ang II **Vehicle:** PBS; Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}, C57BL/6; **Pump:** Not Stated; **Duration:** 4 w
ALZET Comments: Dose: (1000 ng/kg/min) Controls received mp w/ vehicle; animal info: Male; cardiovascular (Abdominal aortic aneurysm)

Q9834: Y. Zhao, *et al.* Suppression of Vascular Macrophage Activation by Nitro-Oleic Acid and its Implication for Abdominal Aortic Aneurysm Therapy. *Cardiovascular Drugs and Therapy* 2021;35(5):939-951

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1500 ng/kg/min); animal info (10 weeks old, Male,); Blood pressure measured via Tail Cuff Method;

Q9844: H. Zhang, *et al.* MicroRNA-194 acts as a suppressor during abdominal aortic aneurysm via inhibition of KDM3A-mediated BNIP3. *Life Sciences* 2021;277(119309

Agents: Angiotensin II **Vehicle:** Not stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 28 days;
ALZET Comments: Dose (1.44 mg/kg/day); animal info (mice 23–25 g, 8–12 weeks old); cardiovascular;

Q10864: H. Zhang, *et al.* Nuclear Receptor Nur77 Protects Against Abdominal Aortic Aneurysm by Ameliorating Inflammation Via Suppressing LOX-1. *Journal of American Heart Association* 2021;10(15):e021707

Agents: Ang II **Vehicle:** Saline **Route:** SC **Species:** Mice **Strain:** ApoE^{-/-} on C57BL/6 background **Pump:** 2004 **Duration:** 28 d
ALZET Comments: Dose: (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: mice (6–8 weeks male ; Blood pressure measured via: tail-cuff; Blood pressure measurements (see Table S6); cardiovascular; (Abdominal aortic aneurysm)

Q10829: C. Xu, *et al.* Chronic Intermittent Hypoxia Regulates CaMKII-Dependent MAPK Signaling to Promote the Initiation of Abdominal Aortic Aneurysm. *Oxidative Medicine and Cellular Longevity* 2021;2021(2502324

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1000 ng/min/kg); Controls received mp w/ vehicle; animal info (Male; 8 weeks old); peptides; cardiovascular (abdominal aortic aneurysm)

Q10807: C. Xie, *et al.* CCL7 Contributes to Angiotensin II-Induced Abdominal Aortic Aneurysm by Promoting Macrophage Infiltration and Pro-Inflammatory Phenotype. *Journal of cellular and Molecular Medicine* 2021;25(15):7280-7293

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose: (1000 ng/kg min) Controls received mp w/ vehicle; animal info: Male mice at 8-10 weeks old; Blood pressure measured via: tail cuff; All mice were acclimatized to the instrument for 7 days before the start of the study. Individual mouse received 5 initial pressure cycles to acclimatize the process and followed by 20 more cycles to get daily mean systolic blood pressure (SBP) cardiovascular; Abdominal aortic aneurysm

Q10795: H. Williams, *et al.* Aneurysm Severity is Suppressed by Deletion of CCN4. *Journal of Cell Communication and Signaling* 2021;15(3):421-432

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** CCN4^{-/-}-ApoE; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose: (500 ng/kg/min); animal info: Male 8 week old; post op. care: 0.1 mg/kg buprenorphine; Blood pressure measured via:(Kent scientific CODA blood pressure measurement system); Blood pressure results (see pg.4 fig.1);



Q10785: L. Wang, *et al.* Silencing IL12p35 Promotes Angiotensin II-Mediated Abdominal Aortic Aneurysm through Activating the STAT4 Pathway. *Mediators of Inflammation* 2021;2021(9450843)

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Apoe^{-/-}; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose: (1.44 mg/kg per day); Controls received mp w/ vehicle; animal info: Nine- to eleven-week-old male mice generated on a C57BL/6J; cardiovascular; abdominal aortic aneurysm

Q10716: M. Vandestienne, *et al.* TREM-1 Orchestrates Angiotensin II-Induced Monocyte Trafficking and Promotes Experimental Abdominal Aortic Aneurysm. *Journal of Clinical Investigation* 2021;131(2):

Agents: Angiotensin II; Norepinephrine **Vehicle:** PBS; Ascorbic acid; **Route:** SC; **Species:** Mice; **Strain:** Apoe^{-/-};

Pump: Not Stated; **Duration:** 28 days;

ALZET Comments: Dose: Ang II (1000 ng/kg/min); Norepinephrine (5.6 mg/kg/j); 0.2% Ascorbic acid vehicle used; Controls received mp w/ vehicle; animal info: 8- to 10 week hypercholesterolemic mice; cardiovascular; (abdominal aortic aneurysm)

Q10711: A. Uldreaj, *et al.* Adventitial Recruitment of Lyve-1- Macrophages Drives Aortic Aneurysm in an Angiotensin-2-Based Murine Model. *Clinical Science (Lond)* 2021;135(10):1295-1309

Agents: Angiotensin II; Immunoglobulin G2A **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1002; 1004; 2001; **Duration:** 2, 3, 4 weeks;

ALZET Comments: Dose: Angiotensin II (1 µg/kg/min); IgG2a (1.5 mg/kg/h); animal info: mice weighing 30.18 ± 1.92 g; Immunoglobulin G2A antibody aka (IgG2a) cardiovascular; (aortic aneurysm)

Q11145: H. Tanaka, *et al.* Recombinant Interleukin-19 Suppresses the Formation and Progression of Experimental Abdominal Aortic Aneurysms. *Journal of American Heart Association* 2021;10(17):e022207

Agents: Angiotensin II, human recombinant **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL6/J; apoE; BALB/c;

Pump: 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1000 ng/min per kg); animal info: 10-12-week-old male; cardiovascular; Abdominal aortic aneurysm

Q9490: B. Sun, *et al.* Inhibition of CXCR2 alleviates the development of abdominal aortic aneurysm in Apo E^{-/-} mice. *Acta Cirurgica Brasileira* 2021;36(1):e360105

Agents: Angiotensin II; SB225002 **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 1007D; **Duration:** 28 days;

ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (male mice, 10 weeks old); Blood pressure measured via tail-cuff method; cardiovascular;

Q9479: X. Si, *et al.* MicroRNA-23b prevents aortic aneurysm formation by inhibiting smooth muscle cell phenotypic switching via FoxO4 suppression. *Life Sciences* 2021;119092

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (1 ug/kg/min); Controls received mp w/ vehicle; animal info (male mice, 10-12 weeks old); Blood pressure measured via tail-cuff method; cardiovascular;

Q10316: A. Saito, *et al.* Activation of Invariant Natural Killer T Cells by alpha-Galactosylceramide Attenuates the Development of Angiotensin II-Mediated Abdominal Aortic Aneurysm in Obese ob/ob Mice. *Frontiers in Cardiovascular Medicines* 2021;8(659418)

Agents: Angiotensin II **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** ob/ob, C57BL/6; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose: (1,000 ng/kg/min); Controls received mp w/ vehicle; animal info: Male 8-week-old leptin deficient mice ; Blood pressure measured via: tail cuff; 112 mmHg -107 mmHg/154 mmHg-161 mmHg; Cardiovascular: Abdominal aortic aneurysm

Q10051: N. Otaka, *et al.* Vasohibin-2 Aggravates Development of Ascending Aortic Aneurysms but not Abdominal Aortic Aneurysms nor Atherosclerosis in ApoE-Deficient Mice. *American Journal of Hypertension* 2021;34(5):467-475

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 2004; **Duration:** 3 weeks;

ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info (male mice, 9 to 14 weeks old); Blood pressure measured via tail cuff system;98 mmHg - 139 mmHg; cardiovascular;



Q10260: A. Mochida, *et al.* Defective autophagy in vascular smooth muscle cells enhances the healing of abdominal aortic aneurysm. *Physiological Reports* 2021;9(17):e15000

Agents: Ang II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Atg7cKO:apoeKO; Atg7f:apoeKO; **Pump:** 1004;

Duration: 4 weeks;

ALZET Comments: Dose: (1,000 ng/kg/min); Controls received mp w/ vehicle; animal info: mice and mice, 10 weeks old; Blood pressure measured via: non-invasive tail-cuff; Blood pressure measurement (see graph pg.4); Cardiovascular

Q10249: W. Lu, *et al.* Loss of FoxO3a prevents aortic aneurysm formation through maintenance of VSMC homeostasis. *Cell Death & Disease* 2021;12(4):378

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose: (1 µg/kg per minute); Controls received mp w/ vehicle; animal info: 8- to 15-week-old male mice;

Q10219: S. M. Krishna, *et al.* Kallistatin limits abdominal aortic aneurysm by attenuating generation of reactive oxygen species and apoptosis. *Scientific Reports* 2021;11(1):17451

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 1004; **Duration:** 28 days;

ALZET Comments: Dose: (1.0 µg/kg/min); Controls received mp w/ vehicle; animal info: apolipoprotein E deficient mice;

Blood pressure measured via: Tail cuffs; cardiovascular;

Q9301: S. Katsuki, *et al.* Nanoparticle-Mediated Delivery of Pitavastatin to Monocytes/Macrophages Inhibits Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Apoe(0) Mice. *Journal of Atherosclerosis Thrombosis* 2021;

Agents: Angiotensin II **Vehicle:** PBS; **Route:** IP; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (1320 ng/kg/min); Controls received mp w/ vehicle; animal info (male mice, 16-18 weeks old); Blood pressure measured via tail-cuff method; cardiovascular;

Q10179: S. Hall, *et al.* Mechanical activation of the angiotensin II type 1 receptor contributes to abdominal aortic aneurysm formation. *JVS Vascular Science* 2021;2(194-206

Agents: Losartan **Vehicle:** Saline, sterile; **Route:** SC; **Species:** Mice; **Strain:** BPN/3; **Pump:** 1004; **Duration:** 21 days;

ALZET Comments: Dose: (30 mg/kg/d) Controls received mp w/ vehicle; animal info: mice aged 16 to 20 weeks; Blood pressure measured via tail cuff; cardiovascular; (Aortic aneurysm; hypertension)

Q10163: G. Gabel, *et al.* Parallel Murine and Human Aortic Wall Genomics Reveals Metabolic Reprogramming as Key Driver of Abdominal Aortic Aneurysm Progression. *Journal of American Heart Association* 2021;10(17):e020231

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** ApoE^{-/-}; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose: (1.44 µg/kg per minute); Controls received mp w/ vehicle; animal info: Male mice aged 13 weeks;

Q9756: Y. Ding, *et al.* Factor Xa inhibitor rivaroxaban suppresses experimental abdominal aortic aneurysm progression via attenuating aortic inflammation. *Vascular Pharmacology* 2021;136(106818

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (1000 ng/kg/min); 0.9% Saline used; Controls received mp w/ vehicle; animal info (Male, 8-12 weeks);

Q8718: M. T. Chiang, *et al.* Gal-1 (Galectin-1) Upregulation Contributes to Abdominal Aortic Aneurysm Progression by Enhancing Vascular Inflammation. *Arteriosclerosis, Thrombosis, and Vascular Biology* 2021;41(1):331-345

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1004; **Duration:** 28 days;

ALZET Comments: Dose (1.4 mg/kg/day); Controls received mp w/ vehicle; cardiovascular;

Q8687: Y. AlSiraj, *et al.* Monosomy X in Female Mice Influences the Regional Formation and Augments the Severity of Angiotensin II-Induced Aortopathies. *Arteriosclerosis, Thrombosis, and Vascular Biology* 2021;41(1):269-283

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

ALZET Comments: Dose (1000 ng/kg/min); animal info (, 14-18 or 20-24 weeks old); Blood pressure measured via Visitech system; 147.7 mmHg - 152.3 mmHg; cardiovascular;



Q9827: L. Zhong, *et al.* METTL3 Induces AAA Development and Progression by Modulating N6-Methyladenosine-Dependent Primary miR34a Processing. *Molecular Therapy Nucleic Acids* 2020;21(394-411

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** wild-type; **Pump:** 2004; **Duration:** 28 days;
ALZET Comments: Dose (1 ug/kg/min); Controls received mp w/ vehicle; animal info (Male mice aged 10 to 12 weeks and male ApoE / mice aged 12 to 16 weeks); cardiovascular;

Q10877: Y. Zhang, *et al.* Brahma-Related Gene 1 Deficiency in Endothelial Cells Ameliorates Vascular Inflammatory Responses in Mice. *Frontiers in Cell and Developmental Biology* 2020;8(578790

Agents: Angiotensin II **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Strain:** CKO / WT; **Pump:** Not Stated; **Duration:** 28 d
ALZET Comments: Dose: (1000 ng/min per kg mice); Controls received mp w/ vehicle; animal info: 8 weeks old male mice);

Q10879: W. Zhang, *et al.* Nucleolar Stress Induces a Senescence-Like Phenotype in Smooth Muscle Cells and Promotes Development of Vascular Degeneration. *Aging* 2020;

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE; **Pump:** 1007D; 2004; **Duration:** Not Stated;
ALZET Comments: Dose:(1000 ng/kg/min); Controls received mp w/ vehicle; animal info: mice of 10 to 12 weeks of age; post op. care: warming pad and a single injection of analgesic (Carprofen 10 mg/kg); Blood pressure measured via: tail-cuff; Blood pressure monitored (see pg 18); cardiovascular; Abdominal aortic aneurysms

Q9858: H. Zhang, *et al.* Identification of potential proteases for abdominal aortic aneurysm by weighted gene coexpression network analysis. *Genome* 2020;63(11):561-575

Agents: Angiotensin II **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ApoE -/-; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1000 ng/kg/min); animal info (Male,); cardiovascular;

Q9878: J. Yue, *et al.* A Modified Murine Abdominal Aortic Aneurysm Rupture Model Using Elastase Perfusion and Angiotensin II Infusion. *Annals of Vascular Surgery* 2020;67(474-481

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; cardiovascular;

Q9896: Y. Yao, *et al.* Evaluation of a smart activatable MRI nanoprobe to target matrix metalloproteinases in the early-stages of abdominal aortic aneurysms. *Nanomedicine* 2020;26(102177

Agents: Angiotensin II **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** ApoE-/-, C57BL/6 background; **Pump:** 1002;
Duration: 14 days;

ALZET Comments: Dose (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: 16-week-old male mice on a; cardiovascular; Abdominal aortic aneurysm

Q10842: H. Yang, *et al.* Myeloid-Derived TSP1 (Thrombospondin-1) Contributes to Abdominal Aortic Aneurysm Through Suppressing Tissue Inhibitor of Metalloproteinases-1. *Arteriosclerosis, Thrombosis and Vascular Biology* 2020;40(12):e350-e366

Agents: Angiotensin II **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** Apoe-/-; **Pump:** 2004; **Duration:** Not Stated;

ALZET Comments: Dose: (1000 ng/kg/min); Controls received mp w/ vehicle; animal info: Twelve- to sixteen-week-old male ; cardiovascular; Abdominal aortic aneurysm