

Indus Doppler Flow Velocity System

References

1. Bauer, M., Santhanam, L., & Steppan, J. (2026). Pulsed Wave Doppler Assessment of Diastolic Dysfunction in the ZSF-1 Rat Model of Pulmonary Hypertension Due to Left Heart Disease. *Journal of Visualized Experiments (JoVE)*, 2026-May(231), e69341. <https://doi.org/10.3791/69341>
2. Cullen, A. E., Winder, N. R., Lee, B., Kumaran, S. K., Arora, N., Wolf, J. R., Henson, G. D., Woltjer, R. L., & Walker, A. E. (2026). Deletion of Robo4 worsens neuroinflammation in a mouse model of Alzheimer's disease. *Physiological Reports*, 14(11), e70950. <https://doi.org/10.14814/PHY2.70950>
3. Kehmeier, M. N., Famiano, A., Cullen, A. E., Leonhardt, T., Ferguson, S. J., Snyder, M., Mccurdy, C. E., Tyrrell, D. J., Alkayed, N. J., Walker, A. E., & Walker, A. E. (2026). APOE4 negates the effects of ovarian hormones on cerebrovascular endothelial and mitochondrial function. *The Journal of Physiology*, 1–21. <https://doi.org/10.1113/JP290852>
4. Kumar, G., Chaihongsa, N., Brozoski, D. T., Golosova, D., Vazirabad, I., Lu, K.-T., Wackman, K. K., Singh, R. K., & Sigmund, C. D. (2026). Vascular smooth muscle RbFox2 regulates the cytoskeleton and arterial stiffness by a RhoBTB1-Cullin-3 mechanism. *JCI Insight*. <https://doi.org/10.1172/JCI.INSIGHT.202638>
5. Kwiatkowski, G., Czyzyska-Cichon, I., Gdula, A. M., Zakrzewska, A., Tyrankiewicz, U., Sitek, B., Jaszta, A., & Chłopicki, S. (2026). Early development and SGLT2 inhibitor-mediated reversal of coronary microvascular dysfunction in an isoprenaline-induced murine HFpEF model: Insights from multimodal in vivo imaging. *International Journal of Cardiology*, 453, 134266. <https://doi.org/10.1016/J.IJCARD.2026.134266>
6. Reeve, E. H., Cullen, A. E., Ferguson, S. J., Braker, M., Hogan, A. P., Famiano, A., & Walker, A. E. (2026). Age-related arterial stiffness and cerebrovascular dysfunction in mice correlate with cognitive impairment but are not reduced with long-term ALT-711 treatment. *Physiological Reports*, 14(12), e70982. <https://doi.org/10.14814/PHY2.70982>;REQUESTEDJOURNAL:JOURNAL:2051817X;PAGEGROUP:STRING:PUBLICATION
7. Sabouri, M., Zheng, X., Irwin, B. J., Li, Z., Berg Sen, J., Bernardo, J., & Machin, D. R. (2026). Inbred C57BL/6J and C57BL/6N mice exhibit differential vascular dysfunction compared with outbred UM-HET3 mice. <https://doi.org/10.1152/Ajphheart.00863.2025>
8. Wahba, S., Badmus, O. O., Wasson, A. R., Parrow, L. D., Abdel-Hakeem, E. A., Merhan, , Ragy, M., Hanaa, , Ibrahim, M., Stec, D. E., Wahba, S., Badmus, , O O, Wasson, , A R, Parrow, , L D, Stec, , D E, Abdel-Hakeem, E. A., Ragy, , M M, & Ibrahim, , H M. (2026). Sex dimorphism in the cardiovascular responses to d-galactose-induced accelerated aging: effects of HO-1 modulation. *GeroScience* 2026, 1–18. <https://doi.org/10.1007/S11357-026-02165-3>

9. Yan, D., Ji, T., Liang, X., Luo, M., Huang, Y., Luo, P., Yang, Z., Zhang, L., Li, T., Bai, Y. P., Zhang, C., & Ruan, L. (2026). ZNF384-Driven Fibulin-1 Exacerbates Vascular Stiffness via TGF- β /Smad3-Mediated Senescence and Fibrosis. *The FASEB Journal*, 40(6), e71599. <https://doi.org/10.1096/FJ.202501262RR>
10. Awad, R., Martin, E., Reddy, A. K., & Sharina, I. (2025). Protocol for non-invasive pulsed-Doppler evaluation of blood flow in the mouse ophthalmic artery. *STAR Protocols*, 6(3), 103893. <https://doi.org/10.1016/J.XPRO.2025.103893>
11. Badmus, O., Taylor, E., Arthur, G., Taylor, L., Wasson, A., & Wahba, S. (2025). Cardiovascular Disease Following Pregnancy in Mice Treated with an Insulin Receptor Antagonist. <https://doi.org/10.1152/Physiol.2025.40.S1.0481>, 40(S1). <https://doi.org/10.1152/PHYSIOL.2025.40.S1.0481>
12. Badran, M., Khalyfa, A., Bailey, C. A., Gozal, D., & Bender, S. B. (2025). Mineralocorticoid receptor antagonism prevents coronary microvascular dysfunction in intermittent hypoxia independent of blood pressure. *Sleep*, 48(9). <https://doi.org/10.1093/SLEEP/ZSAE296>
13. Badran, M., Puech, C., & Gozal, D. (2025). Prolonged intermittent hypoxia accelerates cardiovascular aging and mortality: insights from a murine model of OSA. *Npj Aging* 2025 11:1, 11(1), 92-. <https://doi.org/10.1038/s41514-025-00283-4>
14. Birnhuber, A., Biasin, V., Jain, P. P., Kwiatkowski, G., Boiarina, E., Wilhelm, J., Ahrens, K., Nagaraj, C., Olschewski, A., Witzernath, M., Chlopicki, S., Marsh, L. M., Tabeling, C., & Kwapiszewska, G. (2025). Pulmonary vascular remodeling in Fra-2 transgenic mice is driven by type 2 inflammation and accompanied by pulmonary vascular hyperresponsiveness. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, 328(3), L413–L429. https://doi.org/10.1152/AJPLUNG.00274.2024/ASSET/IMAGES/LARGE/AJPLUNG.00274.2024_F007.JPEG
15. Choi, Y. D., Kapadia, P., Spiegel, J., Cullen, A. E., LaFarga, J., & Walker, A. E. (2025). The impact of age and sex on cerebral and large artery stiffness and the response to pulse pressure. <https://doi.org/10.1152/Ajphheart.00525.2025>. <https://doi.org/10.1152/AJPHEART.00525.2025>
16. Hammond, S. T., Baumfalk, D. R., Horn, A. G., Scheuermann, B. C., Kunkel, O. N., Ade, C. J., & Behnke, B. J. (2025). Exercise pre-conditioning prevents vascular toxicity caused by infusion of 5-fluorouracil in male rats. *American Journal of Cancer Research*, 15(9), 4092. <https://doi.org/10.62347/UJCB2516>
17. Henry, A., Vanalderwert, L., Oszust, F., Wahart, A., Carvajal Berrio, D. A., Brauchle, E. M., Schenke-Layland, K., Brinckmann, J., Steenbock, H., Debelle, L., Six, I., Faury, G., Jaisson, S., Gillery, P., Durlach, V., Sartelet, H., Maurice, P., Bennasroune, A., Martiny, L., ... Blaise, S. (2025). Minoxidil and nebivolol restore aortic elastic fiber homeostasis in diabetic mice via potassium channel activation. *Frontiers in Physiology*, 16, 1648727. <https://doi.org/10.3389/FPHYS.2025.1648727/FULL>
18. Huang, J., Yan, J., Wan, Z., Ji, T., Li, H., Liang, W., Huang, Y., Yang, Z., Xiao, Y., Nie, H., & Zhang, C. (2025). Targeting MGLL: terazosin regulates glycerolipid metabolism to mitigate endothelial cell senescence. *Journal of Lipid Research*, 66(11), 100904. <https://doi.org/10.1016/J.JLR.2025.100904>
19. Jose, A., Pakkiriswami, S., Mercer, A., Paudel, Y., Yi, E., Fernando, J., Pulinilkunnil, T., & Kienesberger, P. C. (2025). Effect of cardiomyocyte-specific lipid phosphate phosphatase 3 overexpression on high-fat diet-

induced cardiometabolic dysfunction in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, 328(2), H333–H347.
https://doi.org/10.1152/AJPHEART.00518.2024/ASSET/IMAGES/LARGE/AJPHEART.00518.2024_F005.JPEG

20. Kopacz, A., Kloska, D., Bar, A., Targosz-Korecka, M., Cysewski, D., Awsiuk, K., Piechota-Polanczyk, A., Cichon, M., Chlopicki, S., Jozkowicz, A., & Grochot-Przeczek, A. (2025). Endothelial miR-34a deletion guards against aneurysm development despite endothelial dysfunction. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, 1871(5), 167812. <https://doi.org/10.1016/J.BBADIS.2025.167812>
21. Lujan, H. L., Kurtz, T. W., & DiCarlo, S. E. (2025). Systolic-dominant coronary flow in rats and mice: Challenging the diastolic paradigm across conscious and anaesthetized states. *Experimental Physiology*. <https://doi.org/10.1113/EP092514;PAGE:STRING:ARTICLE/CHAPTER>
22. Marshall, A. G., Stephens, D., Neikirk, K., Masenga, S. K., Shao, B., Crabtree, A., Vue, Z., Beasley, H. K., Garza-Lopez, E., Scudese, E., Rodriguez, B. I., Le, H., Damo, S., Taffet, G. E., Ochayi, O. M., McMillan, R., Afolabi, J. M., Exil, V., Oliver, A., ... Reddy, A. K. (2025). Alterations in Cardiovascular Parameters in 5xFAD Murine Model. *Cell Biochemistry and Function*, 43(11), e70138. <https://doi.org/10.1002/CBF.70138;WEBSITE:WEBSITE:ANALYTICALSCIENCEJOURNALS;WGROUPE:STRING:PUBLICATION>
23. Sharina, I., Awad, R., Cobb, S., Martin, E., Marrelli, S. P., & Reddy, A. K. (2025). Non-invasive real-time pulsed Doppler assessment of blood flow in mouse ophthalmic artery. *Cell Reports Methods*, 5(2), 100983. <https://doi.org/10.1016/J.CRMETH.2025.100983/ASSET/A9A13A5D-29AC-4A10-90E4-AB1FB3736E49/MAIN.ASSETS/FX1.JPG>
24. Vazquez, B., Hevia-Montiel, N., Perez-Gonzalez, J., & Haro, P. (2025). Weighted-VAE: A deep learning approach for multimodal data generation applied to experimental T. cruzi infection. *PLOS ONE*, 20(3), e0315843. <https://doi.org/10.1371/JOURNAL.PONE.0315843>
25. Venkatasubramanian, R., Darrah, M. A., Mahoney, S. A., Hutton, D. A., Maurer, G. S., Ludwig, K. R., Van Dongen, N. S., Greenberg, N. T., Longtine, A. G., Brunt, V. E., Singh, P., Galligan, J. J., Trujillo, M. N., Kapahi, P., Melov, S., Rossman, M. J., Seals, D. R., & Clayton, Z. S. (2025). Cellular Senescence Mediates Doxorubicin Chemotherapy-Induced Aortic Stiffening: Role of Glycation Stress. *Hypertension*. <https://doi.org/10.1161/HYPERTENSIONAHA.125.25408;CSUBTYPE:STRING:AHEAD>
26. Zheng, X., Sabouri, M., Irwin, B. J., Bernardo, J., & Machin, D. R. (2025). TcMAC21 mouse model recapitulates abnormal vascular physiology observed in humans with Down syndrome. *Physiological Reports*, 13(11), e70384. <https://doi.org/10.14814/PHY2.70384;WGROUPE:STRING:PUBLICATION>
27. Zhu, C., Bishop, T., Gregorich, Z. R., & Guo, W. (2025). Titin is a new factor regulating arterial stiffness through vascular smooth muscle cell tone in male rats. *Physiological Reports*, 13(6), e70270. <https://doi.org/10.14814/PHY2.70270;JOURNAL:JOURNAL:2051817X;WEBSITE:WEBSITE:PHYSOC;WGROUPE:STRING:PUBLICATION>
28. Angelini, A., Garcia Marquez, G., Malovannaya, A., Fiorotto, M. L., Saltzman, A., Jain, A., Trial, J. A., Taffet, G. E., & Cieslik, K. A. (2024). Sex Differences in Response to Diet Enriched with Glutathione Precursors in the Aging Heart. *The Journals of Gerontology: Series A*, 1(6). <https://doi.org/10.1093/GERONA/GLAE258>

29. Chen, C., Guo, L., Shen, Y., Hu, J., Gu, J., & Ji, G. (2024). Oxidative damage and cardiotoxicity induced by 2-aminobenzothiazole in zebrafish (*Danio rerio*). *Journal of Hazardous Materials*, 476, 135032. <https://doi.org/10.1016/J.JHAZMAT.2024.135032>
30. Ji, T., Yan, D., Huang, Y., Luo, M., Zhang, Y., Xu, T., Gao, S., Zhang, L., Ruan, L., & Zhang, C. (2024). Fibulin 1, targeted by microRNA-24-3p, promotes cell proliferation and migration in vascular smooth muscle cells, contributing to the development of atherosclerosis in APOE^{-/-} mice. *Gene*, 898, 148129. <https://doi.org/10.1016/J.GENE.2024.148129>
31. Karaś, A., Bar, A., Pandian, K., Jasztal, A., Kuryłowicz, Z., Kutryb-Zajac, B., Buczek, E., Rocchetti, S., Mohaissen, T., Jędrzejewska, A., Harms, A. C., Kaczara, P., & Chłopicki, S. (2024). Functional deterioration of vascular mitochondrial and glycolytic capacity in the aortic rings of aged mice. *GeroScience*, 1–14. <https://doi.org/10.1007/S11357-024-01091-6/FIGURES/6>
32. Kij, A., Bar, A., Czyzyska-Cichon, I., Przyborowski, K., Proniewski, B., Mateuszuk, L., Kurylowicz, Z., Jasztal, A., Buczek, E., Kurpinska, A., Suraj-Prazmowska, J., Marczyk, B., Matyjaszyk-Gwarda, K., Daiber, A., Oelze, M., Walczak, M., & Chłopicki, S. (2024). Vascular protein disulfide isomerase A1 mediates endothelial dysfunction induced by angiotensin II in mice. *Acta Physiologica*, e14116. <https://doi.org/10.1111/APHA.14116>
33. Kress, T. C., Ajala, P., Jordan, C. R., Mintz, J., MacArthur, R., Kennard, S., Antonova, G., & Belin de Chantemèle, E. J. (2024). 12-week Dolutegravir treatment marginally reduces energy expenditure but does not increase body weight or alter vascular function in a murine model of Human Immunodeficiency Virus infection. *Vascular Pharmacology*, 155, 107288. <https://doi.org/10.1016/J.VPH.2024.107288>
34. Kwiatkowski, G., Czyzyska-Cichon, I., Tielemans, B., Geerkens, L., Jasztal, A., Velde, G. Vande, & Chłopicki, S. (2024). Retrospectively gated ultrashort-echo-time MRI T1 mapping reveals compromised pulmonary microvascular NO-dependent function in a murine model of acute lung injury. *NMR in Biomedicine*, 37(5), e5105. <https://doi.org/10.1002/NBM.5105>
35. Miyazaki-Anzai, S., Masuda, M., Keenan, A. L., Shiozaki, Y., Miranda, J. G., & Miyazaki, M. (2024). Activation of the IKK2/NF-κB pathway in VSMCs inhibits calcified vascular stiffness in CKD. *JCI Insight*, 9(7). <https://doi.org/10.1172/JCI.INSIGHT.174977>
36. Pośpiech, E., Bar, A., Pisarek-Pacek, A., Karaś, A., Branicki, W., & Chłopicki, S. (2024). Epigenetic clock in the aorta and age-related endothelial dysfunction in mice. *GeroScience*, 1–10. <https://doi.org/10.1007/S11357-024-01086-3/TABLES/1>
37. Vanalderwiert, L., Henry, A., Wahart, A., Carvajal Berrio, D. A., Brauchle, E. M., El Kaakour, L., Schenke-Layland, K., Brinckmann, J., Steenbock, H., Debelle, L., Six, I., Faury, G., Jaisson, S., Gillery, P., Durlach, V., Sartelet, H., Maurice, P., Bennasroune, A., Martiny, L., ... Blaise, S. (2024). Metabolic syndrome-associated murine aortic wall stiffening is associated with premature elastic fibers aging. *American Journal of Physiology. Cell Physiology*, 327(3), C698–C715. <https://doi.org/10.1152/AJPCELL.00615.2023/ASSET/IMAGES/MEDIUM/C-00615-2023R01.PNG>
38. Veerapaneni, P., Goo, B., Ahmadi, S., Shi, H., Kim, D. S., Ogbi, M., Cave, S., Chouhaita, R., Cyriac, N., Fulton, D. J., Verin, A. D., Chen, W., Lei, Y., Lu, X. Y., Kim, H. W., & Weintraub, N. L. (2024). Transgenic Overexpression

of HDAC9 Promotes Adipocyte Hypertrophy, Insulin Resistance and Hepatic Steatosis in Aging Mice. *Biomolecules*, 14(4), 494. <https://doi.org/10.3390/BIOM14040494/S1>

39. Wei, X., Li, Y., Jiang, T., Luo, P., Dai, Y., Wang, Q., Xu, M., Yan, J., Li, Y., Gao, J., Liu, L., Zhang, C., & Liu, Y. (2024). Terazosin attenuates abdominal aortic aneurysm formation by downregulating Peg3 expression to inhibit vascular smooth muscle cell apoptosis and senescence. *European Journal of Pharmacology*, 968, 176397. <https://doi.org/10.1016/J.EJPBAR.2024.176397>
40. Wojnar-Lason, K., Tyrankiewicz, U., Kij, A., Kurpinska, A., Kaczara, P., Kwiatkowski, G., Wilkosz, N., Giergiel, M., Stojak, M., Grosicki, M., Mohaissen, T., Jaształ, A., Kuryłowicz, Z., Szymonski, M., Czyzyska-Cichon, I., & Chlopicki, S. (2024). Chronic heart failure induces early defenestration of liver sinusoidal endothelial cells (LSECs) in mice. *Acta Physiologica*, e14114. <https://doi.org/10.1111/APHA.14114>
41. Akiyoshi, K., Fujimori, T., Fu, X., Shah, A. P., Yamaguchi, A., Steenbergen, C., Santhanam, L., Berkowitz, D., Taday, E., Baraban, J. M., & Das, S. (2023). Adenosine A2A Receptor Regulates microRNA-181b Expression in Aorta: Therapeutic Implications for Large-Artery Stiffness. *Journal of the American Heart Association*, 12(14), 28421. <https://doi.org/10.1161/JAHA.122.028421>
42. Baker P, Therrien C, Muir C, Garner S, & Neff B. (2023). Dietary thiaminase impairs cardiac function and increases heart size in lake trout (*Salvelinus namaycush* (Walbaum in Artedi, 1792)). *Canadian Journal of Zoology*. <https://web-s-ebscohost-com.usd.idm.oclc.org/ehost/pdfviewer/pdfviewer?vid=0&sid=df0df917-a562-4f85-b7c2-ebbd6122c2ac%40redis>
43. Behrmann, A., Zhong, D., Li, L., Xie, S., Mead, M., Sabaeifard, P., Goodarzi, M., Lemoff, A., Kozlitina, J., & Towler, D. A. (2023). Wnt16 Promotes Vascular Smooth Muscle Contractile Phenotype and Function via Taz (Wwtr1) Activation in Male LDLR^{-/-} Mice. *Endocrinology*, 165(2). <https://doi.org/10.1210/ENDOCR/BQAD192>
44. Berkowicz, P., Totoń-Żurańska, J., Kwiatkowski, G., Jaształ, A., Csípő, T., Kus, K., Tyrankiewicz, U., Orzyłowska, A., Wołkow, P., Tóth, A., & Chlopicki, S. (2023). Accelerated ageing and coronary microvascular dysfunction in chronic heart failure in Tgαq*44 mice. *GeroScience* 2023, 1–30. <https://doi.org/10.1007/S11357-022-00716-Y>
45. Bloom, S. I., Tucker, J. R., Machin, D. R., Abdeahad, H., Adeyemo, A. L. O., Thomas, T. G., Bramwell, R. C., Lesniewski, L. A., & Donato, A. J. (2023). Reduction of double-strand DNA break repair exacerbates vascular aging. *Aging (Albany NY)*, 15(19), 9913. <https://doi.org/10.18632/AGING.205066>
46. Buckley, D. J., Sharma, S., Joseph, B., Fayyaz, A. H., Canizales, A., Terrebonne, K. J., & Trott, D. W. (2023). Early life thymectomy induces arterial dysfunction in mice. *GeroScience*, 1–17. <https://doi.org/10.1007/S11357-023-00853-Y/FIGURES/9>
47. Buckman, M., Vasileva, A., Vasilyev, M., Jedlicka, C., Kalra, H., DeRuisseau, L., Tomasson, M., & Bates, M. (2023). Daunorubicin-induced arterial stiffness in Down syndrome. <https://doi.org/10.1152/Physiol.2023.38.S1.5733537>, 38(S1). <https://doi.org/10.1152/PHYSIOL.2023.38.S1.5733537>
48. Dona, M. S. I., Hsu, I., Meuth, A. I., Brown, S. M., Bailey, C. A., Aragonez, C. G., Russell, J. J., Krstevski, C., Aroor, A. R., Chandrasekar, B., Luis, J., Martinez-Lemus, A., Demarco, V. G., Grisanti, L. A., Jaffe, I. Z., Alexander, J.,

- Pinto, R., Bender, S. B., & Pinto, A. R. (2023). Multi-omic analysis of the cardiac cellulome defines a vascular contribution to cardiac diastolic dysfunction in obese female mice. *Basic Research in Cardiology* 2023 118:1, 118(1), 1–20. <https://doi.org/10.1007/S00395-023-00983-6>
49. Ecton, K. E., Graham, E. L., Risk, B. D., Brown, G. D., Stark, G. C., Wei, Y., Trikha, S. R. J., Weir, T. L., & Gentile, C. L. (2023). Toll-like receptor 4 deletion partially protects mice from high fat diet-induced arterial stiffness despite perturbation to the gut microbiota. *Frontiers in Microbiomes*, 2, 1095997. <https://doi.org/10.3389/FRMBI.2023.1095997>
 50. Fleenor, B. S., Carlini, N. A., Ouyang, A., Du, B., & Harber, M. P. (2023). Greater aortic perivascular adipose tissue density is associated with aging, aortic stiffness, and central blood pressure in humans. *Journal of Applied Physiology*, 134(3), 703–709. https://doi.org/10.1152/JAPPLPHYSIOL.00745.2022/ASSET/IMAGES/LARGE/JAPPLPHYSIOL.00745.2022_F002.JPEG
 51. Foote, C. A., Ramirez-Perez, F. I., Smith, J. A., Ghiarone, T., Morales-Quinones, M., McMillan, N. J., Augenreich, M. A., Power, G., Burr, K., Aroor, A. R., Bender, S. B., Manrique-Acevedo, C., Padilla, J., & Martinez-Lemus, L. A. (2023). Neuraminidase inhibition improves endothelial function in diabetic mice. *American Journal of Physiology. Heart and Circulatory Physiology*, 325(6), H1337–H1353. https://doi.org/10.1152/AJPHEART.00337.2023/ASSET/IMAGES/LARGE/AJPHEART.00337.2023_F006.JPEG
 52. Longtine, A. G., Venkatasubramanian, R., Zigler, M. C., Lindquist, A. J., Mahoney, S. A., Greenberg, N. T., VanDongen, N. S., Ludwig, K. R., Moreau, K. L., Seals, D. R., & Clayton, Z. S. (2023). Female C57BL/6N mice are a viable model of aortic aging in women. *American Journal of Physiology. Heart and Circulatory Physiology*, 324(6), H893–H904. https://doi.org/10.1152/AJPHEART.00120.2023/ASSET/IMAGES/LARGE/AJPHEART.00120.2023_F006.JPEG
 53. Machin, D. R., Trott, D. W., Gogulamudi, V. R., Islam, M. T., Bloom, S. I., Vink, H., Lesniewski, L. A., & Donato, A. J. (2023). Glycocalyx-targeted therapy ameliorates age-related arterial dysfunction. *GeroScience*, 1–15. <https://doi.org/10.1007/S11357-023-00745-1/FIGURES/5>
Eichhorn, L., Weisheit, C. K., Gestrich, C., Peukert, K., Duerr, G. D., Ayub, M. A., Erdfelder, F., & Stöckigt, F. (2018). A Closed-chest Model to Induce Transverse Aortic Constriction in Mice. *Journal of Visualized Experiments : JoVE*, 2018(134). <https://doi.org/10.3791/57397>
 54. Marshall, A. G., Neikirk, K., Barongan, T., Shao, B., Crabtree, A., Stephens, D., Vue, Z., Beasley, H. K., Garza-Lopez, E., Scudese, E., Damo, S., Gomez, J. A., Taffet, G. E., Hinton, A. O., & Reddy, A. K. (2023). Alterations in Cardiovascular and Cerebral Pulse Wave Velocity in 5XFAD Murine Model of Alzheimer's Disease. *BioRxiv*, 2023.06.22.546154. <https://doi.org/10.1101/2023.06.22.546154>
 55. Marshall, A. G., Neikirk, K., Vue, Z., Beasley, H. K., Garza-Lopez, E., Vang, L., Barongan, T., Evans, Z., Crabtree, A., Spencer, E., Anudokem, J., Parker, R., Davis, J., Stephens, D., Damo, S., Pham, T. T., Gomez, J. A., Exil, V., Dai, D. F., ... Reddy, A. K. (2023). Cardiovascular hemodynamics in mice with tumor necrosis factor receptor—associated factor 2 mediated cytoprotection in the heart. *Frontiers in Cardiovascular Medicine*, 10, 1064640. <https://doi.org/10.3389/FCVM.2023.1064640/BIBTEX>
 56. Morales-Rubio, R., Bernal-Ramírez, J., Rubio-Infante, N., Luévano-Martínez, L. A., Ríos, A., Escalante, B. A., García-Rivas, G., & Rodríguez González, J. (2023). Cellular shortening and calcium dynamics are improved by

noisy stimulus in a model of cardiomyopathy. *Scientific Reports* 2023 13:1, 13(1), 1–11.
<https://doi.org/10.1038/s41598-023-41611-6>

57. Navarro-Garcia, J. A., Lahiri, S. K., Aguilar-Sanchez, Y., Reddy, A. K., & Wehrens, X. H. T. (2023). Characterization of atrial and ventricular remodeling in an improved minimally invasive mouse model of transverse aortic constriction. *The Journal of Cardiovascular Aging*, 3(3).
<https://doi.org/10.20517/JCA.2023.18>
58. Niu, F., Li, Z., Ren, Y., Li, Z., Guan, H., Li, Y., Zhang, Y., Li, Y., Yang, J., Qian, L., Shi, W., Fan, X., Li, J., Shi, L., Yu, Y., & Xiong, Y. (2023). Aberrant hyper-expression of the RNA binding protein GIGYF2 in endothelial cells modulates vascular aging and function. *Redox Biology*, 65, 102824.
<https://doi.org/10.1016/J.REDOX.2023.102824>
59. Torikul Islam, M., Hall, S. A., Dutson, T., Bloom, S. I., Colton Bramwell, R., Kim, J., Tucker, J. R., Machin, D. R., Donato, A. J., Lesniewski, L. A., & Lisa Lesniewski, C. A. (2023). Endothelial cell-specific reduction in mTOR ameliorates age-related arterial and metabolic dysfunction. *Aging Cell*, 00, e14040.
<https://doi.org/10.1111/ACEL.14040>
60. Wang, Z., Yang, F., He, Z., & Liang, C. (2023). Light-induced circadian rhythm disorder leads to microvascular dysfunction via up-regulating NETs. *Microvascular Research*, 150, 104592.
<https://doi.org/10.1016/J.MVR.2023.104592>
61. Zheng, X., Berg Sen, J., Li, Z., Sabouri, M., Samarah, L., Deacon, C., Bernardo, J., & Machin, D. (2023). High-Salt Diet Augments Systolic Blood Pressure and Induces Arterial Dysfunction in Outbred, Genetically Diverse Mice. *Physiology*, 38(S1). <https://doi.org/10.1152/PHYSIOL.2023.38.S1.5727696>
62. Zheng, X., Li, Z., Berg Sen, J., Samarah, L., Deacon, C. S., Bernardo, J., & Machin, D. R. (2023). Western diet augments metabolic and arterial dysfunction in a sex-specific manner in outbred, genetically diverse mice. *Frontiers in Nutrition*, 9(4), H473–H483. <https://doi.org/10.3389/FNUT.2022.1090023>
63. Angelini, A., Ortiz-Urbina, J., Trial, J. A., Reddy, A. K., Malovannaya, A., Jain, A., Entman, M. L., Taffet, G. E., & Cieslik, K. A. (2022). Sex-specific phenotypes in the aging mouse heart and consequences for chronic fibrosis. *American Journal of Physiology. Heart and Circulatory Physiology*, 323(2), H285–H300.
<https://doi.org/10.1152/AJPHEART.00078.2022>
64. Badran, M., Bender, S. B., Khalyfa, A., Padilla, J., Martinez-Lemus, L. A., & Gozal, D. (2022). Temporal changes in coronary artery function and flow velocity reserve in mice exposed to chronic intermittent hypoxia. *Sleep*, 45(9). <https://doi.org/10.1093/SLEEP/ZSAC131>
65. Brunt, V. E., Greenberg, N. T., Sapinsley, Z. J., Casso, A. G., Richey, J. J., VanDongen, N. S., Gioscia-Ryan, R. A., Ziemba, B. P., Neilson, A. P., Davy, K. P., & Seals, D. R. (2022). Suppression of trimethylamine N-oxide with DMB mitigates vascular dysfunction, exercise intolerance, and frailty associated with a Western-style diet in mice. *Journal of Applied Physiology* (Bethesda, Md. : 1985).
<https://doi.org/10.1152/JAPPLPHYSIOL.00350.2022>

66. Can, E., Smith, M., Boukens, B. J., Coronel, R., Buffenstein, R., & Riegler, J. (2022). Naked mole-rats maintain cardiac function and body composition well into their fourth decade of life. *GeroScience*, 44(2), 731–746. <https://doi.org/10.1007/S11357-022-00522-6>
67. Fan, J., Wang, S., Chen, K., & Sun, Z. (2022). Aging impairs arterial compliance via Klotho-mediated downregulation of B-cell population and IgG levels. *Cellular and Molecular Life Sciences : CMLS*, 79(9). <https://doi.org/10.1007/S00018-022-04512-X>
68. Gogulamudi, V. R., Machin, D. R., Henson, G. D., Lim, J., Bramwell, R. C., Durrant, J. R., Donato, A. J., & Lesniewski, L. A. (2022). Sirt1 overexpression attenuates Western-style diet-induced aortic stiffening in mice. *Physiological Reports*, 10(9). <https://doi.org/10.14814/PHY2.15284>
69. Muir, C. A., Garner, S. R., Damjanovski, S., & Neff, B. D. (2022). Temperature-dependent plasticity mediates heart morphology and thermal performance of cardiac function in juvenile Atlantic salmon (*Salmo salar*). *The Journal of Experimental Biology*, 225(16). <https://doi.org/10.1242/JEB.244305>
70. Reeve, E. H., Kronquist, E. K., Wolf, J. R., Lee, B., Khurana, A., Pham, H., Cullen, A. E., Peterson, J. A., Meza, A., Colton Bramwell, R., Villasana, L., Machin, D. R., Henson, G. D., & Walker, A. E. (2022). Pyridoxamine treatment ameliorates large artery stiffening and cerebral artery endothelial dysfunction in old mice. <https://doi.org/10.1177/0271678X221130124>, 43(2), 281–295. <https://doi.org/10.1177/0271678X221130124>
71. Singh, A. K., KILARI, S., CAI, C., & MISRA, S. (2022). Bindarit encapsulated nanoparticles prevent venous neointimal hyperplasia and restenosis in a murine angioplasty model. *Translational Research : The Journal of Laboratory and Clinical Medicine*, 248, 68–86. <https://doi.org/10.1016/J.TRSL.2022.06.002>
72. Wang, C., Zhang, Y., Methawasin, M., Braz, C. U., Gao-Hu, J., Yang, B., Strom, J., Gohlke, J., Hacker, T., Khatib, H., Granzier, H., & Guo, W. (2022). RBM20 S639G mutation is a high genetic risk factor for premature death through RNA-protein condensates. *Journal of Molecular and Cellular Cardiology*, 165, 115–129. <https://doi.org/10.1016/J.YJMCC.2022.01.004>
73. Berquand, A., Wahart, A., Henry, A., Gorisse, L., Maurice, P., Blaise, S., Romier-Crouzet, B., Pietrement, C., Bennisroune, A., Sartelet, H., Jaisson, S., Gillery, P., Martiny, L., Touré, F., Duca, L., & Molinari, M. (2021). Revealing the elasticity of an individual aortic fiber during ageing at nanoscale by in situ atomic force microscopy. *Nanoscale*, 13(2), 1124–1133. <https://doi.org/10.1039/D0NR06753A>
74. Cai, C., Kilari, S., Zhao, C., Singh, A. K., Simeon, M. L., Misra, A., Li, Y., Takahashi, E., Kumar, R., & Misra, S. (2021). Adventitial delivery of nanoparticles encapsulated with 1 α , 25-dihydroxyvitamin D3 attenuates restenosis in a murine angioplasty model. *Scientific Reports* 2021 11:1, 11(1), 1–15. <https://doi.org/10.1038/s41598-021-84444-x>
75. Doué, M., Okwieka, A., Berquand, A., Gorisse, L., Maurice, P., Velard, F., Terryn, C., Molinari, M., Duca, L., Piétrement, C., Gillery, P., & Jaisson, S. (2021). Carbamylation of elastic fibers is a molecular substratum of aortic stiffness. *Scientific Reports* 2021 11:1, 11(1), 1–11. <https://doi.org/10.1038/s41598-021-97293-5>
76. Jiang, J., Reho, J. J., Bhattarai, S., Cherascu, I., Hedberg-Buenz, A., Meyer, K. J., Tayyari, F., Rauckhorst, A. J., Guo, D. F., Morgan, D. A., Taylor, E. B., Anderson, M. G., Drack, A. V., & Rahmouni, K. (2021). Endothelial

BBSome is essential for vascular, metabolic, and retinal functions. *Molecular Metabolism*, 53.
<https://doi.org/10.1016/j.MOLMET.2021.101308>

77. Kwiatkowski, G., Bar, A., Jasztal, A., & Chłopicki, S. (2021). MRI-based in vivo detection of coronary microvascular dysfunction before alterations in cardiac function induced by short-term high-fat diet in mice. *Scientific Reports* 2021 11:1, 11(1), 1–13. <https://doi.org/10.1038/s41598-021-98401-1>
78. Malek Mohammadi, M., Abouissa, A., & Heineke, J. (2021). A surgical mouse model of neonatal pressure overload by transverse aortic constriction. *Nature Protocols*, 16(2), 775–790.
<https://doi.org/10.1038/s41596-020-00434-9>
79. Martin, B., Vanderpool, R. R., Henry, B. L., Palma, J. B., Gabris, B., Lai, Y.-C., Hu, J., Tofovic, S. P., Reddy, R. P., Mora, A. L., Gladwin, M. T., Romero, G., & Salama, G. (2021). Relaxin Inhibits Ventricular Arrhythmia and Asystole in Rats With Pulmonary Arterial Hypertension. *Frontiers in Cardiovascular Medicine*, 0, 663.
<https://doi.org/10.3389/FCVM.2021.668222>
80. Muir, C. A., Neff, B. D., & Damjanovski, S. (2021). Adaptation of a mouse Doppler echocardiograph system for assessing cardiac function and thermal performance in a juvenile salmonid. *Conservation Physiology*, 9(1). <https://doi.org/10.1093/CONPHYS/COAB070>
81. Nomura, Y., Nakano, M., Woo Sung, H., Han, M., & Pandey, D. (2021). Inhibition of HDAC6 Activity Protects Against Endothelial Dysfunction and Atherogenesis in vivo: A Role for HDAC6 Neddylation. *Frontiers in Physiology*, 12, 838. <https://doi.org/10.3389/FPHYS.2021.675724/BIBTEX>
82. Perez, J. E. T., Ortiz-Urbina, J., Heredia, C. P., Pham, T. T., Madala, S., Hartley, C. J., Entman, M. L., Taffet, G. E., & Reddy, A. K. (2021). Aortic acceleration as a noninvasive index of left ventricular contractility in the mouse. *Scientific Reports*, 11(1). <https://doi.org/10.1038/s41598-020-79866-y>
83. Rodriguez, S., Little, H. C., Daneshpajouhnejad, P., Fenaroli, P., Tan, S. Y., Sarver, D. C., Delannoy, M., Talbot, C. C., Jandu, S., Berkowitz, D. E., Pluznick, J. L., Rosenberg, A. Z., & Wong, G. W. (2021). Aging and chronic high-fat feeding negatively affect kidney size, function, and gene expression in CTRP1-deficient mice. *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology*, 320(1), R19–R35.
<https://doi.org/10.1152/AJPREGU.00139.2020>
84. Tharp, D. L., & Bowles, D. K. (2021). K Ca 3.1 Inhibition Decreases Size and Alters Composition of Atherosclerotic Lesions Induced by Low, Oscillatory Flow. *Artery Research*, 27(2), 93–100.
<https://doi.org/10.2991/ARTRES.K.210202.001>
85. Trial, J. A., Diaz Lankenau, R., Angelini, A., Tovar Perez, J. E., Taffet, G. E., Entman, M. L., & Cieslik, K. A. (2021). Treatment with a DC-SIGN ligand reduces macrophage polarization and diastolic dysfunction in the aging female but not male mouse hearts. *GeroScience*, 43(2), 881–899. <https://doi.org/10.1007/s11357-020-00255-4>
86. Trikha, S. R. J., Lee, D. M., Ecton, K. E., Wrigley, S. D., Vazquez, A. R., Litwin, N. S., Thomas, K. N., Wei, Y., Battson, M. L., Johnson, S. A., Kuhn, K. A., Colgan, S. P., Gentile, C. L., & Weir, T. L. (2021). Transplantation of an obesity-associated human gut microbiota to mice induces vascular dysfunction and glucose intolerance. *Gut Microbes*, 13(1). <https://doi.org/10.1080/19490976.2021.1940791>

87. Trott, D. W., Machin, D. R., Phuong, T. T. T., Adeyemo, A. L. O., Bloom, S. I., Bramwell, R. C., Sorensen, E. S., Lesniewski, L. A., & Donato, A. J. (2021). T cells mediate cell non-autonomous arterial ageing in mice. *The Journal of Physiology*, 599(16), 3973–3991. <https://doi.org/10.1113/JP281698>
88. Tuday, E., Nakano, M., Akiyoshi, K., Fu, X., Shah, A. P., Yamaguchi, A., Steenbergen, C., Santhanam, L., An, S. S., Berkowitz, D., Baraban, J. M., & Das, S. (2021). Degradation of Premature-miR-181b by the Translin/Trax RNase Increases Vascular Smooth Muscle Cell Stiffness. *Hypertension (Dallas, Tex. : 1979)*, 78(3), 831–839. <https://doi.org/10.1161/HYPERTENSIONAHA.120.16690>
89. Wang, H., Chen, J., Jandu, S., Melucci, S., Savage, W., Nandakumar, K., Kang, S. K., Barreto-Ortiz, S., Poe, A., Rastogi, S., Bauer, M., Steppan, J., & Santhanam, L. (2021). Probing tissue transglutaminase mediated vascular smooth muscle cell aging using a novel transamidation-deficient Tgm2-C277S mouse model. *Cell Death Discovery* 2021 7:1, 7(1), 1–12. <https://doi.org/10.1038/s41420-021-00543-8>
90. Bar, A., Kieronska-Rudek, A., Proniewski, B., Suraj-Prażmowska, J., Czamara, K., Marczyk, B., Matyjaszczyk-Gwarda, K., Jaształ, A., Kuś, E., Majka, Z., Kaczor, A., Kurpińska, A., Walczak, M., Pieterman, E. J., Princen, H. M. G., & Chlopicki, S. (2020). In Vivo Magnetic Resonance Imaging-Based Detection of Heterogeneous Endothelial Response in Thoracic and Abdominal Aorta to Short-Term High-Fat Diet Ascribed to Differences in Perivascular Adipose Tissue in Mice. *Journal of the American Heart Association*, 9(21). <https://doi.org/10.1161/JAHA.120.016929>
91. Bashline, M. J., Bachman, T. N., Helbling, N. L., Nouraie, M., Gladwin, M. T., & Simon, M. A. (2020). The Effects of Inhaled Sodium Nitrite on Pulmonary Vascular Impedance in Patients With Pulmonary Hypertension Associated with Heart Failure With Preserved Ejection Fraction. *Journal of Cardiac Failure*, 26(8), 654–661. <https://doi.org/10.1016/j.cardfail.2020.04.006>
92. Cai, C., Kilari, S., Zhao, C., Simeon, M. L., Misra, A., Li, Y., van Wijnen, A. J., Mukhopadhyay, D., & Misra, S. (2020). Therapeutic Effect of Adipose Derived Mesenchymal Stem Cell Transplantation in Reducing Restenosis in a Murine Angioplasty Model. *Journal of the American Society of Nephrology*, 31(8), 1781–1795. <https://doi.org/10.1681/ASN.2019101042>
93. Cai, C., Zhao, C., Kilari, S., Sharma, A., Singh, A. K., Simeon, M. L., Misra, A., Li, Y., & Misra, S. (2020). Effect of sex differences in treatment response to angioplasty in a murine arteriovenous fistula model. *American Journal of Physiology. Renal Physiology*, 318(3), F565–F575. <https://doi.org/10.1152/AJPRENAL.00474.2019>
94. Cai, C., Zhao, C., Kilari, S., Sharma, A., Singh, A. K., Simeon, M. L., Misra, A., Li, Y., & Misra, S. (2020). Experimental murine arteriovenous fistula model to study restenosis after transluminal angioplasty. *Lab Animal*, 49(11), 320–334. <https://doi.org/10.1038/s41684-020-00659-x>
95. Clark, J. L., Loader, T. B., Anderson, H. D., Zahradka, P., & Taylor, C. G. (2020). Regular black bean consumption is necessary to sustain improvements in small-artery vascular compliance in the spontaneously hypertensive rat. *Nutrients*, 12(3). <https://doi.org/10.3390/nu12030685>
96. Elimban, V., Xu, Y. J., Bhullar, S. K., & Dhalla, N. S. (2020). Temperature-dependent effects on CO₂ water bath therapy induced changes in blood flow and vascularity in hind limb ischemia. *Canadian Journal of Physiology and Pharmacology*, 98(4), 228–235. <https://doi.org/10.1139/cjpp-2019-0537>

97. Feng, R., Ullah, M., Chen, K., Ali, Q., Lin, Y., & Sun, Z. (2020). Stem cell-derived extracellular vesicles mitigate ageing-associated arterial stiffness and hypertension. *Journal of Extracellular Vesicles*, 9(1). <https://doi.org/10.1080/20013078.2020.1783869>
98. Hori, D., Nomura, Y., Nakano, M., Han, M., Bhatta, A., Chen, K., Akiyoshi, K., & Pandey, D. (2020). Endothelial-Specific Overexpression of Histone Deacetylase 2 Protects Mice against Endothelial Dysfunction and Atherosclerosis. *Cellular Physiology and Biochemistry : International Journal of Experimental Cellular Physiology, Biochemistry, and Pharmacology*, 54(5), 947–958. <https://doi.org/10.33594/000000280>
99. Kerkhofs, D., Van Hagen, B. T., Milanova, I. V., Schell, K. J., Van Essen, H., Wijnands, E., Goossens, P., Blankesteyn, W. M., Unger, T., Prickaerts, J., Biessen, E. A., Van Oostenbrugge, R. J., & Foulquier, S. (2020). Pharmacological depletion of microglia and perivascular macrophages prevents Vascular Cognitive Impairment in Ang II-induced hypertension. *Theranostics*, 10(21), 9512. <https://doi.org/10.7150/THNO.44394>
100. Lee, D. M., Ecton, K. E., Trikha, S. R. J., Wrigley, S. D., Thomas, K. N., Battson, M. L., Wei, Y., Johnson, S. A., Weir, T. L., & Gentile, C. L. (2020). Microbial metabolite indole-3-propionic acid supplementation does not protect mice from the cardiometabolic consequences of a Western diet. *American Journal of Physiology - Gastrointestinal and Liver Physiology*, 319(1), G51–G62. <https://doi.org/10.1152/AJPGI.00375.2019/ASSET/IMAGES/LARGE/ZH30062077930008.JPEG>
101. Little, M., Pereira, P., & Seymour, J. (2020). Differences in Cardiac Effects of Venoms from Tentacles and the Bell of Live *Carukia barnesi*: Using Non-Invasive Pulse Wave Doppler. *Toxins*, 13(1). <https://doi.org/10.3390/toxins13010019>
102. Machin, D. R., Auduong, Y., Gogulamudi, V. R., Liu, Y., Islam, M. T., Lesniewski, L. A., & Donato, A. J. (2020). Lifelong SIRT-1 overexpression attenuates large artery stiffening with advancing age. *Aging*, 12(12), 11314–11324. <https://doi.org/10.18632/AGING.103322>
103. Rodriguez, S., Little, H. C., Daneshpajouhnejad, P., Shepard, B. D., Tan, S. Y., Wolfe, A., Cheema, M. U., Jandu, S., Woodward, O. M., Talbot, C. C., Berkowitz, D. E., Rosenberg, A. Z., Pluznick, J. L., & Wong, G. W. (2020). Late-onset renal hypertrophy and dysfunction in mice lacking CTRP1. *FASEB Journal*, 34(2), 2657–2676. <https://doi.org/10.1096/fj.201900558RR>
104. Seymour, J., Saggiomo, S., Lam, W., Pereira, P., & Little, M. (2020). Non-invasive assessment of the cardiac effects of *Chironex fleckeri* and *Carukia barnesi* venoms in mice, using pulse wave doppler. *Toxicon*, 185, 15–25. <https://doi.org/10.1016/j.toxicon.2020.06.018>
105. Shen, Y., Goncharov, D. A., Avolio, T., Ray, A., Okorie, E., DeLisser, H., Mora, A. L., Vanderpool, R., Kudryashova, T. V., & Goncharova, E. A. (2020). Differential effects of integrin-linked kinase inhibitor Cpd22 on severe pulmonary hypertension in male and female rats. *Pulmonary Circulation*, 10(1). <https://doi.org/10.1177/2045894019898593>
106. Song, L., Chen, X., Swanson, T. A., Laviolette, B., Pang, J., Cunio, T., Nagle, M. W., Asano, S., Hales, K., Shipstone, A., Sobon, H., Al-Harthy, S. D., Ahn, Y., Kreuser, S., Robertson, A., Ritenour, C., Voigt, F., Boucher, M., Sun, F., ... Flach, R. J. R. (2020). Lymphangiogenic therapy prevents cardiac dysfunction by ameliorating inflammation and hypertension. *ELife*, 9, 1–29. <https://doi.org/10.7554/ELIFE.58376>

107. Steppan, J., Jandu, S., Savage, W., Wang, H., Kang, S., Narayanan, R., Nyhan, D., & Santhanam, L. (2020). Restoring Blood Pressure in Hypertensive Mice Fails to Fully Reverse Vascular Stiffness. *Frontiers in Physiology*, 11. <https://doi.org/10.3389/FPHYS.2020.00824>
108. Visker, J. R., Dangott, L. J., Leszczynski, E. C., & Ferguson, D. P. (2020). Postnatal Growth Restriction in Mice Alters Cardiac Protein Composition and Leads to Functional Impairment in Adulthood. *International Journal of Molecular Sciences*, 21(24), 1–22. <https://doi.org/10.3390/IJMS21249459>
109. Zhang, Y., Zhao, J., Ding, R., Niu, W., He, Z., & Liang, C. (2020). Pre-treatment with compound Danshen dripping pills prevents lipid infusion-induced microvascular dysfunction in mice. *Pharmaceutical Biology*, 58(1), 701–706. <https://doi.org/10.1080/13880209.2020.1790619>
110. Agbor, L. N., Nair, A. R., Wu, J., Lu, K. T., Davis, D. R., Keen, H. L., Quelle, F. W., McCormick, J. A., Singer, J. D., & Sigmund, C. D. (2019). Conditional deletion of smooth muscle Cullin-3 causes severe progressive hypertension. *JCI Insight*, 4(14). <https://doi.org/10.1172/JCI.INSIGHT.129793>
111. Battson, M. L., Lee, D. M., Li Puma, L. C., Ecton, K. E., Thomas, K. N., Febvre, H. P., Chicco, A. J., Weir, T. L., & Gentile, C. L. (2019). Gut microbiota regulates cardiac ischemic tolerance and aortic stiffness in obesity. *American Journal of Physiology. Heart and Circulatory Physiology*, 317(6), H1210–H1220. <https://doi.org/10.1152/AJPHEART.00346.2019>
112. Benslimane, F. M., Alser, M., Zakaria, Z. Z., Sharma, A., Abdelrahman, H. A., & Yalcin, H. C. (2019). Adaptation of a Mice Doppler Echocardiography Platform to Measure Cardiac Flow Velocities for Embryonic Chicken and Adult Zebrafish. *Frontiers in Bioengineering and Biotechnology*, 0, 96. <https://doi.org/10.3389/FBIOE.2019.00096>
113. Cai, C., Yang, B., Kilari, S., Li, Y., Zhao, C., Sharma, A., & Misra, S. (2019). Evaluation of Venous Stenosis Angioplasty in a Murine Arteriovenous Fistula Model. *Journal of Vascular and Interventional Radiology*, 30(9), 1512–1521.e3. <https://doi.org/10.1016/j.jvir.2018.11.032>
114. Duerr, G. D., Heinemann, J. C., Kley, J., Eichhorn, L., Frede, S., Weisheit, C., Wehner, S., Bindila, L., Lutz, B., Zimmer, A., & Dewald, O. (2019). Myocardial maladaptation to pressure overload in CB2 receptor-deficient mice. *Journal of Molecular and Cellular Cardiology*, 133, 86–98. <https://doi.org/10.1016/j.yjmcc.2019.06.003>
115. Ferguson, D. P., Monroe, T. O., Heredia, C. P., Fleischmann, R., Rodney, G. G., Taffet, G. E., & Fiorotto, M. L. (2019). Postnatal undernutrition alters adult female mouse cardiac structure and function leading to limited exercise capacity. *Journal of Physiology*, 597(7), 1855–1872. <https://doi.org/10.1113/JP277637>
116. Fukunishi, T., Ong, C. S., Lui, C., Pitaktong, I., Smoot, C., Harris, J., Gabriele, P., Vricella, L., Santhanam, L., Lu, S., & Hibino, N. (2019). Formation of Neoarteries with Optimal Remodeling Using Rapidly Degrading Textile Vascular Grafts. *Tissue Engineering - Part A*, 25(7–8), 632–641. <https://doi.org/10.1089/ten.tea.2018.0167>
117. Grund, A., Szaroszyk, M., Korf-Klingebiel, M., Malek Mohammadi, M., Trogisch, F. A., Schrameck, U., Gigina, A., Tiedje, C., Gaestel, M., Kraft, T., Hegermann, J., Batkai, S., Thum, T., Perrot, A., Remedios, C. dos, Riechert, E., Völkers, M., Doroudgar, S., Jungmann, A., ... Heineke, J. (2019). TIP 30 counteracts cardiac hypertrophy and failure by inhibiting translational elongation. *EMBO Molecular Medicine*, 11(10). <https://doi.org/10.15252/emmm.201810018>

118. Malek Mohammadi, M., Abouissa, A., Azizah, I., Xie, Y., Cordero, J., Shirvani, A., Gigina, A., Engelhardt, M., Trogisch, F. A., Geffers, R., Dobрева, G., Bauersachs, J., & Heineke, J. (2019). Induction of cardiomyocyte proliferation and angiogenesis protects neonatal mice from pressure overload-associated maladaptation. *JCI Insight*, 5(16). <https://doi.org/10.1172/JCI.INSIGHT.128336>
119. Mukohda, M., Fang, S., Wu, J., Agbor, L. N., Nair, A. R., Ibeawuchi, S.-R. C., Hu, C., Liu, X., Lu, K.-T., Guo, D.-F., Davis, D. R., Keen, H. L., Quelle, F. W., Sigmund, C. D., & Carver, L. A. (2019). RhoBTB1 Protects Against Hypertension and Arterial Stiffness by Restraining Phosphodiesterase 5 Activity. *J Clin Invest*, 129(6), 2318-2332. doi: 10.1172/JCI123462.
120. Reho, J. J., Guo, D. F., Morgan, D. A., & Rahmouni, K. (2019). Smooth Muscle Cell-Specific Disruption of the BBSome Causes Vascular Dysfunction. *Hypertension*, 74(4), 817–825. <https://doi.org/10.1161/HYPERTENSIONAHA.119.13382>
121. Slater, R. E., Strom, J. G., Methawasin, M., Liss, M., Gotthardt, M., Sweitzer, N., & Granzier, H. L. (2019). Metformin improves diastolic function in an HFpEF-like mouse model by increasing titin compliance. *The Journal of General Physiology*, 151(1), 42–52. <https://doi.org/10.1085/JGP.201812259>
122. Steppan, J., Wang, H., Bergman, Y., Rauer, M. J., Tan, S., Jandu, S., Nandakumar, K., Barreto-Ortiz, S., Cole, R. N., Boronina, T. N., Zhu, W., Halushka, M. K., An, S. S., Berkowitz, D. E., & Santhanam, L. (2019). Lysyl oxidase-like 2 depletion is protective in age-associated vascular stiffening. *American Journal of Physiology. Heart and Circulatory Physiology*, 317(1), H49–H59. <https://doi.org/10.1152/AJPHEART.00670.2018>
123. Taday, E., Nomura, Y., Ruhela, D., Nakano, M., Fu, X., Shah, A., Roman, B., Yamaguchi, A., An, S. S., Steenbergen, C., Baraban, J. M., Berkowitz, D. E., & Das, S. (2019). Deletion of the microRNA-degrading nuclease, translin/trax, prevents pathogenic vascular stiffness. *American Journal of Physiology - Heart and Circulatory Physiology*, 317(5), H1116–H1124. <https://doi.org/10.1152/AJPHEART.00153.2019/ASSET/IMAGES/LARGE/ZH40111929560006.JPEG>
124. Alsiraj, Y. (2018). Role of sex chromosomes in sexual dimorphism of angii-induced abdominal aortic aneurysms. 22. <https://doi.org/10.13023/ETD.2018.069>
125. Armstrong, D. M. F., Sikka, G., Armstrong, A. da C., Saad, K. R., de Freitas, W. R., Berkowitz, D. E., Fagundes, D. J., Santhanam, L., & Taha, M. O. (2018). Knockdown of transglutaminase-2 prevents early age-induced vascular changes in mice. *Acta Cirurgica Brasileira*, 33(11), 991–999. <https://doi.org/10.1590/s0102-865020180110000006>
126. Battson, M. L., Lee, D. M., Jarrell, D. K., Hou, S., Ecton, K. E., Weir, T. L., & Gentile, C. L. (2018). Suppression of gut dysbiosis reverses Western diet-induced vascular dysfunction. *American Journal of Physiology - Endocrinology and Metabolism*, 314(5), E468. <https://doi.org/10.1152/AJPENDO.00187.2017>
127. Cieslik, K. A., Sekhar, R. V., Granillo, A., Reddy, A., Medrano, G., Heredia, C. P., Entman, M. L., Hamilton, D. J., Li, S., Reineke, E., Gupte, A. A., Zhang, A. M. D., & Taffet, G. E. (2018). Improved cardiovascular function in old mice after N-Acetyl cysteine and glycine supplemented diet: Inflammation and mitochondrial factors. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, 73(9), 1167–1177. <https://doi.org/10.1093/gerona/gly034>

128. Lee, D. M., Battson, M. L., Jarrell, D. K., Hou, S., Ecton, K. E., Weir, T. L., & Gentile, C. L. (2018). SGLT2 inhibition via dapagliflozin improves generalized vascular dysfunction and alters the gut microbiota in type 2 diabetic mice. *Cardiovascular Diabetology*, 17(1). <https://doi.org/10.1186/s12933-018-0708-x>
129. Sandgren, J. A., Deng, G., Linggonegoro, D. W., Scroggins, S. M., Perschbacher, K. J., Nair, A. R., Nishimura, T. E., Zhang, S. Y., Agbor, L. N., Wu, J., Keen, H. L., Naber, M. C., Pearson, N. A., Zimmerman, K. A., Weiss, R. M., Bowdler, N. C., Usachev, Y. M., Santillan, D. A., Potthoff, M. J., ... Grobe, J. L. (2018). Arginine vasopressin infusion is sufficient to model clinical features of preeclampsia in mice. *JCI Insight*, 3(19). <https://doi.org/10.1172/jci.insight.99403>
130. Xu, Y. J., Elimban, V., Bhullar, S. K., & Dhalla, N. S. (2018). Effects of CO2 water-bath treatment on blood flow and angiogenesis in ischemic hind limb of diabetic rat. *Canadian Journal of Physiology and Pharmacology*, 96(10), 1017–1021. <https://doi.org/10.1139/cjpp-2018-0160>
131. Battson, M. L., Lee, D. M., Jarrell, D. K., Hou, S., Ecton, K. E., Phan, A. B., & Gentile, C. L. (2017). Tauroursodeoxycholic Acid Reduces Arterial Stiffness and Improves Endothelial Dysfunction in Type 2 Diabetic Mice. *Journal of Vascular Research*, 54(5), 280–287. <https://doi.org/10.1159/000479967>
132. Brodjieski, A. L. (2017). Reduced SIRT3 contributes to large elastic artery stiffness with aging. <https://ir.uiowa.edu/etd>
133. Dong, A., Mueller, P., Yang, F., Yang, L., Morris, A., & Smyth, S. S. (2017). Direct thrombin inhibition with dabigatran attenuates pressure overload-induced cardiac fibrosis and dysfunction in mice. *Thrombosis Research*, 159, 58–64. <https://doi.org/10.1016/j.thromres.2017.09.016>
134. Garner, T., Ouyang, A., Berrones, A. J., Campbell, M. S., Du, B., & Fleenor, B. S. (2017). Sweet potato (*Ipomoea batatas*) attenuates diet-induced aortic stiffening independent of changes in body composition. *Applied Physiology, Nutrition and Metabolism*, 42(8), 802–809. <https://doi.org/10.1139/apnm-2016-0571>
135. Hori, D., Dunkerly-Eyring, B., Nomura, Y., Biswas, D., Steppan, J., Henao-Mejia, J., Adachi, H., Santhanam, L., Berkowitz, D. E., Steenbergen, C., Flavell, R. A., & Das, S. (2017). MiR-181b regulates vascular stiffness age dependently in part by regulating TGF- β signaling. *PLoS ONE*, 12(3). <https://doi.org/10.1371/journal.pone.0174108>
136. Hotta, K., Chen, B., Behnke, B. J., Ghosh, P., Stabley, J. N., Bramey, J. A., Sepulveda, J. L., Delp, M. D., & Muller-Delp, J. M. (2017). Exercise training reverses age-induced diastolic dysfunction and restores coronary microvascular function. *Journal of Physiology*, 595(12), 3703–3719. <https://doi.org/10.1113/JP274172>
137. Lee, D. M., Battson, M. L., Jarrell, D. K., Cox-York, K., Foster, M. T., Weir, T. L., & Gentile, C. L. (2017). Fuzhuan tea reverses arterial stiffening after modest weight gain in mice. *Nutrition*, 33, 266–270. <https://doi.org/10.1016/j.nut.2016.07.010>
138. Lesniewski, L. A., Seals, D. R., Walker, A. E., Henson, G. D., Blimline, M. W., Trott, D. W., Bosshardt, G. C., LaRocca, T. J., Lawson, B. R., Zigler, M. C., & Donato, A. J. (2017). Dietary rapamycin supplementation reverses age-related vascular dysfunction and oxidative stress, while modulating nutrient-sensing, cell cycle, and senescence pathways. *Aging Cell*, 16(1), 17–26. <https://doi.org/10.1111/acer.12524>

139. Ouyang, A., Garner, T. B., & Fleenor, B. S. (2017). Hesperidin reverses perivascular adipose-mediated aortic stiffness with aging. *Experimental Gerontology*, 97, 68–72. <https://doi.org/10.1016/j.exger.2017.08.003>
140. Pena, A., Kobir, A., Goncharov, D., Goda, A., Kudryashova, T. V., Ray, A., Vanderpool, R., Baust, J., Chang, B., Mora, A. L., Gorcsan, J., & Goncharova, E. A. (2017). Pharmacological inhibition of mtor kinase reverses right ventricle remodeling and improves right ventricle structure and function in rats. *American Journal of Respiratory Cell and Molecular Biology*, 57(5), 615–625. <https://doi.org/10.1165/rcmb.2016-0364OC>
141. Trial, J. A., Heredia, C. P., Taffet, G. E., Entman, M. L., & Cieslik, K. A. (2017). Dissecting the role of myeloid and mesenchymal fibroblasts in age-dependent cardiac fibrosis. *Basic Research in Cardiology*, 112(4). <https://doi.org/10.1007/s00395-017-0623-4>
142. Agbor, L. N., Ibeawuchi, S.-R. C., Hu, C., Wu, J., Davis, D. R., Keen, H. L., Quelle, F. W., & Sigmund, C. D. (2016). Cullin-3 mutation causes arterial stiffness and hypertension through a vascular smooth muscle mechanism. *JCI Insight*, 1(19). <https://doi.org/10.1172/jci.insight.91015>
143. Hanson, M. G., Taylor, C. G., Wu, Y., Anderson, H. D., & Zahradka, P. (2016). Lentil consumption reduces resistance artery remodeling and restores arterial compliance in the spontaneously hypertensive rats. *Journal of Nutritional Biochemistry*, 37, 30–38. <https://doi.org/10.1016/j.jnutbio.2016.07.014>
144. Hinton, A. O., Yang, Y., Quick, A. P., Xu, P., Reddy, C. L., Yan, X., Reynolds, C. L., Tong, Q., Zhu, L., Xu, J., Wehrens, X. H. T., Xu, Y., & Reddy, A. K. (2016). SRC-1 regulates blood pressure and aortic stiffness in female mice. *PLoS ONE*, 11(12). <https://doi.org/10.1371/journal.pone.0168644>
145. Merentie, M., Lottonen-Raikaslehto, L., Parviainen, V., Huusko, J., Pikkarainen, S., Mendel, M., Laham-Karam, N., Kärjä, V., Rissanen, R., Hedman, M., & Ylä-Herttuala, S. (2016). Efficacy and safety of myocardial gene transfer of adenovirus, adeno-associated virus and lentivirus vectors in the mouse heart. *Gene Therapy*, 23(3), 296–305. <https://doi.org/10.1038/gt.2015.114>
146. Murali, M. (2016). ELUCIDATING THE EFFECT OF SEX ON THE METABOLIC AND VASCULAR PERTURBATIONS INDUCED BY THE ABSENCE OF ADIPONECTIN.
147. Natarajan, N., Hori, D., Flavahan, S., Stepan, J., Flavahan, N. A., Berkowitz, D. E., & Pluznick, J. L. (2016). Microbial short chain fatty acid metabolites lower blood pressure via endothelial G protein-coupled receptor 41. *Physiol Genomics*, 48, 826–834. <https://doi.org/10.1152/physiolgenomics.00089.2016>.-Short
148. Stepan, J., Tran, H. T., Bead, V. R., Oh, Y. J., Sikka, G., Bivalacqua, T. J., Burnett, A. L., Berkowitz, D. E., & Santhanam, L. (2016). Arginase Inhibition Reverses Endothelial Dysfunction, Pulmonary Hypertension, and Vascular Stiffness in Transgenic Sickle Cell Mice. *Anesthesia and Analgesia*, 123(3), 652–658. <https://doi.org/10.1213/ANE.0000000000001378>
149. Du, B., Ouyang, A., Eng, J. S., & Fleenor, B. S. (2015). Aortic perivascular adipose-derived interleukin-6 contributes to arterial stiffness in low-density lipoprotein receptor deficient mice Downloaded from. *Am J Physiol Heart Circ Physiol*, 308, 1382–1390. <https://doi.org/10.1152/ajpheart.00712.2014>.-We
150. Prasad, A. M., Morgan, D. A., Nuno, D. W., Ketsawatsomkron, P., Bair, T. B., Venema, A. N., Dibbern, M. E., Kutschke, W. J., Weiss, R. M., Lamping, K. G., Chapleau, M. W., Sigmund, C. D., Rahmouni, K., & Grumbach, I.

- M. (2015). Calcium/calmodulin-dependent kinase II inhibition in smooth muscle reduces angiotensin II-induced hypertension by controlling aortic remodeling and baroreceptor function. *Journal of the American Heart Association*, 4(6), e001949. <https://doi.org/10.1161/JAHA.115.001949>
151. Robinson, P., Taffet, G. E., Engineer, N., Khumbatta, M., Firozgary, B., Reynolds, C., Pham, T., Bulsara, T., & Firozgary, G. (2015). Substance P receptor antagonism: A potential novel treatment option for viral-myocarditis. *BioMed Research International*, 2015. <https://doi.org/10.1155/2015/645153>
152. Rodriguez, M. R. (2015). SUNITINIB-INDUCED CARDIOTOXICITY EXPOSES MICROVASCULAR AND METABOLIC DERANGEMENTS IN THE FAILING HEART. http://digitalcommons.library.tmc.edu/utgsbs_dissertations
153. Vendrov, A. E., Vendrov, K. C., Smith, A., Yuan, J., Sumida, A., Robidoux, J., Runge, M. S., & Madamanchi, N. R. (2015). NOX4 NADPH oxidase-dependent mitochondrial oxidative stress in aging-associated cardiovascular disease. *Antioxidants and Redox Signaling*, 23(18), 1389–1409. <https://doi.org/10.1089/ars.2014.6221>
154. Walker, A. E., Henson, G. D., Reihl, K. D., Morgan, R. G., Dobson, P. S., Nielson, E. I., Ling, J., Mecham, R. P., Li, D. Y., Lesniewski, L. A., & Donato, A. J. (2015). Greater impairments in cerebral artery compared with skeletal muscle feed artery endothelial function in a mouse model of increased large artery stiffness. *Journal of Physiology*, 593(8), 1931–1943. <https://doi.org/10.1113/jphysiol.2014.285338>
155. Allen, R. A., Wu, W., Yao, M., Dutta, D., Duan, X., Bachman, T. N., Champion, H. C., Stolz, D. B., Robertson, A. M., Kim, K., Isenberg, J. S., & Wang, Y. (2014). Nerve regeneration and elastin formation within poly(glycerol sebacate)-based synthetic arterial grafts one-year post-implantation in a rat model. *Biomaterials*, 35(1), 165–173. <https://doi.org/10.1016/j.biomaterials.2013.09.081>
156. Andrukhova, O., Slavic, S., Zeitz, U., Riesen, S. C., Heppelmann, M. S., Ambrisko, T. D., Markovic, M., Kuebler, W. M., & Erben, R. G. (2014). Vitamin D is a regulator of endothelial nitric oxide synthase and arterial stiffness in mice. *Molecular Endocrinology*, 28(1), 53–64. <https://doi.org/10.1210/me.2013-1252>
157. Chatterjee, S., Bedja, D., Mishra, S., Amuzie, C., Avolio, A., Kass, D. A., Berkowitz, D., & Renahan, M. (2014). Inhibition of glycosphingolipid synthesis ameliorates atherosclerosis and arterial stiffness in apolipoprotein E-/-Mice and rabbits fed a high-fat and -cholesterol diet. *Circulation*, 129(23), 2403–2413. <https://doi.org/10.1161/CIRCULATIONAHA.113.007559>
158. Grimes, K. M., Reddy, A. K., Lindsey, M. L., & Buffenstein, R. (2014). And the beat goes on: maintained cardiovascular function during aging in the longest-lived rodent, the naked mole-rat. *Am J Physiol Heart Circ Physiol*, 307, 284–291. <https://doi.org/10.1152/ajpheart.00305.2014.-The>
159. Hanson, M. G., Zahradka, P., & Taylor, C. G. (2014). Lentil-based diets attenuate hypertension and large-artery remodelling in spontaneously hypertensive rats. *British Journal of Nutrition*, 111(4), 690–698. <https://doi.org/10.1017/S0007114513002997>
160. Henson, G. D., Walker, A. E., Reihl, K. D., Donato, A. J., & Lesniewski, L. A. (2014). Dichotomous mechanisms of aortic stiffening in high-fat diet fed young and old B6D2F1 mice. *Physiological Reports*, 2(3). <https://doi.org/10.1002/phy2.268>

161. Kelley, E. E., Baust, J., Bonacci, G., Golin-Bisello, F., Devlin, J. E., St. Croix, C. M., Watkins, S. C., Gor, S., Cantu-Medellin, N., Weidert, E. R., Frisbee, J. C., Gladwin, M. T., Champion, H. C., Freeman, B. A., & Khoo, N. K. H. (2014). Fatty acid nitroalkenes ameliorate glucose intolerance and pulmonary hypertension in high-fat diet-induced obesity. *Cardiovascular Research*, 101(3), 352–363. <https://doi.org/10.1093/cvr/cvt341>
162. LaRocca, T. J., Hearon, C. M., Henson, G. D., & Seals, D. R. (2014). Mitochondrial quality control and age-associated arterial stiffening. *Experimental Gerontology*, 58, 78–82. <https://doi.org/10.1016/j.exger.2014.07.008>
163. Reddy, A. K., Hartley, C. J., Pham, T. T., Darlington, G., Entman, M. L., & Taffet, G. E. (2014). Young Little mice express a premature cardiovascular aging phenotype. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, 69 A(2), 152–159. <https://doi.org/10.1093/gerona/glt055>
164. Savai, R., Al-Tamari, H. M., Sedding, D., Kojonazarov, B., Muecke, C., Teske, R., Capecchi, M. R., Weissmann, N., Grimminger, F., Seeger, W., Schermuly, R. T., & Pullamsetti, S. S. (2014). Pro-proliferative and inflammatory signaling converge on FoxO1 transcription factor in pulmonary hypertension. *Nature Medicine*, 20(11), 1289–1300. <https://doi.org/10.1038/nm.3695>
165. Yabluchanskiy, A., Ma, Y., Chiao, Y. A., Lopez, E. F., Voorhees, A. P., Toba, H., Hall, M. E., Han, H. C., Lindsey, M. L., & Jin, Y. F. (2014). Cardiac aging is initiated by matrix metalloproteinase-9-mediated endothelial dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, 306(10). <https://doi.org/10.1152/ajpheart.00090.2014>
166. Yang, F., Dong, A., Ahamed, J., Sunkara, M., & Smyth, S. S. (2014). Granule cargo release from bone marrow-derived cells sustains cardiac hypertrophy. *J Physiol Heart Circ Physiol*, 307, 1529–1538. <https://doi.org/10.1152/ajpheart.00951.2013.-Bone>
167. Yue, X., Yang, X., Lin, X., Yang, T., Yi, X., Dai, Y., Guo, J., Li, T., Shi, J., Wei, L., Fan, G. C., Chen, C., & Chang, J. (2014). Rnd3 haploinsufficient mice are predisposed to hemodynamic stress and develop apoptotic cardiomyopathy with heart failure. *Cell Death and Disease*, 5(6). <https://doi.org/10.1038/cddis.2014.235>
168. Zeineh, N. S., Bachman, T. N., El-Haddad, H., & Champion, H. C. (2014). Effects of acute intravenous iloprost on right ventricular hemodynamics in rats with chronic pulmonary hypertension. *Pulmonary Circulation*, 4(4), 612–618. <https://doi.org/10.1086/677358>
169. Zhang, J., Liu, Q., & Han, H. C. (2014). An in vivo rat model of artery buckling for studying wall remodeling. *Annals of Biomedical Engineering*, 42(8), 1658–1667. <https://doi.org/10.1007/s10439-014-1017-5>
170. Cieslik, K. A., Taffet, G. E., Crawford, J. R., Trial, J. A., Mejia Osuna, P., & Entman, M. L. (2013). AICAR-dependent AMPK activation improves scar formation in the aged heart in a murine model of reperfused myocardial infarction. *Journal of Molecular and Cellular Cardiology*, 63, 26–36. <https://doi.org/10.1016/j.jmcc.2013.07.005>
171. Donato, A. J., Walker, A. E., Magerko, K. A., Bramwell, R. C., Black, A. D., Henson, G. D., Lawson, B. R., Lesniewski, L. A., & Seals, D. R. (2013). Life-long caloric restriction reduces oxidative stress and preserves nitric oxide bioavailability and function in arteries of old mice. *Aging Cell*, 12(5), 772–783. <https://doi.org/10.1111/accel.12103>

172. Duerrschmid, C., Crawford, J. R., Reineke, E., Taffet, G. E., Trial, J. A., Entman, M. L., & Haudek, S. B. (2013). TNF receptor 1 signaling is critically involved in mediating angiotensin-II-induced cardiac fibrosis. *Journal of Molecular and Cellular Cardiology*, 57(1), 59–67. <https://doi.org/10.1016/j.jmcc.2013.01.006>
173. Gurha, P., Wang, T., Larimore, A. H., Sassi, Y., Abreu-Goodger, C., Ramirez, M. O., Reddy, A. K., Engelhardt, S., Taffet, G. E., Wehrens, X. H. T., Entman, M. L., & Rodriguez, A. (2013). microRNA-22 Promotes Heart Failure through Coordinate Suppression of PPAR/ERR-Nuclear Hormone Receptor Transcription. *PLoS ONE*, 8(9). <https://doi.org/10.1371/journal.pone.0075882>
174. Kelsey, L., Flenniken, A. M., Qu, D., Funnell, A. P. W., Pearson, R., Zhou, Y. Q., Voronina, I., Berberovic, Z., Wood, G., Newbigging, S., Weiss, E. S., Wong, M., Quach, I., Yeh, S. Y. S., Deshwar, A. R., Scott, I. C., McKerlie, C., Henkelman, M., Backx, P., ... Adamson, S. L. (2013). ENU-induced Mutation in the DNA-binding Domain of KLF3 Reveals Important Roles for KLF3 in Cardiovascular Development and Function in Mice. *PLoS Genetics*, 9(7). <https://doi.org/10.1371/journal.pgen.1003612>
175. Kojonazarov, B., Sydykov, A., Pullamsetti, S. S., Luitel, H., Dahal, B. K., Kosanovic, D., Tian, X., Majewski, M., Baumann, C., Evans, S., Phillips, P., Fairman, D., Davie, N., Wayman, C., Kilty, I., Weissmann, N., Grimminger, F., Seeger, W., Ghofrani, H. A., & Schermuly, R. T. (2013). Effects of multikinase inhibitors on pressure overload-induced right ventricular remodeling. *International Journal of Cardiology*, 167(6), 2630–2637. <https://doi.org/10.1016/j.ijcard.2012.06.129>
176. LaRocca, T. J., Gioscia-Ryan, R. A., Hearon, C. M., & Seals, D. R. (2013). The autophagy enhancer spermidine reverses arterial aging. *Mechanisms of Ageing and Development*, 134(7–8), 314–320. <https://doi.org/10.1016/j.mad.2013.04.004>
177. Lin, Y., Kuro-o, M., & Sun, Z. (2013). Genetic deficiency of anti-aging gene klotho exacerbates early nephropathy in STZ-induced diabetes in male mice. *Endocrinology*, 154(10), 3855–3863. <https://doi.org/10.1210/en.2013-1053>
178. Mee Jung, S., Jandu, S., Steppan, J., Belkin, A., An, S. S., Pak, A., Choi, E. Y., Nyhan, D., Butlin, M., Viegas, K., Avolio, A., Berkowitz, D. E., & Santhanam, L. (2013). Increased tissue transglutaminase activity contributes to central vascular stiffness in eNOS knockout mice. *Am J Physiol Heart Circ Physiol*, 305, 803–810. <https://doi.org/10.1152/ajpheart.00103.2013.-Nitric>
179. Sikka, G., Pandey, D., Bhuniya, A. K., Steppan, J., Armstrong, D., Santhanam, L., Nyhan, D., & Berkowitz, D. E. (2013). Contribution of arginase activation to vascular dysfunction in cigarette smoking. *Atherosclerosis*, 231(1), 91–94. <https://doi.org/10.1016/j.atherosclerosis.2013.08.026>
180. Zhang, Y., Yue, Y., Li, L., Hakim, C. H., Zhang, K., Thomas, G. D., & Duan, D. (2013). Dual AAV therapy ameliorates exercise-induced muscle injury and functional ischemia in murine models of duchenne muscular dystrophy. *Human Molecular Genetics*, 22(18), 3720–3729. <https://doi.org/10.1093/hmg/ddt224>
181. Agustin Cruz, J., Bauer, E. M., Rodriguez, A. I., Gangopadhyay, A., Zeineh, N. S., Wang, Y., Shiva, S., Champion, H. C., Bauer, P. M., Cruz, J. A., Bauer, E. M., & Bauer, P. M. (2012). Chronic hypoxia induces right heart failure in caveolin-1/ mice. *Am J Physiol Heart Circ Physiol*, 302, 2518–2527. <https://doi.org/10.1152/ajpheart.01140.2011.-Caveolin-1>

182. Baskin, K. K. (2012). Regulation of Protein Degradation in the Heart by AMP-Activated Protein Kinase. http://digitalcommons.library.tmc.edu/utgsbs_dissertations
183. Chiao, Y. A., Ramirez, T. A., Zamilpa, R., Okoronkwo, S. M., Dai, Q., Zhang, J., Jin, Y. F., & Lindsey, M. L. (2012). Matrix metalloproteinase-9 deletion attenuates myocardial fibrosis and diastolic dysfunction in ageing mice. *Cardiovascular Research*, 96(3), 444–455. <https://doi.org/10.1093/cvr/cvs275>
184. Grimes, K. M., Lindsey, M. L., Gelfond, J. A. L., & Buffenstein, R. (2012). Getting to the heart of the matter: Age-related changes in diastolic heart function in the longest-lived rodent, the naked mole rat. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, 67 A(4), 384–394. <https://doi.org/10.1093/gerona/glr222>
185. Kass, D. J., Rattigan, E., Kahloon, R., Loh, K., Yu, L., Savir, A., Markowski, M., Saqi, A., Rajkumar, R., Ahmad, F., & Champion, H. C. (2012). Early treatment with fumagillin, an inhibitor of methionine aminopeptidase-2, prevents pulmonary hypertension in monocrotaline-injured rats. *PLoS ONE*, 7(4). <https://doi.org/10.1371/journal.pone.0035388>
186. Marchi, R., Walton, B. L., McGary, C. S., Lin, F. C., Ma, A. D., Pawlinski, R., Mackman, N., Campbell, R. A., Paola, J. Di, & Wolberg, A. S. (2012). Dysregulated coagulation associated with hypofibrinogenaemia and plasma hypercoagulability: Implications for identifying coagulopathic mechanisms in humans. *Thrombosis and Haemostasis*, 108(3), 516–526. <https://doi.org/10.1160/TH12-05-0355>
187. Reineke, E. L., York, B., Stashi, E., Chen, X., Tsimelzon, A., Xu, J., Newgard, C. B., Taffet, G. E., Taegtmeyer, H., Entman, M. L., & O'Malley, B. W. (2012). SRC-2 Coactivator Deficiency Decreases Functional Reserve in Response to Pressure Overload of Mouse Heart. *PLoS ONE*, 7(12). <https://doi.org/10.1371/journal.pone.0053395>
188. Steppan, J., Tran, H., Benjo, A. M., Pellakuru, L., Barodka, V., Ryoo, S., Nyhan, S. M., Lussman, C., Gupta, G., White, A. R., Daher, J. P., Shoukas, A. A., Levine, B. D., & Berkowitz, D. E. (2012). Alagebrium in combination with exercise ameliorates age-associated ventricular and vascular stiffness. *Experimental Gerontology*, 47(8), 565–572. <https://doi.org/10.1016/j.exger.2012.04.006>
189. Wang, J. G., Geddings, J. E., Aleman, M. M., Cardenas, J. C., Chantrathammachart, P., Williams, J. C., Kirchhofer, D., Bogdanov, V. Y., Bach, R. R., Rak, J., Church, F. C., Wolberg, A. S., Pawlinski, R., Key, N. S., Yeh, J. J., & Mackman, N. (2012). Tumor-derived tissue factor activates coagulation and enhances thrombosis in a mouse xenograft model of human pancreatic cancer. *Blood*, 119(23), 5543–5552. <https://doi.org/10.1182/blood-2012-01-402156>
190. Yang, F., Dong, A., Mueller, P., Caicedo, J., Sutton, A. M., Odetunde, J., Barrick, C. J., Klyachkin, Y. M., Abdel-Latif, A., & Smyth, S. S. (2012). Coronary artery remodeling in a model of left ventricular pressure overload is influenced by platelets and inflammatory cells. *PLoS ONE*, 7(8). <https://doi.org/10.1371/journal.pone.0040196>
191. Cardenas, J. C., Owens, A. P., Krishnamurthy, J., Sharpless, N. E., Whinna, H. C., & Church, F. C. (2011). Overexpression of the cell cycle inhibitor p16 INK4a promotes a prothrombotic phenotype following vascular injury in mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 31(4), 827–833. <https://doi.org/10.1161/ATVBAHA.110.221721>

192. Hartley, C. J., Reddy, A. K., Madala, S., Entman, M. L., Michael, L. H., & Taffet, G. E. (2011). Doppler velocity measurements from large and small arteries of mice. *Am J Physiol Heart Circ Physiol*, 301, 269–278. <https://doi.org/10.1152/ajpheart.00320.2011>.-With
193. Soucy, K. G., Lim, H. K., Kim, J. H., Oh, Y., Attarzadeh, D. O., Sevinc, B., Kuo, M. M., Shoukas, A. A., Vazquez, M. E., & Berkowitz, D. E. (2011). HZE 56Fe-ion irradiation induces endothelial dysfunction in rat aorta: Role of xanthine oxidase. *Radiation Research*, 176(4), 474–485. <https://doi.org/10.1667/RR2598.1>
194. Xu, J., Lin, S.-C., Chen, J., Miao, Y., Taffet, G. E., Entman, M. L., & Wang, Y. (2011). CCR2 mediates the uptake of bone marrow-derived fibroblast precursors in angiotensin II-induced cardiac fibrosis. <https://doi.org/10.1152/ajpheart.01114.2010>.-Angiotensin
195. Yang, R., Sikka, G., Larson, J., Watts, V. L., Niu, X., Ellis, C. L., Miller, K. L., Camara, A., Reinke, C., Savransky, V., Polotsky, V. Y., O, C. P., Berkowitz, D. E., Barouch, L. A., & Barouch, L. (2011). Restoring leptin signaling reduces hyperlipidemia and improves vascular stiffness induced by chronic intermittent hypoxia. *Am J Physiol Heart Circ Physiol*, 300, 1467–1476. <https://doi.org/10.1152/ajpheart.00604.2009>.-Chronic
196. Zhou, R.-H., Vendrov, A. E., Tchivilev, I., Niu, X.-L., Molnar, K. C., Rojas, M., Carter, J. D., Tong, H., Stouffer, G. A., Madamanchi, N. R., & Runge, M. S. (2011). Mitochondrial Oxidative Stress in Aortic Stiffening With Age The Role of Smooth Muscle Cell Function. <https://doi.org/10.1161/ATVBAHA.111.243121/-/DC1>
197. Chintalgattu, V., Ai, D., Langley, R. R., Zhang, J., Bankson, J. A., Shih, T. L., Reddy, A. K., Coombes, K. R., Daher, I. N., Pati, S., Patel, S. S., Pocius, J. S., Taffet, G. E., Buja, L. M., Entman, M. L., & Khakoo, A. Y. (2010). Cardiomyocyte PDGFR- β signaling is an essential component of the mouse cardiac response to load-induced stress. *Journal of Clinical Investigation*, 120(2), 472–484. <https://doi.org/10.1172/JCI39434>
198. deAlmeida, A. C., van Oort, R. J., & Wehrens, X. H. T. (2010). Transverse aortic constriction in mice. *Journal of Visualized Experiments*, 38. <https://doi.org/10.3791/1729>
199. Hartley, C. J., Reddy, A. K., Madala, S., Entman, M. L., & Taffet, G. E. (2010). Feasibility of dual doppler velocity measurements to estimate volume pulsations of an arterial segment. *Ultrasound in Medicine and Biology*, 36(7), 1169–1175. <https://doi.org/10.1016/j.ultrasmedbio.2010.04.002>
200. Haudek, S. B., Cheng, J., Du, J., Wang, Y., Hermosillo-Rodriguez, J., Trial, J. A., Taffet, G. E., & Entman, M. L. (2010). Monocytic fibroblast precursors mediate fibrosis in angiotensin-II-induced cardiac hypertrophy. *Journal of Molecular and Cellular Cardiology*, 49(3), 499–507. <https://doi.org/10.1016/j.yjmcc.2010.05.005>
201. Kulandavelu, S. (2010). Cardiovascular, utero-and fetoplacental function in mice during normal pregnancy and in the absence of endothelial nitric oxide synthase (eNOS) by.
202. Li, Y. H., Chung, H. C., Luo, C. Y., Chao, T. H., Shyu, K. G., Shi, G. Y., & Wu, H. L. (2010). Thrombomodulin is upregulated in cardiomyocytes during cardiac hypertrophy and prevents the progression of contractile dysfunction. *Journal of Cardiac Failure*, 16(12), 980–990. <https://doi.org/10.1016/j.cardfail.2010.06.415>
203. Santhanam, L., Tuday, E. C., Webb, A. K., Dowzicky, P., Kim, J. H., Oh, Y. J., Sikka, G., Kuo, M., Halushka, M. K., MacGregor, A. M., Dunn, J., Gutbrod, S., Yin, D., Shoukas, A., Nyhan, D., Flavahan, N. A., Belkin, A. M., & Berkowitz, D. E. (2010). Decreased S-nitrosylation of tissue transglutaminase contributes to age-related

increases in vascular stiffness. *Circulation Research*, 107(1), 117–125.
<https://doi.org/10.1161/CIRCRESAHA.109.215228>

204. Sikka, G., Yang, R., Reid, S., Benjo, A., Koitabashi, N., Camara, A., Baraban, E., O'Donnell, C. P., Berkowitz, D. E., & Barouch, L. A. (2010). Leptin is essential in maintaining normal vascular compliance independent of body weight. *International Journal of Obesity*, 34(1), 203–206. <https://doi.org/10.1038/ijo.2009.208>
205. Soucy, K. G., Lim, H. K., Attarzadeh, D. O., Santhanam, L., Kim, J. H., Bhunia, A. K., Sevinc, B., Ryoo, S., Vazquez, M. E., Nyhan, D., Shoukas, A. A., & Berkowitz, D. E. (2010). Dietary inhibition of xanthine oxidase attenuates radiation-induced endothelial dysfunction in rat aorta. *J Appl Physiol*, 108, 1250–1258. <https://doi.org/10.1152/jappphysiol.00946.2009.-Radiation>
206. Barrick, C. J., Dong, A., Waikel, R., Corn, D., Yang, F., Threadgill, D. W., & Smyth, S. S. (2009). Parent-of-origin effects on cardiac response to pressure overload in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, 297(3). <https://doi.org/10.1152/ajpheart.00896.2008>
207. Eberth, J. F., Gresham, V. C., Reddy, A. K., Popovic, N., Wilson, E., & Humphrey, J. D. (2009). Importance of pulsatility in hypertensive carotid artery growth and remodeling. *Journal of Hypertension*, 27(10), 2010–2021. <https://doi.org/10.1097/HJH.0b013e32832e8dc8>
208. Hyung Kim, J., Bugaj, L. J., Jun Oh, Y., Bivalacqua, T. J., Ryoo, S., Soucy, K. G., Santhanam, L., Webb, A., Camara, A., Sikka, G., Nyhan, D., Shoukas, A. A., Ilies, M., Christianson, D. W., Champion, H. C., & Berkowitz, D. E. (2009). Arginase inhibition restores NOS coupling and reverses endothelial dysfunction and vascular stiffness in old rats. *J Appl Physiol*, 107, 1249–1257. <https://doi.org/10.1152/jappphysiol.91393.2008.-There>
209. Reddy, A. K., Madala, S., Jones, A. D., Caro, W. A., Eberth, J. F., Pham, T. T., Taffet, G. E., & Hartley, C. J. (2009). Multichannel Pulsed Doppler Signal Processing for Vascular Measurements in Mice. *Ultrasound in Medicine and Biology*, 35(12), 2042–2054. <https://doi.org/10.1016/j.ultrasmedbio.2009.06.1096>
210. Reddy, A. K., Namiranian, K., Lloyd, E. E., Bryan, R. M., Taffet, G. E., & Hartley, C. J. (2009). Effect of isoflurane on aortic impedance in mice. *Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Engineering the Future of Biomedicine, EMBC 2009*, 1104–1105. <https://doi.org/10.1109/IEMBS.2009.5334387>
211. Buyue, Y., Whinna, H. C., & Sheehan, J. P. (2008). The heparin-binding exosite of factor IXa is a critical regulator of plasma thrombin generation and venous thrombosis. *Blood*, 112(8), 3234–3241. <https://doi.org/10.1182/blood-2008-01-136820>
212. Hartley, C. J., Reddy, A. K., Madala, S., Michael, L. H., Entman, M. L., & Taffet, G. E. (2008). Doppler estimation of reduced coronary flow reserve in mice with pressure overload cardiac hypertrophy. In *Ultrasound Med Biol* (Vol. 34, Issue 6).
213. Reddy, A. K., Taffet, G. E., & Hartley, C. J. (2008). Aortic impedance in Little mice. *Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS'08 - "Personalized Healthcare through Technology,"* 1397–1398. <https://doi.org/10.1109/iembs.2008.4649426>

214. Barrick, C. J., Rojas, M., Schoonhoven, R., Smyth, S. S., Threadgill, D. W., & Threadgill, D. W. (2007). Cardiac response to pressure overload in 129S1/SvImJ and C57BL/6J mice: temporal-and background-dependent development of concentric left ventricular hypertrophy. *Am J Physiol Heart Circ Physiol*, 292, 2119–2130. <https://doi.org/10.1152/ajpheart.00816.2006.-Left>
215. Hartley, C. J., Reddy, A. K., Madala, S., Michael, L. H., Entman, M. L., & Taffet, G. E. (2007). Effects of Isoflurane on Coronary Blood Flow Velocity in Young, Old, and ApoE $-/-$ Mice Measured by Doppler Ultrasound. In *Ultrasound Med Biol* (Vol. 33, Issue 4).
216. Lim, H. K., Lim, H. K., Ryoo, S., Benjo, A., Shuleri, K., Miriel, V., Baraban, E., Camara, A., Soucy, K., Nyhan, D., Shoukas, A., & Berkowitz, D. E. (2007). Mitochondrial arginase II constrains endothelial NOS-3 activity. *American Journal of Physiology - Heart and Circulatory Physiology*, 293(6). <https://doi.org/10.1152/ajpheart.00700.2007>
217. Reddy, A. K., Amador-Noguez, D., Darlington, G. J., Scholz, B. A., Michael, L. H., Hartley, C. J., Entman, M. L., & Taffet, G. E. (2007). Cardiac Function in Young and Old Little Mice. <https://academic.oup.com/biomedgerontology/article-abstract/62/12/1319/539356>
218. Soucy, K. G., Lim, H. K., Benjo, A., Santhanam, L., Ryoo, S., Shoukas, A. A., Vazquez, M. E., & Berkowitz, D. E. (2007). Single exposure gamma-irradiation amplifies xanthine oxidase activity and induces endothelial dysfunction in rat aorta. *Radiation and Environmental Biophysics*, 46(2), 179–186. <https://doi.org/10.1007/s00411-006-0090-z>
219. Stansfield, W. E., Rojas, M., Corn, D., Willis, M., Patterson, C., Smyth, S. S., & Selzman, C. H. (2007). Characterization of a Model to Independently Study Regression of Ventricular Hypertrophy. *Journal of Surgical Research*, 142(2), 387–393. <https://doi.org/10.1016/j.jss.2007.01.037>
220. Tuday, E. C., Meck, J. V., Nyhan, D., Shoukas, A. A., & Berkowitz, D. E. (2007). Microgravity-induced changes in aortic stiffness and their role in orthostatic intolerance. *J Appl Physiol*, 102, 853–858. <https://doi.org/10.1152/jappphysiol.00950.2006.-Micro>
221. Fitch, R. M., Rutledge, J. C., Wang, Y.-X., Powers, A. F., Tseng, J.-L., Clary, T., & Rubanyi, G. M. (2006). Synergistic effect of angiotensin II and nitric oxide synthase inhibitor in increasing aortic stiffness in mice. *Am J Physiol Heart Circ Physiol*, 290, 1190–1198. <https://doi.org/10.1152/ajpheart.00327.2005.-Although>
222. Soucy, K. G., Ryoo, S., Benjo, A., Hyun, K. L., Gupta, G., Sohi, J. S., Elser, J., Aon, M. A., Nyhan, D., Shoukas, A. A., & Berkowitz, D. E. (2006). Impaired shear stress-induced nitric oxide production through decreased NOS phosphorylation contributes to age-related vascular stiffness. *Journal of Applied Physiology*, 101(6), 1751–1759. <https://doi.org/10.1152/jappphysiol.00138.2006>
223. Thakker, G. D., Frangogiannis, N. G., Bujak, M., Zymek, P., Gaubatz, J. W., Reddy, A. K., Taffet, G., Michael, L. H., Entman, M. L., & Ballantyne, C. M. (2006). Effects of diet-induced obesity on inflammation and remodeling after myocardial infarction. *Am J Physiol Heart Circ Physiol*, 291, 2504–2514. <https://doi.org/10.1152/ajpheart.00322.2006.-Epidemiological>

224. Vincelette, J., Martin-McNulty, B., Vergona, R., Sullivan, M. E., & Wang, Y. X. (2006). Reduced cardiac functional reserve in apolipoprotein E knockout mice. *Translational Research*, 148(1), 30–36. <https://doi.org/10.1016/j.lab.2006.03.007>
225. Flenniken, A. M., Osborne, L. R., Anderson, N., Ciliberti, N., Fleming, C., Gittens, J. E. I., Gong, X. Q., Kelsey, L. B., Lounsbury, C., Moreno, L., Nieman, B. J., Peterson, K., Qu, D., Roscoe, W., Shao, Q., Tong, D., Veitch, G. I. L., Voronina, I., Vukobradovic, I., ... Rossant, J. (2005). A Gja1 missense mutation in a mouse model of oculodentodigital dysplasia. *Development*, 132(19), 4375–4386. <https://doi.org/10.1242/dev.02011>
226. Reddy, A. K., Jones, A. D., Martono, C., Caro, W. A., Madala, S., & Hartley, C. J. (2005). Pulsed Doppler signal processing for use in mice: Design and evaluation. *IEEE Transactions on Biomedical Engineering*, 52(10), 1764–1770. <https://doi.org/10.1109/TBME.2005.855710>
227. Reddy, A. K., Taffet, G. E., Li, Y. H., Lim, S. W., Pham, T. T., Pocius, J. S., Entman, M. L., Michael, L. H., & Hartley, C. J. (2005). Pulsed doppler signal processing for use in mice: Applications. *IEEE Transactions on Biomedical Engineering*, 52(10), 1771–1783. <https://doi.org/10.1109/TBME.2005.855709>
228. Wang, Y. X., Da Cunha, V., Martin-McNulty, B., Vincelette, J., Li, W., Choy, D. F., Halks-Miller, M., Mahmoudi, M., Schroeder, M., Johns, A., Light, D. R., & Dole, W. P. (2005). Inhibition of Rho-kinase by fasudil attenuated angiotensin II-induced cardiac hypertrophy in apolipoprotein e deficient mice. *European Journal of Pharmacology*, 512(2–3), 215–222. <https://doi.org/10.1016/j.ejphar.2005.02.024>
229. Weisleder, N., Taffet, G. E., & Capetanaki, Y. (2004). Bcl-2 overexpression corrects mitochondrial defects and ameliorates inherited desmin null cardiomyopathy. www.pnas.org/cgi/doi/10.1073/pnas.0303202101
230. Callaerts-Vegh, Z., Evans, K. L. J., Shipley, G. L., Davies, P. J. A., Cuba, D. L., Gurji, H. A., Giles, H., & Bond, R. A. (2003). Effects of different beta adrenoceptor ligands in mice with permanent occlusion of the left anterior descending coronary artery. *British Journal of Pharmacology*, 138(8), 1505–1516. <https://doi.org/10.1038/sj.bjp.0705205>
231. Li, Y.-H., Reddy, A. K., Ochoa, L. N., Pham, T. T., Hartley, C. J., Michael, L. H., Entman, M. L., & Taffet, G. E. (2003). Effect of Age on Peripheral Vascular Response to Transverse Aortic Banding in Mice. <http://biomedgerontology.oxfordjournals.org/>
232. Reddy, A. K., Li, Y.-H., Pham, T. T., Ochoa, L. N., Treviñ, M. T., Hartley, C. J., Michael, L. H., Entman, M. L., & Taffet, G. E. (2003). Measurement of aortic input impedance in mice: effects of age on aortic stiffness. *Am J Physiol Heart Circ Physiol*, 285. <https://doi.org/10.1152/ajpheart.00004.2003.-Mice>
233. Hartley, C. J., Taffet, G. E., Reddy, A. K., Entman, M. L., & Michael, L. H. (2002). Noninvasive Cardiovascular Phenotyping in Mice. *ILAR J*, 43(3), 147 – 58. <https://academic.oup.com/ilarjournal/article-abstract/43/3/147/874569>
234. Tuday, E. C., Nyhan, D., Shoukas, A. A., & Berkowitz, D. E. (2002). Simulated microgravity-induced aortic remodeling. *J Appl Physiol*, 106. <https://doi.org/10.1152/japplphysiol.90777.2008.-We>
235. Hartley, C. J., Reddy, A. K., Madala, S., Martin-mcNulty, B., Vergona, R., Sullivan, M. E., Halks-miller, M., Taffet, G. E., Michael, L. H., Entman, M. L., Wang, Y., Martin-McNulty, B., Halks-Miller, M., & Wang, Y.-X. (2000).

Hemodynamic changes in apolipoprotein E-knockout mice. In Am J Physiol Heart Circ Physiol (Vol. 279).
<http://www.ajpheart.org>