

## Indus RSM+

### References

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1. Algoet, M., Pusovnik, M., Gillijns, H., Mestdagh, S., Billiau, J., Artoos, I., Gsell, W., Janssens, S. P., Himmelreich, U., & Oosterlinck, W. (2024). A Novel Standardized Technique for Real-Time Biomedical Imaging of Acute Myocardial Injury. *JoVE (Journal of Visualized Experiments)*, 2024(205), e66386. <https://doi.org/10.3791/66386>
2. Kij, A., Bar, A., Czyzyska-Cichon, I., Przyborowski, K., Proniewski, B., Mateuszuk, L., Kurylowicz, Z., Jaształ, A., Buczek, E., Kurpínska, A., Suraj-Prazmowska, J., Marczyk, B., Matyjaszczyk-Gwarda, K., Daiber, A., Oelze, M., Walczak, M., & Chlopicki, 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>
3. Navarro-Garcia, J. A., Bruns, F., Moore, O. M., Tekook, M. A., Dobrev, D., Miyake, C. Y., & Wehrens, X. H. T. (2024). In Vivo Cardiac Electrophysiology in Mice: Determination of Atrial and Ventricular Arrhythmic Substrates. *Current Protocols*, 4(2), e994. <https://doi.org/10.1002/CPZ1.994>
4. Yu, P. R., Tseng, C. Y., Hsu, C. C., Chen, J. H., & Lin, H. H. (2024). In vitro and in vivo protective potential of quercetin-3-glucuronide against lipopolysaccharide-induced pulmonary injury through dual activation of nuclear factor-erythroid 2 related factor 2 and autophagy. *Archives of Toxicology*, 98(5), 1415–1436. <https://doi.org/10.1007/S00204-024-03691-9/METRICS>
5. Aline, F., & Jentschura, C. (2023). Investigation of uptake and distribution of drugs via the lymphatic system.
6. Arias-Argáez, B. C., Dzul-Huchim, V. M., Haro-Álvarez, A. P., Rosado-Vallado, M. E., Villanueva-Lizama, L., Cruz-Chan, J. V., & Dumonteil, E. (2023). Signature of cardiac alterations in early and late chronic infections with *Trypanosoma cruzi* in mice. *PLOS ONE*, 18(10), e0292520. <https://doi.org/10.1371/JOURNAL.PONE.0292520>
7. 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<sup>-/-</sup> Mice. *Endocrinology*, 165(2). <https://doi.org/10.1210/ENDOCR/BQAD192>
8. Calvet, C., & Seebeck, P. (2023). What to consider for ECG in mice—with special emphasis on telemetry. *Mammalian Genome* 2023 34:2, 34(2), 166–179. <https://doi.org/10.1007/S00335-023-09977-0>
9. Elgalad, A., Hanafy, A. E., Moctezuma-Ramirez, A., Post, A., John, M., Xi, Y., & Razavi, M. (2023). Use of Ethanol Injections to Create a Complete Atrioventricular Block in a Rat Model. *Surgeries* 2023, Vol. 4, Pages 188-195, 4(2), 188–195. <https://doi.org/10.3390/SURGERIES4020020>

10. Forsyth, C., Cantillo-Barraza, O., Haro, P., Hevia-Montiel, N., & Perez-Gonzalez, J. (2023a). ECG Marker Evaluation for the Machine-Learning-Based Classification of Acute and Chronic Phases of *Trypanosoma cruzi* Infection in a Murine Model. *Tropical Medicine and Infectious Disease* 2023, Vol. 8, Page 157, 8(3), 157. <https://doi.org/10.3390/TROPICALMED8030157>
11. Forsyth, C., Cantillo-Barraza, O., Haro, P., Hevia-Montiel, N., & Perez-Gonzalez, J. (2023b). ECG Marker Evaluation for the Machine-Learning-Based Classification of Acute and Chronic Phases of *Trypanosoma cruzi* Infection in a Murine Model. *Tropical Medicine and Infectious Disease* 2023, Vol. 8, Page 157, 8(3), 157. <https://doi.org/10.3390/TROPICALMED8030157>
12. Golubova, N., Potapova, E., Seryogina, E., & Dremin, V. (2023). Time–frequency analysis of laser speckle contrast for transcranial assessment of cerebral blood flow. *Biomedical Signal Processing and Control*, 85, 104969. <https://doi.org/10.1016/J.BSPC.2023.104969>
13. Golubova, N., Potapova, E., Seryogina, E., & Dremin, V. V. (2023). Wavelet analysis of laser speckle contrast reveals new feature space for transcranial assessment of cerebral blood flow. *Translational Biophotonics: Diagnostics and Therapeutics III*, 12627, 101–103. <https://doi.org/10.1117/12.2667818>
14. Hsueh, B., Chen, R., Jo, Y. J., Tang, D., Raffiee, M., Kim, Y. S., Inoue, M., Randles, S., Ramakrishnan, C., Patel, S., Kim, D. K., Liu, T. X., Kim, S. H., Tan, L., Mortazavi, L., Cordero, A., Shi, J., Zhao, M., Ho, T. T., ... Deisseroth, K. (2023). Cardiogenic control of affective behavioural state. *Nature* 2023 615:7951, 615(7951), 292–299. <https://doi.org/10.1038/s41586-023-05748-8>
15. Jones, K. M., Mangin, E. N., Reynolds, C. L., Villanueva, L. E., Cruz, J. V., Versteeg, L., Keegan, B., Kendricks, A., Pollet, J., Gusovsky, F., Bottazzi, M. E., & Hotez, P. J. (2023). Vaccine-linked chemotherapy improves cardiac structure and function in a mouse model of chronic Chagas disease. *Frontiers in Cellular and Infection Microbiology*, 13, 93. <https://doi.org/10.3389/FCIMB.2023.1106315/BIBTEX>
16. Kelm, N. Q., Solinger, J. C., Piell, K. M., & Cole, M. P. (2023). Conjugated Linoleic Acid-Mediated Connexin-43 Remodeling and Sudden Arrhythmic Death in Myocardial Infarction. *International Journal of Molecular Sciences* 2023, Vol. 24, Page 11208, 24(13), 11208. <https://doi.org/10.3390/IJMS241311208>
17. Khatib, S., Chen, B., Daneshgar, N., Lee, H.-C., Song, L.-S., & Dai, D.-F. (2023). Mitochondrial Oxidative Stress Mediates Bradyarrhythmia in Leigh Syndrome Mitochondrial Disease Mice. *Antioxidants* 2023, Vol. 12, Page 1001, 12(5), 1001. <https://doi.org/10.3390/ANTIOX12051001>
18. Liao, Y., Xiang, Y., Zheng, M., & Wang, J. (2023). DeepMiceTL: a deep transfer learning based prediction of mice cardiac conduction diseases using early electrocardiograms. *Briefings in Bioinformatics*, 24(3). <https://doi.org/10.1093/BIB/BBAD109>
19. Liu, Z., Ulrich vonBargen, R., Kendricks, A. L., Wheeler, K., Leão, A. C., Sankaranarayanan, K., Dean, D. A., Kane, S. S., Hossain, E., Pollet, J., Bottazzi, M. E., Hotez, P. J., Jones, K. M., & McCall, L. I. (2023). Localized cardiac small molecule trajectories and persistent chemical sequelae in experimental

- Chagas disease. *Nature Communications* 2023 14:1, 14(1), 1–22. <https://doi.org/10.1038/s41467-023-42247-w>
20. Lochhead, J. J., Williams, E. I., Reddell, E. S., Dorn, E., Ronaldson, P. T., & Davis, T. P. (2023). High Resolution Multiplex Confocal Imaging of the Neurovascular Unit in Health and Experimental Ischemic Stroke. *Cells*, 12(4), 645. <https://doi.org/10.3390/CELLS12040645/S1>
  21. 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>
  22. 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>
  23. 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>
  24. Park, K. C., Crump, N. T., Louwman, N., Krywawych, S., Cheong, Y. J., Vendrell, I., Gill, E. K., Gunadasa-Rohling, M., Ford, K. L., Hauton, D., Fournier, M., Pires, E., Watson, L., Roseman, G., Holder, J., Koschinski, A., Carnicer, R., Curtis, M. K., Zaccolo, M., ... Swietach, P. (2023). Disrupted propionate metabolism evokes transcriptional changes in the heart by increasing histone acetylation and propionylation. *Nature Cardiovascular Research* 2023, 1–25. <https://doi.org/10.1038/s44161-023-00365-0>
  25. Reznik, D. L., Yang, M. V., Albelda de la Haza, P., Jain, A., Spanjaard, M., Theiss, S., Schaaf, C. P., Malovannaya, A., Strong, T. V., Veeraragavan, S., & Samaco, R. C. (2023). Magel2 truncation alters select behavioral and physiological outcomes in a rat model of Schaaf-Yang syndrome. *Disease Models & Mechanisms*, 16(2). <https://doi.org/10.1242/DMM.049829/286598/AM/TRUNCATED-RAT-MAGEL2-MODELLED-FOR-THE-STUDY-OF>
  26. Rutledge, C. A., Lagranha, C., Chiba, T., Redding, K., Stolz, D. B., Goetzman, E., Sims-Lucas, S., & Kaufman, B. A. (2023). Metformin preconditioning protects against myocardial stunning and preserves protein translation in a mouse model of cardiac arrest. *Journal of Molecular and Cellular Cardiology Plus*, 4, 100034. <https://doi.org/10.1016/JJMCCPL.2023.100034>
  27. Smith, A., Auer, D., Johnson, M., Sanchez, E., Ross, H., Ward, C., Chakravarti, A., & Kapoor, A. (2023). Cardiac muscle–restricted partial loss of *Nos1ap* expression has limited but significant impact on electrocardiographic features. *G3 Genes | Genomes | Genetics*, 13(11). <https://doi.org/10.1093/G3JOURNAL/JKAD208>

28. Tan, Y., Coyle, R. C., Barrs, R. W., Silver, S. E., Li, M., Richards, D. J., Lin, Y., Jiang, Y., Wang, H., Menick, D. R., DeLeon-Pennell, K., Tian, B., & Mei, Y. (2023). Nanowired human cardiac organoid transplantation enables highly efficient and effective recovery of infarcted hearts. *Science Advances*, 9(31). [https://doi.org/10.1126/SCIADV.ADF2898/SUPPL\\_FILE/SCIADV.ADF2898\\_SM.PDF](https://doi.org/10.1126/SCIADV.ADF2898/SUPPL_FILE/SCIADV.ADF2898_SM.PDF)
29. 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>
30. Yu, P. R., Hsu, J. Y., Tseng, C. Y., Chen, J. H., & Lin, H. H. (2023). The inhibitory effect of quercetin-3-glucuronide on pulmonary injury in vitro and in vivo. *Journal of Food and Drug Analysis*, 31(2), 254. <https://doi.org/10.38212/2224-6614.3453>
31. Broughton, P., Troncoso, M., Corker, A., Williams, A., Bolus, D., Munoz, G., McWhorter, C., Roerden, H., Huebsch, P., & DeLeon-Pennell, K. Y. (2022). Riding the wave: a quantitative report of electrocardiogram utilization for myocardial infarction confirmation. *American Journal of Physiology - Heart and Circulatory Physiology*, 323(3), H378–H387. [https://doi.org/10.1152/AJPHEART.00201.2022/ASSET/IMAGES/LARGE/AJPHEART.00201.2022\\_F008.JPEG](https://doi.org/10.1152/AJPHEART.00201.2022/ASSET/IMAGES/LARGE/AJPHEART.00201.2022_F008.JPEG)
32. Euscher, L. M., Mentkowski, K. I., Tarvirdizadeh, T., Julian, I., Bhatt, K., Eagler, L., & Lang, J. K. (2022). Extracellular vesicle microRNA cargo engineering reveals critical mechanisms underlying therapeutic efficacy. *BioRxiv*, 2022.01.31.478505. <https://doi.org/10.1101/2022.01.31.478505>
33. Kim, J. H., Lee, H., Kim, J. M., Lee, B., Kim, I., Pak, K., Jeon, Y. K., & Kim, K. (2022). Effect of oligonol, a lychee-derived polyphenol, on skeletal muscle in ovariectomized rats by regulating body composition, protein turnover, and mitochondrial quality signaling. *Food Science & Nutrition*. <https://doi.org/10.1002/fsn3.2750>
34. Li, M., Bian, X., Chen, X., Fan, N., Zou, H., Bao, Y., & Zhou, Y. (2022). Multifunctional liposome for photoacoustic/ultrasound imaging-guided chemo/photothermal retinoblastoma therapy. *Drug Delivery*, 29(1), 519–533. <https://doi.org/10.1080/10717544.2022.2032876>
35. McLendon, J. M., Zhang, X., Matasic, D. S., Kumar, M., Koval, O. M., Grumbach, I. M., Sadayappan, S., London, B., & Boudreau, R. L. (2022). Knockout of Sorbin And SH3 Domain Containing 2 (Sorbs2) in Cardiomyocytes Leads to Dilated Cardiomyopathy in Mice. *Journal of the American Heart Association*, 11(13), 25687. <https://doi.org/10.1161/JAHA.122.025687>
36. Nijhuis, A., Sikka, A., Yogev, O., Herendi, L., Balcells, C., Ma, Y., Poon, E., Eckold, C., Valbuena, G. N., Xu, Y., Liu, Y., da Costa, B. M., Gruet, M., Wickremesinghe, C., Benito, A., Kramer, H., Montoya, A., Carling, D., Want, E. J., ... Keun, H. C. (2022). Indisulam targets RNA splicing and metabolism to serve as a therapeutic strategy for high-risk neuroblastoma. *Nature Communications*, 13(1), 1380. <https://doi.org/10.1038/s41467-022-28907-3>
37. Park, J. H., Seo, E., Choi, W., & Lee, S. J. (2022). Ultrasound deep learning for monitoring of flow-vessel dynamics in murine carotid artery. *Ultrasonics*, 120, 106636. <https://doi.org/10.1016/j.ULTRAS.2021.106636>

38. Xu, L., Liu, M. Z., Yang, Y. Y., Wang, Y., Hua, X. X., Du, L. X., Zhu, J. Y., Shen, Y., Wang, Y. Q., Zhang, L., Mi, W. L., & Mu, D. (2022). Geraniol enhances inhibitory inputs to the paraventricular thalamic nucleus and induces sedation in mice. *Phytomedicine*, 98, 153965. <https://doi.org/10.1016/j.PHYMED.2022.153965>
39. Yoon, J.-Y., Daneshgar, N., Chu, Y., Chen, B., Hefti, M., Vikram, A., Irani, K., Song, L.-S., Brenner, C., Dale Abel, E., London, B., Dai, D.-F., & Dao-Fu Dai, C. (2022). Metabolic rescue ameliorates mitochondrial encephalo-cardiomyopathy in murine and human iPSC models of Leigh syndrome. *Clinical and Translational Medicine*, 12(7), e954. <https://doi.org/10.1002/CTM2.954>
40. Gonzales, J., Hernández-Gil, J., Wilson, T. C., Adilbay, D., Cornejo, M., Demétrio De Souza Franca, P., Guru, N., Schroeder, C. I., King, G. F., Lewis, J. S., & Reiner, T. (2021). Bimodal Imaging of Mouse Peripheral Nerves with Chlorin Tracers. *Molecular Pharmaceutics*, 18(3), 940–951. [https://doi.org/10.1021/ACS.MOLPHARMACEUT.0C00946/SUPPL\\_FILE/MP0C00946\\_SI\\_001.PDF](https://doi.org/10.1021/ACS.MOLPHARMACEUT.0C00946/SUPPL_FILE/MP0C00946_SI_001.PDF)
41. Jiang, Y., Castro, J., Blomster, L. V., Agwa, A. J., Maddern, J., Schober, G., Herzig, V., Chow, C. Y., Cardoso, F. C., Demétrio De Souza França, P., Gonzales, J., Schroeder, C. I., Esche, S., Reiner, T., Brierley, S. M., & King, G. F. (2021). Pharmacological Inhibition of the Voltage-Gated Sodium Channel NaV1.7 Alleviates Chronic Visceral Pain in a Rodent Model of Irritable Bowel Syndrome. *ACS Pharmacology and Translational Science*, 4(4), 1362–1378. [https://doi.org/10.1021/ACSPTSCI.1C00072/SUPPL\\_FILE/PT1C00072\\_SI\\_001.PDF](https://doi.org/10.1021/ACSPTSCI.1C00072/SUPPL_FILE/PT1C00072_SI_001.PDF)
42. Kenny, H. C., Weatherford, E. T., Collins, G. V., Allamargot, C., Gesalla, T., Zimmerman, K., Goel, H., Mclendon, J. M., Dai, D.-F., Romac, T., Streeter, J., Sharafuddin, J., Diwan, A., Pereira, R., Song, L.-S., Dale Abel, E., Dale, E., & Md, A. (2021). Cardiac Specific Overexpression of Transcription Factor EB (TFEB) in Normal Hearts Induces Pathologic Cardiac Hypertrophy and Lethal Cardiomyopathy. *BioRxiv*, 2021.02.16.431474. <https://doi.org/10.1101/2021.02.16.431474>
43. Krupa, A., Gonciarz, W., Rusek-Wala, P., Rechciński, T., Gajewski, A., Samsel, Z., Dziuba, A., Smiech, A., & Chmiela, M. (2021). Helicobacter pylori Infection Acts Synergistically with a High-Fat Diet in the Development of a Proinflammatory and Potentially Proatherogenic Endothelial Cell Environment in an Experimental Model. *International Journal of Molecular Sciences Article*. <https://doi.org/10.3390/ijms22073394>
44. Mesubi, O. O., Rokita, A. G., Abrol, N., Wu, Y., Chen, B., Wang, Q., Granger, J. M., Tucker-Bartley, A., Luczak, E. D., Murphy, K. R., Umapathi, P., Banerjee, P. S., Boronina, T. N., Cole, R. N., Maier, L. S., Wehrens, X. H., Pomerantz, J. L., Song, L. S., Ahima, R. S., ... Anderson, M. E. (2021). Oxidized CaMKII and O-GlcNAcylation cause increased atrial fibrillation in diabetic mice by distinct mechanisms. *The Journal of Clinical Investigation*, 131(2). <https://doi.org/10.1172/JCI95747>
45. Qian, L. L., Sun, X., Yang, J., Wang, X. L., Ackerman, M. J., Wang, R. X., Xu, X., Lee, H. C., & Lu, T. (2021). Changes in ion channel expression and function associated with cardiac arrhythmogenic remodeling by Sorbs2. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, 1867(12), 166247. <https://doi.org/10.1016/j.BBADIS.2021.166247>

46. Rao, A. N., Campbell, H. M., Guan, X., Word, T. A., Wehrens, X. H., Xia, Z., & Cooper, T. A. (2021). Reversible cardiac disease features in an inducible CUG-repeat RNA expressing mouse model of myotonic dystrophy. *JCI Insight*, 6(5).
47. Tovar Perez, J. E., Ortiz-Urbina, J., Pena Heredia, C., 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, 536. <https://doi.org/10.1038/s41598-020-79866-y>
48. Troncoso, M., Williams, A., & DeLeon-Pennell, K. (2021). Using EKG to Confirm MI in Mouse Model of Permanent Left Anterior Descending Coronary Artery. *The FASEB Journal*, 35(S1). <https://doi.org/10.1096/FASEBJ.2021.35.S1.03578>
49. Trosclair, K., Si, M., Watts, M., Gautier, N. M., Voigt, N., Traylor, J., Bitay, M., Baczko, I., Dobrev, D., Hamilton, K. A., Bhuiyan, M. S., Dominic, P., & Glasscock, E. (2021). Kv1.1 potassium channel subunit deficiency alters ventricular arrhythmia susceptibility, contractility, and repolarization. *Physiological Reports*, 9(1), e14702. <https://doi.org/10.14814/PHY2.14702>
50. Watts, M., Kolluru, G. K., Dherange, P., Pardue, S., Si, M., Shen, X., Trosclair, K., Glawe, J., Al-Yafeai, Z., Iqbal, M., Pearson, B. H., Hamilton, K. A., Orr, A. W., Glasscock, E., Kevil, C. G., & Dominic, P. (2021). Decreased bioavailability of hydrogen sulfide links vascular endothelium and atrial remodeling in atrial fibrillation. *Redox Biology*, 38. <https://doi.org/10.1016/j.redox.2020.101817>
51. Adapala, R. K., Kanugula, A. K., Paruchuri, S., Chilian, W. M., & Thodeti, C. K. (2020). TRPV4 deletion protects heart from myocardial infarction-induced adverse remodeling via modulation of cardiac fibroblast differentiation. *Basic Research in Cardiology*, 115(2). <https://doi.org/10.1007/s00395-020-0775-5>
52. Corporan, D., Kono, T., Onohara, D., & Padala, M. (2020). An Image Guided Transapical Mitral Valve Leaflet Puncture Model of Controlled Volume Overload from Mitral Regurgitation in the Rat. *JoVE (Journal of Visualized Experiments)*, 2020(159), e61029. <https://doi.org/10.3791/61029>
53. Kang, J. G., Lago, C. U., Lee, J. E., Park, J. H., Donnelly, M. P., Starost, M. F., Liu, C., Kwon, J., Noguchi, A. C., Ge, K., Wang, P. yuan, & Hwang, P. M. (2020). A Mouse Homolog of a Human TP53 Germline Mutation Reveals a Lipolytic Activity of p53. *Cell Reports*, 30(3), 783-792.e5. <https://doi.org/10.1016/j.celrep.2019.12.074>
54. 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>
55. Li, C., Yan, J., Tang, D., Zhu, J., Huang, C., Sun, Y., Hu, R., Wang, H., Fu, C., Chen, Y., & Jiang, H. (2020). GluN2A-selective positive allosteric modulator-nalmefene-flumazenil reverses ketamine-fentanyl-dexmedetomidine-induced anesthesia and analgesia in rats. *Scientific Reports*, 10(1). <https://doi.org/10.1038/s41598-020-62192-8>

56. 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* 2021, Vol. 13, Page 19, 13(1), 19. <https://doi.org/10.3390/TOXINS13010019>
57. Martin, B. L., Thompson, L. C., Kim, Y. H., Snow, S. J., Schladweiler, M. C., Phillips, P., Harmon, M., King, C., Richards, J., George, I., Martin, W. K., Haykal-Coates, N., Gilmour, M. I., Kodavanti, U. P., Hazari, M. S., & Farraj, A. K. (2020). A single exposure to eucalyptus smoke sensitizes rats to the postprandial cardiovascular effects of a high carbohydrate oral load. *Inhalation Toxicology*, 32(8), 342–353. <https://doi.org/10.1080/08958378.2020.1809572>
58. Moreira, L. M., Takawale, A., Hulsurkar, M., Menassa, D. A., Antanaviciute, A., Lahiri, S. K., Mehta, N., Evans, N., Psarros, C., Robinson, P., Sparrow, A. J., Gillis, M. A., Ashley, N., Naud, P., Barallobre-Barreiro, J., Theofilatos, K., Lee, A., Norris, M., Clarke, M. V., ... Reilly, S. (2020). Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. *Nature*, 587(7834), 460–465. <https://doi.org/10.1038/s41586-020-2890-8>
59. Nakayama, S., Taguchi, N., Isaka, Y., Nakamura, T., & Tanaka, M. (2020). Combined Treatment with Hydrophilic and Lipophilic Statins Improves Neurological Outcomes Following Experimental Cardiac Arrest in Mice. *Neurocritical Care*, 33(1), 64–72. <https://doi.org/10.1007/s12028-019-00862-w>
60. Reilly, L., Alvarado, F. J., Lang, D., Abozeid, S., Van Ert, H., Spellman, C., Warden, J., Makielski, J. C., Glukhov, A. V., & Eckhardt, L. L. (2020). Genetic Loss of I K1 Causes Adrenergic-induced Phase 3 Early Afterdepolarizations and Polymorphic and Bi-directional Ventricular Tachycardia. <http://ahajournals.org>
61. Schnelle, M., Chong, M., Zoccarato, A., Elkenani, M., Sawyer, G. J., Hasenfuss, G., Ludwig, C., & Shah, A. M. (2020). In vivo [U-13C]glucose labeling to assess heart metabolism in murine models of pressure and volume overload. *American Journal of Physiology - Heart and Circulatory Physiology*, 319(2), H422–H431. <https://doi.org/10.1152/ajpheart.00219.2020>
62. 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>
63. Javaheri, A., Bajpai, G., Picataggi, A., Mani, S., Froughi, L., Evie, H., Kovacs, A., Weinheimer, C. J., Hyc, K., Xiao, Q., Ballabio, A., Lee, J. M., Matkovich, S. J., Razani, B., Schilling, J. D., Lavine, K. J., & Diwan, A. (2019). TFEB activation in macrophages attenuates postmyocardial infarction ventricular dysfunction independently of ATG5-mediated autophagy. *JCI Insight*, 4(21). <https://doi.org/10.1172/jci.insight.127312>
64. Li, H., Zhou, X., Li, Y., Ma, X., Gonzales, R. J., Qiu, S., Shi, F. D., & Liu, Q. (2019). The selective sphingosine 1-phosphate receptor 1 modulator RP101075 improves microvascular circulation after cerebrovascular thrombosis. *FASEB Journal*, 33(10), 10935–10941. <https://doi.org/10.1096/fj.201900282R>

65. Mccauley, M. D., Vitale, F., Yan, J. S., Young, C. C., Greet, B., Orecchioni, M., Perike, S., Elgalad, A., Coco, J. A., John, M., Taylor, D. A., Sampaio, L. C., Delogu, L. G., Razavi, M., & Pasquali, M. (2019). In Vivo Restoration of Myocardial Conduction With Carbon Nanotube Fibers. *Circulation: Arrhythmia and Electrophysiology*, 12(8). <https://doi.org/10.1161/CIRCEP.119.007256>
66. Zhao, W., Cao, L., Ying, H., Zhang, W., Li, D., Zhu, X., Xue, W., Wu, S., Cao, M., Fu, C., Qi, H., Hao, Y., Tang, Y. C., Qin, J., Zhong, T. P., Lin, X., Yu, L., Li, X., Li, L., ... Pan, W. (2019). Endothelial CDS2 deficiency causes VEGFA-mediated vascular regression and tumor inhibition. *Cell Research*, 29(11), 895–910. <https://doi.org/10.1038/s41422-019-0229-5>
67. Thompson, L. C., Ledbetter, A. D., Haykal-Coates, N., Cascio, W. E., Hazari, M. S., & Farraj, A. K. (2017). Acrolein Inhalation Alters Myocardial Synchrony and Performance at and Below Exposure Concentrations that Cause Ventilatory Responses. *Cardiovascular Toxicology*, 17(2), 97–108. <https://doi.org/10.1007/s12012-016-9360-4>
68. Barreto-Torres, G., & Javadov, S. (2016). Possible role of interaction between PPAR  $\alpha$  and cyclophilin D in cardioprotection of AMPK against in vivo ischemia-reperfusion in rats. In *PPAR Research* (Vol. 2016). Hindawi Limited. <https://doi.org/10.1155/2016/9282087>
69. Ho, Y. J., Chang, Y. C., & Yeh, C. K. (2016). Improving nanoparticle penetration in tumors by vascular disruption with acoustic droplet vaporization. *Theranostics*, 6(3), 392–403. <https://doi.org/10.7150/thno.13727>
70. Cuomo, F., Ferruzzi, J., Humphrey, J. D., & Figueroa, C. A. (2015). An Experimental–Computational Study of Catheter Induced Alterations in Pulse Wave Velocity in Anesthetized Mice. *Annals of Biomedical Engineering*, 43(7), 1555–1570. <https://doi.org/10.1007/s10439-015-1272-0>
71. 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>
72. Ye, W., Wang, J., Song, Y., Yu, D., Sun, C., Liu, C., Chen, F., Zhang, Y., Wang, F., Harvey, R. P., Schrader, L., Martin, J. F., & Chen, Y. P. (2015). A common Shox2–nkx2-5 antagonistic mechanism primes the pacemaker cell fate in the pulmonary vein myocardium and sinoatrial node. *Development (Cambridge)*, 142(14), 2521–2532. <https://doi.org/10.1242/dev.120220>
73. Yeom, E., Kang, Y. J., & Lee, S. J. (2015). Hybrid system for ex vivo hemorheological and hemodynamic analysis: A feasibility study. *Scientific Reports*, 5. <https://doi.org/10.1038/srep11064>
74. Chen, J. J., Cheng, C. H., & Yeh, C. K. (2014). Skin-scanning technique for superficial blood flow imaging using a high-frequency ultrasound system. *Ultrasonics*, 54(1), 241–246. <https://doi.org/10.1016/j.ultras.2013.06.003>
75. Domínguez, E., Ruberte, J., Ríos, J., Novellas, R., del Alamo, M. M. R., Navarro, M., & Espada, Y. (2014). Non-invasive in vivo measurement of cardiac output in C57BL/6 mice using high frequency



- transthoracic ultrasound: evaluation of gender and body weight effects. *International Journal of Cardiovascular Imaging*, 30(7), 1237–1244. <https://doi.org/10.1007/s10554-014-0454-4>
76. Giudice, J., Xia, Z., Wang, E. T., Scavuzzo, M. A., Ward, A. J., Kalsotra, A., Wang, W., Wehrens, X. H. T., Burge, C. B., Li, W., & Cooper, T. A. (2014). Alternative splicing regulates vesicular trafficking genes in cardiomyocytes during postnatal heart development. *Nature Communications*, 5. <https://doi.org/10.1038/ncomms4603>
  77. Li, H., Qu, D., McDonald, A., Isaac, S. M., Whiteley, K. J., Sung, H. K., Nagy, A., & Lee Adamson, S. (2014). Trophoblast-specific reduction of VEGFA alters placental gene expression and maternal cardiovascular function in mice. *Biology of Reproduction*, 91(4). <https://doi.org/10.1095/biolreprod.114.118299>
  78. Nandlall, S. D., Goldklang, M. P., Kalashian, A., Dangra, N. A., D'Armiento, J. M., & Konofagou, E. E. (2014). Monitoring and staging abdominal aortic aneurysm disease with pulse wave imaging. *Ultrasound in Medicine and Biology*, 40(10), 2404–2414. <https://doi.org/10.1016/j.ultrasmedbio.2014.04.013>
  79. Respress, J. L., Gershovich, P. M., Wang, T., Reynolds, J. O., Skapura, D. G., Sutton, J. P., Miyake, C. Y., & Wehrens, X. H. T. (2014). Long-term simulated microgravity causes cardiac RyR2 phosphorylation and arrhythmias in mice. *International Journal of Cardiology*, 176(3), 994–1000. <https://doi.org/10.1016/j.ijcard.2014.08.138>
  80. 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>
  81. Yeom, E., Nam, K. H., Jin, C., Paeng, D. G., & Lee, S. J. (2014). 3D reconstruction of a carotid bifurcation from 2D transversal ultrasound images. *Ultrasonics*, 54(8), 2184–2192. <https://doi.org/10.1016/j.ultras.2014.06.002>
  82. Mee Jung, S., Jandu, S., Stepan, 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>
  83. Nam, K. H., Bok, T. H., Kong, Q., & Paeng, D. G. (2013). High spatial and temporal resolution observations of pulsatile changes in blood echogenicity in the common carotid artery of rats. *Ultrasound in Medicine and Biology*, 39(9), 1665–1671. <https://doi.org/10.1016/j.ultrasmedbio.2013.03.032>
  84. Xu, Y., Xu, Y., Liao, L., Zhou, N., Theissen, S. M., Liao, X. H., Nguyen, H., Ludwig, T., Qin, L., Martinez, J. D., Jiang, J., & Xu, J. (2013). Inducible knockout of twist1 in young and adult mice prolongs hair growth cycle and has mild effects on general health, supporting twist1 as a preferential cancer target. *American Journal of Pathology*, 183(4), 1281–1292. <https://doi.org/10.1016/j.ajpath.2013.06.021>

85. Fan, C. H., Liu, H. L., Huang, C. Y., Ma, Y. J., Yen, T. C., & Yeh, C. K. (2012). Detection of Intracerebral Hemorrhage and Transient Blood-Supply Shortage in Focused-Ultrasound-Induced Blood-Brain Barrier Disruption by Ultrasound Imaging. *Ultrasound in Medicine and Biology*, 38(8), 1372–1382. <https://doi.org/10.1016/j.ultrasmedbio.2012.03.013>
86. Meyer, A., Wang, W., Qu, J., Croft, L., Degen, J. L., Collier, B. S., & Ahamed, J. (2012). Platelet TGF- $\beta$ 1 contributions to plasma TGF- $\beta$ 1, cardiac fibrosis, and systolic dysfunction in a mouse model of pressure overload. *Blood*, 119(4), 1064–1074. <https://doi.org/10.1182/blood-2011-09-377648>
87. 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>
88. Stoyanova, E., Cloutier, G., Felfly, H., Lemsaddek, W., Ah-Son, N., & Trudel, M. (2012). Evidence for a Novel Mechanism Independent of Myocardial Iron in  $\beta$ -Thalassemia Cardiac Pathogenesis. *PLoS ONE*, 7(12). <https://doi.org/10.1371/journal.pone.0052128>
89. Szardien, S., Nef, H. M., Voss, S., Troidl, C., Liebetrau, C., Hoffmann, J., Rauch, M., Mayer, K., Kimmich, K., Rolf, A., Rixe, J., Troidl, K., Kojonazarov, B., Schermuly, R. T., Kostin, S., Elsässer, A., Hamm, C. W., & Möllmann, H. (2012). Regression of cardiac hypertrophy by granulocyte colony-stimulating factor-stimulated interleukin-1 $\beta$  synthesis. *European Heart Journal*, 33(5), 595–605. <https://doi.org/10.1093/eurheartj/ehr434>
90. Vatin, M., Burgio, G., Renault, G., Laissue, P., Firlej, V., Mondon, F., Montagutelli, X., Vaiman, D., Serres, C., & Ziyat, A. (2012). Refined mapping of a quantitative trait locus on chromosome 1 responsible for mouse embryonic death. *PLoS ONE*, 7(8). <https://doi.org/10.1371/journal.pone.0043356>
91. Chen, J. J., Chen, J. J., Chiang, C. S., Hong, J. H., & Yeh, C. K. (2011). Assessment of tumor vasculature for diagnostic and therapeutic applications in a mouse model in vivo using 25-MHz power Doppler imaging. *Ultrasonics*, 51(8), 925–931. <https://doi.org/10.1016/j.ultras.2011.05.007>
92. Constantinides, C., Mean, R., & Janssen, B. J. (2011). Effects of Isoflurane Anesthesia on the Cardiovascular Function of the C57BL/6 Mouse. *Institute for Laboratory Animal Research*, 52(3).
93. Kosanovic, D., Kojonazarov, B., Luitel, H., Dahal, B. K., Sydykov, A., Cornitescu, T., Janssen, W., Brandes, R. P., Davie, N., Ghofrani, H. A., Weissmann, N., Grimminger, F., Seeger, W., & Schermuly, R. T. (2011). Therapeutic efficacy of TBC3711 in monocrotaline-induced pulmonary hypertension. *Respiratory Research*, 12. <https://doi.org/10.1186/1465-9921-12-87>
94. Luo, J., & Konofagou, E. E. (2011). Imaging of Wall Motion Coupled With Blood Flow Velocity in the Heart and Vessels in Vivo: A Feasibility Study. *Ultrasound in Medicine and Biology*, 37(6), 980–995. <https://doi.org/10.1016/j.ultrasmedbio.2011.03.004>
95. 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>
96. 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>
  97. Urboniene, D., Haber, I., Fang, Y.-H., Thenappan, T., & Archer, S. L. (2010). Validation of high-resolution echocardiography and magnetic resonance imaging vs. high-fidelity catheterization in experimental pulmonary hypertension. *Am J Physiol Lung Cell Mol Physiol*, 299, 401–412.  
<https://doi.org/10.1152/ajplung.00114.2010.-High>
  98. Han, M., Serrano, M. C., Lastra-Vicente, R., Brinez, P., Acharya, G., Huhta, J. C., Chen, R., & Linask, K. K. (2009). Folate rescues lithium-, homocysteine- and Wnt3A-induced vertebrate cardiac anomalies. *DMM Disease Models and Mechanisms*, 2(9–10), 467–478.  
<https://doi.org/10.1242/dmm.001438>
  99. 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>
  100. Ketterling, J. A., & Aristizábal, O. (2009). Prospective ECG-gated Mouse Cardiac Imaging with a 34-MHz Annular Array Transducer. <https://doi.org/10.1109/TUFFC>
  101. Luo, J., Fujikura, K., Tyrie, L. S., Tilson, M. D., & Konofagou, E. E. (2009). Pulse wave imaging of normal and aneurysmal abdominal aortas in vivo. *IEEE Transactions on Medical Imaging*, 28(4), 477–486. <https://doi.org/10.1109/TMI.2008.928179>
  102. O'Connor, J. P. B., Carano, R. A. D., Clamp, A. R., Ross, J., Ho, C. C. K., Jackson, A., Parker, G. J. M., Rose, C. J., Peale, F. V., Friesenhahn, M., Mitchell, C. L., Watson, Y., Roberts, C., Hope, L., Cheung, S., Reslan, H. B., Go, M. A. T., Pacheco, G. J., Wu, X., ... Jayson, G. C. (2009). Quantifying antivascular effects of monoclonal antibodies to vascular endothelial growth factor: Insights from imaging. *Clinical Cancer Research*, 15(21), 6674–6682. <https://doi.org/10.1158/1078-0432.CCR-09-0731>
  103. Pinter, S. Z., & Lacefield, J. C. (2009). Detectability of Small Blood Vessels with High-Frequency Power Doppler and Selection of Wall Filter Cut-Off Velocity for Microvascular Imaging. *Ultrasound in Medicine and Biology*, 35(7), 1217–1228. <https://doi.org/10.1016/j.ultrasmedbio.2009.01.010>