

Publications 2024-2025

Benjamin Belfort

- Belfort, B. D. W.,** Jia, J. D., Garza, A. R., Insalaco, A. M., McGinnis, J. P., Pekarek, B. T., Ortiz-Guzman, J., Tepe, B., Chen, H., aSCENT-PD Investigators, Liu, Z., & Arenkiel, B. R. (2025). Comparative analysis of AAV serotypes for transduction of olfactory sensory neurons. *Frontiers in neuroscience*, 19, 1531122. <https://doi.org/10.3389/fnins.2025.1531122>
- Kim, Y., McInnes, J., Kim, J., Liang, Y. H. W., Veeraragavan, S., Garza, A. R., **Belfort, B. D. W.,** Arenkiel, B., Samaco, R., & Zoghbi, H. Y. (2024). Olfactory deficit and gastrointestinal dysfunction precede motor abnormalities in alpha-Synuclein G51D knock-in mice. *Proceedings of the National Academy of Sciences of the United States of America*, 121(39), e2406479121. <https://doi.org/10.1073/pnas.2406479121>
- Bao, S., Romero, J. M., **Belfort, B. D. W.,** & Arenkiel, B. R. (2024). Signaling mechanisms underlying activity-dependent integration of adult-born neurons in the mouse olfactory bulb. *Genesis (New York, N.Y. : 2000)*, 62(2), e23595. <https://doi.org/10.1002/dvg.23595>

Daniel Brock

- Brock, D. C.,** Wang, M., Hussain, H. M. J., Rauch, D. E., Marra, M., Pennesi, M. E., Yang, P., Everett, L., Ajlan, R. S., Colbert, J., Porto, F. B. O., Matynia, A., Gorin, M. B., Koenekoop, R. K., Lopez, I., Sui, R., Zou, G., Li, Y., & Chen, R. (2024). Comparative analysis of in-silico tools in identifying pathogenic variants in dominant inherited retinal diseases. *Human molecular genetics*, 33(11), 945–957. <https://doi.org/10.1093/hmg/ddae028>

Phillip Burkhardt

- Ma, R., Woods, M., **Burkhardt, P. M.,** Crooks, N., van Leeuwen, D. G., Schmidt, D., Couturier, J., Chaumette, A., Popat, D., Hill, L. C., Rouce, R. H., Thakkar, S., Orozco, A. F., Carisey, A. F., Brenner, M. K., & Mamonkin, M. (2024). Chimeric antigen receptor-induced antigen loss protects CD5.CART cells from fratricide without compromising on-target cytotoxicity. *Cell reports. Medicine*, 5(7), 101628. <https://doi.org/10.1016/j.xcrm.2024.101628>
- Hill, L. C., Rouce, R. H., Wu, M. J., Wang, T., Ma, R., Zhang, H., Mehta, B., Lapteva, N., Mei, Z., Smith, T. S., Yang, L., Srinivasan, M., **Burkhardt, P. M.,** Ramos, C. A., Lulla, P., Arredondo, M., Grilley, B., Heslop, H. E., Brenner, M. K., & Mamonkin, M. (2024). Antitumor efficacy and safety of unedited autologous CD5.CAR T cells in relapsed/refractory mature T-cell lymphomas. *Blood*, 143(13), 1231–1241. <https://doi.org/10.1182/blood.2023022204>

Emily Busse

- Marom, R., Song, I. W., **Busse, E. C.,** Washington, M. E., Berrier, A. S., Rossi, V. C., Ortinau, L., Jeong, Y., Jiang, M. M., Dawson, B. C., Adeyeye, M., Leynes, C., Lietman, C. D., Stroup, B. M., Batkovskytė, D., Jain, M., Chen, Y., Cela, R., Castellon, A., Tran, A. A., ... Lee, B. H. (2024). The IFITM5 mutation in osteogenesis imperfecta type V is associated with an ERK/SOX9-dependent osteoprogenitor differentiation defect. *The Journal of clinical investigation*, 134(15), e170369. <https://doi.org/10.1172/JCI170369>
- Busse, E. C.,** Lee, B., & Nagamani, S. C. S. (2024). Genetic Evaluation for Monogenic Disorders of Low Bone Mass and Increased Bone Fragility: What Clinicians Need to Know. *Current osteoporosis reports*, 22(3), 308–317. <https://doi.org/10.1007/s11914-024-00870-6>

Hilda Chan

- Hao, X., Shen, Y., Liu, J., Alexander, A., Wu, L., Xu, Z., Yu, L., Gao, Y., Liu, F., **Chan, H. L.,** Li, C. H., Ding, Y., Zhang, W., Edwards, D. G., Chen, N., Nasrazadani, A., Ueno, N. T., Lim, B., & Zhang, X. H. (2024). Solid tumour-induced systemic immunosuppression involves dichotomous myeloid-B cell interactions. *Nature cell biology*, 26(11), 1971–1983. <https://doi.org/10.1038/s41556-024-01508-6>
- Yuan, X., Hao, X., **Chan, H. L.,** Zhao, N., Pedroza, D. A., Liu, F., Le, K., Smith, A. J., Calderon, S. J., Lieu, N., Soth, M. J., Jones, P., Zhang, X. H., & Rosen, J. M. (2024). CREB-binding protein/P300 bromodomain inhibition reduces neutrophil accumulation and activates antitumor immunity in triple-negative breast cancer. *JCI insight*, 9(20), e182621. <https://doi.org/10.1172/jci.insight.182621>
- Chan, H. L.,** & Zhang, X. H. (2024). Nutrient Sensing in Macrophages Linked to Reorganized Tumor Vasculature. *Cancer research*, 84(5), 650–651. <https://doi.org/10.1158/0008-5472.CAN-24-0201>

Yifan Chen

- Xu, W., Cao, Y., Stephens, S. B., Arredondo, M. J., **Chen, Y.,** Perez, W., Sun, L., Yu, A. C., Kim, J. J., Lalani, S. R., Li, N., Horrigan, F. T., Altamirano, F., Wehrens, X. H., Miyake, C. Y., & Zhang, L. (2024). Folate as a potential treatment for lethal ventricular arrhythmias in TANGO2-deficiency disorder. *JCI insight*, 9(11), e171005. <https://doi.org/10.1172/jci.insight.171005>

Publications 2024-2025

Gandhar Datar

Maneix, L., Iakova, P., Lee, C. G., Moree, S. E., Lu, X., **Datar, G. K.**, Hill, C. T., Spooner, E., King, J. C. K., Sykes, D. B., Saez, B., Di Stefano, B., Chen, X., Krause, D. S., Sahin, E., Tsai, F. T. F., Goodell, M. A., Berk, B. C., Scadden, D. T., & Catic, A. (2024). Cyclophilin A supports translation of intrinsically disordered proteins and affects haematopoietic stem cell ageing. *Nature cell biology*, 26(4), 593–603. <https://doi.org/10.1038/s41556-024-01387-x>

Moez Dawood

Dawood, M., Fayer, S., Pendyala, S., Post, M., Kalra, D., Patterson, K., Venner, E., Muffley, L. A., Fowler, D. M., Rubin, A. F., Posey, J. E., Plon, S. E., Lupski, J. R., Gibbs, R. A., Starita, L. M., Robles-Espinoza, C. D., Coyote-Maestas, W., & Gallego Romero, I. (2024). Using multiplexed functional data to reduce variant classification inequities in underrepresented populations. *Genome medicine*, 16(1), 143. <https://doi.org/10.1186/s13073-024-01392-7>

Dardas, Z., Fatih, J. M., Jolly, A., **Dawood, M.**, Du, H., Grochowski, C. M., Jones, E. G., Jhangiani, S. N., Wehrens, X. H. T., Liu, P., Bi, W., Boerwinkle, E., Posey, J. E., Muzny, D. M., Gibbs, R. A., Lupski, J. R., Coban-Akdemir, Z., & Morris, S. A. (2024). NODAL variants are associated with a continuum of laterality defects from simple D-transposition of the great arteries to heterotaxy. *Genome medicine*, 16(1), 53. <https://doi.org/10.1186/s13073-024-01312-9>

Chong, J. X., Berger, S. I., Baxter, S., Smith, E., Xiao, C., Calame, D. G., Hawley, M. H., Rivera-Munoz, E. A., DiTroia, S., **Genomics Research to Elucidate the Genetics of Rare Diseases (GREGoR) Consortium**, Bamshad, M. J., & Rehm, H. L. (2024). Considerations for reporting variants in novel candidate genes identified during clinical genomic testing. *Genetics in medicine: official journal of the American College of Medical Genetics*, 26(10), 101199. <https://doi.org/10.1016/j.gim.2024.101199>

IGVF Consortium (2024). Deciphering the impact of genomic variation on function. *Nature*, 633(8028), 47–57. <https://doi.org/10.1038/s41586-024-07510-0>

Kali Deans-Fielder

Deans-Fielder, K., Wu, T., Nguyen, T., To, S., Huang, Y. Z., Bark, S. J., Mills, J. C., & Shroyer, N. F. (2024). Mechanisms driving fasting-induced protection from genotoxic injury in the small intestine. *American journal of physiology. Gastrointestinal and liver physiology*, 326(5), G504–G524. <https://doi.org/10.1152/ajpgi.00126.2023>

Cole Deisseroth

Mao, D., Liu, C., Wang, L., Ai-Ouran, R., **Deisseroth, C.**, Pasupuleti, S., Kim, S. Y., Li, L., Rosenfeld, J. A., Meng, L., Burrage, L. C., Wangler, M. F., Yamamoto, S., Undiagnosed Diseases Network, Santana, M., Perez, V., Shukla, P., Eng, C. M., Lee, B., Yuan, B., ... Liu, Z. (2024). AI-MARRVEL - A Knowledge-Driven AI System for Diagnosing Mendelian Disorders. *NEJM AI*, 1(5), 10.1056/aioa2300009. <https://doi.org/10.1056/aioa2300009>

Justin Dhindsa

Middleton, L., Melas, I., Vasavda, C., Raies, A., Rozemberczki, B., Dhindsa, R. S., **Dhindsa, J. S.**, Weido, B., Wang, Q., Harper, A. R., Edwards, G., Petrovski, S., & Vitsios, D. (2024). Phenome-wide identification of therapeutic genetic targets, leveraging knowledge graphs, graph neural networks, and UK Biobank data. *Science advances*, 10(19), ead1424. <https://doi.org/10.1126/sciadv.ad1424>

Lauren Dorn

Gebert, J. T., Scribano, F. J., Engevik, K. A., Huleatt, E. M., Eledge, M. R., **Dorn, L. E.**, Philip, A. A., Kawagishi, T., Greenberg, H. B., Patton, J. T., & Hyser, J. M. (2025). Viroporin activity is necessary for intercellular calcium signals that contribute to viral pathogenesis. *Science advances*, 11(3), eadq8115. <https://doi.org/10.1126/sciadv.adq8115>

Matthew Ehrenburg

Hunt, P. J., Mehta, J., **Ehrenburg, M. R.**, Reyes-Capó, D. P., Chen, C., Zieske, A., Zu, Y., Chévez-Barrios, P., Yen, M. T., & Pflugfelder, S. C. (2024). Orbital Richter Transformation With Subsequent Orbital MALT-type Lymphoma in a Patient With Chronic Lymphocytic Leukemia. *Ophthalmic plastic and reconstructive surgery*, 40(6), e205–e209. <https://doi.org/10.1097/IOP.0000000000002719>

Thomas Gebert

Gebert, J. T., Scribano, F. J., Engevik, K. A., Huleatt, E. M., Eledge, M. R., Dorn, L. E., Philip, A. A., Kawagishi, T., Greenberg, H. B., Patton, J. T., & Hyser, J. M. (2025). Viroporin activity is necessary for intercellular calcium signals that contribute to viral pathogenesis. *Science advances*, 11(3), eadq8115. <https://doi.org/10.1126/sciadv.adq8115>

Publications 2024-2025

Kevin Ho

Hanna, A. D., Chang, T., **Ho, K. S.**, Yee, R. S. Z., Walker, W. C., Agha, N., Hsu, C. W., Jung, S. Y., Dickinson, M. E., Samee, M. A. H., Ward, C. S., Lee, C. S., Rodney, G. G., & Hamilton, S. L. (2025). Mechanisms underlying dilated cardiomyopathy associated with FKBP12 deficiency. *The Journal of general physiology*, 157(1), e202413583. <https://doi.org/10.1085/jgp.202413583>

Katie Hogan

Brlecic, P. E., Sylvester, C. B., **Hogan, K. J.**, Zhang, Q., Coselli, J. S., Moon, M. R., Rosengart, T. K., Chatterjee, S., & Ghanta, R. K. (2025). Low socioeconomic status adversely influences outcomes after coronary artery bypass grafting. *The Journal of Thoracic and Cardiovascular Surgery*, S0022-5223(25)00033-9. Advance online publication. <https://doi.org/10.1016/j.jtcvs.2025.01.010>

Brlecic, P. E., **Hogan, K. J.**, Treffalls, J. A., Sylvester, C. B., Coselli, J. S., Moon, M. R., Rosengart, T. K., Chatterjee, S., & Ghanta, R. K. (2024). Safety of Early Discharge After Coronary Artery Bypass Grafting: A Nationwide Readmissions Analysis. *The Annals of thoracic surgery*, 118(3), 701–710. <https://doi.org/10.1016/j.athoracsur.2024.05.045>

Hogan, K. J., Sylvester, C. B., Miles, T. J., Wall, M., Rosengart, T. K., Moon, M. R., Coselli, J. S., Chatterjee, S., & Ghanta, R. K. (2024). Substance Use and Outcomes of Left-Sided Valve Replacement in Patients With Infective Endocarditis. *Annals of thoracic surgery short reports*, 2(4), 759–764. <https://doi.org/10.1016/j.atssr.2024.06.002>

Miles, T. J., Ryan, C. T., **Hogan, K. J.**, Sayal, B. S., Sylvester, C. B., Rosengart, T. K., Coselli, J. S., Moon, M. R., Ghanta, R. K., & Chatterjee, S. (2024). Impact of frailty on outcomes and readmissions after transcatheter and surgical aortic valve replacement in a national cohort. *JTCVS open*, 20, 14–25. <https://doi.org/10.1016/j.xjon.2024.05.006>

Kevin Jiang

Kim, J. H., Chen, W., Chao, E. S., Rivera, A., Kaku, H. N., **Jiang, K.**, Lee, D., Chen, H., Vega, J. M., Chin, T. V., Jin, K., Nguyen, K. T., Zou, S. S., Moin, Z., Nguyen, S., & Xue, M. (2024). GABAergic/Glycinergic and Glutamatergic Neurons Mediate Distinct Neurodevelopmental Phenotypes of STXBP1 Encephalopathy. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(14), e1806232024. <https://doi.org/10.1523/JNEUROSCI.1806-23.2024>

Venkata Jonnakuti

Jonnakuti, V. S., Jonnakuti, S., & Yalamanchili, H. K. (2025). Protocol for unlocking alternative polyadenylation insights from bulk RNA-seq data with PolyAMiner-Bulk. *STAR protocols*, 6(1), 103664. Advance online publication. <https://doi.org/10.1016/j.xpro.2025.103664>

Jonnakuti, V. S., & Frankfort, B. J. (2024). Seeing beyond reality: considering the impact of mainstream virtual reality adoption on ocular health and the evolving role of ophthalmologists. *Eye (London, England)*, 38(8), 1401–1402. <https://doi.org/10.1038/s41433-023-02892-3>

Katherine Kabotyanski

Najera, R. A., **Kabotyanski, K. E.**, McLaughlin, N. C., Gregory, S. T., Anand, A., Shofty, B., Provenza, N. R., Storch, E. A., Goodman, W. K., & Sheth, S. A. (2025). Cost-effectiveness analysis of deep brain stimulation versus treatment as usual for treatment-resistant obsessive-compulsive disorder. *Journal of neurosurgery*, 1–10. Advance online publication. <https://doi.org/10.3171/2024.7.JNS232642>

Reddy, S., **Kabotyanski, K. E.**, Hirani, S., Liu, T., Naqvi, Z., Giridharan, N., Hasen, M., Provenza, N. R., Banks, G. P., Mathew, S. J., Goodman, W. K., & Sheth, S. A. (2024). Efficacy of Deep Brain Stimulation for Treatment-Resistant Depression: Systematic Review and Meta-Analysis. *Biological psychiatry. Cognitive neuroscience and neuroimaging*, 9(12), 1239–1248. <https://doi.org/10.1016/j.bpsc.2024.08.013>

Kabotyanski, K. E., Yi, H. G., Hingorani, R., Robinson, B. S., Cowley, H. P., Fifer, M. S., Wester, B. A., Lamichhane, B., Sabharwal, A., Allawala, A. B., Rajesh, S. V., Diab, N., Mathura, R. K., Pirtle, V., Adkinson, J., Watrous, A. J., Bartoli, E., Xiao, J., Banks, G. P., Mathew, S. J., ... Sheth, S. A. (2024). Towards objective, temporally resolved neurobehavioral predictors of emotional state. *Brain stimulation*, 17(6), 1208–1212. <https://doi.org/10.1016/j.brs.2024.10.007>

Allam, A. K., Giridharan, N., Hasen, M., Banks, G. P., Reyes, G., Dang, H., **Kabotyanski, K. E.**, Hertz, A. G., Heilbronner, S. R., Provenza, N., Storch, E. A., Goodman, W. K., & Sheth, S. A. (2024). Effective deep brain stimulation for obsessive-compulsive disorder after failed anterior capsulotomy: illustrative cases. *Journal of neurosurgery. Case lessons*, 8(18), CASE24289. <https://doi.org/10.3171/CASE24289>

Publications 2024-2025

Provenza, N. R., Reddy, S., Allam, A. K., Rajesh, S. V., Diab, N., Reyes, G., Caston, R. M., Katlowitz, K. A., Gandhi, A. D., Bechtold, R. A., Dang, H. Q., Najera, R. A., Giridharan, N., **Kabotyanski, K. E.**, Momin, F., Hasen, M., Banks, G. P., Mickey, B. J., Kious, B. M., Shofty, B., ... Sheth, S. A. (2024). Disruption of neural periodicity predicts clinical response after deep brain stimulation for obsessive-compulsive disorder. *Nature medicine*, 30(10), 3004–3014. <https://doi.org/10.1038/s41591-024-03125-0>

Kabotyanski, K. E., Najera, R. A., Banks, G. P., Sharma, H., Provenza, N. R., Hayden, B. Y., Mathew, S. J., & Sheth, S. A. (2024). Cost-effectiveness and threshold analysis of deep brain stimulation vs. treatment-as-usual for treatment-resistant depression. *Translational psychiatry*, 14(1), 243. <https://doi.org/10.1038/s41398-024-02951-7>

Chiraag Kapadia

Kapadia, C. D., Rosas, G., Thakkar, S. G., Wu, M., Torrano, V., Wang, T., Grilley, B. J., Heslop, H. E., Ramos, C. A., Goodell, M. A., & Lulla, P. D. (2024). Incipient clonal hematopoiesis is accelerated following CD30.CAR-T therapy. *Cytotherapy*, 26(3), 261–265. <https://doi.org/10.1016/j.jcyt.2023.11.013>

Kapadia, C. D., & Goodell, M. A. (2024). Tissue mosaicism following stem cell aging: blood as an exemplar. *Nature aging*, 4(3), 295–308. <https://doi.org/10.1038/s43587-024-00589-0>

Kapadia, C. D., Williams, N., Dawson, K. J., Watson, C., Yousefzadeh, M. J., Le, D., Nyamondo, K., Kodavali, S., Cagan, A., Waldvogel, S., Zhang, X., De La Fuente, J., Leongamornlert, D., Mitchell, E., Florez, M. A., Sosnowski, K., Aguilar, R., Martell, A., Guzman, A., Harrison, D., Niedernhofer, L. J., King, K. Y., Campbell, P. J., Blundell, J., Goodell, M. A., Nangalia, J. (2025). Clonal dynamics and somatic evolution of haematopoiesis in mouse. *Nature*, 10.1038/s41586-025-08625-8. Advance online publication. <https://doi.org/10.1038/s41586-025-08625-8>

Joshua Keefe

Keefe, J. A., Wang, J., Song, J., Ni, L., & Wehrens, X. (2025). Immune cells and arrhythmias. *Cardiovascular research*, cvaf017. Advance online publication. <https://doi.org/10.1093/cvr/cvaf017>

Keefe, J. A., Zhao, S., & Wehrens, X. H. T. (2024). A mechanistic LNK between inflammation and atrial fibrillation?. *Cardiovascular research*, 120(8), 814–816. <https://doi.org/10.1093/cvr/cvae083>

Keefe, J. A., Garber, R., McCauley, M. D., & Wehrens, X. H. T. (2024). Tachycardia and Atrial Fibrillation-Related Cardiomyopathies: Potential Mechanisms and Current Therapies. *JACC. Heart failure*, 12(4), 605–615. <https://doi.org/10.1016/j.jchf.2023.11.016>

Christina Magyar

Lupo, P. J., & **Magyar, C. L.** (2024). The evidence is mounting: Insurance coverage disruptions lead to worse outcomes among children diagnosed with cancer. *Pediatric blood & cancer*, 71(5), e30924. <https://doi.org/10.1002/pbc.30924>

Yajur Maker

Brenes, D., Salcedo, M. P., Coole, J. B., **Maker, Y.**, Kortum, A., Schwarz, R. A., Carns, J., Vohra, I. S., Possati-Resende, J. C., Antoniazzi, M., de Oliveira Fonseca, B., Souza, K. C. B., Santana, I. V. V., Barbin, F. F., Kreitchmann, R., Ramanujam, N., Schmeler, K. M., & Richards-Kortum, R. (2024). Multiscale Optical Imaging Fusion for Cervical Precancer Diagnosis: Integrating Widefield Colposcopy and High-Resolution Endomicroscopy. *IEEE transactions on bio-medical engineering*, 71(9), 2547–2556. <https://doi.org/10.1109/TBME.2024.3379898>

Malcolm McDonald

McDonald, M. F., Gopakumar, S., Juratli, T. A., Eyüpoglu, I. Y., Rao, G., Mandel, J. J., & Jalali, A. (2025). Discontiguous recurrences of IDH-wildtype glioblastoma share a common origin with the initial tumor and are frequently hypermutated. *Acta neuropathologica communications*, 13(1), 9. <https://doi.org/10.1186/s40478-024-01900-1>

McDonald, M. F., Curry, R. N., O'Reilly, I., Lozzi, B., Cervantes, A., Lee, Z. F., Rosenbaum, A., He, P., Mohila, C., Harmanci, A. O., Serin Harmanci, A., Deneen, B., & Rao, G. (2024). Tumor Expression of CD83 Reduces Glioma Progression and Is Associated with Reduced Immunosuppression. *Cancer research communications*, 4(12), 3209–3223. <https://doi.org/10.1158/2767-9764.CRC-24-0281>

Chen, H. C., He, P., **McDonald, M. F.**, Williamson, M. R., Varadharajan, S., Lozzi, B., Woo, J., Choi, D. J., Sardar, D., Huang-Hobbs, E., Sun, H., Ippagunta, S. M., Jain, A., Rao, G., Merchant, T. E., Ellison, D. W., Noebels, J. L., Bertrand, K. C., Mack, S. C., & Deneen, B. (2024). Histone serotonylation regulates ependymoma tumorigenesis. *Nature*, 632(8026), 903–910. <https://doi.org/10.1038/s41586-024-07751-z>

Publications 2024-2025

- Curry, R. N., Ma, Q., **McDonald, M. F.**, Ko, Y., Srivastava, S., Chin, P. S., He, P., Lozzi, B., Athukuri, P., Jing, J., Wang, S., Harmanci, A. O., Arenkiel, B., Jiang, X., Deneen, B., Rao, G., & Serin Harmanci, A. (2024). Integrated electrophysiological and genomic profiles of single cells reveal spiking tumor cells in human glioma. *Cancer cell*, 42(10), 1713–1728.e6. <https://doi.org/10.1016/j.ccell.2024.08.009>
- Wang, S., Curry, R. N., **McDonald M.F.**, Koh, H.Y., Erickson, A. W., Kleinman, C., Taylor, M. D., Rao, G., Deneen, B., Harmanci, A.O., & Harmanci A.S. (2025). Inferred Developmental Origins of Brain Tumors from Single Cell RNA-Sequencing Data, *Neuro-Oncology Advances*, vdaf016, <https://doi.org/10.1093/noajnl/vdaf016>
- He, Z. M. S., Reyes, G., Liu, T., **McDonald, M. F.**, Kamepalli, S., Goss, J. A., Galvan, N. T. N., & Rana, A. (2024). The impact of recipient hypernatremia on pediatric liver transplantation outcomes. *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*, 10.1097/LVT.0000000000000528. Advance online publication. <https://doi.org/10.1097/LVT.0000000000000528>
- Malik, T. H., Keeney, E., Jang, A., Hafeez, M. S., **McDonald, M. F.**, Goff, C., Anand, A., Allam, A., Mitrani, R., Cholankeril, G., O'Mahony, C., Cotton, R., Galvan, T. N., Goss, J. A., & Rana, A. A. (2024). Is the Transplantation of Elderly and DCD Donors in Low MELD Recipients Justified: An Intent-to-treat Analysis. *Transplantation*, 10.1097/TP.00000000000005235. Advance online publication. <https://doi.org/10.1097/TP.00000000000005235>

Vicki Mercado-Evans

- Mercado-Evans, V.**, Branthoover, H., Chew, C., Serchejian, C., Saltzman, A. B., Mejia, M. E., Zulk, J. J., Cornax, I., Nizet, V., & Patras, K. A. (2025). Tamm-Horsfall protein augments neutrophil NETosis during urinary tract infection. *JCI insight*, 10(1), e180024. <https://doi.org/10.1172/jci.insight.180024>
- Mercado-Evans, V.**, Zulk, J. J., Hameed, Z. A., & Patras, K. A. (2024). Gestational diabetes as a risk factor for GBS maternal rectovaginal colonization: a systematic review and meta-analysis. *BMC pregnancy and childbirth*, 24(1), 488. <https://doi.org/10.1186/s12884-024-06694-7>

Oliver Moore

- Desai, S., **Moore, O. M.**, & Wehrens, X. H. T. (2025). Genetics, manifestations, and management of catecholaminergic polymorphic ventricular tachycardia. *Current opinion in cardiology*, 10.1097/HCO.0000000000001202. Advance online publication. <https://doi.org/10.1097/HCO.0000000000001202>
- Moore, O. M.**, Sibrian-Vazquez, M., Navarro-Garcia, J. A., Aguilar-Sanchez, Y., Turkieltaub-Paredes, M. R., Lahiri, S. K., Ni, L., Word, T. A., Miyake, C. Y., Strongin, R. M., & Wehrens, X. H. T. (2024). Structure-activity optimization of ryanodine receptor modulators for the treatment of catecholaminergic polymorphic ventricular tachycardia. *Heart rhythm*, S1547-5271(24)03393-9. Advance online publication. <https://doi.org/10.1016/j.hrthm.2024.09.062>
- Lahiri, S. K., Lu, J., Aguilar-Sanchez, Y., Li, H., Moreira, L. M., Hulsurkar, M. M., Mendoza, A., Turkieltaub Paredes, M. R., Navarro-Garcia, J. A., Munivez, E., Horist, B., **Moore, O. M.**, Weninger, G., Brandenburg, S., Lenz, C., Lehnart, S. E., Sayeed, R., Krasopoulos, G., Srivastava, V., Zhang, L., ... Wehrens, X. H. T. (2024). Targeting calpain-2-mediated junctophilin-2 cleavage delays heart failure progression following myocardial infarction. *Journal of molecular and cellular cardiology*, 194, 85–95. <https://doi.org/10.1016/j.yjmcc.2024.06.011>

Suruchi Salgar

- Sakthivel, D., Brown-Suedel, A. N., Lopez, K. E., **Salgar, S.**, Coutinho, L. E., Keane, F., Huang, S., Sherry, K. M., Charendoff, C. I., Dunne, K. P., Robichaux, D. J., Vargas-Hernández, A., Le, B., Shin, C. S., Carisey, A. F., Poreba, M., Flanagan, J. M., & Bouchier-Hayes, L. (2024). Caspase-2 is essential for proliferation and self-renewal of nucleophosmin-mutated acute myeloid leukemia. *Science advances*, 10(31), ead3145. <https://doi.org/10.1126/sciadv.ad3145>

Caroline Sands

- Kodali, S., **Sands, C. M.**, Guo, L., Huang, Y., & Di Stefano, B. (2025). Biomolecular condensates in immune cell fate. *Nature reviews. Immunology*, 10.1038/s41577-025-01130-z. Advance online publication. <https://doi.org/10.1038/s41577-025-01130-z>
- Kodali, S., Proietti, L., Valcarcel, G., López-Rubio, A. V., Pessina, P., Eder, T., Shi, J., Jen, A., Lupión-Garcia, N., Starnier, A. C., Bartels, M. D., Cui, Y., **Sands, C. M.**, Planas-Riverola, A., Martínez, A., Velasco-Hernandez, T., Tomás-Daza, L., Alber, B., Manhart, G., Mayer, I. M., ... Di Stefano, B. (2024). RNA sequestration in P-bodies sustains myeloid leukaemia. *Nature cell biology*, 26(10), 1745–1758. <https://doi.org/10.1038/s41556-024-01489-6>

Publications 2024-2025

Vikram Shaw

- Gao, Y., **Shaw, V. R.**, & Amos, C. I. (2025). Alternative polyadenylation shapes the molecular and clinical features of lung adenocarcinoma. *Human molecular genetics*, 34(1), 1–10. <https://doi.org/10.1093/hmg/ddae150>
- Zhu, C., Han, Y., Byun, J., Xiao, X., Rothwell, S., Miller, F. W., Lundberg, I. E., Gregersen, P. K., Vencovsky, J., **Shaw, V. R.**, McHugh, N., Limaye, V., Selva-O'Callaghan, A., Hanna, M. G., Machado, P. M., Pachman, L. M., Reed, A. M., Rider, L. G., Molberg, Ø., Benveniste, O., ... Myositis Genetics Consortium (2024). Genetic Architecture of Idiopathic Inflammatory Myopathies From Meta-Analyses. *Arthritis & rheumatology (Hoboken, N.J.)*, 10.1002/art.43088. Advance online publication. <https://doi.org/10.1002/art.43088>
- Li, J. R., **Shaw, V. R.**, Parthasarathy, A., Li, Y., Amos, C. I., & Cheng, C. (2024). Prognostic stratification in DLBCL patients with aberrant MYC gene. *British journal of haematology*, 205(5), 1782–1793. <https://doi.org/10.1111/bjh.19699>
- Shaw, V. R.**, Damsky, W., Homer, R. J., & Cohen, J. M. (2024). Characterizing interstitial lung disease in patients with psoriasis: a cross-sectional analysis in the National Institutes of Health's All of Us Research Program. *Clinical and experimental dermatology*, 49(9), 1083–1084. <https://doi.org/10.1093/ced/llae132>
- Shaw, V. R.**, Byun, J., Pettit, R. W., Hou, J. K., Walsh, K. M., Han, Y., & Amos, C. I. (2024). An Atlas Characterizing the Shared Genetic Architecture of Inflammatory Bowel Disease with Clinical and Behavioral Traits. *Inflammatory bowel diseases*, 30(6), 884–893. <https://doi.org/10.1093/ibd/izad269>
- Shaw, V. R.**, Hudock, A., Zhang, B., Amos, C., & Cheng, C. (2024). Sex-Based Differences in Melanoma Survival Improvement from 2004 to 2018. *Cancers*, 16(7), 1308. <https://doi.org/10.3390/cancers16071308>
- Shaw, V. R.**, Tobias, L. A., & Cohen, J. M. (2024). Obstructive sleep apnea among patients with psoriasis: A case-control study in the All of Us Research Program. *Journal of the American Academy of Dermatology*, 90(3), 666–668. <https://doi.org/10.1016/j.jaad.2023.11.031>

Kavya Singampalli

- Jui, E., Kingsley, G., Phan, H. K. T., **Singampalli, K. L.**, Birla, R. K., Connell, J. P., Keswani, S. G., & Grande-Allen, K. J. (2024). Shear Stress Induces a Time-Dependent Inflammatory Response in Human Monocyte-Derived Macrophages. *Annals of biomedical engineering*, 52(11), 2932–2947. <https://doi.org/10.1007/s10439-024-03546-5>
- Singampalli, K. L.**, Neal-Harris, C., Yee, C., Lin, J. S., & Lillehoj, P. B. (2024). Highly Reusable Electrochemical Immunosensor for Ultrasensitive Protein Detection. *Advanced sensor research*, 3(9), 2400004. <https://doi.org/10.1002/adsr.202400004>

Snigdha Srivastava

- Curry, R. N., Ma, Q., McDonald, M. F., Ko, Y., **Srivastava, S.**, Chin, P. S., He, P., Lozzi, B., Athukuri, P., Jing, J., Wang, S., Harmanci, A. O., Arenkiel, B., Jiang, X., Deneen, B., Rao, G., & Serin Harmanci, A. (2024). Integrated electrophysiological and genomic profiles of single cells reveal spiking tumor cells in human glioma. *Cancer cell*, 42(10), 1713–1728.e6. <https://doi.org/10.1016/j.ccell.2024.08.009>
- Pavešković, M., De-Paula, R. B., Ojelade, S. A., Tantry, E. K., Kochukov, M. Y., Bao, S., Veeraragavan, S., Garza, A. R., **Srivastava, S.**, Song, S. Y., Fujita, M., Duong, D. M., Bennett, D. A., De Jager, P. L., Seyfried, N. T., Dickinson, M. E., Heaney, J. D., Arenkiel, B. R., & Shulman, J. M. (2024). Alzheimer's disease risk gene CD2AP is a dose-sensitive determinant of synaptic structure and plasticity. *Human molecular genetics*, 33(20), 1815–1832. <https://doi.org/10.1093/hmg/ddae115>
- Islam, S., Gleber-Netto, F. O., Mulcahy, C. F., Glaun, M. D. E., **Srivastava, S.**, Hunt, P. J., Williams, M. D., Barbon, C. E., Spiotto, M., Zhao, W., Adebayo, A., Akhter, S., Xie, T., Debnath, K. C., Sathishkumar, H. N., Myers, B., Lothumalla, S., Yaman, I., Burks, J. K., Gomez, J., ... Amit, M. (2024). Neural landscape is associated with functional outcomes in irradiated patients with oropharyngeal squamous cell carcinoma. *Science translational medicine*, 16(758), eabq5585. <https://doi.org/10.1126/scitranslmed.abq5585>

Nina Tang

- Sundaraman, S. A., Hanze Villavicencio, K. L., Roper, B., Wang, Z., Davis, A. K. F., Mayhew, J. A., Wang, M. L., **Tang, N. L.**, Soma, V. L., Shust, G. F., Feeney, M. E., Trehan, I., Weatherhead, J. E., John, C. C., Gerber, J. S., & Odom John, A. R. (2024). Post-Artesunate Delayed Hemolysis in Pediatric Malaria Patients in the United States. *Journal of the Pediatric Infectious Diseases Society*, 13(10), 533–536. <https://doi.org/10.1093/jpids/piae080>
- Tang, N. L.**, Weatherhead, J. E. (2025). Recent Advances in Parasitomics: Omics in the Study of Ascariasis. In: Ramírez González, J. D. (eds) Recent Advances in Parasitomics. Springer, Cham. https://doi.org/10.1007/978-3-031-70591-5_14

Publications 2024-2025

Apoorva Thatavarty

- Florez, M. A., **Thatavarty, A.**, Le, D. T., Hill, H. A., Jeong, Y., Ho, B. M., Kus, P., Wathan, T. K., Kain, B. N., Huang, S., Park, D., & King, K. Y. (2024). BST2 facilitates activation of hematopoietic stem cells through ERK signaling. *Experimental hematology*, 140, 104653. <https://doi.org/10.1016/j.exphem.2024.104653>
- Cao, R., **Thatavarty, A.**, & King, K. Y. (2024). Forged in the fire: Lasting impacts of inflammation on hematopoietic progenitors. *Experimental hematology*, 134, 104215. <https://doi.org/10.1016/j.exphem.2024.104215>

Sarah Waldvogel

- Waldvogel, S. M.**, Posey, J. E., & Goodell, M. A. (2024). Human embryonic genetic mosaicism and its effects on development and disease. *Nature reviews. Genetics*, 25(10), 698–714. <https://doi.org/10.1038/s41576-024-00715-z>
- Zhang, L., Hsu, J. I., Braekeleer, E. D., Chen, C. W., Patel, T. D., Martell, A. G., Guzman, A. G., Wohlan, K., **Waldvogel, S. M.**, Uryu, H., Tovy, A., Callen, E., Murdaugh, R. L., Richard, R., Jansen, S., Vissers, L., de Vries, B. B. A., Nussenzweig, A., Huang, S., Coarfa, C., Anastas, J., Takahashi, K., Vassiliou, G., Goodell, M. A. (2024). SOD1 is a synthetic-lethal target in PPM1D-mutant leukemia cells. *eLife*, 12, RP91611. <https://doi.org/10.7554/eLife.91611>
- Waldvogel, S.M.**, Camacho, V., Fan, D., Guzman, A., Garcia-Martell, A., Khabusheva, E., Pridgen, J.R., De La Fuente, J., Rau, R.E., Laidman, A., Barrachina, M.N., Carminita, E., Courson, J.A., Williamson, M., Hsu, J.I., Chen, C.W., Reyes, J., Pradhan, S., Rumbaut, R., Burns, A., Deneen, B., Su, J., Machlus, K.R., Goodell, M.A. (2025). DNMT3A regulates murine megakaryocyte-biased hematopoietic stem cell fate decisions. *Blood Advances*. Epub ahead of print. doi: 10.1182/bloodadvances.2024015061.
- Kapadia, C.D., Williams, N., Dawson, K.J., Watson, C., Yousefzadeh, M.J., Le, D., Nyamondo, K., Kodavali, S., Cagan, A., **Waldvogel, S.**, Zhang, X., De La Fuente, J., Leongamornlert, D., Mitchell, E., Florez, M.A., Sosnowski, K., Aguilar, R., Martell, A., Guzman, A., Harrison, D., Niedernhofer, L.J., King, K.Y., Campbell, P.J., Blundell, J., Goodell, M.A., Nangalia, J. (2025). Clonal dynamics and somatic evolution of haematopoiesis in mouse. *Nature*. Epub ahead of print. doi: 10.1038/s41586-025-08625-8.

Jessica Wang

- Wang, J.K.**, Wehrens, X.H.T., Grande-Allen, K.J. (2025). Post-TEVAR Type A Aortic Dissection: Insights and Future Directions. *Cardiovascular Drugs and Therapy*. Accepted.

Alice Wen

- Liu, J., Perren, J. O., Rogers, C. M., Nimer, S., **Wen, A. X.**, Halliday, J. A., Fitzgerald, D. M., Mei, Q., Nehring, R. B., Crum, M., Kozmin, S. G., Xia, J., Cooke, M. B., Zhai, Y., Bates, D., Li, L., Hastings, P. J., Artsimovitch, I., Herman, C., Sung, P. M., Miller K. M., Rosenberg, S. M. (2025). Endogenous DNA damage at sites of terminated transcripts. *Nature*, 10.1038/s41586-024-08578-4. Advance online publication. <https://doi.org/10.1038/s41586-024-08578-4>
- Bradley, C. C., Wang, C., Gordon, A. J. E., **Wen, A. X.**, Luna, P. N., Cooke, M. B., Kohn, B. F., Kennedy, S. R., Avadhanula, V., Piedra, P. A., Lichtarge, O., Shaw, C. A., Ronca, S. E., & Herman, C. (2024). Targeted accurate RNA consensus sequencing (tARC-seq) reveals mechanisms of replication error affecting SARS-CoV-2 divergence. *Nature microbiology*, 9(5), 1382–1392. <https://doi.org/10.1038/s41564-024-01655-4>
- Wen, A. X.**, & Herman, C. (2024). Horizontal gene transfer and beyond: the delivery of biological matter by bacterial membrane vesicles to host and bacterial cells. *Current opinion in microbiology*, 81, 102525. <https://doi.org/10.1016/j.mib.2024.102525>

Timothy Wu

- Deans-Fielder, K., **Wu, T.**, Nguyen, T., To, S., Huang, Y. Z., Bark, S. J., Mills, J. C., & Shroyer, N. F. (2024). Mechanisms driving fasting-induced protection from genotoxic injury in the small intestine. *American journal of physiology-Gastrointestinal and liver physiology*, 326(5), G504–G524. <https://doi.org/10.1152/ajpgi.00126.2023>

Linda Zhang

- Zhang, L.**, Hsu, J. I., Braekeleer, E. D., Chen, C. W., Patel, T. D., Martell, A. G., Guzman, A. G., Wohlan, K., Waldvogel, S. M., Uryu, H., Tovy, A., Callen, E., Murdaugh, R. L., Richard, R., Jansen, S., Vissers, L., de Vries, B. B. A., Nussenzweig, A., Huang, S., Coarfa, C., Anastas, J., Takahashi, K., Vassiliou, G., Goodell, M. A. (2024). SOD1 is a synthetic-lethal target in PPM1D-mutant leukemia cells. *eLife*, 12, RP91611. <https://doi.org/10.7554/eLife.91611>