

# Publications 2023-2024

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## **Benjamin Belfort**

Lyons-Warren, A. M., Tantry, E. K., Moss, E. H., Kochukov, M. Y., **Belfort, B. D. W.**, Ortiz-Guzman, J., Freyberg, Z., & Arenkiel, B. R. (2023). Co-transmitting interneurons in the mouse olfactory bulb regulate olfactory detection and discrimination. *Cell Reports*, 42(12), 113471. <https://doi.org/10.1016/j.celrep.2023.113471>

## **Gina Bortoletto**

**Bortoletto, A. S.**, & Parchem, R. J. (2023). A pancreatic player in dementia: Pathological role for islet amyloid polypeptide accumulation in the brain. *Neural Regeneration Research*, 18(10), 2141–2146. <https://doi.org/10.4103/1673-5374.369095>

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## **Phillip Burkhardt**

Hill, L. C., Rouse, R. H., Wu, M., 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. D., Arredondo, M., Grilley, B., Heslop, H. E., Brenner, M. K., & Mamonkin, M. (2023). Anti-tumor efficacy and safety of unedited autologous CD5.CAR T cells in relapsed/refractory mature T-cell lymphomas. *Blood*. Advance online publication. <https://doi.org/10.1182/blood.2023022204>

## **Hilda Chan**

**Chan, H. L.**, & Zhang, X. H. (2024). Nutrient sensing in macrophages linked to reorganized tumor vasculature. *Cancer Research*. Advance online publication. <https://doi.org/10.1158/0008-5472.CAN-24-0201>

Hao, X., Shen, Y., Chen, N., Zhang, W., Valverde, E., Wu, L., **Chan, H. L.**, Xu, Z., Yu, L., Gao, Y., Bado, I., Michie, L. N., Rivas, C. H., Dominguez, L. B., Aguirre, S., Pingel, B. C., Wu, Y. H., Liu, F., Ding, Y., Edwards, D. G., Liu, J., Alexander, A., Ueno, N. T., Hsueh, P. R., Tu, C. Y., Liu, L. C., Chen, S. H., Hung, M. C., Lim, B., & Zhang, X. H. (2023). Osteoprogenitor-GMP crosstalk underpins solid tumor-induced systemic immunosuppression and persists after tumor removal. *Cell Stem Cell*, 30(5), 648–664.e8. <https://doi.org/10.1016/j.stem.2023.04.005>

## **Moez Dawood**

Calame, D. G., Guo, T., Wang, C., Garrett, L., Jolly, A., **Dawood, M.**, Kurolap, A., Henig, N. Z., Fatih, J. M., Herman, I., Du, H., Mitani, T., Becker, L., Rathkolb, B., Gerlini, R., Seisenberger, C., Marschall, S., Hunter, J. V., Gerard, A., Heidlebaugh, A., Challman, T., Spillmann, R. C., Jhangiani, S. N., Coban-Akdemir, Z., Lalani, S., Liu, L., Revah-Politi, A., Iglesias, A., Guzman, E., Baugh, E., Boddaert, N., Rondeau, S., Ormieres, C., Barcia, G., Tan, Q. K. G., Thiffault, I., Pastinen, T., Sheikh, K., Biliciler, S., Mei, D., Melani, F., Shashi, V., Yaron, Y., Steele, M., Wakeling, E., Østergaard, E., Nazaryan-Petersen, L., Undiagnosed Diseases Network, Millan, F., Santiago-Sim, T., Thevenon, J., Bruel, A. L., Thauvin-Robinet, C., Popp, D., Platzner, K., Gawlinski, P., Wiszniewski, W., Marafi, D., Pehlivan, D., Posey, J. E., Gibbs, R. A., Gailus-Durner, V., Guerrini, R., Fuchs, H., Hrabě de Angelis, M., Hölter, S. M., Cheung, H. H., Gu, S., & Lupski, J. R. (2023). Monoallelic variation in DHX9, the gene encoding the DEXH-box helicase DHX9, underlies neurodevelopment disorders and Charcot-Marie-Tooth disease. *American Journal of Human Genetics*, 110(8), 1394–1413. <https://doi.org/10.1016/j.ajhg.2023.06.013>

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## **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*. Advance online publication. <https://doi.org/10.1152/ajpgi.00126.2023>

## **Jennifer Deger**

Wu, T., **Deger, J. M.**, Ye, H., Guo, C., Dhindsa, J., Pekarek, B. T., Al-Ouran, R., Liu, Z., Al-Ramahi, I., Botas, J., & Shulman, J. M. (2023). Tau polarizes an aging transcriptional signature to excitatory neurons and glia. *eLife*, *12*, e85251. <https://doi.org/10.7554/eLife.85251>

## **Cole Deisseroth**

**Deisseroth, C. A.**, Lee, W. S., Kim, J., Jeong, H. H., Dhindsa, R. S., Wang, J., Zoghbi, H. Y., & Liu, Z. (2023). Literature-based predictions of Mendelian disease therapies. *American Journal of Human Genetics*, *110*(10), 1661–1672. <https://doi.org/10.1016/j.ajhg.2023.08.018>

## **Justin Dhindsa**

Wu, T., Deger, J. M., Ye, H., Guo, C., **Dhindsa, J.**, Pekarek, B. T., Al-Ouran, R., Liu, Z., Al-Ramahi, I., Botas, J., & Shulman, J. M. (2023). Tau polarizes an aging transcriptional signature to excitatory neurons and glia. *eLife*, *12*, e85251. <https://doi.org/10.7554/eLife.85251>

## **Mark Durham**

Wu, S. R., Butts, J. C., Caudill, M. S., Revelli, J. P., Dhindsa, R. S., **Durham, M. A.**, & Zoghbi, H. Y. (2023). *Atoh1* drives the heterogeneity of the pontine nuclei neurons and promotes their differentiation. *Science Advances*, *9*(26), eadg1671. <https://doi.org/10.1126/sciadv.adg1671>

Coffin, S. L., **Durham, M. A.**, Nitschke, L., Xhako, E., Brown, A. M., Revelli, J. P., Villavicencio Gonzalez, E., Lin, T., Handler, H. P., Dai, Y., Trostle, A. J., Wan, Y. W., Liu, Z., Sillitoe, R. V., Orr, H. T., & Zoghbi, H. Y. (2023). Disruption of the ATXN1-CIC complex reveals the role of additional nuclear ATXN1 interactors in spinocerebellar ataxia type 1. *Neuron*, *111*(4), 481–492.e8. <https://doi.org/10.1016/j.neuron.2022.11.016>

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## **Marcus Florez**

**Florez, M. A.**, De, B., Chapman, B. V., Prayongrat, A., Thomas, J. G., Beckham, T. H., Wang, C., Yeboa, D. N., Bishop, A. J., Briere, T., Amini, B., Li, J., Tatsui, C. E., Rhines, L. D., & Ghia, A. J. (2023). Safety and efficacy of salvage conventional re-irradiation following stereotactic radiosurgery for spine metastases. *Radiation Oncology Journal*, *41*(1), 12–22. <https://doi.org/10.3857/roj.2022.00353>

Kowalchuk, R. O., Mullikin, T. C., **Florez, M.**, De, B. S., Spears, G. M., Rose, P. S., Siontis, B. L., Kim, D. K., Costello, B. A., Morris, J. M., Marion, J. T., Johnson-Tesch, B. A., Gao, R. W., Shiraishi, S., Lucido, J. J., Trifiletti, D. M., Olivier, K. R., Owen, D., Stish, B. J., Waddle, M. R., Laack, N. N., Park, S. S., Brown, P. D., Ghia, A. J. & Merrell, K. W. (2023). Development and validation of a recursive partitioning analysis-based pretreatment decision-making tool identifying ideal candidates for spine stereotactic body radiation therapy. *Cancer*, *129*(6), 956–965. <https://doi.org/10.1002/cncr.34626>

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Kemnade, J. O., **Florez, M.**, Sabichi, A., Zhang, J., Jhaveri, P., Chen, G., Chen, A., Miller-Chism, C., Shaun, B., Hilsenbeck, S. G., Hernandez, D. J., Skinner, H. D., & Sandulache, V. C. (2023). Phase I / II trial of metformin as a chemoradiosensitizer in a head and neck cancer patient population. *Oral Oncology*, *145*, 106536. <https://doi.org/10.1016/j.oraloncology.2023.106536>

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## **Tom Gebert**

- Gebert, J. T.**, Scribano, F. J., Engevik, K. A., & Hyser, J. M. (2024). Live calcium imaging of virus-infected human intestinal organoid monolayers using genetically encoded calcium indicators. *Journal of Visualized Experiments*, 203, 10.3791/66132. <https://doi.org/10.3791/66132>
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- Engevik, K. A., Scribano, F. J., **Gebert, J. T.**, Perry, J. L., Crawford, S. E., & Hyser, J. M. (2024). Distribution of P2Y and P2X purinergic receptor expression within the intestine. *American Journal of Physiology-Gastrointestinal and Liver Physiology*, 326(2), G107–G119. <https://doi.org/10.1152/ajpgi.00108.2023>
- Scribano, F. J., Engevik, K. A., **Gebert, J. T.**, & Hyser, J. M. (2024). Live-cell fluorescence imaging for virus-host interactions. *Methods in Molecular Biology*, 2751, 33–46. [https://doi.org/10.1007/978-1-0716-3617-6\\_3](https://doi.org/10.1007/978-1-0716-3617-6_3)
- Peoples, N., **Gebert, J. T.**, & Clark, D. (2023). Turning good intentions into good outcomes: Ethical dilemmas at a student-run clinic and a rubric for reflective action. *Medical Humanities*, 50(1), 179–184. <https://doi.org/10.1136/medhum-2023-012695>

## **Kevin Ho**

- Moore, O. M., **Ho, K. S.**, Copeland, J. S., Parthasarathy, V., & Wehrens, X. H. T. (2023). Genome editing and cardiac arrhythmias. *Cells*, 12(10), 1363. <https://doi.org/10.3390/cells12101363>

## **Katie Hogan**

- Hogan, K. J.**, Öztatlı, H., Perez, M. R., Si, S., Umurhan, R., Jui, E., Wang, Z., Jiang, E. Y., Han, S. R., Diba, M., Grande-Allen, K. J., Garipcan, B., & Mikos, A. G. (2023). Development of photoreactive demineralized bone matrix 3D printing colloidal inks for bone tissue engineering. *Regenerative Biomaterials*, 10, rbad090. <https://doi.org/10.1093/rb/rbad090>
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- Hogan, K. J.**, Sylvester, C. B., Wall, M. J., Jr., Rosengart, T. K., Coselli, J. S., Moon, M. R., Chatterjee, S., & Ghanta R. K. (2023). Outcomes after bioprosthetic versus mechanical mitral valve replacement for infective endocarditis in the United States. *JTCVS Open*, 17, 74–83. <https://doi.org/10.1016/j.xjon.2023.11.019>
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## **Patrick Hunt**

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- Hunt, P. J.**, Keys, P. H., Dalal, S., Boardman, D., Davila-Siliezar, P., Laylani, N., Al-Zubidi, N., & Lee, A. G. (2023). GQ1b seropositive Guillain-Barré/Miller Fisher overlap syndrome after pembrolizumab treatment. *Journal of Neuro-Ophthalmology*. Advance online publication. <https://doi.org/10.1097/WNO.0000000000001976>
- Hunt, P. J.**, Mudie, L. I., & Yen, M. T. (2023). *Superior ophthalmic vein cannulation for treatment of cavernous sinus-dural fistulas*. EyeWiki.
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# Publications 2023-2024

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## **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. *Journal of Neuroscience*. Advance online publication. <https://doi.org/10.1523/JNEUROSCI.1806-23.2024>

## **Venkata Jonnakuti**

**Jonnakuti, V. S.**, Jonnakuti, S., & Yalamanchili, H. K. (2023). APA-aware bulk RNA-seq analysis: A practical guide to unlocking alternative polyadenylation insights with PolyAMiner-Bulk. *STAR Protocols*. Accepted.

**Jonnakuti, V. S.**, Wagner, E., Maletić-Savatić, M., Liu, Z., & Yalamanchili, H. K. (2023). PolyAMiner-Bulk: A deep learning based algorithm to decode alternative polyadenylation dynamics from bulk RNA-seq data. *Cell Reports Methods*. Accepted.

Alahmari, A. A., Chaubey, A. H., **Jonnakuti, V. S.**, Tisdale, A. A., Schwarz, C. D., Cornwell, A. C., Maraszek, K. E., Paterson, E. J., Kim, M., Venkat, S., Cortes Gomez, E., Wang, J., Gurova, K. V., Yalamanchili, H. K., & Feigin, M. E. (2024). CPSF3 inhibition blocks pancreatic cancer cell proliferation through disruption of core histone mRNA processing. *RNA*, 30(3), 281–297. <https://doi.org/10.1261/rna.079931.123>

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## **Katherine Kabotyanski**

Hunt, P. J., Amit, M., **Kabotyanski, K. E.**, Aashiq, M., Hanna, E. Y., Kupferman, M. E., Su, S. Y., Gidley, P. W., Nader, M. E., DeMonte, F., & Raza, S. M. (2023). Predictors of postoperative performance status after surgical management of infratemporal fossa malignancies. *Neurosurgical Review*, 46, 157. <https://doi.org/10.1007/s10143-023-02063-8>

## **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. (2023). 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>

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## **Joshua Keefe**

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## **Malcolm McDonald**

- McDonald, M. F.,** Hossain, A., Momin, E. N., Hasan, I., Singh, S., Adachi, S., Gumin, J., Ledbetter, D., Yang, J., Long, L., Daou, M., Gopakumar, S., Phillips, L. M., Parker Kerrigan, B., & Lang, F. F. (2024). Tumor-specific polycistronic miRNA delivered by engineered exosomes for the treatment of glioblastoma. *Neuro-Oncology*, 26(2), 236–250. <https://doi.org/10.1093/neuonc/noad199>
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