

2023

July 2022 - June 2023

1. Almanzar, D. E., Gordon, S. G., Bristow, C., Hamrick, A., von Diezmann, L., Liu, H., & Rog, O. (2023). Meiotic DNA exchanges in *C. elegans* are promoted by proximity to the synaptonemal complex. *Life Science Alliance*, 6(4), e202301906.
<https://doi.org/10.26508/lsa.202301906>
2. Anderl, W. J., Pearson, N., Converse, M. I., Yu, S. M., & Monson, K. L. (2023). Strain-induced collagen denaturation is rate dependent in failure of cerebral arteries. *Acta Biomaterialia*.
<https://doi.org/10.1016/j.actbio.2023.04.032>
3. Ellis, K. E., Smihula, H., Ganguly, I., Vigato, E., Bervoets, S., Auer, T. O., Benton, R., Litwin-Kumar, A., & Caron, S. J. C. (2023). *Evolution of connectivity architecture in the Drosophila mushroom body* [Preprint]. Neuroscience. <https://doi.org/10.1101/2023.02.10.528036>
4. Eshima, H., Shahtout, J. L., Siripoksup, P., Pearson, M. J., Mahmassani, Z. S., Ferrara, P. J., Lyons, A. W., Maschek, J. A., Peterlin, A. D., Verkerke, A. R. P., Johnson, J. M., Salcedo, A., Petrocelli, J. J., Miranda, E. R., Anderson, E. J., Boudina, S., Ran, Q., Cox, J. E., Drummond, M. J., & Funai, K. (2023). Lipid hydroperoxides promote sarcopenia through carbonyl stress. *eLife*, 12, e85289. <https://doi.org/10.7554/eLife.85289>
5. Espino-Sanchez, T. J., Wienkers, H., Marvin, R. G., Nalder, S.-A., García-Guerrero, A. E., VanNatta, P. E., Jami-Alahmadi, Y., Mixon Blackwell, A., Whitby, F. G., Wohlschlegel, J. A., Kieber-Emmons, M. T., Hill, C. P., & Sigala, P. A. (2023). Direct tests of cytochrome c and c1 functions in the electron transport chain of malaria parasites. *Proceedings of the National Academy of Sciences of the United States of America*, 120(19), e2301047120.
<https://doi.org/10.1073/pnas.2301047120>
6. Ferrara, P. J., Reidy, P. T., Petrocelli, J. J., Yee, E. M., Fix, D. K., Mahmassani, Z. S., Montgomery, J. A., McKenzie, A. I., de Hart, N. M. M. P., & Drummond, M. J. (2023). Global deletion of CCL2 has adverse impacts on recovery of skeletal muscle fiber size and function and is muscle-specific. *Journal of Applied Physiology*.
<https://doi.org/10.1152/jappphysiol.00444.2022>
7. Hagen-Lillevik, S., Johnson, J., & Lai, K. (2022). Early postnatal alterations in follicular stress response and survival in a mouse model of Classic Galactosemia. *Journal of Ovarian Research*, 15(1), 122. <https://doi.org/10.1186/s13048-022-01049-2>
8. Hagen-Lillevik, S., Johnson, J., Siddiqi, A., Persinger, J., Hale, G., & Lai, K. (2022). Harnessing the Power of Purple Sweet Potato Color and Myo-Inositol to Treat Classic Galactosemia. *International Journal of Molecular Sciences*, 23(15), 8654.

<https://doi.org/10.3390/ijms23158654>

9. He, Y., Anderson, B., Hu, Q., Hayes, R. B., Huff, K., Isaacson, J., Warner, K. S., Hauser, H., Greenberg, M., Chandra, V., Kauser, K., & Berceli, S. A. (2023). Photochemically Aided Arteriovenous Fistula Creation to Accelerate Fistula Maturation. *International Journal of Molecular Sciences*, 24(8), Article 8. <https://doi.org/10.3390/ijms24087571>
10. Hoffman, L. M., Jensen, C. C., & Beckerle, M. C. (2022). Phosphorylation of the small heat shock protein HspB1 regulates cytoskeletal recruitment and cell motility. *Molecular Biology of the Cell*, 33(11), ar100. <https://doi.org/10.1091/mbc.E22-02-0057>
11. Kidwell, C. U., Casalini, J. R., Pradeep, S., Scherer, S. D., Greiner, D., Bayik, D., Watson, D. C., Olson, G. S., Lathia, J. D., Johnson, J. S., Rutter, J., Welm, A. L., Zangle, T. A., & Roh-Johnson, M. (2023). Transferred mitochondria accumulate reactive oxygen species, promoting proliferation. *eLife*, 12, e85494. <https://doi.org/10.7554/eLife.85494>
12. Lajoie, D., Turkmen, A. M., Mackay, D. R., Jensen, C. C., Aksenova, V., Niwa, M., Dasso, M., & Ullman, K. S. (2022). A role for Nup153 in nuclear assembly reveals differential requirements for targeting of nuclear envelope constituents. *Molecular Biology of the Cell*, 33(13), ar117. <https://doi.org/10.1091/mbc.E22-05-0189>
13. Merrill, C. B., Titos, I., Pabon, M. A., Montgomery, A. B., Rodan, A. R., & Rothenfluh, A. (2023). *Iterative assay for transposase-accessible chromatin by sequencing to isolate functionally relevant neuronal subtypes* (p. 2023.04.14.536950). bioRxiv. <https://doi.org/10.1101/2023.04.14.536950>
14. Petrocelli, J. J., Hart, N. M. M. P. de, Lang, M. J., Yee, E. M., Ferrara, P. J., Fix, D. K., Chaix, A., Funai, K., & Drummond, M. J. (2023). Cellular senescence and disrupted proteostasis induced by myotube atrophy are prevented with low-dose metformin and leucine cocktail. *Aging*, 15. <https://doi.org/10.18632/aging.204600>
15. Preston, A. J., Rogers, A., Sharp, M., Mitchell, G., Toruno, C., Barney, B. B., Donovan, L. N., Bly, J., Kennington, R., Payne, E., Iovino, A., Furukawa, G., Robinson, R., Shamloo, B., Buccilli, M., Anders, R., Eckstein, S., Fedak, E. A., Wright, T., ... Abegglen, L. M. (2023). Elephant TP53-RETROGENE 9 induces transcription-independent apoptosis at the mitochondria. *Cell Death Discovery*, 9(1), Article 1. <https://doi.org/10.1038/s41420-023-01348-7>
16. Rice, M. C., Little, J. H., Forrister, D. L., Machado, J., Clark, N. L., & Gagnon, J. A. (2023). *Gadusol is a maternally provided sunscreen that protects fish embryos from DNA damage* [Preprint]. Developmental Biology. <https://doi.org/10.1101/2023.01.30.526370>
17. Rush, C. M., Blanchard, Z., Polaski, J. T., Osborne, K. S., Osby, K., Vahrenkamp, J. M., Yang, C.-H., Lum, D. H., Hagan, C. R., Leslie, K. K., Pufall, M. A., Thiel, K. W., & Gertz, J. (2022). Characterization of HCl-EC-23 a novel estrogen- and progesterone-responsive endometrial cancer cell line. *Scientific Reports*, 12(1), Article 1. <https://doi.org/10.1038/s41598-022-24211-8>
18. Sefton, E. M., Gallardo, M., Tobin, C. E., Collins, B. C., Colasanto, M. P., Merrell, A. J., & Kardon, G. (2022). Fibroblast-derived Hgf controls recruitment and expansion of muscle during morphogenesis of the mammalian diaphragm. *eLife*, 11, e74592.

<https://doi.org/10.7554/eLife.74592>

19. Simeone, C. A., Wilkerson, J. L., Poss, A. M., Banks, J. A., Varre, J. V., Guevara, J. L., Hernandez, E. J., Gorski, B., Atkinson, D. L., Turapov, T., Frodsham, S. G., Morales, J. C. F., O'Neil, K., Moore, B., Yandell, M., Summers, S. A., Krolewski, A. S., Holland, W. L., & Pezzolesi, M. G. (2022). A dominant negative ADIPOQ mutation in a diabetic family with renal disease, hypoadiponectinemia, and hyperceramidemia. *Npj Genomic Medicine*, 7(1), Article 1. <https://doi.org/10.1038/s41525-022-00314-z>
20. Smith, M. A., Blankman, E., Jensen, C. C., Hoffman, L. M., Ullman, K. S., & Beckerle, M. C. (2022). Nuclear pore complexes concentrate on Actin/LINC/Lamin nuclear lines in response to mechanical stress in a SUN1 dependent manner. *Heliyon*, 8(12), e12147. <https://doi.org/10.1016/j.heliyon.2022.e12147>
21. Stover, J. D., Trone, M. A., Lawrence, B., & Bowles, R. D. (n.d.). Multiplex epigenome editing of ion channel expression in nociceptive neurons abolished degenerative IVD-conditioned media-induced mechanical sensitivity. *JOR SPINE*, n/a(n/a), e1253. <https://doi.org/10.1002/jsp2.1253>
22. Su, G., Farhat, R., Laxman, A. K., Chapman-Natewa, K., Nelson, I. E., & Chan, O. (2023). Astrocyte glycogen is a major source of hypothalamic lactate in rats with recurrent hypoglycemia. *Diabetes*, db220902. <https://doi.org/10.2337/db22-0902>
23. Wang, Y., Chiola, S., Yang, G., Russell, C., Armstrong, C. J., Wu, Y., Spampanato, J., Tarboton, P., Ullah, H. M. A., Edgar, N. U., Chang, A. N., Harmin, D. A., Bocchi, V. D., Vezzoli, E., Besusso, D., Cui, J., Cattaneo, E., Kubanek, J., & Shcheglovitov, A. (2022). Modeling human telencephalic development and autism-associated SHANK3 deficiency using organoids generated from single neural rosettes. *Nature Communications*, 13(1), Article 1. <https://doi.org/10.1038/s41467-022-33364-z>
24. Warde, K. M., Smith, L. J., Liu, L., Stubben, C. J., Lohman, B. K., Willett, P. W., Ammer, J. L., Castaneda-Hernandez, G., Imodoye, S. O., Zhang, C., Jones, K. D., Converso-Baran, K., Ekiz, H. A., Barry, M., Clay, M. R., Kiseljak-Vassiliades, K., Giordano, T. J., Hammer, G. D., & Basham, K. J. (2023). Senescence-induced immune remodeling facilitates metastatic adrenal cancer in a sex-dimorphic manner. *Nature Aging*, 1–20. <https://doi.org/10.1038/s43587-023-00420-2>
25. Wenzel, D. M., Mackay, D. R., Skalicky, J. J., Paine, E. L., Miller, M. S., Ullman, K. S., & Sundquist, W. I. (2022). Comprehensive analysis of the human ESCRT-III-MIT domain interactome reveals new cofactors for cytokinetic abscission. *eLife*, 11, e77779. <https://doi.org/10.7554/eLife.77779>
26. Xue, Q., Varady, S. R. S., Waddell, T. Q. A., Roman, M. R., Carrington, J., & Roh-Johnson, M. (2023). Lack of Paxillin phosphorylation promotes single-cell migration in vivo. *The Journal of Cell Biology*, 222(3), e202206078. <https://doi.org/10.1083/jcb.202206078>
27. Zhang, C., Jin, Y., Marchetti, M., Lewis, M. R., Hammouda, O. T., & Edgar, B. A. (2022). EGFR signaling activates intestinal stem cells by promoting mitochondrial biogenesis and β -oxidation. *Current Biology*. <https://doi.org/10.1016/j.cub.2022.07.003>

