

Updated list of publications from Dynamic Molecular Cell Biology students per year

2023

- **Dunkley, S.**, & Mogessie, B. (2023). Actin limits egg aneuploidies associated with female reproductive aging. *Science Advances*, 9(3). DOI: [10.1126/sciadv.adc9161](https://doi.org/10.1126/sciadv.adc9161)
- Bergen, D. J. M., Maurizi, A., Formosa, M. M., **McDonald, G. L. K.**, El-Gazzar, A., Hassan, N., Brandi, M. L., Riancho, J. A., Rivadeneira, F., Ntzani, E., Duncan, E. L., Gregson, C. L., Kiel, D. P., Zillikens, M. C., Sangiorgi, L., Högl, W., Duran, I., Mäkitie, O., van Hul, W., & Hendrickx, G. (2023). High Bone Mass Disorders: New Insights From Connecting the Clinic and the Bench. *Journal of Bone and Mineral Research*, 38(2), 229–247. <https://doi.org/10.1002/JBMR.4715>
- **Needs, H. I.**, Pereira, G. C., Henley, J. M., & Collinson, I. (2023). The NanoLuc Assay System for Accurate Real-Time Monitoring of Mitochondrial Protein Import within Intact Mammalian Cells. *JMB* <https://doi.org/10.1016/j.jmb.2023.168129>
- Jiménez-Moreno N, Kollareddy M, Stathakos P, Moss JJ, Antón Z, Shoemark DK, Sessions RB, Witzgall R, Caldwell M, Lane JD. (2023) [ATG8-dependent LMX1B-autophagy crosstalk shapes human midbrain dopaminergic neuronal resilience](https://doi.org/10.1083/jcb.201910133). doi: 10.1083/jcb.201910133

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- **George, A.**, & Martin, P. (2022). Wound Healing Insights from Flies and Fish. *Cold Spring Harbor Perspectives in Biology*, 14(11), a041217. <https://doi.org/10.1101/CSHPERSPECT.A041217>
- López-Cuevas, P., Xu, C., Severn, C. E., **Oates, T. C. L.**, Cross, S. J., Toyé, A. M., Mann, S., Martin, P., López-Cuevas, P., Severn, C. E., Oates, T. C. L., Toyé, A. M., Martin, P., Xu, C., & Mann, S. (2022). Macrophage Reprogramming with Anti-miR223-Loaded Artificial Protocells Enhances In Vivo Cancer Therapeutic Potential. *Advanced Science*, 9(35), 2202717. <https://doi.org/10.1002/ADVS.202202717>
- **Tsuji, C.**, & Dodding, M. P. (2022). Lumenal components of cytoplasmic microtubules. *Biochemical Society Transactions*, 50(6), 1953–1962. <https://doi.org/10.1042/BST20220851>
- **Parker, C.**, Chambers, A. C., Flanagan, D. J., Ho, J. W. Y., Collard, T. J., Ngo, G., Baird, D. M., Timms, P., Morgan, R. G., Sansom, O. J., & Williams, A. C. (2022). BCL-3 loss sensitises colorectal cancer cells to DNA damage by targeting homologous recombination. *DNA Repair*, 115, 103331. <https://doi.org/10.1016/J.DNAREP.2022.103331>
- Rice, C. M., Lewis, P., Ponce-Garcia, F. M., **Gibbs, W.**, Groves, S., Cela, D., Hamilton, F., Arnold, D., Hyams, C., Oliver, E., Barr, R., Goenka, A., Davidson, A., Wooldridge, L., Finn, A., Rivino, L., & Amulic, B. (2022). Hyperactive immature state and differential CXCR2 expression of neutrophils in severe COVID-19. *Life Science Alliance*, 6(2), 1-13. [e202201658]. <https://doi.org/10.26508/lsa.202201658>

- Torres Montaguth, O. E., Cross, S. J., **Ingram, K. W. A.**, Lee, L., Diffin, F. M., & Szczelkun, M. D. (2021). ENDO-Pore: high-throughput linked-end mapping of single DNA cleavage events using nanopore sequencing. *Nucleic Acids Research*, 49(20), e118–e118. <https://doi.org/10.1093/NAR/GKAB727>
- Stathakos, P., **Jiménez-Moreno, N.**, Crompton, L. A., Nistor, P. A., Badger, J. L., Barbuti, P. A., Kerrigan, T. L., Randall, A. D., Caldwell, M. A., & Lane, J. D. (2021). A monolayer hiPSC culture system for autophagy/mitophagy studies in human dopaminergic neurons. *Autophagy*, 17(4), 855–871. https://doi.org/10.1080/15548627.2020.1739441/SUPPL_FILE/KAUP_A_1739441_SM4705.ZIP
- **Campbell, J. S.**, Davidson, A. J., Todd, H., Rodrigues, F. S. L. M., Elliot, A. M., Early, J. J., Lyons, D. A., Feng, Y., & Wood, W. (2021). PTPN21/Pez Is a Novel and Evolutionarily Conserved Key Regulator of Inflammation In Vivo. *Current Biology*, 31(4), 875-883.e5. <https://doi.org/10.1016/J.CUB.2020.11.014>
- Henley, J. M., Nair, J. D., **Seager, R.**, Yucel, B. P., Woodhall, G., Henley, B. S., Talandyte, K., Needs, H. I., & Wilkinson, K. A. (2021). Kainate and AMPA receptors in epilepsy: Cell biology, signalling pathways and possible crosstalk. *Neuropharmacology*, 195. <https://doi.org/10.1016/J.NEUROPHARM.2021.108569>
- Henley, J. M., **Seager, R.**, Nakamura, Y., Talandyte, K., Nair, J., & Wilkinson, K. A. (2021). SUMOylation of synaptic and synapse-associated proteins: An update. *Journal of Neurochemistry*, 156(2), 145–161. <https://doi.org/10.1111/jnc.15103>
- Nair, J. D., Braksator, E., Yucel, B. P., Fletcher-Jones, A., **Seager, R.**, Mellor, J. R., Bashir, Z. I., Wilkinson, K. A., & Henley, J. M. (2021). Sustained postsynaptic kainate receptor activation downregulates AMPA receptor surface expression and induces hippocampal LTD. *iScience*, 24(9). <https://doi.org/10.1016/J.ISCI.2021.103029>
- Zhao, X., Alibhai, D., Sun, T., Khalil, J., Hutchinson, J. L., Olzak, K., Williams, C. M., Li, Y., Sessions, R., Cross, S., **Seager, R.**, Aungraheeta, R., Leard, A., Mckinnon, C. M., Phillips, D., Zhang, L., Poole, A. W., Banting, G., & Mundell, S. J. (2021). Tetherin/BST2, a physiologically and therapeutically relevant regulator of platelet receptor signalling. <https://doi.org/10.1182/bloodadvances.2020003182>
- **Parker, C.**, Chambers, A. C., Flanagan, D., Collard, T. J., Ngo, G., Baird, D. M., Timms, P., Morgan, R. G., Sansom, O., & Williams, A. C. (2021). Loss of BCL-3 sensitises colorectal cancer cells to DNA damage, revealing a role for BCL-3 in double strand break repair by homologous recombination. *BioRxiv*, 2021.08.03.454995. <https://doi.org/10.1101/2021.08.03.454995>
- **Needs, H. I.**, Protasoni, M., Henley, J. M., Prudent, J., Collinson, I., & Pereira, G. C. (2021). Interplay between mitochondrial protein import and respiratory complexes assembly in neuronal health and degeneration. *Life*, 11(5), 432. <https://doi.org/10.3390/LIFE11050432/S1>
- **Moss, J. J.**, Wirth, M., Tooze, S. A., Lane, J. D., & Hammond, C. L. (2021). Autophagy coordinates chondrocyte development and early joint formation in zebrafish. *FASEB Journal*, 35(11). <https://doi.org/10.1096/FJ.202101167R>
- **McGowan, L. M.**, Kague, E., Vorster, A., Newham, E., Cross, S., & Hammond, C. L. (2021). Wnt16 Elicits a Protective Effect Against Fractures and Supports Bone Repair in Zebrafish. *JBMR Plus*, 5(3). <https://doi.org/10.1002/JBM4.10461>

- Dietrich, K., Fiedler, I. A. K., Kurzyukova, A., López-Delgado, A. C., **McGowan, L. M.**, Geurtzen, K., Hammond, C. L., Busse, B., & Knopf, F. (2021). Skeletal Biology and Disease Modeling in Zebrafish. *Journal of Bone and Mineral Research*, 36(3), 436–458. <https://doi.org/10.1002/JBMR.4256>
- Scott, A., Sueiro Ballesteros, L., Bradshaw, M., Tsuji, C., Power, A., **Lorriman, J.**, Love, J., Paul, D., Herman, A., Emanuelli, C., & Richardson, R. J. (2021). In Vivo Characterization of Endogenous Cardiovascular Extracellular Vesicles in Larval and Adult Zebrafish. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 41(9), 2454–2468. <https://doi.org/10.1161/ATVBAHA.121.316539>
- **McDonald, G. L. K.**, Wang, M., Hammond, C. L., & Bergen, D. J. M. (2021). Pharmacological Manipulation of Early Zebrafish Skeletal Development Shows an Important Role for Smad9 in Control of Skeletal Progenitor Populations. *Biomolecules* 2021, Vol. 11, Page 277, 11(2), 277. <https://doi.org/10.3390/BIOM11020277>
- Scott, A., Sueiro Ballesteros, L., Bradshaw, M., **Tsuji, C.**, Power, A., Lorriman, J., Love, J., Paul, D., Herman, A., Emanuelli, C., & Richardson, R. J. (2021). In Vivo Characterization of Endogenous Cardiovascular Extracellular Vesicles in Larval and Adult Zebrafish. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 41(9), 2454–2468. <https://doi.org/10.1161/ATVBAHA.121.316539>

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- **Young, H. S.**, McGowan, L. M., Jepson, K. A., & Adams, J. C. (2020). Impairment of cell adhesion and migration by inhibition of protein disulphide isomerases in three breast cancer cell lines. *Bioscience Reports*, 40(10), 20193271. <https://doi.org/10.1042/BSR20193271/226652>
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- Ryan, R., **Moyse, B. R.**, & Richardson, R. J. (2020). Zebrafish cardiac regeneration—looking beyond cardiomyocytes to a complex microenvironment. *Histochemistry and Cell Biology* 2020 154:5, 154(5), 533–548. <https://doi.org/10.1007/S00418-020-01913-6>
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- **Lawrence, E. A.**, Hammond, C. L., & Blain, E. J. (2020). Potential of zebrafish as a model to characterise MicroRNA profiles in mechanically mediated joint degeneration. *Histochemistry and Cell Biology*, 154(5), 521–531. <https://doi.org/10.1007/S00418-020-01918-1/TABLES/1>
- **Daly, J. L.**, Simonetti, B., Klein, K., Chen, K. E., Williamson, M. K., Antón-Plágaro, C., Shoemark, D. K., Simón-Gracia, L., Bauer, M., Hollandi, R., Greber, U. F., Horvath, P., Sessions, R. B., Helenius, A., Hiscox, J. A., Teesalu, T., Matthews, D. A., Davidson, A. D., Collins, B. M., ... Yamauchi, Y. (2020). Neuropilin-1 is a host factor for SARS-CoV-2 infection. *Science*, 370(6518), 861–865. DOI: 10.1126/science.abd3072
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- Legge, D. N., Chambers, A. C., **Parker, C. T.**, Timms, P., Collard, T. J., & Williams, A. C. (2020). The role of B-Cell Lymphoma-3 (BCL-3) in enabling the hallmarks of cancer: implications for the treatment of colorectal carcinogenesis. *Carcinogenesis*, 41(3), 249–256. <https://doi.org/10.1093/CARCIN/BGAA003>
- **Moss, J. J.**, Hammond, C. L., & Lane, J. D. (2020). Zebrafish as a model to study autophagy and its role in skeletal development and disease. *Histochemistry and Cell Biology*, 154(5), 549–564. <https://doi.org/10.1007/S00418-020-01917-2/FIGURES/4>
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- **Simonetti, B.**, & Cullen, P. J. (2019). Actin-dependent endosomal receptor recycling. *Current Opinion in Cell Biology*, 56, 22–33. <https://doi.org/10.1016/j.ccb.2018.08.006>
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- **Needs, H. I.**, Henley, B. S., Cavallo, D., Gurung, S., Modebadze, T., Woodhall, G., & Henley, J. M. (2019). Changes in excitatory and inhibitory receptor expression and network activity during induction and establishment of epilepsy in the rat Reduced Intensity Status Epilepticus (RISE) model. *Neuropharmacology*, 158, 107728. <https://doi.org/10.1016/J.NEUROPHARM.2019.107728>
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2018

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