

# RECENT FACULTY PUBLICATIONS:

Year 2022

Allgood JA, Roballo KCS, Bridger RD, **Bushman JS**. 2022. Effect of graft source and orientation on regeneration of ablated branch points in peripheral nerves. *Frontiers in Neuroscience*. Accepted for publication 10/26/2022

Barbera G, Jun R, Zhang Y, Liang B, **Li Y** and Lin DT. 2022. A miniature fluorescence microscope for multi-plane imaging. *Scientific Reports* 12: 16686. Doi:10.1038/s41598-022-21022-9

Bittner GD, **Bushman JS**, Ghergherehchi CL, Roballo KCS, Shorts JT, Smith TA. Typical and atypical properties of peripheral nerve allografts enable novel strategies to repair segmental-loss injuries. *J Neuroinflammation*. 2022 Feb 28;19(1):60. doi: 10.1186/s12974-022-02395-0.

[Bloomston](#) NA, Zaharas K, Lawley K, Fenn T, Person E, Huber H, Zhang Z, **Prather JF**. 2022. Exploring links from sensory perception to movement and behavioral motivation in the caudal nidopallium of female songbirds. *Journal of Comparative Neurology* <https://doi.org/10.1002/cne.25305>

Bruno JR, Udoh UG, Landen JG, Osborn PO, Asher CJ, Hunt JE, **Pratt KG**. 2022. A circadian-dependent preference for light displayed by *Xenopus* tadpoles is modulated by serotonin. *iScience* doi.org/10.1016/j.isci.2022.105375.

[Fuji](#) T, Coulter, A, Lawley KS, **Prather JF**, Okanoya K. 2022. Song preference in female and juvenile songbirds: proximate and ultimate questions. *Frontiers in Physiology*. 13:876205. doi: 10.3389/fphys.2022.876205

Jun R, Zhang W, Beacher NJ, Zhang Y, **Li Y**, Lin DT. 2022. Dysbindin-1, BDNF, and GABAergic transmission in schizophrenia. *Frontiers in Psychiatry* 13:876749. doi: 10.3389/fpsy.2022.876749.

Lawley KS, Fenn\* T, Person\* E, Huber\* H, Zaharas\* K, Smith\* P, Coulter A, **Prather JF**. (*in press*) Auditory processing neurons influence song evaluation and strength of mate preference in female songbirds. In press at *Frontiers in Neural Circuits*.

Liang B, Thapa R, Zhang G, Moffitt C, Zhang Y, Zhang L, Johnston A, Ruby HP, Barbera G, Wong PC, Zhang Z, Lin DT, **Li Y**. 2022. Aberrant Neural Activity in Prefrontal Pyramidal Neurons Lacking TDP-43 Precedes Neuron Loss. *Progress in Neurobiology* 215: 112297. Doi: 10.1016/j.pneurobio.2022.102297.

Liang B, Zhang L, Zhang Y, Werner C, Denman A, **Li Y**, Chen R, Gerfen C, Barbera G, and Lin DT. 2022. Striatal direct and indirect pathway neurons encode distinct elements in accelerating rotarod motor skill learning. *iScience* 25(5):104245. doi: 10.1016/j.isci.2022.104245.

Machado NLS, **Todd WD**, Kaur S, Saper CB. (2022) Median preoptic GABA and glutamate neurons exert differential control over sleep behavior. *Current Biology* 32(9):2011-2021.e3.

Williams RE, **Mruk K**. (2022) [Aquatic Freshwater Vertebrate Models of Epilepsy Pathology: Past Discoveries and Future Directions for Therapeutic Discovery](#). *Int J Mol Sci.* 23(15):8608. doi: 10.3390/ijms23158608.

Wupu O, Allgood JA, Van Sandt R, Burns DT, **Bushman JS**. 2022. Sexual dimorphism in lesion size and sensorimotor responses following spinal cord injury. *Front. Neurol.* doi.org/10.3389/fneur.2022.92579