

Employment

Research Associate

Research Only

Division of Diabetes, Endocrinology & Gastroenterology (L5)

The University of Manchester

16 Dec 2019 → present

Research outputs

Regulation of mouse exploratory behaviour by irradiance and cone-opponent signals

Tamayo, E., Mouland, J., Lucas, R. & Brown, T., 14 Jul 2023, (Accepted/In press) In: BMC Biology.

Colour opponency is widespread across the mouse subcortical visual system and differentially targets GABAergic and non-GABAergic neurons

Feord, R. C., Gomoliszewska, A., Pienaar, A., Mouland, J. & Brown, T., 19 May 2023, (Accepted/In press) In: Scientific Reports.

Colour and melanopsin mediated responses in the murine retina

Mouland, J., Watson, A. J., Martial, F. P., Lucas, R. J. & Brown, T. M., 13 Mar 2023, In: Frontiers in cellular neuroscience. 17, 1114634.

Beyond irradiance: Visual signals influencing mammalian circadian function

Mouland, J. & Brown, T. M., 2022, In: Progress in Brain Research. 273, 1, p. 145-169 25 p.

Extensive cone-dependent spectral-opponency within a discrete zone of the lateral geniculate nucleus supporting mouse colour vision

Mouland, J., Pienaar, A., Williams, C., Watson, A., Lucas, R. & Brown, T., 13 May 2021, In: Current biology .

Modulations in irradiance directed at melanopsin, but not cone photoreceptors, reliably alter electrophysiological activity in the suprachiasmatic nucleus and circadian behaviour in mice

Mouland, J., Brown, T., Martial, F. & Lucas, R., 27 Apr 2021, In: Journal of Pineal Research. 70, 4, e12735.

Acute In Vivo Multi-Electrode Recordings from the Mouse Suprachiasmatic Nucleus

Mouland, J., Walmsley, L., Brown, T. & Lucas, R., 19 Jul 2020, (Accepted/In press) *Circadian Clocks : Methods and Protocols*.

The spectral sensitivity of cone vision in the diurnal murid, *Rhabdomys pumilio*

Allen, A., Mouland, J., Rodgers, J., Bano Otalora, B., Douglas, R., Vulgar, A. A., Brown, T. & Lucas, R., 20 Apr 2020, (Accepted/In press) In: The Journal of Experimental Biology.

Cones support alignment to an inconsistent world by suppressing mouse circadian responses to the blue colours associated with twilight

Mouland, J., Martial, F., Watson, A. R., Lucas, R. & Brown, T., 16 Dec 2019, In: Current biology . 29, 24, p. 4260-4267.E4

Multiplexing Visual Signals in the Suprachiasmatic Nuclei

Stinchcombe, A. R., Mouland, J., Wong, K. Y., Lucas, R. J. & Forger, D. B., 7 Nov 2017, In: Cell Reports. 21, 6, p. 1418-1425 8 p.

Responses to spatial contrast in the mouse suprachiasmatic nuclei (SCN)

Mouland, J., Stinchcombe, A. R., Forger, D. B., Brown, T. & Lucas, R., 18 May 2017, In: Current Biology. 27, 11, p. 1633-1640

Colour as a signal for entraining the Mammalian circadian clock.

Walmsley, L., Hanna, L., Mouland, J., Martial, F., West, A., Smedley, A. R., Bechtold, D. A., Webb, A. R., Lucas, R. J. & Brown, T. M., 17 Apr 2015, In: *PLoS Biology*. 13, 4, p. 0 e1002127.