

## **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.