



Winter  
2024  
Symposium

## Centre for Biological Timing - Winter Symposium 2024

### Date:

January 16<sup>th</sup>, 2024

### Venue

Smith Lecture Theatre  
Dover St, Manchester M13 9NT

### Session 1: Circadian organisation of immunity

Moderator: Andrea Luengas-Martinez

#### **9:30 – Opening by Rob Lucas**

**9:40** – Jafar Cain (Manchester): “Circadian Patterns in Immune Cell Trafficking in Chronic Allergic Airways Disease.”

**10:00** – Emma Leacy (RCSI Dublin): “BMAL1 Expression and Associated Circadian Rhythmicity is Dysregulated in Alpha-1 Antitrypsin Deficient Monocytes.”

**10:20** – Magdalena Grudzien (Manchester): “The role of Reverba in regulation of white adipose tissue expansion and inflammation during obesity,”

**10:40** – Felicity Hunter (Manchester): “The influence of feeding time on circadian rhythms in immunity”

#### **11:00 – Coffee break (please visit the exhibits of our kind sponsors)**

### Session 2: Crosstalk between metabolism and the clock

Moderator: Magdalena Grudzien

**11:30** – Rebecca Grossman (Oxford): “Circadian regulation of liver energy metabolism: translational studies in diabetes and obesity.”

**11:50** – Isaiah Ting (Surrey): “Co-expression of Biological Rhythms.”

**12:10** – Natalie Rogers (Manchester): “Characterising the intervertebral disc molecular clock: How is it stimulated and what is its role in matrix homeostasis?”

**12:30** – Catherine Drysdale (Birmingham): “Exploring Perturbations to Ultradian Rhythms of the HPA axis.”

**12:50** – Frederick Odun-Ayo (Tecniplast): “Locomotor Activity: refinement, reduction and replicability ‘round the clock in mouse models using Digital Ventilated Cages (DVC®)”

#### **13:05– 14:05 Lunch time (please visit the exhibits of our kind sponsors)**

### 14:10 – Keynote Presentation

**Keynote Speaker:** Dr Brendan Gabriel (The Rowett Institute): “Disrupted muscle circadian rhythms in metabolic disease & the importance of treatment timing”

### Session 3: How the circadian system responds to light

Moderator: Josh Moulard

**14:50** – Angelique Lamaze (Münster): “A CRY in the red district: presentation of a blue-light independent function of dCRY.”

**15:10** – Pierluigi Cocco (Manchester): “Challenges to adaptation to the loss of the day/night cycle: the case of Antarctica and the Svalbard islands.”

**15:30** – Adam Liddle (Glasgow): “Uncovering the transcriptomic architecture of avian photoperiodism.”

**15:50 – Closing remarks by Jean-Michel Fustin**



The University of Manchester

FBMH Research and Innovation, University of Manchester

FBMH School of Medical Sciences, University of Manchester

