

# Metabolic Physiology Shared Resource

Location: Pelotonia Research Center, 2255 Kenny Rd.  
The Ohio State University, Columbus, OH 43206

**Co-Directors:** Kristy Townsend, Ph.D. and Magdalena Blaszkiewicz, Ph.D.

## Available Services & Equipment

— for internal/external use with approval/consultation only —

- **Sable Systems Promethion Metabolic Cages (mice)** – 12 cages total, temperature-regulated cabinet ranging from thermoneutrality to cold exposure, home cage environment with bedding provides low stress measurements, can be used with or without running wheels. System is capable of measuring body mass, food intake, physical activity (X, Y), wheel running, VO<sub>2</sub>, VCO<sub>2</sub>, RER, Heat, and more, continuously.
- **Caron diurnal incubator** - to house mice for comparisons of cold exposure or thermoneutral to room temperature animals, in humidity/light-controlled housing (can shift light cycle), approx. 12 mouse cages.
- **Body Temperature: FLIR camera** (for thermography imaging of animals); **Sable thermocouple probes** (to measure skin, rectal or tissue temperatures)
- **Exercise cages** - running wheel cages fitted with odometers, small and large diameter wheel cages available (8 large and 9 small)
- **Glucometers** - for glucose (GTT) and insulin (ITT) tolerance testing
- **Food intake cups and sucrose preference testing** sippers (to pair feed, accurately measure single-caged animal daily food intake, and assess taste aversion)
- **Neuropathy testing** by NCV, hot/cold plate, Von Frey, or DEN microneedle array – **by collaboration only**

For a full equipment list and  
Information: <https://ktownsendlab.com/metabolicphysiology/>

**To inquire or schedule** please  
contact Resource Directors:  
Kristy Townsend, Ph.D.  
[kristy.townsend@osumc.edu](mailto:kristy.townsend@osumc.edu)  
Magdalena Blaszkiewicz, Ph.D.  
[magdalena.blaszkiewicz@osumc.edu](mailto:magdalena.blaszkiewicz@osumc.edu)



**THE METABOLIC PHYSIOLOGY  
SHARED RESOURCE IS  
SUPPORTED BY:  
The Townsend Lab & The Gene  
Therapy Institute**