Respirometry Course – Las Vegas, Nevada

High-Resolution Metabolic and Behavioral Phenotyping

June 6-8, 2023

The course teaches participants how to use Promethion Core for the metabolic and behavioral phenotyping of mice and rats. The participants will learn how to comprehensively phenotype rodents by combining indirect calorimetry measurements with behavior measurements. Behavior measurements include food & water intake, wheel running, and general activities such as walking or resting. The use of accessory devices such as a metabolic treadmill and a stable isotope analyzer will also be taught.

Hands On: The course leads participants through all steps of setting up and running Promethion Core; from calibrating and troubleshooting, to acquiring data, through analyzing and reporting the data.

Cost: $3,423 per participant. Included in this fee are all laboratory costs, course materials, lunches, one-on-one data analysis, review and discussion with our in-house experts, a signed copy of Dr. Lighton's book, and many extras.

Course Materials: All coursework materials are provided including copies of all presentations.

Instructors: This course is team-taught by a cross-functional group of Sable Systems Scientists and Engineers from the Research, Product Development, and Customer Support Departments.

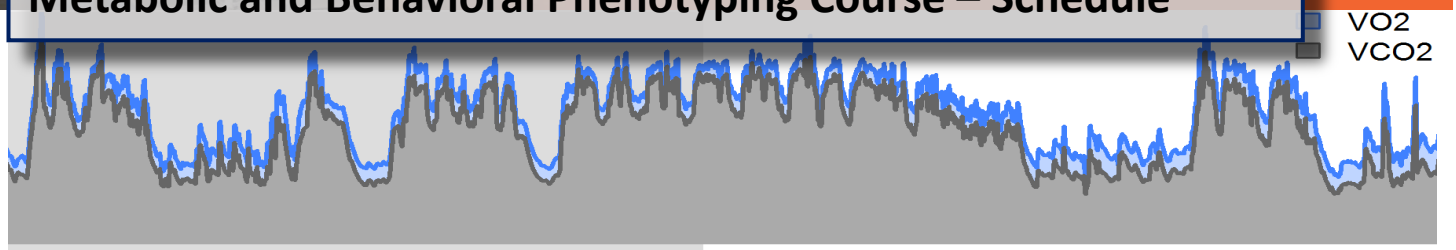
This group of experts will include Dr. John Lighton President/Chief Innovation Officer and author of >100 scientific publications on metabolism including the book "Measuring Metabolic Rates – a Manual for Scientists"

For questions, more information, or to register, contact Sable Systems by email to support@sablesys.com or by phone at 702-269-4445 in the US or +49 30 53054 1002 in the EU.

Author: Marshall McCue Effective Date: 3/7/2023

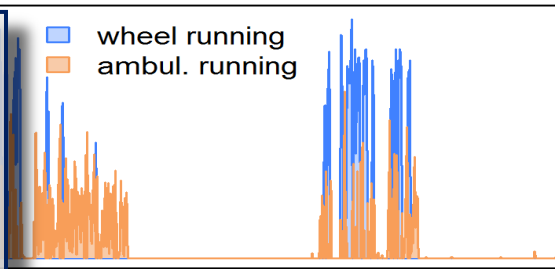
PROMETHION CORE™

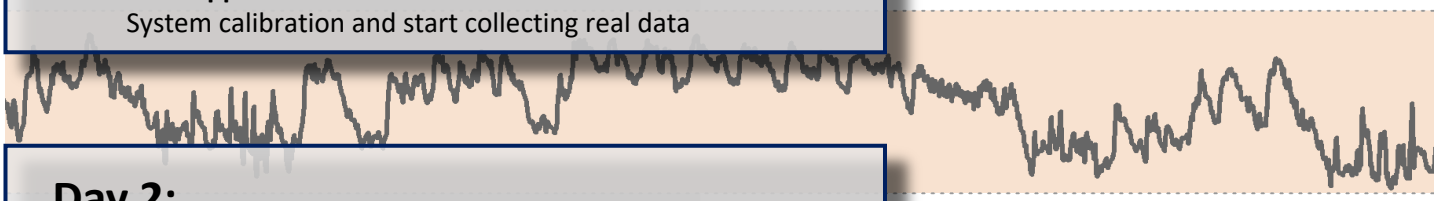
Metabolic and Behavioral Phenotyping Course – Schedule



Day 1:

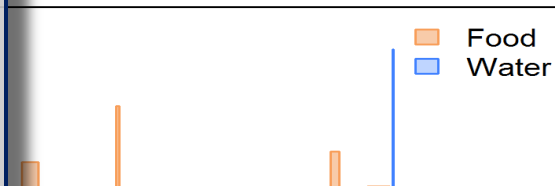
- **Welcome and Orientation:**
  Introduction to workspace, metabolic cages, and CGF
- **Classroom Lectures:**
  Fundamentals of Respirometry, Behavioral and Metabolic Phenotyping, and
- **Hands-on Applications:**
  System calibration and start collecting real data

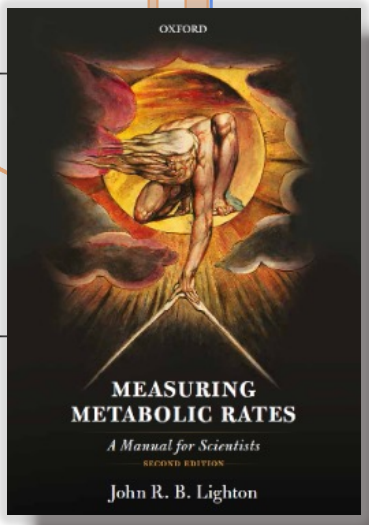




Day 2:

- **Additional Lectures:**
  Sensor Function and Theory,
- **Supervised Data Analysis**
  Analyzing real-time data using Promethion Live, Introduction to MacroInterpreter
- **Hands-on Applications:**
  Trouble-shooting, readdressing sensors, and continued data collection.





Day 3:

- **Additional Lectures:**
  Using MacroInterpreter for Data Analysis and Visualization
- **New Techniques and Approaches:**
  Creating custom macros, heatmaps, and programs.
  Metabolic Treadmills, Stable isotope analysis, Methane measurement, Telemetry, Thermal cabinets, and more.

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