



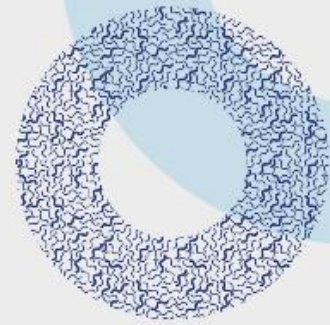
**Danish Diabetes and
Endocrine Academy**

High-Resolution Metabolic and Behavioral Phenotyping Course

5-8 March 2024

**University of Copenhagen
Panum Building
Blegdamsvej 3B
DK-2200 Copenhagen N**

Session overview



Day 1

Tuesday 5 March. Room no. 13.1.36

Welcome and orientation

Introduction to workspace, metabolic cages and CGF

Classroom lectures: Fundamentals of Respirometry

Day 2

Wednesday 6 March. Room 13.1.63

Hands-on work: System calibration and start collecting real data

Classroom lectures: Behavioral and Metabolic Phenotyping

Data analysis: Analyzing real-time data using Promethion Live,
Introduction to Macro Interpreter

Day 3

Thursday 7 March. Room 13.1.63

Hands-on work: Troubleshooting, module handling and data collection exercises

Classroom lectures: Sensor Function and Theory

Data analysis: Using Macro Interpreter for Data Analysis and Visualization

Day 4

Friday 8 March. Room 13.1.62

New techniques: Creating custom macros and heatmaps

Stable isotope analysis, Methane measurement, and more

Wrap up

Tuesday 5 March

Room 13.1.36

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|-------------|--|
| 11:00-12:00 | Registration and getting settled in |
| 12:00-13:30 | Lunch, welcome by the organisers and meet & greet |
| 13:30-15:30 | Overview of Promethion System and Modules

Basics of Cage Assembly

Promethion Live Interface Overview |
| 15:30-15:50 | Coffee break |
| 15:50-16:35 | Basics of Respirometry |
| 16:35-16:45 | Reflection of the day |
| 16:45-18:30 | Free time |
| 18:30-20:30 | Networking dinner hosted by the DDEA at

Food Club Nørrebro
Sortedam Dossering 7C, the back building
2200 Copenhagen N |

Wednesday 6 March

Room 13.1.63

09:30-09:55 Breakfast, coffee and tea

09:55-10:00 Welcome back

10:00-12:00 Accessing and Navigating Pro Live
Cage Component Calibration and Handling
Gas Analyzer Calibration
Programing a SABLE Environmental Cabinet

12:00-13:00 Lunch

13:00-15:30 Hands-on Session in the Animal Facility - Experiment Setup
Cage Setup, System Plumbing, Basic Handling and Operations,
Cabinet Programming

15:30-16:00 Coffee break

16:00-18:00 How to Take Full Advantage of REMOTE SUPPORT
Troubleshooting - Raw Calorimetry Data
Hardware Troubleshooting

18:45-20:30 Networking dinner hosted by Sables System Europe at
Mahalle Nansensgade
Nansensgade 66
1366 Copenhagen K

Thursday 7 March

Room 13.1.63

09:30-09:55 Breakfast, coffee and tea

09:55-10:00 Welcome back

10:00-12:30 Create Graphs using Promethion Live/Tabular Data - Overnight Data Review

Use Macro Interpreter to Process Promethion Data

Understand Macro Outputs (What is What)

Understand Rodent Metabolic Rates (TNZ/Allometry)

Understand Importance of Cage Air Flow Rates

12:30-13:30 Lunch

13:30-15:30 Hands-on Session in the Animal Facility - Advanced Experiment Setup

Programing AC2 and Wheel Stop Schedules, Treadmill Use, Carbon/Oxygen Isotope and Methane Analyzer Use

15:30-16:00 Coffee break

16:00-18:00 ETHOSCAN Module (Overview)

Cal-R Software and Graphing

Macro Interpreter Advanced Use-cases

Publishing Metabolic/Behavioral Graphs

18:00-18:10 Reflection exercise

Friday 8 March

Room 13.1.62

09:30-09:55 Breakfast, coffee and tea

09:55-10:00 Welcome back

10:00-12:00 Research Questions and Experimental Design

Student Exam

Exam Scoring and Review Answers

Certificates/Photos/Signed Books

12:00-13:00 Lunch

13:00 Farewell

Instructors & Organizers of the Scientific Program

Andreas Moelich, Ph.D., Managing Director,
Sable System Europe (DE)

Bartosz Schramm, Ph.D., Scientific Sales and Support Team Manager,
Sable System Europe (DE)

Tyler Smith, Biomedical Field Engineer,
Sable System Europe (DE)



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