

# Sable Systems Promethion



# The New Standard



# In Metabolic Screening!



# ALL Data Preserved

- ALL raw data are preserved
- 1-sec resolution, up to 1000 channels of data
- All data (metabolic, uptake, activity) are synchronized
- The ONLY traceable, auditable metabolic screening system in the world



# Metabolic Measurement

- 4 – 64 cages
- Unbeatable throughput
- Extremely accurate
- Uses patent-pending intelligent flow control
- $VO_2$ ,  $VCO_2$ , EE, RQ
- NO desiccants used!
- Automated calibration
- Uses standard cages...



# Standard Cages

- Standard cages tubs are used
- Rat and mouse models available
- Live-in design minimizes stress artifacts
- Pull mode respirometry does NOT require leakproof design!



# Uptake Monitoring

- Automated, real-time food and water uptake monitoring
- High resolution – 0.002g (5x better than competition)
- Wide range – 0–1000g
- Low profile, mounts on cage roof
- Body mass monitoring also available



Food and water can be changed during the recording!

# A Single Feeding Bout...



Food hopper masses at the START and END of feeding bout are statistically compared (resolution: 0.002 g) and if they are different, the difference is added to the food uptake total

# Uptake Control

- Complete food access control system
- Can monitor uptake AND control access
- Control access by time of day, amount of uptake allowed
- Versatile paired feeding and yoked feeding modes for advanced studies



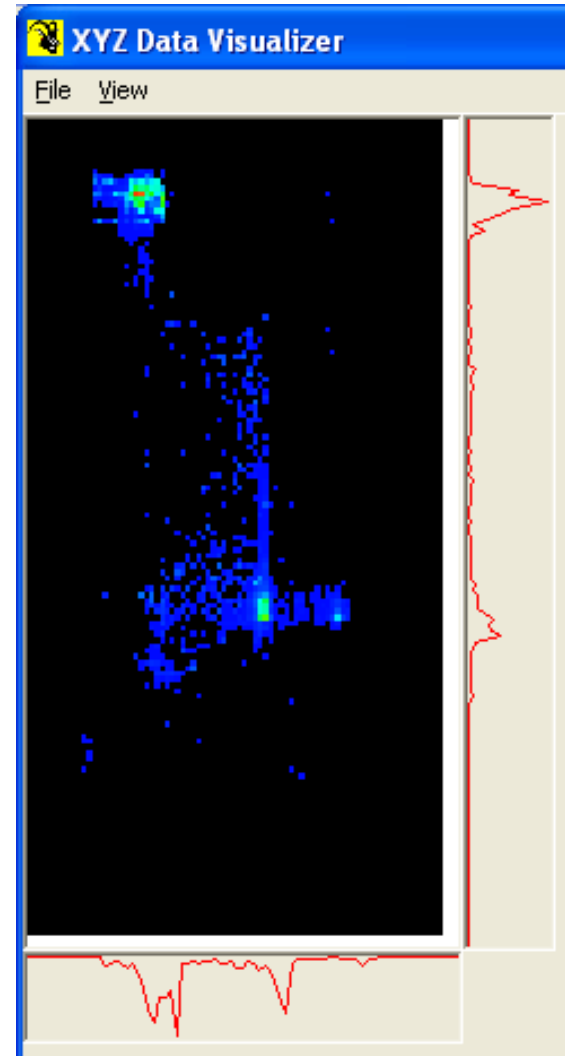
# Activity Monitoring

- XYZ array features resolution to 2.5 mm (interpolated), 1 cm (raw)
- Mouse and rat models
- Real-time output of position, rearing, and beam breaks
- Running wheel monitor is standard



# XYZ Example

- *Available outputs:*
- XYZ Position
- Position density map with histograms (see right)
- Beam breaks (X, Y and Z axes)
- Total distance traveled



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