

Materials List for

# Determining Basal Energy Expenditure and the Capacity of Thermogenic Adipocytes to Expend Energy in Obese Mice

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jove.com/video/63066

## Materials

Name	Company	Catalog Number	Comments
CLAMS-Oxymax System	Columbus Instruments	CLAMS-center feeder-ENC	Including environmental enclosure and Zirconia oxygen sensor
Desktop PC with Oxymax Software	HP/Columbus	N/A	PC needed to be purchased separately
Drierite jug (Calcium Sulfate with Cobalt Chloride Indicator)	Fisher Scientific	23-116681	Needed to dry the gas entering the oxygen sensor, humidity can damage the sensor
NMR for body composition	Echo-MRI	Echo-MRI 100	Measure lean and fat mass in alive mice. It is necessary for ANCOVA analyses.
CL-316-243	Sigma	C5976	Injected to the mice subcutaneously to activate thermogenesis
High fat diet	Research Diets	D12266B	Provided to the mice prior and during measurements
Pentobarbital/Nembutal	Pharmacy at DLAM	N/A	Anesthesia for the mice
Primary standard grade gas (tank and regulator)	Praxair	NI CD5000O6P-K/PRS 2012-2331-590	20.50% Oxygen, 0.50% CO <sub>2</sub> balanced with nitrogen used for calibration