

Integrated Physiology of Aging Core Services

prices are per animal and for mice (Mo), rats (R)

Balance, coordination, neuromuscular function

Rotarod (3 sessions)	Mo	\$25
Rotarod (5 sessions)	Mo	\$50
Gait: Treadscan	Mo	\$5
Grip Strength	Mo	\$10
Upper/Lower Limb Strength	Mo	Consult

Endocrine/Metabolic Function, Activity, and Body Composition

Endurance during exercise (Treadmill)	Mo, R	\$15
Respirometry	Mo, NMR, Mar	\$35
Glucose Tolerance	Mo, R, NMR, Mar	\$15
Insulin Tolerance	Mo, R, NMR, Mar	\$15
β -cell function (hyperglycemic clamp)	Mo, R	\$300
Insulin Sensitivity (euglycemic clamp)	Mo, R	\$300
Circulating lipids	Mo, R, NMR, Mar	\$10
48 hr Activity	Mo,	\$20
Body Composition by QMR	Mo, R, NMR	\$15
DEXA for bone density and regional fat mass	Mo, R, NMR	\$15

Cardiac Function

Echocardiography	Mo, R, NMR	\$100
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Brain Function (Cognitive/Emotive Function)

Passive Avoidance	Mo	\$40
Contextual Fear Conditioning	Mo	\$20
Spatial Novelty	Mo	\$20
Novel Object Recognition	Mo	\$20
Morris Water Maze	Mo, R	\$30
Y-Maze	Mo, R	\$20
Open Field	Mo	\$20
Elevated Plus Maze	Mo	\$20
Sucrose Preference Test	Mo, R	\$20
Tail Suspension Test	Mo	\$20
Cantab Test	Mar	Consult

Nerve and Muscle Health

Nerve Conduction Velocity, nerve stimulation	Mo, R, NMR	\$70
Electromyography (EMG)	Mo, R, NMR	\$70
Tail Flick	Mo, R	\$30
Contractile Force	Mo, R	\$70

Mitochondrial Function

High-resolution Respirometry	Most tissues	Consult
Mitochondrial function by Seahorse	Most tissues	Consult
Luminiscent assays on isolated mitochondria	Most tissues	Consult

Primary and Organotypic Culture, Tissue Sample Preparation

Tissue sample preparation	Most tissues	Consult
Primary cell and organotypic culture	Brain, Muscle	Consult

Data Collection and Processing per Hour #**\$30**

**Consult Core personnel for studies with Naked Mole-Rats (NMR), or Marmosets (Mar).

Fees listed include supplies costs but do not include LAR costs, which are billed separately by LAR.

All studies above are available in mice. Please consult with Core personnel for more information.

One hour increments are charged for data collection, processing, and management.

For more information please contact:

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Nathan Shock users of this core facility should cite the support of the Nathan Shock Center for Excellence in Basic Biology of Aging Grant (AG13319) and the Integrated Physiology of Aging Core in all publications related to the work performed by this shared resource. Users are requested to inform us of grants and publications that use data from studies performed at the Core.