

# COBRE: Behavior Core Services

Kerry Tucker, Ph.D. – Director

Glenn Stevenson, Ph.D. – Assoc Director

Denise Giuvelis - Technical Staff

General Behavioral	Observational	<ul style="list-style-type: none"><li>• Bodyweight Analysis</li><li>• Rat Experimenter Handling</li></ul>
	Function	<ul style="list-style-type: none"><li>• Open Field Locomotor Activity</li><li>• Gait Analysis</li><li>• Grip Strength</li><li>• Coordination (RotoRod)</li></ul>
Pain/Sensory Testing	Thermal	<ul style="list-style-type: none"><li>• Plantar test (Infrared and UV)</li><li>• Hot Plate (Radiant)</li><li>• Tail-flick (Radiant and Immersion)</li><li>• Cold allodynia (Cold Plate, Acetone)</li><li>• Temperature Place Preference</li></ul>
	Mechanical	<ul style="list-style-type: none"><li>• von Frey (Automatic or Manual)</li></ul>
	Chemical	<ul style="list-style-type: none"><li>• Capsaicin Sensitization</li><li>• Formalin, Carrageenan, CFA</li><li>• Misc. (Acetic Acid)</li></ul>
Additional Neurobehavioral Assays	Psychiatric	<ul style="list-style-type: none"><li>• Open Field</li><li>• Tail Suspension</li><li>• Elevated Plus maze</li><li>• Forced Swim Test</li></ul>
	Addiction Liability	<ul style="list-style-type: none"><li>• Place Preference</li><li>• Tolerance/Dependence</li></ul>
	Learning and Memory	<ul style="list-style-type: none"><li>• Spatial Memory (Morris Water Maze)</li><li>• Fear Conditioning/Passive Avoidance</li><li>• Novel Object Recognition</li></ul>
Miscellaneous	GI Transit	<ul style="list-style-type: none"><li>• GI Transit (charcoal)</li></ul>
Surgeries	Neuropathic Pain	<ul style="list-style-type: none"><li>• Sciatic Nerve Ligation</li></ul>
	Post-Surgical Models	<ul style="list-style-type: none"><li>• Plantar Incision</li><li>• Bone Injury (Calcaneus Bone)</li><li>• Ovariectomy</li></ul>
	Catheterizations/Cannulations	<ul style="list-style-type: none"><li>• Intravenous/Arterial</li><li>• Intracerebroventricular</li><li>• Intrathecal</li></ul>
Dosing	Systemic	<ul style="list-style-type: none"><li>• Subcutaneous</li><li>• Intraperitoneal</li><li>• Pellet Implant</li><li>• Intramuscular</li><li>• Intravenous</li><li>• Oral gavage</li></ul>
	Central	<ul style="list-style-type: none"><li>• Intracerebroventricular</li><li>• Intrathecal</li></ul>
	Localized	<ul style="list-style-type: none"><li>• Osmotic Mini-pumps</li><li>• Pellets and Sustained Release preparations</li></ul>