

Behavioral Research Applications

This chart gives a brief description of three general classifications of behavioral research that are conducted. Next to each type is a list of different equipment that might be used and the parameter measured. This chart is meant to provide a general guide line and is not absolute.

	Equipment	Parameter Measured	Response To	Coordination Testing	Neurological Response	Learning and Memory	Muscular Response
Motor & Sensory	Rotorods - Unidirectional	Assessing the effect of drugs on the motor coordination	Running	X			X
	Rotorods - Bidirectional	Faster test of coordination	Running	X			
	Tail Flick Analgesia Meters	Used to detect the analgesic effect of the properties of narcotic and strong non- narcotic drugs. This can measure latency by tail flick method	Heat		X		X
	Plantar Analgesia Meters	Measuring response to physical stimuli (heat) on the feet in response to chemical or environmental stimuli	Heat		X		X
	Hot Plates	Measuring response to physical stimuli (heat) on the feet in response to chemical or environmental stimuli	Heat		X		X
	Grip Strength Meters	Measure the physical ability to hold on to a bar as affected by environmental stimuli or chemicals	Pulling		X		X
	Von Frey Anesthesiometers	Measure sensory threshold by the reaction measured by an auditory response or when the extremity tested is withdrawn.	Pressure		X		
	Sine Wave Shock Generators	Produces cerebral seizures produced by using constant sinusoidal alternating current to determine the effect of anticonvulsive drugs	Shock		X	X	X
Activity	Treadmills	Exerciser to induce stress or physical activity and then measure the effect caused by chemical or environmental consideration	X motion			X	X
	Activity Wheels	Measuring gross physical activity in response to chemical or environmental stimuli	X motion			X	
	Activity Monitors	Measuring xyz physical activity in response to chemical or environmental stimuli	XYZ motion	X	X	X	X
Learning & Test Systems	Mazes	Measure the learning and memory response as affected by chemical or environmental stimuli	Motivation		X	X	



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