



Neuroscience: List of validated models

Disease	Animal model	Test Species
Amyotrophic Lateral Sclerosis	Transgenic model - SOD1 G93A mice	Mice
Anxiety and Exploratory Behavior	Behavioral assessment	Rat, mice
Acute and Chronic Stress	Chronic unpredictable stress; Chronic immobilization/restraint stress; Acute and chronic ACTH induced corticosterone release; Bilateral adrenalectomy model	Rat and/or Mice
Cerebral Ischemia	MCA occlusion induced cerebral ischemia	Rat
Cognition-Alzheimer's	Scopolamine induced amnesia	Rat
Conditioned Taste Aversion	Sucrose consumption	Mice
Depression, Aggression	Behavioral assessment	Rat, mice
Epilepsy	Epilepsy screening model - PTZ induced seizures	Mice
Huntington's Disease	Transgenic model - R6/2 mice	Mice
Neuroinflammation	LPS induced inflammation – CNS vs Peripheral	Mice
Parkinson's Disease	6-OHDA; Rotenone; MPTP-induced PD	Rat or Mice
Sleep, Circadian Rhythm studies	Non-invasive activity measurement	Rat, mice

Activity	Technique/Test	Test Species
Brain Biodistribution	Intra-parenchymal (various brain regions) Intracerebroventricular (ICV); Intra cisterna magna (ICM); Intrathecal & Intranasal	Mice and Rat
Behavioral Assessment	Balance beam test	Rat, Mice
	Cylinder test	Rats
	Elevated plus maze	Rat, Mice
	Grip strength	Rat, Mice
	Inverted screen test	Mice
	Marble burying Test	Mice
	Morris water maze	Rat
	Novel object recognition test	Rat, Mice
	Novelty suppressed feeding	Rat, Mice
	Open field assessment	Rat, Mice
	Porsolt's forced swimming test	Rat, Mice
	Rotarod test	Rat, Mice
	Social interaction and sociability	Mice
Tail suspension	Mice	

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