Table 1. Irwin test methodology and and scores.

Physical factors and gross appearance		
Coat color	A= Albino, Ag=Agouti, Bl=Black	
Body weight	Animal weight (g) before the test	
Presence of whiskers	0 = None; 1 = A few; 2 = Most, but not a full set; 3 = A full set	
Appearance of fur	0 = Ungroomed and disheveled; 1 = Somewhat disheveled; 2 = Well-groomed (normal)	
Piloerection	0 = None; 1 = Most hairs standing on end	
Patches of missing fur on face	0 = None; 1 = Some; 2 = Extensive	
Patches of missing fur on body	0 = None; 1 = Some; 2 = Extensive	
Wounds	0 = None; 1 = Signs of previous wounding; 2 = Slight wounds present; 3 = Moderate wounds present; 4 = Extensive	
	wounds present	
Observation of behavior in a novel environme	nt	
Transfer behavior	0 = Coma; 1 = Prolonged freeze (>10 sec.), then slight movement; 2 = Extended freeze, then moderate movement; 3	
	= Brief freeze (a few seconds), then active movement; 4 = Momentary freeze, then swift movement; 5 = No freeze,	
	immediate movement; 6 = Extremely excited ("manic")	
Body position	0 = Completely flat (on stomach); 1 = Lying on side; 2 = Lying on back; 3 = Sitting or standing; 4 = Rearing on hind legs;	
	5 = Repeated vertical leaping	
Spontaneous activity	0 = None, resting; 1 = Casual scratch, groom, slow movement; 2 = Vigorous scratch, groom, moderate movement; 3 =	
	Vigorous, rapid/dart movement; 4 = Extremely vigorous, rapid/dart movement	
Respiration rate	0 = Gasping, irregular; 1 = Slow, shallow; 2 = Normal; 3 = Hyperventilation	
Tremor	0 = None; 1 = Mild; 2 = Marked	
Palpebral closure	0 = Eyes wide open; 1 = Eyes 1/2 closed; 2 = Eyes closed	
Piloerection	0 = None; 1 = Coat stood on end	
Gait	0 = Normal; 1 = Fluid but abnormal; 2 = Limited movement only; 3 = Incapacity	
Pelvic elevation	0 = Markedly flattened; 1 = Barely touches; 2 = Normal (3mm elevation); 3 = Elevated (more than 3 mm elevation)	
Tail elevation	0 = Dragging; 1 = Horizontally extended; 2 = Elevated (Straub tail)	
Urination	0 = None; 1 = Little; 2 = Moderate amount; 3 = Extensive	
Defecation	Count the number of fecal boli emitted during the 3-min. period	
Reflexes and reactions to simple stimuli		
Touch escape	0 = No response; 1 = Mild (escape response to firm stroke); 2 = Moderate (rapid response to light stroke); 3 =	
	Vigorous (escape response to approach)	
Positional passivity	0 = Struggles when restrained by tail; 1 = Struggles when restrained by neck (finger grip, not scruffed); 2 = Struggles	

	when held supine (on back); 3 = Struggles when restrained by hind legs; 4 = Does not struggle
Trunk curl	0 = Absent; 1 = Present
Reaching reflex	0 = None; 1 = Upon nose contact; 2 = Upon vibrasse contact; 3 = Before vibrasse contact (18mm); 4 = Early vigorous extension (25mm)
Body tone	0 = Flaccid, no return of cavity to normal; 1 = Slight resistance; 2 = Extreme resistance, board like
Measures recorded during supine restrai	int
Plantar surface skin color	0 = Blanched; 1 = Pink; 2 = Bright, deep red flush
Heart Rate	0 = Slow, bradycardia; 1 = Normal; 2 = Fast, tachycardia
Limb Tone	0 = No resistance; 1 = Slight resistance; 2 = Moderate resistance; 3 = Marked resistance; 4 = Extreme resistance
Abdominal Tone	0 = Flaccid, no return of cavity to normal; 1 = Slight resistance; 2 = Extreme resistance, board like
Righting Reflex	0 = No impairment; 1-10 = Number of seconds required to right
Air Righting Reflex	0 = No impairment; 1-10 = Number of seconds required to right
Salivation	0 = None; 1 = Slight margin of sub-maxillary area; 2 = Wet zone entire sub-maxillary area
Provoked Biting	0 = Absent; 1 = Present
Motor coordination	
Grip strength	0 = None; 1 = Slight grip, semi-effective; 2 = Moderate grip, effective; 3 = Active grip, effective; 4 = Unusually effective
Inverted screen (s)	0-60 = Number of seconds before falling
Wire maneuver	0=Active grip with hindlegs; 1= Difficulty to grasp with handlegs; 2= Unable to grasp with handlegs; 3=Unable to lift
	hindlegs, falls within second; 4= Falls immediately
Wire Hand	0=Active grip with hindlegs; 1= Difficulty to grasp with handlegs; 2= Unable to grasp with handlegs; 3=Unable to lift
	hindlegs, falls within second; 4= Falls immediately
Pole climb	0= Climbs down within 30 sec; 1= Turns and climbd up the pole; 2= Turns but then freezes; 3= Does not move within
	30 seconds or climbs but not off the pole; 4= Falls off.