Combined SHIRPA and Dysmorphology MG P_CSD_001

Purpose

SHIRPA and dysmorphology were originally always separate assessments. However they have recently been combined as assessments, so that they take place at the same time.

The purpose of the assessments is to examine mice for obvious physical characteristics, behaviors and morphological abnormalities.

Descriptions include abnormal locomotion/appearance/behavior/reflex reactions.

Experimental Design

- **Minimum number of animals :** 4M + 4F
- **Age at test:** Week 9
- **Sex:** We would expect the results of this test to show sexual dimorphism

Equipment

- SHIRPA arena
- Click Box
- Tube for contact righting
- Photo and/or video camera

Procedure

1. Allow the mice to acclimatise to the phenotyping room for a period of 15 minutes prior to testing.
2. Throughout the test, note any vocalisation, aggression, salivation or unexpected behaviours.
3. Assess limb grasping/trunk curl and positional passivity by picking up the mouse by the tail. Trunk curl must only be recorded if the mouse curls forward without twisting its body, bending to one side is not scored as a trunk curl.
4. Transfer the mouse to one end of the arena from a height of ~25 cm

5. Allow the mouse to move freely around the arena whilst being observed for gait and tail elevation.
6. To perform the startle response, hold the click box 30 cm above the mouse and wait for it to stop moving before administering the stimulus.
7. Transfer the mouse to the grid placed on top of the clean cage and score reflexes.
8. Allow the mouse to enter a small transparent tube. Gently rotate the tube 180^{o} so the mouse is fully upside down and record if the mouse rights itself.
9. Perform a systematic morphological assessment and record any abnormalities.

Notes

1. If wiping down with ethanol prior to the use of equipment, make sure no ethanol residue remains as the ethanol may affect the behaviour of the animals.
2. The validity of results obtained from behavioural phenotyping is largely dependent on methods of animal husbandry. It is important that individuals following this procedure are experienced and aware of the animal's welfare, and is familiar with the animal being tested, in order to reduce the anxiety levels of the animal prior to testing.
3. The majority of mouse behavioural studies are age/sex/strain dependent. It is important to keep these parameters comparable throughout a single experiment.
4. Environmental factors may contribute to the levels of anxiety within the mouse. The temperature, humidity, ventilation, noise intensity and light intensity must be maintained at levels appropriate for mice. It is essential that the mice be kept in a uniform environment before and after testing to avoid anomalous results being obtained.
5. It is recommended that all phenotyping experimentation is conducted at approximately the same time of day because physiological and biochemical parameters change throughout the day.
6. When a number of mice are tested continuously, residual odours from the equipment used in the preceding test may affect the test results. The floor and walls of the arena, ruler, and metal net should be wiped clean before introducing the next mouse. To prevent infection, the equipment should be washed with water at the completion of the day's tests. Some specific pathogen-free facilities use ultraviolet irradiation when tests are not being performed. Care needs to be taken, however, to ensure that ultraviolet irradiation does not crack any acrylate equipment covered with residual alcohol.

Parameters and Metadata

Positional passivity MGP_CSD_001_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: positional_passivity

Options: Struggles when held by the tail, Struggles when held by the neck, Struggles when laid supine, No struggle,

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Limb grasping MGP_CSD_002_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_grasping

Options: Absent, Present,

Trunk curl MGP_CSD_003_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: trunk_curl

Options: Absent, Present,

Transfer arousal MGP_CSD_004_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: transfer_arousal

Options: As expected, Extended freeze,

Gait (inc. ataxia) MGP_CSD_005_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: gait_inc_ataxia

Options: Fluid movement, Lack of fluidity in movement,

Tail elevation MGP_CSD_006_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_elevation

Options: As expected, Dragging tail, Straub tail,

Tremor MGP_CSD_007_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tremor

Options: Absent, Present,

Startle response MGP_CSD_008_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: startle_response

Options: None, Preyer reflex, Reaction in addition to the Preyer reflex,

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Corneal touch reflex MGP_CSD_009_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: corneal_touch_reflex

Options: Present, Absent,

Pinna touch reflex MGP_CSD_010_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_touch_reflex

Options: Present, Absent,

Contact righting reflex MGP_CSD_011_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: contact_righting_reflex

Options: Present, Absent,

Head bobbing/circling MGP_CSD_012_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_bobbing_circling

Options: Present, Absent,

Convulsions MGP_CSD_013_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: convulsions

Options: Present, Absent,

SHIRPA comment MGP_CSD_014_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: shirpa_comment

Head coat/hair presence MGP_CSD_015_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Head coat/hair colour MGP_CSD_016_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_coat_hair_colour

Options: As expected, Abnormal,

Head coat/hair colour pattern MGP_CSD_017_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_coat_hair_colour_pattern

Options: As expected, Abnormal,

Head coat/hair appearance MGP_CSD_018_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Head coat/hair length MGP_CSD_019_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_coat_hair_length

Options: As expected, Long, Short, Mixed,

Dorsal coat/hair presence MGP_CSD_020_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Dorsal coat/hair colour MGP_CSD_021_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_coat_hair_colour

Options: As expected, Abnormal,

Dorsal coat/hair colour pattern MGP_CSD_022_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_coat_hair_colour_pattern

Options: As expected, Abnormal,

Dorsal coat/hair appearance MGP_CSD_023_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Dorsal coat/hair length MGP_CSD_024_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_coat_hair_length

Options: As expected, Long, Short, Mixed,

Ventral coat/hair presence MGP_CSD_025_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Ventral coat/hair colour MGP_CSD_026_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_coat_hair_colour

Options: As expected, Abnormal,

Ventral coat/hair colour pattern MGP_CSD_027_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_coat_hair_colour_pattern

Options: As expected, Abnormal,

Ventral coat/hair appearance MGP_CSD_028_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Ventral coat/hair length MGP_CSD_029_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_coat_hair_length

Options: As expected, Long, Short, Mixed,

Limb coat/hair presence MGP_CSD_030_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

---

Limb coat/hair colour MGP_CSD_031_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_coat_hair_colour

Options: As expected, Abnormal,

Limb coat/hair colour pattern MGP_CSD_032_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_coat_hair_colour_pattern

Options: As expected, Abnormal,

Limb coat/hair appearance MGP_CSD_033_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Limb coat/hair length MGP_CSD_034_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_coat_hair_length

Options: As expected, Long, Short, Mixed,

Paw coat/hair presence MGP_CSD_035_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Paw coat/hair colour MGP_CSD_036_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_coat_hair_colour

Options: As expected, Abnormal,

Paw coat/hair colour pattern MGP_CSD_037_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_coat_hair_colour_pattern

Options: As expected, Abnormal,

Paw coat/hair appearance MGP_CSD_038_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Paw coat/hair length MGP_CSD_039_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_coat_hair_length

Options: As expected, Long, Short, Mixed,

Digit coat/hair presence MGP_CSD_040_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: digit_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Digit coat/hair colour MGP_CSD_041_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: digit_coat_hair_colour

Options: As expected, Abnormal,

Digit coat/hair colour pattern MGP_CSD_042_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: digit_coat_hair_colour_pattern

Options: As expected, Abnormal,

Digit coat/hair appearance MGP_CSD_043_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: digit_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

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Digit coat/hair length MGP_CSD_044_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: digit_coat_hair_length

Options: As expected, Long, Short, Mixed,

Tail coat/hair presence MGP_CSD_045_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_coat_hair_presence

Options: As expected, Patchy, Sparse, Patchy & sparse, Absent, Other abnormalities,

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Tail coat/hair colour MGP_CSD_046_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_coat_hair_colour

Options: As expected, Abnormal,

Tail coat/hair colour pattern MGP_CSD_047_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_coat_hair_colour_pattern

Options: As expected, Abnormal,

Tail coat/hair appearance MGP_CSD_048_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_coat_hair_appearance

Options: As expected, Rough, Matted, Waved, Other abnormal coat appearances,

Tail coat/hair length MGP_CSD_049_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_coat_hair_length

Options: As expected, Long, Short, Mixed,

Head skin appearance MGP_CSD_050_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Head skin colour MGP_CSD_051_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_skin_colour

Options: As expected, Abnormal,

Pinna skin appearance MGP_CSD_052_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Pinna skin colour MGP_CSD_053_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_skin_colour

Options: As expected, Abnormal,

Dorsal skin appearance MGP_CSD_054_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

Dorsal skin colour MGP_CSD_055_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: dorsal_skin_colour

Options: As expected, Abnormal,

Ventral skin appearance MGP_CSD_056_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Ventral skin colour MGP_CSD_057_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: ventral_skin_colour

Options: As expected, Abnormal,

Limb skin appearance MGP_CSD_058_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Limb skin colour MGP_CSD_059_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: limb_skin_colour

Options: As expected, Abnormal,

Paw footpad skin appearance MGP_CSD_060_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_footpad_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Paw footpad skin colour MGP_CSD_061_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: paw_footpad_skin_colour

Options: As expected, Abnormal,

Tail skin appearance MGP_CSD_062_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_skin_appearance

Options: As expected, Dry, Wet, Scaly, Loose, Other abnormal skin appearance,

---

Tail skin colour MGP_CSD_063_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_skin_colour

Options: As expected, Abnormal,

Head morphology MGP_CSD_064_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_morphology

Options: As expected, Abnormal,

Head size MGP_CSD_065_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: head_size

Options: As expected, Increased size, Decreased size,

Snout morphology MGP_CSD_066_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: snout_morphology

Options: As expected, Abnormal,

Snout size MGP_CSD_067_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: snout_size

Options: As expected, Increased size, Decreased size,

Vibrissae MGP_CSD_068_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: vibrissae

Options: As expected, Sparse, Absent,

Vibrissae size MGP_CSD_069_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: vibrissae_size

Options: As expected, Increased size, Decreased size,

Vibrissae shape MGP_CSD_070_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: vibrissae_shape

Options: As expected, Curly, Disorientated, Other abnormal shape,

---

Vibrissae colour MGP_CSD_071_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: vibrissae_colour

Options: As expected, Abnormal,

Mouth morphology MGP_CSD_072_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: mouth_morphology

Options: As expected, Cleft lip, Other abnormal mouth morphology,

---

Incisors MGP_CSD_073_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: incisors

Options: As expected, Partly present, Absent,

Incisors morphology MGP_CSD_074_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: incisors_morphology

Options: As expected, Malocclusion, Other abnormal incisors morphology,

---

Incisor colour MGP_CSD_075_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: incisor_colour

Options: As expected, Abnormal,

Pinna MGP_CSD_076_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna

Options: Present, Absent,

Pinna size MGP_CSD_077_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_size

Options: As expected, Increased size, Decreased size,

Pinna morphology MGP_CSD_078_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_morphology

Options: As expected, Abnormal,

Pinna position MGP_CSD_079_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_position

Options: As expected, Abnormal,

Pinna rotation MGP_CSD_080_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: pinna_rotation

Options: As expected, Abnormal,

External genitalia MGP_CSD_081_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: external_genitalia

Options: Present, Absent,

External genitalia morphology MGP_CSD_082_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: external_genitalia_morphology

Options: As expected, Abnormal,

External genitalia size MGP_CSD_083_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: external_genitalia_size

Options: As expected, Increased size, Decreased size,

Forelimb MGP_CSD_084_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forelimb

Options: Present, Absent,

Forelimb size MGP_CSD_085_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forelimb_size

Options: As expected, Increased size, Decreased size,

Forelimb morphology MGP_CSD_086_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forelimb_morphology

Options: As expected, Abnormal,

Forepaw MGP_CSD_087_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw

Options: Present, Absent,

Forepaw size MGP_CSD_088_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_size

Options: As expected, Increased size, Decreased size,

Forepaw morphology MGP_CSD_089_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_morphology

Options: As expected, Abnormal,

Forepaw footpad size MGP_CSD_090_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_footpad_size

Options: As expected, Increased size, Decreased size,

Forepaw digit count MGP_CSD_091_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_digit_count

Options: As expected, Less than 10, Greater than 10,

Forepaw digit size MGP_CSD_092_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_digit_size

Options: As expected, Increased size, Decreased size,

Forepaw digit morphology MGP_CSD_093_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_digit_morphology

Options: As expected, Abnormal,

Forepaw digit fusion MGP_CSD_094_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_digit_fusion

Options: Present, Absent,

Forepaw nail count MGP_CSD_095_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_nail_count

Options: As expected, Abnormal,

Forepaw nail length MGP_CSD_096_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_nail_length

Options: As expected, Increased, Decreased,

Forepaw nail morphology MGP_CSD_097_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_nail_morphology

Options: As expected, Abnormal,

Forepaw nail colour MGP_CSD_098_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: forepaw_nail_colour

Options: As expected, Abnormal,

Hindlimb MGP_CSD_099_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindlimb

Options: Present, Absent,

Hindlimb size MGP_CSD_100_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindlimb_size

Options: As expected, Increased size, Decreased size,

Hindlimb morphology MGP_CSD_101_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindlimb_morphology

Options: As expected, Abnormal,

Hindpaw MGP_CSD_102_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw

Options: Present, Absent,

Hindpaw size MGP_CSD_103_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_size

Options: As expected, Increased size, Decreased size,

Hindpaw morphology MGP_CSD_104_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_morphology

Options: As expected, Abnormal,

Hindpaw footpad size MGP_CSD_105_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_footpad_size

Options: As expected, Increased size, Decreased size,

Hindpaw digit count MGP_CSD_106_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_digit_count

Options: As expected, Less than 10, Greater than 10,

Hindpaw digit size MGP_CSD_107_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_digit_size

Options: As expected, Increased size, Decreased size,

Hindpaw digit morphology MGP_CSD_108_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_digit_morphology

Options: As expected, Abnormal,

Hindpaw digit fusion MGP_CSD_109_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_digit_fusion

Options: Present, Absent,

Hindpaw nail count MGP_CSD_110_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_nail_count

Options: As expected, Abnormal,

Hindpaw nail length MGP_CSD_111_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_nail_length

Options: As expected, Increased, Decreased,

Hindpaw nail morphology MGP_CSD_112_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_nail_morphology

Options: As expected, Abnormal,

Hindpaw nail colour MGP_CSD_113_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: hindpaw_nail_colour

Options: As expected, Abnormal,

Tail MGP_CSD_114_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail

Options: Present, Absent,

Tail length MGP_CSD_115_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_length

Options: As expected, Increased, Decreased,

Tail morphology MGP_CSD_116_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Description: tail_morphology

Options: As expected, Kinked, Curved, Other abnormal tail morphology,

Dysmorphology comment MGP_CSD_117_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: dysmorphology_comment

Location of test MGP_CSD_118_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: location_of_test

Options: LAF cabinet,

Experimenter ID MGP_CSD_119_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: experimenter_id

Eyelid Opening MGP_CSD_120_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: As expected, Abnormal,

Eye Morphology MGP_CSD_121_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: As expected, Abnormal,
