Body Surface Temperature HMGULA_BST_001

Purpose

Overall indicator marker of animal health (changes in temperature correlate with severity of disease in many murine models).

Experimental Design

- **Minimum number of animals :** 7M +7F
- **Age at test:**Week 73
- **Sex:** We do not expect the results of this test to show sexual dimorphism.

Procedure

1. The respective mouse is identified via the ear tag.
2. The mouse is isolated and 3 images per mouse are taken (using Infrared thermography (IRT), high resolution A655sc FLIR infrared camera) as soon as the eyes are visible, and their four feet are on the floor.
3. The average of the whole body surface temperature and the maximum temperature (at the eyes) are used to evaluate the phenotype.

Notes

passive, remote, and non invasive method

Parameters and Metadata

Average body surface temperature HMGULA_BST_001_001 | v1.0

simpleParameter

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

Unit Measured: C

Maximum body surface temperature HMGULA_BST_002_001 | v1.0

simpleParameter

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

Unit Measured: C

Grade of alopecia HMGULA_BST_003_001 | v1.0

simpleParameter

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

Options: no alopecia (normal situation), grade 1, grade 2, grade 3, naked (without fur),

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Minimum body surface temperature HMGULA_BST_004_001 | v1.0

simpleParameter

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

Unit Measured: C

Comment BST HMGULA_BST_005_001 | v1.0

simpleParameter

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

Experimenter IR camera HMGULA_BST_006_001 | v1.0

procedureMetadata

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

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Date and time of measurement HMGULA_BST_007_001 | v1.0

procedureMetadata

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

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Infrared image storage directory HMGULA_BST_008_001 | v1.0

procedureMetadata

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

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Equipment ID infrared camera HMGULA_BST_009_001 | v1.0

procedureMetadata

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

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Equipment model infrared camera HMGULA_BST_010_001 | v1.0

procedureMetadata

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

Options: A655sc/25°,

Equipment manufacturer infrared camera HMGULA_BST_011_001 | v1.0

procedureMetadata

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

Options: FLIR,

Lower temperature cutoff HMGULA_BST_012_001 | v1.0

procedureMetadata

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

Unit Measured: C

Options: 25°,

Environment at body surface temperature analysis HMGULA_BST_014_001 | v1.0

procedureMetadata

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

Options: bedding material, plain plastic beaker, CCC,

Area of temperature analysis HMGULA_BST_015_001 | v1.0

procedureMetadata

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

Options: Whole mouse body, Eyes, Neck, Tail, Palm, Ears,

Coat condition HMGULA_BST_016_001 | v1.0

procedureMetadata

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

Options: Shaved, Not shaved,
