

DSS Histology DSS_DSS_001

Purpose

Dextran Sodium Sulphate (DSS) Histology

Experimental Design

Mutant mice and wild-type controls (2 female and 2 males/group)

Procedure

Mutant mice and wild-type controls (2 female and 2 males/group) receive 1.5% dextran sodium sulphate (DSS) in drinking water for 7 days.

Weights are recorded daily and any mice that have lost greater than 20% or that exhibit clinical signs are sacrificed.

At day 10 mice are sacrificed and samples from the medial and distal gut are collected for histological analysis.

A pathology scoring system is used to assess the effect of the DSS in a blinded manner.

Parameters and Metadata

Section 1 Epithelium DSS_DSS_001_001 | v1.0

simpleParameter

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

Description: section_1_epithelium

Section 1 Lamina Propria DSS_DSS_002_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_1_lamina_propria

Section 1 Area DSS_DSS_003_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_1_area

Section 1 Severe Markers DSS_DSS_004_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_1_severe_markers

Section 2 Epithelium DSS_DSS_005_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_2_epithelium

Section 2 Lamina Propria DSS_DSS_006_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_2_lamina_propria

Section 2 Area DSS_DSS_007_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_2_area

Section 2 Severe Markers DSS_DSS_008_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: section_2_severe_markers

Total section 1 score DSS_DSS_009_001 | v1.0

simpleParameter

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

Description: total_section_1_score

Derivation: archived('Sum of Section 1 scores')

Total section 2 score DSS_DSS_010_001 | v1.0

simpleParameter

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

Description: total_section_2_score

Derivation: archived('Sum of Section 2 scores')

Average histology score DSS_DSS_011_001 | v1.1

simpleParameter

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

Description: average_histology_score

Derivation: archived('Average of total section 1 and total section 2 scores')

Comment DSS_DSS_012_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: comment

One Section Only DSS_DSS_013_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: one_section_only

Options: No, Yes,

Pre-Day 10 Death DSS_DSS_014_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: pre_day_10_death

Options: No, Yes,

DSS concentration DSS_DSS_015_001 | v1.0

procedureMetadata

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

Unit Measured: w/v

Description: dss_concentration

Options: 1.5 % (w/v), 2.0 % (w/v),

DSS source DSS_DSS_016_001 | v1.0

procedureMetadata

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

Description: dss_source

Options: Affymetrix (Cat. #14489), MP Biomedicals (Cat. #9011-18-1),

Microscope DSS_DSS_017_001 | v1.0

procedureMetadata

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

Description: microscope

Options: Zeiss Axioplan, Leica SP2, Leica SP5, Nikon wide-field inverted TE2000U, Leica DFC300FX (12730046),

Images DSS_DSS_018_001 | v1.0

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Increments: Minimum 1

DSS weight loss curve DSS_DSS_019_001 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: % weight difference

Increments: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9,
