Gross Morphology Placenta E12.5 IMPC_GP M_001

Purpose

To assess visible morphological defects in E12.5 placentas from lethal strains

Experimental Design

- Set up timed matings with heterozygous mice
- Day 0 is defined as the midpoint of the prior dark cycle following the identification of a copulation plug.
- Minimum number of animals: 1 mutant of any sex
- **Age at test:** E12.5
- Capture gross images (optional)
- Collect tissue and genotype embryos.

Procedure

- 1. Set up timed mating with heterozygous animals. Dissect at a consistent time and collect >=2 placentas from homozygote embryos. Coordination with viability screen is at the centres discretion.
- 2. Assess placentas according to Gross Morphology parameters.
- 3. Generate gross images of placentas (optional) with scored defects and control placentas.
- 4. Collect tissue for genotyping
- 5. Process placentas for Histopathology, or other imaging (OPTIONAL depending on center pipeline)
- 6. Scores will be shown per placenta and split by zygosity.

Notes

All genotypes should be collected using validated assays.

Y chromosome assay required for X-linked lethal strains.

Placentas may be processed for Histopathology or 3D Imaging

Parameters and Metadata

Placenta Development IMPC_GPM_001_001 | v1.0

simpleParameter

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

Description: placenta_development

Options: normal, abnormal, unobservable,

Placenta Morphology IMPC_GPM_002_001 | v1.0

simpleParameter

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

Description: placenta_morphology

Options: normal, abnormal, unobservable,

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Placenta Vasculature IMPC_GPM_003_001 | v1.0

simpleParameter

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

Description: placenta_vasculature

Options: normal, abnormal, unobservable,		
Placenta Size IMPC_simpleParameter	_GPM_004_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Description: placenta_size		
Options: normal, abnormal, u	unobservable,	
Umbilical cord morphology IMPC_GPM_005_001 v1.0 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Description: umbilical_cord_	_morphology	

Options: normal, abnormal, unobservable,

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Comment on image IMPC_GPM_006_001 | v1.0

simpleParameter

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

Description: comment_on_image

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Images IMPC_GPM_007_001 | v1.0

seriesMediaParameter

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

Description: images

Increments: Minimum 1

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Experimenter ID IMPC_GPM_008_001 | v1.0

procedureMetadata

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

Description: experimenter_id

Equipment ID IMPC_GPM_009_001 | v1.0

procedureMetadata

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

Description: equipment_id

Equipment Manufacturer IMPC_GPM_010_001 | v1.0

procedureMetadata

Req. Analysis: false Req. Upload: true Is Annotated: false **Description:** equipment_manufacturer Equipment Model IMPC_GPM_011_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false **Description:** equipment_model Fixative IMPC_GPM_012_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false **Description:** fixative

Time of Dissection IMPC_GPM_013_001 | v1.0

Req. Analysis: false Req. Upload: true **Is Annotated:** false **Description:** time_of_dissection Somite Stage IMPC_GPM_014_001 | v1.1 procedureMetadata Reg. Analysis: false Reg. Upload: false Is Annotated: false **Description:** somite_stage Time of dark cycle start IMPC_GPM_015_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false **Description:** time_of_dark_cycle_start

Time of dark cycle end IMPC_GPM_016_001 | v1.0

procedureMetadata

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

Description: time_of_dark_cycle_end

Date equipment last calibrated IMPC_GPM_017_001 | v1.1 procedureMetadata

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

Description: date_equipment_last_calibrated

Placenta color IMPC_GPM_018_001 | v1.0 simpleParameter

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

Options: normal, abnormal, unobservable,