Gross Morphology Placenta E14.5-E15.5 IM PC_GPO_001

Purpose

To assess visible morphological defects in E14.5-15.5 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: E14.5-E15.5
- 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_GPO_001_001 | v1.0

simpleParameter

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

Options: unobservable, abnormal, normal,

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Time of Dissection IMPC_GPO_013_001 | v1.0

procedureMetadata

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

Date equipment last calibrated IMPC_GPO_017_001 | v1.1

procedureMetadata

Req. Analysis: false	Req. Upload: false	Is Annotated: false
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Fixative IMPC_GPO_012_001 | v1.0

procedureMetadata

Req. Analysis: falseReq. Upload: trueIs Annotated: false

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Comment on image IMPC_GPO_006_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Time of dark cycle	end IMPC_GPO_016_001	v1.0

procedureMetadata

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

Pale placenta IMPC_GPO_018_001 | v1.0

simpleParameter

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

Options: unobservable, yes, no,

Equipment ID IMPC_GPO_009_001 | v1.0

procedureMetadata

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

Equipment Manufacturer IMPC_GPO_010_001 | v1.0

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Somite Stage IMPC_C	GPO_014_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Experimenter ID IMF procedureMetadata	PC_GPO_008_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Images IMPC_GPO_007 seriesMediaParameter	_001 v1.0	

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

Increments: Minimum 1

Time of dark cycle start IMPC_GPO_015_001 | v1.0

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Placenta Morpholo	gy IMPC_GPO_002_001	v1.0
simpleParameter		
Den Analysia (also	Den Unleads false	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Options: unobservable, abnor	rmal, normal,	
Placenta Size IMPC_	GPO 004 001 Lv1.0	
simpleParameter	0. 0_0000. 11.0	

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

Options: unobservable, normal, abnormal,

Equipment Model IMPC_GPO_011_001 | v1.0

procedureMetadata

Umbilical cord morphology IMPC_GPO_005_001 | v1.0

simpleParameter

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

Options: normal, unobservable, abnormal,

Placenta Vasculature IMPC_GPO_003_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true Options: unobservable, abnormal, normal,