Gross Morphology Placenta E9.5 IMPC_GPL_001

Purpose

To assess visible morphological defects in E9.5 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:** E9.5 and Younger
- 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

Date equipment last calibrated IMPC_GPL_017_001 | v1.1

procedureMetadata

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

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Comment on image IMPC_GPL_006_001 | v1.0

simpleParameter

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

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Time of Dissection IMPC_GPL_013_001 | v1.0

procedureMetadata

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Images IMPC_GPL_007_001 | v1.0

seriesMediaParameter

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Increments: Minimum 1

Placenta Size IMPC_GPL_004_001 | v1.0

simpleParameter

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Options: abnormal, normal, unobservable,

Somite Stage IMPC_GPL_014_001 | v1.0

procedureMetadata

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Equipment ID IMPC_GPL_009_001 | v1.0

procedureMetadata

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Placenta Vasculature IMPC_GPL_003_001 | v1.0

simpleParameter

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Options: normal, abnormal, unobservable,

Placenta Development IMPC_GPL_001_001 | v1.0

simpleParameter

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Options: normal, abnormal, unobservable,

Time of dark cycle end IMPC_GPL_016_001 | v1.0

procedureMetadata

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Placenta Morphology IMPC_GPL_002_001 | v1.0

simpleParameter

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Options: unobservable, abnormal, normal,

Fixative IMPC_GPL_012_001 | v1.0

procedureMetadata

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Umbilical cord morphology IMPC_GPL_005_001 | v1.0

simpleParameter

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Options: normal, abnormal, unobservable,

Equipment Model IMPC_GPL_011_001 | v1.0

procedureMetadata

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Equipment Manufacturer IMPC_GPL_010_001 | v1.0

procedureMetadata

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Time of dark cycle start IMPC_GPL_015_001 | v1.0

procedureMetadata

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Experimenter ID IMPC_GPL_008_001 | v1.0

procedureMetadata

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