Gross Morphology Placenta E18.5 IMPC_GPP_001

Purpose

To assess visible morphological defects in E18.5 placentas from lethal or subviable 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:** E18.5 and Older
- 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

Comment on image IMPC_GPP_006_001 | v1.0

simpleParameter

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

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Time of dark cycle start IMPC_GPP_015_001 | v1.0

procedureMetadata

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

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Equipment Manufacturer IMPC_GPP_010_001 | v1.0

procedureMetadata

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

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Time of dark cycle end IMPC_GPP_016_001 | v1.0

procedureMetadata

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

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Time of Dissection IMPC_GPP_013_001 | v1.0

procedureMetadata

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

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Equipment Model IMPC_GPP_011_001 | v1.0

procedureMetadata

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

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Fixative IMPC_GPP_012_001 | v1.0

procedureMetadata

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

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Date equipment last calibrated IMPC_GPP_017_001 | v1.1

procedureMetadata

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Placenta Size IMPC_GPP_004_001 | v1.0

simpleParameter

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Options: abnormal, normal, unobservable,

Placenta Morphology IMPC_GPP_002_001 | v1.0

simpleParameter

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

Options: normal, unobservable, abnormal,

Placenta color IMPC_GPP_018_001 | v1.0

simpleParameter

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

Options: normal, unobservable, abnormal,

Placenta Vasculature IMPC_GPP_003_001 | v1.0

simpleParameter

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Options: normal, abnormal, unobservable,

Experimenter ID IMPC_GPP_008_001 | v1.0

procedureMetadata

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Images IMPC_GPP_007_001 | v1.0

seriesMediaParameter

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Increments: Minimum 1

Equipment ID IMPC_GPP_009_001 | v1.0

procedureMetadata

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Umbilical cord morphology IMPC_GPP_005_001 | v1.0

simpleParameter

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Options: unobservable, normal, abnormal,

Somite Stage IMPC_GPP_014_001 | v1.1

procedureMetadata

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Placenta Development IMPC_GPP_001_001 | v1.0

simpleParameter

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Options: unobservable, normal, abnormal,
