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
Time of dark cycle start IMPC_GPP_015_001 v1.0 procedureMetadata		
Req. Analysis: false	Req. Upload: true	Is Annotated: false

Equipment Manufacturer IMPC_GPP_010_001 | v1.0

procedureMetadata

Req. Analysis:	false	Req.	Uploa
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ad: true Is Annotated: false

Time of dark cycle end IMPC_GPP_016_001 | v1.0

procedureMetadata

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

Time of Dissection IMPC_GPP_013_001 | v1.0

procedureMetadata

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Equipment Model I procedureMetadata	MPC_GPP_011_001 v1.0		
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Fixative IMPC_GPP_012_001 v1.0 procedureMetadata			
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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

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Options: abnormal, normal, u	nobservable,	
Placenta Morpholo simpleParameter	gy ואפכ_GPP_002_001 א	/1.0
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, unobservabl	le, abnormal,	

Placenta Vasculature IMPC_GPP_003_001 | v1.0

simpleParameter

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Options: normal, abnormal, unobservable,

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Experimenter ID IMPC_GPP_008_001 v1.0 procedureMetadata		
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Images IMPC_GPP_007 seriesMediaParameter	_001 v1.0	
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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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 Is Annotated: true

 Options: unobservable, normal, abnormal,