Gross Morphology Placenta E12.5 IMPC_G PM_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


Description: placenta_development

Options: normal, abnormal, unobservable,

**Placenta Morphology**  IMPC_GPM_002_001 | v1.0

simpleParameter


Description: placenta_morphology

Options: normal, abnormal, unobservable,

**Placenta Vasculature**  IMPC_GPM_003_001 | v1.0

simpleParameter


Description: placenta_vasculature

Options: normal, abnormal, unobservable,
**Placenta Size** IMPC_GPM_004_001 | v1.0

- **Description**: placenta_size
- **Options**: normal, abnormal, unobservable,

**Umbilical cord morphology** IMPC_GPM_005_001 | v1.0

- **Description**: umbilical_cord_morphology
- **Options**: normal, abnormal, unobservable,

**Comment on image** IMPC_GPM_006_001 | v1.0

- **Description**: comment_on_image

**Images** IMPC_GPM_007_001 | v1.0
Description: images
Increments: Minimum 1

**Experimenter ID** IMPC_GPM_008_001 | v1.0
procedureMetadata

Description: experimenter_id

**Equipment ID** IMPC_GPM_009_001 | v1.0
procedureMetadata

Description: equipment_id

**Equipment Manufacturer** IMPC_GPM_010_001 | v1.0
procedureMetadata

Description: equipment_manufacturer
Equipment Model IMPC_GPM_011_001 | v1.0


Description: equipment_model

Fixative IMPC_GPM_012_001 | v1.0


Description: fixative

Time of Dissection IMPC_GPM_013_001 | v1.0


Description: time_of_dissection

Somite Stage IMPC_GPM_014_001 | v1.1

Description: somite_stage

Time of dark cycle start IMPC_GPM_015_001 | v1.0
procedureMetadata


Description: time_of_dark_cycle_start

Time of dark cycle end IMPC_GPM_016_001 | v1.0
procedureMetadata


Description: time_of_dark_cycle_end

Date equipment last calibrated IMPC_GPM_017_001 | v1.1
procedureMetadata


Description: date_equipment_last_calibrated
Placenta color IMPC_GPM_018_001 | v1.0

simpleParameter


Options: normal, abnormal, unobservable,