MicroCT E18.5 IMPC_EMA_001

Purpose

To assess morphological defects in E18.5 embryos from lethal or subviable strains with MicroCT.

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.
- Collect embryos at E18.5 with 3 minimum homozygous and 1 littermate control
- Ensure embryos are bleed as much as possible.
- Reconstruct the scans according to manufacturer's instructions.

Procedure

1. Set up timed mating with heterozygous animals. Dissect and collect >=3 homozygote embryos.
2. Process the embryos using the centre’s staining and embedding protocol. Centre-specific methods are recorded within a document
3. Scan and generate reconstructions of embryos.

Notes

Embryos may be processed for Histopathology.

Parameters and Metadata

**Embryo reconstruction** IMPC_EMA_001_001 | v1.1

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<th>Is Annotated</th>
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**Increments**: Minimum 1
**Experimenter ID**  IMPC_EMA_002_001 | v1.0

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**Equipment ID**  IMPC_EMA_003_001 | v1.0

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**Equipment Manufacturer**  IMPC_EMA_004_001 | v1.0

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**Equipment Model**  IMPC_EMA_005_001 | v1.0

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**Equipment Version**  IMPC_EMA_006_001 | v1.0
**E18.5 MicroCT Preparation protocol**  IMPC_EMA_008_001  |  v1.0

**Date equipment last calibrated**  IMPC_EMA_009_001  |  v1.0

**Date of Sacrifice**  IMPC_EMA_010_001  |  v1.0
**Date Preparation Finished** IMPC_EMA_011_001 | v1.0

**Date of Scan** IMPC_EMA_012_001 | v1.0

**Source Voltage** IMPC_EMA_013_001 | v1.0

**Source Current** IMPC_EMA_014_001 | v1.1

**Unit Measured:** kV
**Object to Source**  IMPC_EMA_015_001 | v1.0

**Unit Measured**: uA

**Camera to Source**  IMPC_EMA_016_001 | v1.1

**Unit Measured**: mm

**Screenshots**  IMPC_EMA_017_001 | v1.1

**Series Media Parameter**
Increments: Minimum 1