MicroCT E14.5-E15.5 IMPC_EMO_001

Purpose

To assess morphological defects in E14.5-E15.5 embryos from lethal 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 E14.5 or E15.5 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_EMO_001_001 | v1.2


Increments: Minimum 1
Image Pixel Size IMPC_EMO_007_001 | v1.0

**procedureMetadata**

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

Unit Measured: µm

---

E14.5-E15.5 MicroCT Preparation protocol IMPC_EMO_008_001

| v1.0

**procedureMetadata**

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

---

Object to Source IMPC_EMO_009_001 | v1.0

**procedureMetadata**

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

Unit Measured: mm

---

Camera to Source IMPC_EMO_010_001 | v1.0

**procedureMetadata**

- Req. Analysis: false
- Req. Upload: true
- Is Annotated: false
Unit Measured: mm

Date equipment last calibrated IMPC_EMO_011_001 | v1.0

Date of Sacrifice IMPC_EMO_012_001 | v1.0

Date Preparation Finished IMPC_EMO_013_001 | v1.0

Date of Scan IMPC_EMO_014_001 | v1.0
**Source Voltage** IMPC_EMO_015_001 | v1.1

*procedureMetadata*

**Source Current** IMPC_EMO_016_001 | v1.0

*procedureMetadata*

**Screenshots** IMPC_EMO_017_001 | v1.1

*seriesMediaParameter*