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
Experimenter ID  IMPC_EMO_002_001 | v1.0

Equipment ID  IMPC_EMO_003_001 | v1.0

Equipment Manufacturer  IMPC_EMO_004_001 | v1.0

Equipment Model  IMPC_EMO_005_001 | v1.0

Equipment Version  IMPC_EMO_006_001 | v1.0
Image Pixel Size IMPC_EMO_007_001 | v1.0

**Unit Measured:** μm

E14.5-E15.5 MicroCT Preparation protocol IMPC_EMO_008_001 | v1.0

**Unit Measured:** mm

Object to Source IMPC_EMO_009_001 | v1.0
**Date of Scan** IMPC_EMO_014_001 | v1.0

**Source Voltage** IMPC_EMO_015_001 | v1.1

**Source Current** IMPC_EMO_016_001 | v1.0

**Screenshots** IMPC_EMO_017_001 | v1.1

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**Source Voltage** IMPC_EMO_015_001 | v1.1

**Unit Measured:** kV

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**Source Current** IMPC_EMO_016_001 | v1.0

**Unit Measured:** uA

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**Screenshots** IMPC_EMO_017_001 | v1.1

**Increments:** Minimum 1