MicroCT E9.5 IMPC_EML_001

Purpose
To assess morphological defects in E9.5 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 E9.5 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

Source Current IMPC_EML_016_001 | v1.0


Unit Measured: uA
**Camera to Source** IMPC_EML_010_001 | v1.0

*procedureMetadata*

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

Unit Measured: mm

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**E9.5 MicroCT Preparation protocol** IMPC_EML_008_001 | v1.0

*procedureMetadata*

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

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**Experimenter ID** IMPC_EML_002_001 | v1.0

*procedureMetadata*

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

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**Equipment Version** IMPC_EML_006_001 | v1.0

*procedureMetadata*

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

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Date equipment last calibrated IMPC_EML_011_001 | v1.0
procedureMetadata


Screenshots IMPC_EML_017_001 | v1.1
seriesMediaParameter


Source Voltage IMPC_EML_015_001 | v1.1
procedureMetadata

Unit Measured: kV

Equipment Manufacturer IMPC_EML_004_001 | v1.0
procedureMetadata

Date of Sacrifice IMPC_EML_012_001 | v.1.0

Date Preparation Finished IMPC_EML_013_001 | v.1.0

Embryo reconstruction IMPC_EML_001_001 | v.1.2

Equipment ID IMPC_EML_003_001 | v.1.0

Date of Scan IMPC_EML_014_001 | v.1.0
Equipment Model IMPC_EML_005_001 | v1.0

Object to Source IMPC_EML_009_001 | v1.0

Image Pixel Size IMPC_EML_007_001 | v1.0