**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**

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

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**Date of Sacrifice** IMPC_EML_012_001 | v1.0
Date of Scan | IMPC_EML_014_001 | v1.0

Source Voltage | IMPC_EML_015_001 | v1.1

Source Current | IMPC_EML_016_001 | v1.0
Equipment Version  IMPC_EML_006_001 | v1.0


Screenshots  IMPC_EML_017_001 | v1.1


Equipment Model  IMPC_EML_005_001 | v1.0


Date Preparation Finished  IMPC_EML_013_001 | v1.0


Image Pixel Size  IMPC_EML_007_001 | v1.0

Unit Measured: \( \mu \text{m} \)

**Equipment Manufacturer** IMPC_EML_004_001 | v1.0

**Camera to Source** IMPC_EML_010_001 | v1.0

**Date equipment last calibrated** IMPC_EML_011_001 | v1.0
**Experimenter ID** IMPC_EML_002_001 | v1.0
procedureMetadata

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

**Embryo reconstruction** IMPC_EML_001_001 | v1.2
seriesMediaParameter

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

**Object to Source** IMPC_EML_009_001 | v1.0
procedureMetadata

Unit Measured: mm

**Equipment ID** IMPC_EML_003_001 | v1.0
procedureMetadata

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