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

procedureMetadata

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

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Date of Scan IMPC_E procedureMetadata	:ML_014_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Source Voltage IMP	C_EML_015_001 v1.1	
procedureMetadata		
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: kV		
Source Current IMP procedureMetadata	C_EML_016_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: uA		

Equipment Version IMPC_EML_006_001 | v1.0

procedureMetadata

	Req. Upload: true			
Screenshots IMPC_E seriesMediaParameter	ML_017_001 v1.1			
Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Equipment Model IMPC_EML_005_001 v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Date Preparation F procedureMetadata	inished IMPC_EML_013	_001 v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: false		

Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Unit Measured: μm				
Equipment Manufacturer IMPC_EML_004_001 v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Camera to Source procedureMetadata	IMPC_EML_010_001 v1.0			
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Unit Measured: mm				
Date equipment last calibrated IMPC_EML_011_001 v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: false	Is Annotated: false		

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				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Unit Measured: mm				
Equipment ID IMPC_EML_003_001 v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		