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

seriesMediaParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Increments: Minimum 1		

Experimenter ID IMPC_EMO_002_001 | v1.0

procedureMetadata

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Equipment ID IMPC_I procedureMetadata	EMO_003_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Equipment Manufa	cturer IMPC_EMO_004_0	001 v1.0
procedureMetadata		
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Equipment Model II procedureMetadata	MPC_EMO_005_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false

Equipment Version IMPC_EMO_006_001 | v1.0

procedureMetadata

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Image Pixel Size IM procedureMetadata	PC_EMO_007_001 v1.0	
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Unit Measured: μm		

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

v1.0

procedureMetadata

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Object to Source IN procedureMetadata	IPC_EMO_009_001 v1.0	
procedurentetadata		
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			
Dete equipment les			
procedureMetadata	st calibrated IMPC_EM	O_011_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: false	
Date of Sacrifice IMPC_EMO_012_001 v1.0			
	Req. Upload: true	Is Annotated: false	
Trog. Analysis. 10100			

Date Preparation Finished IMPC_EMO_013_001 | v1.0

procedureMetadata

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

Date of Scan IMPC_EMO_014_001 | v1.0

procedureMetadata

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Source Voltage IMP	C_EMO_015_001 v1.1	
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Unit Measured: kV		
Source Current IMP	C_EMO_016_001 v1.0	
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Unit Measured: uA		
Screenshots IMPC_E seriesMediaParameter	MO_017_001 v1.1	
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Increments:	Minimum	1
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