# 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

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: uA		
onit metabulet. art		

## Camera to Source IMPC\_EML\_010\_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: mm		
E9.5 MicroCT Prepa procedureMetadata	aration protocol IMP	C_EML_008_001  v1.0
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Experimenter ID IMP procedureMetadata	PC_EML_002_001   v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Equipment Version IMPC_EML_006_001   v1.0 procedureMetadata		
Req. Analysis: false	Req. Upload: true	Is Annotated: false

# Date equipment last calibrated IMPC\_EML\_011\_001 | v1.0

Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Screenshots IMPC_EML_017_001   v1.1 seriesMediaParameter				
Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Source Voltage IMPC_EML_015_001   v1.1 procedureMetadata				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Unit Measured: kV				
Equipment Manufacturer IMPC_EML_004_001   v1.0				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		

# Date of Sacrifice IMPC\_EML\_012\_001 | v1.0

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false	
Date Preparation Finished IMPC_EML_013_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	
Equipment ID IMPC_ procedureMetadata	EML_003_001   v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: false	

### Date of Scan IMPC\_EML\_014\_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false	
Equipment Model II procedureMetadata	MPC_EML_005_001   v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: false	
Object to Source IN procedureMetadata	1PC_EML_009_001   v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: false	
Unit Measured: mm			
Image Pixel Size IMPC_EML_007_001   v1.0 procedureMetadata			
Req. Analysis: false	Req. Upload: true	Is Annotated: false	
Unit Measured: µm			