## 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

Req. Analysis: false Req. Upload: true Is Annotated: false Equipment ID IMPC\_EMO\_003\_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false Equipment Manufacturer IMPC\_EMO\_004\_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false Equipment Model IMPC\_EMO\_005\_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false

## Equipment Version IMPC\_EMO\_006\_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Image Pixel Size IM procedureMetadata	PC_EMO_007_001   v1.0			
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
Unit Measured: μm				
E14.5-E15.5 MicroCT Preparation protocol IMPC_EMO_008_001   v1.0 procedureMetadata				
Req. Analysis: true	Req. Upload: true	Is Annotated: false		
Object to Source IMPC_EMO_009_001   v1.0 procedureMetadata				
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				
Date equipment last calibrated IMPC_EMO_011_001   v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Date of Sacrifice IMPC_EMO_012_001   v1.0 procedureMetadata				
Req. Analysis: false	Req. Upload: true	Is Annotated: false		
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

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

#### Source Voltage IMPC\_EMO\_015\_001 | v1.1

procedureMetadata

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

Unit Measured: kV

#### Source Current IMPC\_EMO\_016\_001 | v1.0

procedureMetadata

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

Unit Measured: uA

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## Screenshots IMPC\_EMO\_017\_001 | v1.1

seriesMediaParameter

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

**Increments:** Minimum 1
