OPT E9.5 IMPC_EOL_002

Purpose

To assess morphological defects in E9.5 embryos from lethal strains with OPT.

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 Mark'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

Date of Annotation IMPC_EOL_053_001 | v1.0

procedureMetadata

Req. Analysis: falseReq. Upload: trueIs Annotated: false

Embryo reconstruction IMPC_EOL_001_001 | v1.1

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Increments: Minimum 1		
Experimenter ID w		
Experimenter ID IMF procedureMetadata	² C_EOL_002_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Equipment ID IMPC_ procedureMetadata	EOL_003_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Equipment Manufacturer IMPC_EOL_004_001 v1.0 procedureMetadata		
Req. Analysis: false	Req. Upload: true	Is Annotated: false

Equipment Model IMPC_EOL_005_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Image Pixel Size IM procedureMetadata	PC_EOL_006_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: μm		
E9.5 OPT preperati	on protocol IMPC_EO	L_007_001 v1.0
Req. Analysis: false	Req. Upload: true	Is Annotated: false

Date equipment last calibrated IMPC_EOL_008_001 | v1.0

procedureMetadata

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

Date of Sacrifice IMPC_EOL_009_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Date Preparation F	inished IMPC_EOL_010	_001 v1.1
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Date of Scan IMPC_E procedureMetadata	OL_011_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Screenshots IMPC_E seriesMediaParameter	OL_012_001 v1.1	
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Increments: Minimum 1		

Hindbrain IMPC_EOL_013_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, abr	normal, unobservable, ambiguo	ous, imageOnly,
4th ventricle IMPC_E simpleParameter	OL_014_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, abr	normal, unobservable, ambiguo	ous, imageOnly,
Mesencephalic vesicle IMPC_EOL_015_001 v1.0 simpleParameter		
Req. Analysis: false	Req. Upload: true	Is Annotated: true

Forebrain IMPC_EOL_016_001 | v1.0

simpleParameter

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

Telecenphalic (lateral) ventricle IMPC_EOL_017_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Rhombomeres IMPC_EOL_018_001 | v1.0

simpleParameter

Req. Analysis: falseReq. Upload: trueIs Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Notochord IMPC_EOL_019_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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Infundibular recess of 3rd ventricle IMPC_EOL_020_001 | v1.0

simpleParameter

simpleParameter

Req. Analysis: false Req. Upload: true Is A	Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Otocyst IMPC_EOL_023_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, a	bnormal, unobservable, amb	biguous, imageOnly,

1st branchial arch IMPC_EOL_024_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, abn	ormal, unobservable, ambiguou	us, imageOnly,

1st arch artery IMPC_EOL_025_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

2nd branchial arch IMPC_EOL_026_001 | v1.0

simpleParameter

Req. Analysis: false Req. Uplo	d: true Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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2nd arch artery IMPC_EOL_027_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Options: present, absent, abr	normal, unobservable, ambiguo	ous, imageOnly,
Oropharynx IMPC_EC	DL_028_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, abr	normal, unobservable, ambiguo	ous, imageOnly,
3rd branchial arch simpleParameter	IMPC_EOL_029_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: present, absent, abr	normal, unobservable, ambiguo	ous, imageOnly,

3rd arch artery IMPC_EOL_030_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Options: present, absent, abr	normal, unobservable, ambiguo	us, imageOnly,	
Aortic sac IMPC_EOL_ simpleParameter	_031_001 v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: true	
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,			
Common atrial chamber IMPC_EOL_032_001 v1.0 simpleParameter			
Req. Analysis: false	Req. Upload: true	Is Annotated: true	

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Atrioventricular canal IMPC_EOL_033_001 | v1.0

simpleParameter

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

Heart ventricle IMPC_EOL_034_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Primitive heart tube cardiac muscle IMPC_EOL_035_001 | v1.0 simpleParameter

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

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Dorsal aorta IMPC_EOL_036_001 | v1.0

simpleParameter

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

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Hepatic primordium IMPC_EOL_037_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Options: present, absent, abn	ormal, unobservable, ambiguo	us, imageOnly,	
Hindgut IMPC_EOL_038 simpleParameter	3_001 v1.0		
Req. Analysis: false	Req. Upload: true	Is Annotated: true	
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,			
Forelimb bud IMPC_EOL_039_001 v1.0 simpleParameter			

Req. Analysis: false	Req. Upload: true	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Neural tube IMPC_EOL_040_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true	
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,			
Caudal neuropore IMPC_EOL_041_001 v1.0 simpleParameter			
Req. Analysis: false	Req. Upload: true	Is Annotated: true	
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,			
Somite IMPC_EOL_042_001 v1.0 simpleParameter			
Req. Analysis: false	Req. Upload: true	Is Annotated: true	
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,			
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Somite count IMPC_EOL_043_001 | v1.0

simpleParameter

Req. Analysis: falseReq. Upload: falseIs Annotated: false

Delayed embryonic development IMPC_EOL_044_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: yes, no,		
Vitelline artery IMPC simpleParameter	_EOL_045_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,		

Umbilical vein IMPC_EOL_046_001 | v1.0

simpleParameter

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Foregut IMPC_EOL_047_001 | v1.0

simpleParameter

Midgut IMPC_EOL_048_001 | v1.0

simpleParameter

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

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Pericardial cavity IMPC_EOL_049_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: true Is An	nnotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Peritoneal cavity IMPC_EOL_050_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true
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Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

Sinus venosus IMPC_EOL_051_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Options: present, absent, abr	ormal, unobservable, ambiguo	us, imageOnly,	
Annotator ID IMPC_EOL_052_001 v1.0 procedureMetadata			
Req. Analysis: false	Req. Upload: true	Is Annotated: false	