

# Adult LacZ IMPC\_ALZ\_001

## Purpose

To stain adult mutant and control tissues for bacterial beta-galactosidase (LacZ) activity in order to assess the adult organ, tissue, substructure and cell type of gene expression of IKMC alleles utilizing a LacZ reporter.

**Description:** Adult mouse tissues are scored for presence of LacZ staining which is distinct from either nonspecific staining observed in wildtype control mice, or is too faint to score as present. Intensity of staining is not required but can be reported. Anatomical terms to localize staining to the organ, structure, substructure, or cell type will use standard mouse anatomy ontology terms.

## Experimental Design

Mutants:

- **Minimum number of animals** : 1M or 1F heterozygote
- Age will depend upon the logistics of each center, but all mice will be within  $\pm 7$  days of the age stipulated in the center-specific protocols, and all mice will be  $> 50$  days of age;
- The tissues in the agreed parameter list will be stained and annotated for each mutant

Controls:

- A minimum of one control mouse will be stained and annotated for every 10 mutants
- The tissues in the agreed parameter list will be stained and annotated for each control

## Procedure

Center-specific methods will be provided and be on file and linked to the data for each mutant line.

For each mouse, for each tissue, the scoring system will be: + (specific staining), - (no staining), NS (non-specific staining), or NA (tissue not available)

*Where positive, specific, staining is found:*

- A. A representative image will be taken and uploaded for each mutant line. The image will have a sizing reference bar and optional center-specific watermark embedded into the image.
- B. The metadata collected for each mouse will be associated with the image.
- C. Each image will have a substructure field for additional annotation provided by that center.

## Notes

Tables of results for each tissue from each HET or HOM mouse scored for: presence /absence/non-specific/tissue not-available as defined above.

Representative images for positive staining tissues.

Additional annotation to provide anatomical substructure & cell specificity.

Database of non-specific staining and presentation of images representative of non-specific staining.

## Data QC

Quality control for each center's processes and annotation will be established by that center's staff and published as part of their detailed protocol.

A database of control non-specific staining will be maintained by the Data Coordination Center and updated periodically to indicate the frequency of non-specific staining found in wildtype mice by each center. Representative images of non-specific staining will be linked to the data for each mutant line.

## Parameters and Metadata

### Adrenal gland IMPC\_ALZ\_001\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: adrenal

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

### Lower Urinary Tract IMPC\_ALZ\_002\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Description:** lower\_urinary\_tract

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Brain** IMPC\_ALZ\_003\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** brain

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Eye** IMPC\_ALZ\_004\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** eye

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Heart** IMPC\_ALZ\_005\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** heart

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Kidney** IMPC\_ALZ\_006\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** kidney

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Liver** IMPC\_ALZ\_007\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** liver

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Lymph Node** IMPC\_ALZ\_008\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** lymph\_node

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Mammary gland** IMPC\_ALZ\_009\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** mammary\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Ovary** IMPC\_ALZ\_010\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** ovary

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Oviduct** IMPC\_ALZ\_011\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** oviduct

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Skin** IMPC\_ALZ\_012\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** skin\_with\_mg

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Stomach** IMPC\_ALZ\_013\_001 | v1.2

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** stomach

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Testis** IMPC\_ALZ\_014\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** testis\_epididymus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Thymus** IMPC\_ALZ\_015\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** thymus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Trachea** IMPC\_ALZ\_016\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** trachea

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Uterus** IMPC\_ALZ\_017\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** uterus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Large Intestine IMPC\_ALZ\_018\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** large\_intestine

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Esophagus IMPC\_ALZ\_019\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** esophagus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Spinal cord IMPC\_ALZ\_020\_001 | v1.0



simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** spinal\_cord

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Thyroid gland IMPC\_ALZ\_021\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** thyroid

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Pituitary gland IMPC\_ALZ\_022\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** pituitary

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Skeletal Muscle IMPC\_ALZ\_023\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: skeletal\_muscle

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Small Intestine IMPC\_ALZ\_024\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: small\_intestine

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## White Adipose Tissue IMPC\_ALZ\_025\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: white\_adipose\_tissue

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Lung IMPC\_ALZ\_026\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** lungs

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Aorta IMPC\_ALZ\_027\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** aorta

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Pancreas IMPC\_ALZ\_028\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** pancreas

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Prostate gland IMPC\_ALZ\_029\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** prostate

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Spleen IMPC\_ALZ\_030\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** spleen

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Brainstem IMPC\_ALZ\_031\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** brainstem

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Cartilage tissue IMPC\_ALZ\_032\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: cartilage

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Cerebral Cortex IMPC\_ALZ\_033\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: cerebral\_cortex

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Cerebellum IMPC\_ALZ\_034\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: cerebellum

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Hippocampus IMPC\_ALZ\_035\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** hippocampus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Hypothalamus IMPC\_ALZ\_036\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** hypothalamus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Olfactory Lobe IMPC\_ALZ\_037\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** olfactory\_lobe

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Peripheral Nervous System IMPC\_ALZ\_038\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** peripheral\_nervous\_system

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Peyers Patch IMPC\_ALZ\_039\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** peyers\_patch

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Striatum IMPC\_ALZ\_040\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** straiatum

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Vascular System IMPC\_ALZ\_041\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Description:** vascular\_system

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Urinary bladder IMPC\_ALZ\_042\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** urinary bladder

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Bone IMPC\_ALZ\_043\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** bone

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,



---

## Cecum IMPC\_ALZ\_044\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** cecum

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Colon IMPC\_ALZ\_045\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** colon

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Duodenum IMPC\_ALZ\_046\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** duodenum

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Ileum IMPC\_ALZ\_047\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ileum

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Jejunum IMPC\_ALZ\_048\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** jejunum

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Gonadal fat pad IMPC\_ALZ\_049\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** adipose\_gonad

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Bone Marrow IMPC\_ALZ\_050\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: bone\_marrow

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Vas Deferens IMPC\_ALZ\_051\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: vas\_deferens

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Brown adipose tissue IMPC\_ALZ\_052\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: adipose\_brown

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Mesenteric adipose tissue IMPC\_ALZ\_053\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** adipose\_mesenteric

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Blood IMPC\_ALZ\_054\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** blood\_smear

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Diaphragm IMPC\_ALZ\_055\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** diaphragm

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Gall Bladder** IMPC\_ALZ\_056\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** gall\_bladder

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Harderian Gland** IMPC\_ALZ\_057\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hardarian\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Hindlimb** IMPC\_ALZ\_058\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hind\_limb

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Quadriceps** IMPC\_ALZ\_059\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** muscle\_quad

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Parathyroid gland** IMPC\_ALZ\_060\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** parathyroid

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Parotid gland** IMPC\_ALZ\_061\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** parotid\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Penis IMPC\_ALZ\_062\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** penis

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Stomach pyloric region IMPC\_ALZ\_063\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** pylorus

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Chest bone IMPC\_ALZ\_064\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ribcage

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Sciatic nerve** IMPC\_ALZ\_065\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** sciatic\_nerve\_quad

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Cranium** IMPC\_ALZ\_066\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** skull

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Sublingual Gland** IMPC\_ALZ\_067\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true



**Description:** sublingual\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Submandibular Gland** IMPC\_ALZ\_068\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** submandibular\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Tongue** IMPC\_ALZ\_069\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tongue

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Trigeminal V nerve** IMPC\_ALZ\_070\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** trigeminal\_nerve

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Vagina** IMPC\_ALZ\_071\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vagina

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Vesicular Gland** IMPC\_ALZ\_072\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vesicular\_gland

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## **Mesenteric Lymph Node** IMPC\_ALZ\_073\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** mesenteric\_lymph\_node

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Oral epithelium IMPC\_ALZ\_074\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** oral\_epithelia

**Options:** imageOnly, expression, no expression, ambiguous, tissue not available,

---

## LacZ Images Section IMPC\_ALZ\_075\_001 | v1.1

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** lacz\_images\_section

**Increments:** Minimum 1

---

## LacZ Images Wholemount IMPC\_ALZ\_076\_001 | v1.1

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** lacz\_images\_wholemount

**Increments:** Minimum 1

---

## **Free Ontology** IMPC\_ALZ\_077\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** free\_ontology

---

## **Free Ontology Annotation reason** IMPC\_ALZ\_078\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** free\_ontology\_annotation\_reason

---

## **Free text comment** IMPC\_ALZ\_079\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** free\_text\_comment

---

## **Microscope equipment id** IMPC\_ALZ\_080\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** microscope\_equipment\_id

---

## **Microscope equipment manufacturer** IMPC\_ALZ\_081\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** microscope\_equipment\_manufacturer

---

## **Microscope equipment model** IMPC\_ALZ\_082\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** microscope\_equipment\_model

---

## Date Microscope last calibrated IMPC\_ALZ\_083\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: date\_microscope\_last\_calibrated

---

## Detector equipment manufacturer IMPC\_ALZ\_084\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: detector\_equipment\_manufacturer

---

## Detector equipment model IMPC\_ALZ\_085\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: detector\_equipment\_model

---

## Objective equipment company IMPC\_ALZ\_086\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: objective\_equipment\_company

---

## Objective equipment model IMPC\_ALZ\_087\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: objective\_equipment\_model

---

## Objective magnification IMPC\_ALZ\_088\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: objective\_magnification

---

## Illumination source manufacturer IMPC\_ALZ\_089\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: illumination\_source\_manufacturer

---

## **Illumination source model** IMPC\_ALZ\_090\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** illumination\_source\_model

---

## **Sample preparation stain name** IMPC\_ALZ\_091\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** sample\_preparation\_stain\_name

---

## **Sample preparation reference impc** IMPC\_ALZ\_092\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** sample\_preparation\_reference\_impc

---



## Bit Depth IMPC\_ALZ\_093\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: bit\_depth

---

## Colorspace IMPC\_ALZ\_094\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: colorspace

---

## Experimental category IMPC\_ALZ\_095\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: experimental\_category

---

## Orientation IMPC\_ALZ\_096\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Description:** orientation

---

## **Pixels per millimeter before processing** IMPC\_ALZ\_097\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** pixels\_per\_millimeter\_before\_processing

---

## **Pixels per millimeter after processing** IMPC\_ALZ\_098\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** pixels\_per\_millimeter\_after\_processing

---

## **Showcase image** IMPC\_ALZ\_099\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** showcase\_image

---

## Date of Sacrifice IMPC\_ALZ\_100\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: date\_of\_sacrifice

---

## Date of Perfusion IMPC\_ALZ\_101\_001 | v1.2

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: date\_of\_perfusion

---

## Epididymis IMPC\_ALZ\_102\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: imageOnly, expression, no expression, ambiguous, tissue not available,

---

## Main olfactory bulb IMPC\_ALZ\_103\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** expression, no expression, ambiguous, imageOnly, tissue not available,

---

## **Midbrain** IMPC\_ALZ\_104\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** expression, no expression, ambiguous, imageOnly, tissue not available,

---

## **Thalamus** IMPC\_ALZ\_105\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** expression, no expression, ambiguous, imageOnly, tissue not available,

---