

Gross Pathology and Tissue Collection UCD

LA_PAT_002

Purpose

To perform a complete necropsy to detect and record abnormal external findings and macroscopic alterations in internal and external organs, record body and heart weights (see IMPC Heart Weight SOP), and collect a standardized list of tissues for fixation with or without further processing (see non-mandatory IMPC Tissue Embedding & Block Banking SOP).

Experimental Design

- **Minimum number of animals** : 2M + 2F
- **Age at test**: Week 59

Equipment

- Corkplate or wax board
- pins
- jar containing tap water to rinse tools
- labelled container with fixative
- fine scissors
- bigger scissors
- forceps
- small spatula
- scalpel
- laboratory balance

Procedure

1. Sacrifice the mouse
2. Weigh and record total body weight (if not done separately)
3. Place mouse on its back and pin the mouse onto board with extended extremities (inner side of hands and foot)
4. Wipe or spray the mouse with 70% ethanol to control hair and dander
5. Proceed with a complete necropsy and tissue collection according to Center-specific technical SOP but be sure to collect the IMPC 'Tissue Collection List' (below) and remove the heart and record its weight according to the IMPC Heart Weight SOP. Individual Centers may collect any additional tissue according to Centre-specific technical SOPs.
6. Capture any images of abnormal findings and save images in Centre-specific database

7. Place all tissue collected in a labelled jar containing a sufficient volume of fixative (minimum of 10:1 fixative to tissue)
8. Record all abnormal findings in a Center-specific database using the standardized IMPC Gross Pathology ontology:
 1. MA ontology terms for location/topography
 2. MP ontology terms for presence/absence/large/small/abnormal
 3. PATO ontology terms for descriptors (size, shape, colour, consistency, distribution of lesions)

Notes

Banking of the fixed tissue for long-term storage is according to Centre-specific SOPs (including storage fixative). Options for long-term storage of the fixed tissue include:

- Store in labelled jar in wet fixative for future use or requests
- Trim, process, and embed fixed tissue in paraffin blocks (store or discard tissue not trimmed in)
- Trim, process, and embed fixed tissue in paraffin blocks followed by microtomy and staining of sections on glass slides (store or discard tissue not trimmed in)

Data QC

Images of significant gross findings will be captured as static image files (.tiff or .jpg) and made available to the DCC. Images will be not be annotated but linked by metadata to the mouse line.

Parameters and Metadata

Eye with optic nerve UCDLA_PAT_002_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: abnormal eye morphology, flat, yellow, abnormal optic nerve morphology, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, microphthalmia, anophthalmia, macrophthalmia, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, absent optic nerve, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, optic nerve hypoplasia, inflated, length, ovate, pink, orange, grey, enlarged optic nerve, volume, raised, area, diameter, obsolete absolute number value, circular,

Comments (in English) UCDLA_PAT_032_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Mammary gland UCDLA_PAT_019_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, abnormal mammary gland morphology, increased mammary gland number, inflated, length, ovate, pink, orange, grey, volume, absent mammary gland, raised, area, diameter, obsolete absolute number value, circular,

Tibia UCDLA_PAT_067_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, long tibia, abnormal tibia morphology, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated,

absent tibia, short tibia, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Salivary gland UCDLA_PAT_062_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, enlarged salivary gland, abnormal salivary gland morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, small salivary gland, absent salivary gland, raised, area, diameter, obsolete absolute number value, circular,

Ear UCDLA_PAT_071_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, abnormal ear morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, big ears, distributed, beige, localized, sunken, small ears, bilateral, unilateral, symmetrical, inflated, length, absent ear lobes, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Camera resolution UCDLA_PAT_035_001 | v1.0

procedureMetadata

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

Lymph node UCDLA_PAT_020_002 | v2.0

ontologyParameter

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

Ontology Options: flat, enlarged lymph nodes, abnormal lymph node morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, decreased lymph node number, increased lymph node number, small lymph nodes, bilateral, unilateral, symmetrical, inflated, absent lymph nodes, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Esophagus UCDLA_PAT_008_002 | v2.0

ontologyParameter

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

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, abnormal esophagus morphology, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, enlarged esophagus, pink, orange, grey, volume, small esophagus, raised, area, diameter, obsolete absolute number value, circular,

Brain UCDLA_PAT_001_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: abnormal brain morphology, flat, yellow, multiple, decreased brain size, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, increased brain size, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, hydrocephaly, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Balance manufacturer UCDLA_PAT_033_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: A&D, Sartorius, Ohaus,

Equipment ID UCDLA_PAT_056_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Trachea UCDLA_PAT_007_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, abnormal trachea morphology, inflated, length, ovate, small trachea, short trachea, pink, orange, grey, volume, enlarged trachea, raised, area, diameter, obsolete absolute number value, circular, tracheoesophageal fistula,

Tongue UCDLA_PAT_073_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: absent tongue, abnormal tongue morphology, increased tongue size, flat, decreased tongue size, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Skin UCDLA_PAT_021_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, abnormal skin morphology, thin skin, scaly skin, yellow, multiple, brown, soft, hard, wrinkled skin, irregular spatial pattern, thick skin, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Equipment model UCDLA_PAT_061_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Options: M165C, MS104S, SC100, 1 x 4500, SZ61, VHX-100, C-5060, 1 x AW 110, AV313, Z6 ApoE, AV2101, M651, AV213C, ASP200S, Coolpix P520,

Thyroid UCDLA_PAT_005_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, small thyroid gland, abnormal thyroid gland morphology, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, absent thyroid gland, enlarged thyroid gland, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Trigeminal V nerve UCDLA_PAT_069_001 | v1.1

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, absent trigeminal nerve, abnormal trigeminal nerve morphology, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Kidney UCDLA_PAT_017_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, small kidney, abnormal kidney morphology, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, enlarged kidney, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, single kidney, length, ovate, pink, orange, grey, polycystic kidney, volume, raised, area, diameter, obsolete absolute number value, circular,

Knee joint UCDLA_PAT_068_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, abnormal joint morphology, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, fused joints, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Stomach UCDLA_PAT_012_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, enlarged stomach, abnormal stomach morphology, yellow, multiple, absent stomach, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, small stomach, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Thymus UCDLA_PAT_004_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, enlarged thymus, abnormal thymus morphology, athymia, small thymus, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized,

sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Spleen UCDLA_PAT_016_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, abnormal spleen morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, small spleen, enlarged spleen, length, ovate, pink, orange, grey, volume, absent spleen, raised, area, diameter, obsolete absolute number value, circular,

Brown fat UCDLA_PAT_066_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, abnormal brown adipose tissue morphology, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, increased brown adipose tissue amount, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular, decreased brown adipose tissue amount,

Small intestine UCDLA_PAT_013_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, enlarged duodenum, abnormal duodenum morphology, absent duodenum, soft, hard, irregular spatial pattern, right, left, abnormal ileum morphology, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, distended jejunum, abnormal jejunum morphology, firm, random pattern, multi-localised, friable, watery, fluid-filled, absent jejunum, absent ileum, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, intussusception, raised, enlarged ileum, area, diameter, obsolete absolute number value, circular,

Adrenal gland UCDLA_PAT_018_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, absent adrenal gland, abnormal adrenal gland morphology, inflated, small adrenal glands, length, ovate, pink, orange, grey, volume, enlarged adrenal glands, raised, area, diameter, obsolete absolute number value, circular,

Femur UCDLA_PAT_064_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, abnormal femur morphology, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, long femur, absent femur, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, short femur, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

ID for sample banking protocol UCDLA_PAT_031_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Prostate UCDLA_PAT_026_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: absent prostate gland, abnormal prostate gland morphology, flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, enlarged prostate gland, small prostate gland, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Equipment manufacturer UCDLA_PAT_060_002 | v2.0

procedureMetadata

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

Options: Mettler Toledo, Leica, Olympus, Ohaus, Nikon, Keyence Co., Ltd,

Nasal cavity UCDLA_PAT_070_001 | v1.0

ontologyParameter

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

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, abnormal nasal cavity morphology, bilateral, unilateral, symmetrical, inflated, absent nasal cavity, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Testes UCDLA_PAT_024_002 | v2.0

ontologyParameter

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

Ontology Options: flat, absent testes, abnormal testis morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery,

fluid-filled, small testis, enlarged testis, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, cryptorchism, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Experimenter ID UCDLA_PAT_052_002 | v2.0

procedureMetadata

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

Date equipment last calibrated UCDLA_PAT_059_002 | v2.0

procedureMetadata

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

Bone UCDLA_PAT_075_001 | v1.0

ontologyParameter

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

Ontology Options: flat, yellow, multiple, brown, abnormal bone structure, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Uterus UCDLA_PAT_029_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: flat, abnormal uterus morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, small uterus, distributed, beige, localized, sunken, absent uterus, bilateral, unilateral, symmetrical, hydrometra, inflated, enlarged uterus, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular, blind uterus,

Body Weight UCDLA_PAT_049_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: g

Pancreas UCDLA_PAT_015_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: abnormal pancreas morphology, flat, small pancreas, yellow, multiple, enlarged pancreas, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy,

white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, absent pancreas, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Date of sacrifice UCDLA_PAT_030_002 | v2.0

procedureMetadata

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

Sternum UCDLA_PAT_063_001 | v1.0

ontologyParameter

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

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, split sternum, abnormal sternum morphology, short sternum, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, absent sternum, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular, wide sternum,

Eye fixative UCDLA_PAT_036_001 | v1.0

procedureMetadata

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

Tissue available for distribution UCDLA_PAT_076_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: No, Yes,

Balance model UCDLA_PAT_034_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: HR-100A, AV213C, AV313, Secura, Adventurer AX223/E,

Spinal cord UCDLA_PAT_003_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, abnormal spinal cord morphology, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Liver UCDLA_PAT_010_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: abnormal liver morphology, flat, yellow, multiple, brown, absent liver, enlarged liver, soft, hard, irregular spatial pattern, small liver, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Method of Blood Collection UCDLA_PAT_055_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 1ml EDTA tubes, Braun-Melsungen, GER, Retro-orbital puncture, Not bled, Cardiac puncture,

Bone marrow UCDLA_PAT_065_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, abnormal bone marrow morphology, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Urinary bladder UCDLA_PAT_023_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, urinary bladder obstruction, abnormal urinary bladder morphology, enlarged urinary bladder, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, absent urinary bladder, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, cystolithiasis, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Gall bladder UCDLA_PAT_011_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, small gallbladder, abnormal gallbladder morphology, linear, firm, random pattern, multi-localised, friable, watery,

fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, enlarged gallbladder, inflated, length, ovate, pink, orange, grey, absent gallbladder, volume, raised, area, diameter, obsolete absolute number value, circular,

Sciatic nerve UCDLA_PAT_074_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, abnormal sciatic nerve morphology, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Tooth UCDLA_PAT_072_001 | v1.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, abnormal tooth morphology, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, absent teeth, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular, abnormal tooth color,

Method of sacrifice UCDLA_PAT_054_002 | v2.0

procedureMetadata

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

Options: Pentobarb (0.2ml), Cervical dislocation, None, Pentobarb (0.15ml), Ketamine (110mg/kg)/Xylazine (11mg/kg)/ Antisedan (1mg/kg), Pentobarb (0.05ml), Carbon dioxide, Isoflurane overdose, Exsanguination, Ketamine(100mg/kg)/ Xylazine (10mg/kg)/ Antisedan (1mg/kg), Avertin, Ketamine (100mg/kg)/Xylazine (10mg/kg), Ketamine (110mg/kg)/Xylazine (11mg/kg), Pentobarb (0.1ml), Isoflurane overdose and exsanguination,

Lung UCDLA_PAT_009_002 | v2.0

ontologyParameter

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

Ontology Options: abnormal lung morphology, absent lungs, flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, small lung, enlarged lung, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Fixative UCDLA_PAT_058_002 | v2.0

procedureMetadata

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

Options: 4% PFA/PBS, Formol, Bouin, 10% buffered formalin phosphate, 10% neutral buffer formalin, RT, O/N, 10% buffered formalin, 4% NBF-24hrs, Neutral buffered formalin,

Skeletal muscle UCDLA_PAT_022_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, increased skeletal muscle mass, abnormal skeletal muscle morphology, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, decreased skeletal muscle mass, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Epididymis UCDLA_PAT_025_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, absent epididymis, abnormal epididymis morphology, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, enlarged epididymis, small epididymis, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Images UCDLA_PAT_057_002 | v2.0

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Increments: Minimum 1

Ovary UCDLA_PAT_028_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: abnormal ovary morphology, flat, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, small ovary, enlarged ovary, distributed, beige, localized, sunken, bilateral, absent ovary, unilateral, symmetrical, inflated, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Large intestine UCDLA_PAT_014_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, absent rectum, abnormal rectum morphology, abnormal large intestine morphology, abnormal cecum morphology, yellow, multiple, brown,

absent colon, abnormal colon morphology, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, rectal prolapse, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, megacolon, length, ovate, pink, orange, grey, volume, microcolon, enlarged cecum, small cecum, raised, absent cecum, area, diameter, obsolete absolute number value, circular, rectoperineal fistula, rectovaginal fistula,

Seminal vesicle UCDLA_PAT_027_002 | v2.1

ontologyParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Ontology Options: small seminal vesicle, abnormal seminal vesicle morphology, flat, yellow, multiple, brown, enlarged seminal vesicle, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized, sunken, bilateral, unilateral, symmetrical, inflated, absent seminal vesicle, length, ovate, pink, orange, grey, volume, raised, area, diameter, obsolete absolute number value, circular,

Heart UCDLA_PAT_006_002 | v2.0

ontologyParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Ontology Options: flat, abnormal heart morphology, abnormal heart position or orientation, yellow, multiple, brown, soft, hard, irregular spatial pattern, right, left, blue, black, blotchy, white, red, green, enlarged heart atrium, small heart, no abnormal phenotype detected, linear, firm, random pattern, multi-localised, friable, watery, fluid-filled, distributed, beige, localized,

sunken, bilateral, unilateral, symmetrical, enlarged heart, inflated, length, ovate, pink, orange, grey, volume, abnormal heart shape, raised, area, diameter, obsolete absolute number value, circular,
