



# CMHD Pathology Report



## CMHD Pathology Core

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## Mouse Genetics Project

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[Mouse Portal](#)  
[Europhenome](#)

CMHD LabID: N13-915

## Relevant History:

Phenotype: None  
Large heart found in one mouse at necropsy

## AnimalID: M01028865 (Male)

### Histopathology Findings:

#### heart (MA:0000072)

##### Histopath Description:

The heart is markedly larger than normal (estimated at 1.25x normal)

##### Morphological Diagnosis:

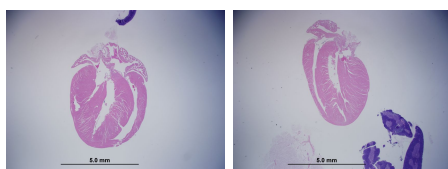
**Distribution:** generalized; **Severity:** severe; **MPATH Process Term:** hypertrophy MPATH:159

##### Definitive Diagnosis:

Cardiomegally

##### Histopathology Comments:

The change is consistent with gross observation



Heart,  
cardiomegally,  
1.25x, HE

Heart, Wt, normal,  
1.25x, HE

#### brain (MA:0000168)

##### Histopath Description:

There is moderate dilation of the fourth ventricle

##### Morphological Diagnosis:

**Distribution:** diffuse; **Severity:** moderate; **MPATH Process Term:** degenerative change  
MPATH:14

##### Definitive Diagnosis:

Dilation of the brain ventricles

##### Histopathology Comments:

Mild dilation of the ventricles is a background condition in mice of C57BL/6N background

#### liver (MA:0000358)

##### Histopath Description:

There is focal aggregate of moninuclear inflammatory cells. There are occasional foci of erythropoietic cells.

##### Morphological Diagnosis:

**Distribution:** multifocal; **Severity:** mild; **MPATH Diagnosis:** extramedullary hemopoiesis  
MPATH:595; **MPATH Process Term:** hyperplasia MPATH:134

**Definitive Diagnosis:**

hepatic erythropoiesis

**Histopathology Comments:**

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**spleen (MA:0000141)****Histopath Description:**

Mild erythropoiesis

**Morphological Diagnosis:****Distribution:** multifocal to coalescing; **Severity:** mild; **MPATH Diagnosis:** extramedullary hemoipoiesis MPATH:595; **MPATH Process Term:** hyperplasia MPATH:134**Definitive Diagnosis:**

Mild erythropoiesis

**eye (MA:0000261)****Histopath Description:**

Involving one eye, there are clusters of external nuclear structures within the internal plexiform layer.

**Morphological Diagnosis:****Distribution:** multifocal; **Severity:** mild; **MPATH Process Term:** developmental dysplasia MPATH:64**Definitive Diagnosis:**

Retinal dysplasia

**Organ/Tissue Analyzed:**

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, testis, epididymis, seminal vesicle, and prostate.

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**AnimalID: M01028862 (Male)****Histopathology Findings:****lymph node (MA:0000139)****Histopath Description:**

Within the sinuses of the superficial cervical lymphnode are numerous erythrocytes freely as well as within macrophages (erythrophagocytosis)

**Morphological Diagnosis:****Duration:** acute; **Distribution:** multifocal; **Severity:** mild; **MPATH Process Term:** hemorrhage and non-specified extravasation MPATH:119**Definitive Diagnosis:**

Sinus erythrocytosis

**Histopathology Comments:**

The lesion suggests drainage of a recent hemorrhage in nearby tissues (usuall seen after retrobulbar bleeding).

**Organ/Tissue Analyzed:**

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, testis, epididymis, seminal vesicle, and prostate.

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**AnimalID: M01017848 (Female)****Histopathology Findings:****kidney (MA:0000368)****Histopath Description:**

Within the one kidney, there is a wedge shaped tubular proliferation extending from the capsule into

the cortex

**Morphological Diagnosis:**

**Duration:** chronic; **Distribution:** focally extensive; **Severity:** mild; **MPATH Process Term:** hyperplasia MPATH:134

**Definitive Diagnosis:**

Focally extensive renal tubular hyperplasia

**Histopathology Comments:**

The lesion is consistent with old infarct and regenerative tubular hyperplasia

**Organ/Tissue Analyzed:**

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, and ovary, and mammary gland.

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**AnimalID: M00997929 (Female)**

**Histopathology Findings:**

**mesenteric lymph node (MA:0002829)**

**Histopath Description:**

Early lymphoma

**Morphological Diagnosis:**

**MPATH Diagnosis:** lymphoid neoplasms MPATH:513; **MPATH Process Term:** neoplasia MPATH:218

**Definitive Diagnosis:**

Early lymphoma

**spleen (MA:0000141)**

**Histopath Description:**

Moderate lymphoid hyperplasia with germinal centers.

**Morphological Diagnosis:**

**Distribution:** multifocal to coalescing; **Severity:** moderate; **MPATH Diagnosis:** lymphoid hyperplasia MPATH:147; **MPATH Process Term:** hyperplasia MPATH:134

**Definitive Diagnosis:**

Lymphoid hyperplasia

**Histopathology Comments:**

incidental

**Organ/Tissue Analyzed:**

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, and ovary, and mammary gland.

**Report Summary and Recommendation:**

Cardiomegally was seen in one mouse. Other lesions are incidental and/or are attributable to strain background.

Line summary: Cardiomegally (1/4)