



# CMHD Pathology Report



## CMHD Pathology Core

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## Mouse Genetics Project

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

CMHD LabID: N12-1505

## Relevant History:

Phenotypes:  
craniofacial defects  
embryonic growth retardation  
preweaning lethality

**AnimalID: M00536349 (Male)**

## Histopathology Findings:

**liver (MA:0000358)**

### Histopath Description:

There is diffuse microvesicular lipodosis

### Morphological Diagnosis:

**Distribution:** diffuse; **MPATH Diagnosis:** steatosis MPATH:622

### Definitive Diagnosis:

Hepatic lipodosis

## 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.

**AnimalID: M00536350**

## Histopathology Findings:

**liver (MA:0000358)**

### Histopath Description:

There is diffuse microvesicular lipodosis

### Morphological Diagnosis:

**Distribution:** diffuse; **MPATH Diagnosis:** steatosis MPATH:622

### Definitive Diagnosis:

Hepatic lipodosis

**brain (MA:0000168)**

### Histopath Description:

hydrocephalus

### Morphological Diagnosis:

**Distribution:** bilateral; **Severity:** mild; **MPATH Diagnosis:** hydrocephalus MPATH:639

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

Early lymphoma

**Morphological Diagnosis:**

**MPATH Diagnosis:** lymphoid neoplasms MPATH:513

**Definitive Diagnosis:**

Lymphoma, early

**sternal manubrium (MA:0001332)****Histopath Description:**

There is a complete sternal fracture. The chondroid tissue along the fracture is markedly degenerate. There is a nodular cartilagenous proliferation at the perichondrial margins (reactive reparative chondroid hyperplasia)

**Morphological Diagnosis:**

**Duration:** chronic; **Distribution:** focally extensive;

**Definitive Diagnosis:**

Sternal osteochondritis with fracture and reactive and reparative chondroid hyperplasia ('calus')

**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: M00536338 (Female)****Histopathology Findings:****liver (MA:0000358)****Morphological Diagnosis:**

**Distribution:** multifocal; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622

**Definitive Diagnosis:**

Moderate lipidosis

**brain (MA:0000168)****Histopath Description:**

hydrocephalus

**Morphological Diagnosis:**

**Distribution:** bilateral; **Severity:** mild; **MPATH Diagnosis:** hydrocephalus MPATH:639

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

There is a slight focal retinal fold and clusters of nuclei are present within the outer plexiform layer.

**Morphological Diagnosis:**

**Distribution:** focal; **Severity:** mild;

**Definitive Diagnosis:**

Retinal dysplasia

**knee joint (MA:0000471)****Histopath Description:**

There is multifocal fibrillation of the articular cartilage. There are clusters of chondrocytes (chondrones) within the articular cartilage

**Morphological Diagnosis:**

**Distribution:** multifocal;

**Definitive Diagnosis:**

Osteoarthritis, mild

**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, esophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, ovary, and mammary gland.

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**AnimalID: M00536334 (Female)****Histopathology Findings:****liver (MA:0000358)****Morphological Diagnosis:**

**Distribution:** multifocal; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622

**Definitive Diagnosis:**

Moderate lipidosis

**brain (MA:0000168)****Histopath Description:**

hydrocephalus

**Morphological Diagnosis:**

**Distribution:** bilateral; **Severity:** mild; **MPATH Diagnosis:** hydrocephalus MPATH:639

**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, esophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, ovary, and mammary gland.

**Report Summary and Recommendation:**

Mild incidental and/or background lesions are present in this line. There are no lesions to explain preweaning lethality in this line.