



CMHD Pathology Report



CMHD Pathology Core

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ReportID: Report Date: January 25, 2013
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Mouse Genetics Project

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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.

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.

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.