

CMHD Pathology Core Toronto Centre for Phenogenomics 25 Orde St. 3rd fl. Toronto, Ont. M5T 3H7 Tel.(416) 586-8375 Fax (416) 586-5993

contact: Dr. Susan Newbigging email: <u>newbigging@lun</u>enfeld.ca

ReportID: Report Date: February 21, 2014 Pathologist: Dr. H. Adissu

CMHD Pathology

Report

CMHD LabID: N13-926

Relevant History: Phenotype:

decreased lumbar vertebrae number increased sacral vertebrae number vertebral transformation decreased body length preweaning lethality embryonic lethality

AnimalID: M00302112 (Male)

Histopathology Findings:

liver (MA:0000358)

Histopath Description: diffuse lipidosis

Morphological Diagnosis:

Distribution: diffuse; Severity: extreme; MPATH Diagnosis: steatosis MPATH:622; MPATH Process Term: lipid deposition MPATH:42

Definitive Diagnosis: Hepatic lipidosis

Histopathology Comments:

This is dietary steatosis

stomach (MA:0000353)

Histopath Description: moderate neutrophilic gastritis.

Morphological Diagnosis:

Distribution: multifocal; Severity: moderate; MPATH Process Term: inflammation MPATH:212 Definitive Diagnosis:

Moderate neutrophilic gastritis.

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: M00302113 (Male) Histopathology Findings:

http://www.cmhd.ca/pathology/reports/histopathology_report_wtsi.asp?ID=66916700



Mouse Genetics Project Wellcome Trust Sanger Institute Wellcome Trust Genome Campus Hinxton, Cambridge CB10 1SA UK

liver (MA:0000358)

Histopath Description: moderate lipidosis

Morphological Diagnosis:

Distribution: multifocal to coalescing; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622; **MPATH Process Term:** lipid deposition MPATH:42

Definitive Diagnosis: Hepatic lipidosis

Histopathology Comments: This is dietary steatosis

stomach (MA:0000353)

Histopath Description: moderate neutrophilic gastritis.

Morphological Diagnosis:

Distribution: multifocal; Severity: moderate; MPATH Process Term: inflammation MPATH:212

Definitive Diagnosis:

Moderate neutrophilic gastritis.

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: M00329185 (Female)

Histopathology Findings:

lymph node (MA:0000139)

Histopath Description:

The mesenteric lymph node is markedly enlarged (greater than four fold). The medulla is particularly expanded by chords and sheets of plasmatoid cells. There are promient germinal centers within the medulla

Morphological Diagnosis:

Distribution: Diffuse; **Severity:** moderate; **MPATH Diagnosis:** hyperplasia MPATH:134; **MPATH Process Term:** hyperplasia MPATH:134

Definitive Diagnosis:

Lymphoid hyperplasia

Histopathology Comments:

The changes in the mesenteric lymph node are suggestive of draining of a regional inflammatory process. However, such a process was not observed in the tissues examined. Early maginal center lymphoma is suspected.

liver (MA:0000358)

Histopath Description: moderate lipidosis

Morphological Diagnosis:

Distribution: multifocal to coalescing; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622; **MPATH Process Term:** lipid deposition MPATH:42

Definitive Diagnosis:

Hepatic lipidosis

Histopathology Comments: This is dietary steatosis

stomach (MA:0000353)

Histopath Description: mild neutrophilic gastritis.

Morphological Diagnosis:

Distribution: multifocal; Severity: mild; MPATH Process Term: inflammation MPATH:212

Definitive Diagnosis:

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.

AnimalID: M00329175 (Female)

Histopathology Findings:

lymph node (MA:0000139)

Histopath Description:

The mesenteric lymph node is markedly enlarged (greater than four fold). The medulla is particularly expanded by chords and sheets of plasmatoid cells. There are promient germinal centers within the medulla

Morphological Diagnosis:

Distribution: Diffuse; Severity: moderate; MPATH Diagnosis: hyperplasia MPATH:134; MPATH Process Term: hyperplasia MPATH:134

Definitive Diagnosis:

Lymphoid hyperplasia

Histopathology Comments:

The changes in the mesenteric lymph node are suggestive of draining of a regional inflammatory process. However, such a process was not observed in the tissues examined. Early maginal center lymphoma is suspected.

liver (MA:0000358)

Histopath Description: minimal lipidosis

Morphological Diagnosis:

Distribution: multifocal; Severity: mild; MPATH Process Term: lipid deposition MPATH:42

Definitive Diagnosis: Hepatic lipidosis

stomach (MA:0000353)

Histopath Description: marked neutrophilic gastritis; there is also mild epithelial proteinosis Morphological Diagnosis: Distribution: multifocal; Severity: severe; MPATH Process Term: inflammation MPATH:212

Definitive Diagnosis:

Marked neutrophilic gastritis with epithelial proteinosis

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:

Lesions in this line are incidental or attributable to diet or strain background. We did not find lesions to predict preweaning and embryonic lethality in homozygotes. Analysis of homozygous preweaning animals and embryonic stages is recommended to determine cause of death. We did not find evidence of skeletal abnormality in the sections examined.

Line summary: none