



CMHD Pathology Report



CMHD Pathology Core

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ReportID: Report Date: not completed
Pathologist: Dr. H. Adissu

Mouse Genetics Project

Wellcome Trust Sanger
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Hinxton, Cambridge
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CMHD LabID: N13-246

Relevant History:

Increased susceptibility to bacterial infection

AnimalID: M00322117

Histopathology Findings:

liver (MA:0000358)

Histopath Description:

minimal hepatocellular lipidosis

Morphological Diagnosis:

Distribution: multifocal to coalescing; **Severity:** mild;

Definitive Diagnosis:

Hepatic lipidosis, minimal

pancreas (MA:0000120)

Histopath Description:

Nearly half of the pancreatic islets in the examined sections are enlarged (compare to WT).

Morphological Diagnosis:

Distribution: multifocal; **Severity:** mild;

Definitive Diagnosis:

Islet cell hyperplasia

stomach (MA:0000353)

Histopath Description:

There is a focal accumulation of necrotic debris and neutrophils within the non glandular epithelium adjacent to the limiting ridge

Morphological Diagnosis:

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

Definitive Diagnosis:

Focal necrosuppurative gastritis

Histopathology Comments:

The lesion was likely caused by mucosal damage by foreign body (hair or bedding material); the lesion is of minimal clinical significance.

bone marrow (MA:0000134)

Histopath Description:

Erythroid to myeloid ratio is 1:2 (compared to the average 1:4 ratio in WT mice).

Morphological Diagnosis:

Severity: moderate;

Definitive Diagnosis:

Erythroid hyperplasia

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

There is mild dilation of the lateral ventricles

Morphological Diagnosis:

Distribution: bilateral; **Severity:** mild;

Definitive Diagnosis:

Dilation of the brain ventricles

Histopathology Comments:

Mild dilation of the lateral ventricles is a background condition in mice of C57BL/6N background (Brayton et al., 2004).

AnimalID: M00322115**Histopathology Findings:****liver (MA:0000358)****Histopath Description:**

moderate lipidosis

Morphological Diagnosis:

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

Definitive Diagnosis:

Hepatic lipidosis

AnimalID: M00236086**Histopathology Findings:****liver (MA:0000358)****Histopath Description:**

moderate lipidosis

Morphological Diagnosis:

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

Definitive Diagnosis:

Hepatic lipidosis

AnimalID: M00236083**Histopathology Findings:****liver (MA:0000358)****Histopath Description:**

moderate lipidosis

Morphological Diagnosis:

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

Definitive Diagnosis:

Hepatic lipidosis

pancreas (MA:0000120)**Histopath Description:**

Nearly half of the pancreatic islets in the examined sections are enlarged (compare to WT).

Morphological Diagnosis:

Distribution: multifocal; **Severity:** mild;

Definitive Diagnosis:

Islet cell hyperplasia

Report Summary and Recommendation:

Lesions in this line are attributable to diet or strain background. We did not find lesions within the hemolymphatic system to explain increased bacterial susceptibility. Note that Anxa6 knockout mouse line was analyzed under Norcomm2 and there was no significant pathology phenotype.