

## HEALTH MONITORING REPORT (Ca1-2TT2-17 mouse)

In accordance with FELASA recommendations

<b>Date of issue:</b> 8.12.2017 KO		<b>Unit:</b> Canthia 1, conventional; <b>decontaminated Dec 2014</b> ; animals from Snellmania unit transferred in July 2017.				
<b>Species:</b> Mouse		<b>Strain:</b> 5xFAD; ANRIL KOxC57BL/6J0laHsd; Nrf2/Tie2xLDLR-ko; Sumo3-KO x C57BL/6J0laHsd; IGFII/ApoB; C57BL/6J0laHsd; JAXC57BL/6J;				
<b>Latest test date:</b> 6.11.17		<b>Species and strains present within the unit:</b> Mouse; inbred strains, gene modified strains; Rat: : RCS dystrophic; RccHan:WIST; Rabbits				
		<b>Latest results</b>	<b>Testing laboratory</b>	<b>Test method</b>	<b>Results 12.05.17</b>	<b>Results 2016</b>
<b>Viruses</b>						
Ectromelia Virus	serum	NT	SDL	BEAD	0/3	0/2
Epizootic Diarrhoea of Infant Mice	serum	0/9	SDL	PCR	0/3	0/5
Hantaan Virus	serum	NT	SDL	BEAD	0/3	0/2
K Virus	serum	NT	SDL	BEAD	0/3	0/2
Lactate Dehydrogenase Elevating Virus	serum	NT	SDL	BEAD	0/3	0/2
Lymphocytic Choriomeningitis Virus	serum	NT	SDL	BEAD	0/3	0/2
Minute Virus of Mice	serum	0/9	SDL	PCR	0/3	0/5
Mouse Adenovirus 1	serum	NT	SDL	BEAD	0/3	0/2
Mouse Adenovirus 2	serum	NT	SDL	BEAD	0/3	0/2
Mouse Cytomegalovirus	serum	NT	SDL	BEAD	0/3	0/2
Mouse Encephalomyelitis Virus	serum	0/9	SDL	PCR	0/3	0/5
Mouse Hepatitis Virus	serum	0/9	SDL	PCR	0/3	0/5
Mouse Parvovirus	serum	0/9	SDL	BEAD	0/3	NT
	faecal	NT	SDL	PCR	NT	NT
	pooled faecal	NT	SDL	PCR	NT	0/1
NS1	serum	0/9	SDL	BEAD	0/3	0/2
Mouse Thymic Virus	serum	NT	SDL	BEAD	0/3	0/5
Murine Norovirus	serum	0/9	SDL	BEAD	0/3	0/5
	pooled faecal	NT	SDL	RT/PCR	NT	0/3
Pneumonia Virus of Mice	serum	0/9	SDL	BEAD	0/3	0/5
Polyoma Virus	serum	NT	SDL	BEAD	0/3	0/2
Reovirus Type 3	serum	0/9	SDL	BEAD	0/3	0/5
Sendai Virus	serum	0/9	SDL	BEAD	0/3	0/5
<b>Bacteria, Mycoplasma and Fungi</b>						
<i>Bordetella bronchiseptica</i>	swab	0/9	SDL	CULT/AGG	0/3	0/5
CAR bacillus	serum	NT	SDL	BEAD/IFA	0/3	0/2
<i>Citrobacter rodentium</i>	pooled faecal	0/9	SDL	CULT	0/3	0/5
<i>Clostridium piliforme</i>	serum	0/9	SDL	BEAD	0/3	0/2
<i>Corynebacterium kutscheri</i>	swab	0/9	SDL	CULT	0/3	0/5
<i>Helicobacter spp.</i>	pooled faecal	0/9	SDL	PCR	NT	0/5
	faecal	NT	SDL	PCR	0/3	NT
<i>Klebsiella spp.</i>	pooled faecal	0/9	SDL	CULT	0/3	0/5
<i>Mycoplasma spp</i>	serum	0/9	SDL	BEAD	0/3	0/2
<i>Pasteurellaceae</i>	swab	0/9	SDL	CULT	0/3	0/5
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	swab	0/9	SDL	PCR	0/3	0/5
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	pooled faecal	<b>2/9</b>	SDL	PCR	<b>2/3</b>	0/5
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)*	oral	<b>2/9</b>	SDL	PCR	NT	NT
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/9	SDL	CULT	0/3	0/2
<i>Salmonella spp.</i>	pooled faecal	0/9	SDL	CULT	0/3	0/5
<i>Streptobacillus moniliformis</i>	pooled faecal	0/9	SDL	CULT	0/3	0/5
$\beta$ -haemolytic <i>Streptococci</i>	swab/pooled	0/9	SDL	CULT	0/3	0/5
<i>Staphylococcus aureus</i>	swab/pooled	0/9	SDL	CULT	0/3	0/5
<i>Streptococcus pneumonia</i>	swab	0/9	SDL	CULT	0/3	0/5
<i>Yersinia spp.</i>	pooled faecal	0/9	SDL	CULT	0/3	0/5
<b>Parasites</b>						
Arthropods	fur	NT	SDL	MICR	0/3	0/2
Intestinal protozoa	faecal pellets	NT	SDL	FLOT/MICR	0/3	0/2
	<i>Entamoeba spp</i> ****	pooled faecal	<b>1/9</b>	SDL	PCR	0/3
<i>Entamoeba muris</i>	faecal pellets	NT	SDL	MICR	0/3	0/2
<i>Giardia, Spironucleus</i>	faecal pellets	0/9	SDL	PCR	0/3	0/5
Faecal ova	faecal pellets	0/9	SDL	FLOT/MICR	0/3	0/5
Intestinal helminths	faecal pellets	0/9	SDL	MICR	0/3	0/5
<i>Aspicularis tetraptera</i>	faecal pellets	0/9	SDL	PCR	0/3	0/5
<i>Syphacia muris</i>	faecal pellets	NT	SDL	PCR	NT	NT
<i>Syphacia obvelata</i>	faecal pellets	0/9	SDL	PCR	0/3	0/5

## HEALTH MONITORING REPORT (Ca1-2TT2-17 mouse)

In accordance with FELASA recommendations

Necropsy						
External Lesions/Abnormalities	animal	NT	SDL	STEREO	0/3	NT
Internal Lesions/Abnormalities	animal	NT	SDL	STEREO	0/3	NT

\*\*\**Entamoeba spp* mice room 1231 by pooled faecal samples by PCR

\**Pasteurella pneumotropica* oral sample by PCR from mice room 1226 (Heyl) oral and pooled from room 1224/2 (Jawetz) and pooled from room 1225 (Jawetz). Rats positive by oral and pooled rooms 1228 and 1233 (Jawetz), cultures neg.

### From same unit:

*Pasteurella pneumotropica* from rats oral sample and pooled room 1228 and 1233 (Jawetz), culture neg

### From other units of LAC:

Barrier — *Pasteurella pneumotropica* pos from the room 1258/2 by oral sample by PCR, pooled sample involving the same mouse was neg.

Bioteknia 2 — *Entamoeba spp* pooled faecal sample in mice (rooms 0249); *Pasteurella pneumotropica* oral sample by PCR rats room 0420 (Jawetz).

### Historical results:

#### 12.05.17

Barrier — *Pasteurella pneumotropica* (Jawetz) positive mouse from room 2251 by pooled faecal samples by PCR, swabs were **neg, considered as negative** as further test from faecal pellets and throat by PCR were neg (PCR, Idexx, 5 animals including former pos. cagemade)

Canthia — *Pasteurella pneumotropica* (Jawetz) positive mice rooms 1224/2 and 1230 and rats from rooms 1226 and 1228 by PCR by faecal samples, swabs were neg – **count as neg**

Snellmania conventional — *Pasteurella pneumotropica* (Jawetz) positive mice from room 2242 by faecal samples by PCR, swabs were neg – **count as neg**. *Entamoeba spp* pooled faecal sample in mice (room 2217).

*Pasteurellaceae* were cultivated from rabbit in room 2245. *Pasteurella pneumotropica* (Jawetz & Heyl); *Pasteurella multocida* and *Bordetella bronchiseptica* and *Pasteurellaceae spp* **were negative** from faecal PCR by SDL and from additional swabs taken for cultivation on 8. June from (the same animals tested by Movet).

28.11-2.12.16– Snellmania conventional — *Entamoeba spp* pooled faecal sample in mice (rooms 2216, 2255)

Canthia — *Entamoeba spp* pooled faecal sample in mice (rooms 1224) and in rats (rooms 1226, 1229, 1233)

18.04.16 – no positive findings

23.11.2015 – no positive findings, PCR from pooled samples

05.05.2015 – no positive findings; pooled samples taken from 15 mice and swabs from 3 mice.

### Former outbreaks:

**Canthia unit was under major cleaning and decontamination with hydrogen peroxide in Dec 2014. Only rats were kept and treated to eliminate *Helicobacter spp* (Nov 2014...February 2015) and additionally tested in March and April 2015.**

In Canthia 1 — *Helicobacter rodentium* was found rats and in Canthia 2 mice were positive *H. hepaticus* and *H. rodentium*); Murine norovirus. Mice were all killed before decontamination.

**After positive findings of Mouse Parvovirus (MPV) form mesenteric lymph nodes in mice in May 2011 barrier was renovated and biodecontaminated. New animals arrived 19. July 2012.**

#### 10.5.2011

**Mouse parvovirus found mesenteric lymph nodes and faecal samples in Bioteknia 2, Canthia 1, Snellmania Barrier and –Conventional. Barrier was renovated and biodecontaminated. From 2012 all samples neg.**

**A. tetraoptera in Canthia 1 found in 2011. Rodents were medicated with fenbendazole January-March 2012 due. All samples after that neg.**

1. Historical and latest test results: Number of animals positive / number of tested animals; NT not tested.
2. Abbreviations of laboratories: SDL: Surrey Diagnostics Limited, UK; Evira: Finnish Food Safety Authority, Kuopio; LAC – Lab Animal Centre, University of Eastern Finland, Kuopio.
3. Abbreviations of methods: BEAD – bead multiplex assay; MFIA: Multiplexed fluorometric immunoassay; CULT: Culture; PCR: Polymerase Chain Reaction; ELISA - enzyme-linked immunosorbent assay; IFA - Immunofluorescent assay ; MICR: Microscopy; FLOT – Faecal Flotation; STEREO – stereomicroscope; visual – visual observation

Pooled faecal pellets – usually collected from 5 different animals from same room;

Swab/pooled – also pooled faecal pellets in media collected from animals used for serology testing – usually 2 animals per room