Supplementary Materials

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Supplementary file 1

-Figures are named by: supplementary file 1 - mouse # - figure #

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Mouse 12

Surgery date: 01.04.19

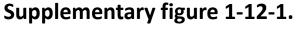
• Age (weeks) 11

• Weight (g) 20.5

Tumor fragment P3-1A

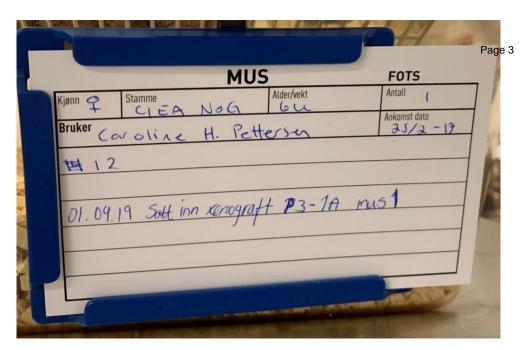
Ear marks1

Fragment size 4*4 mm



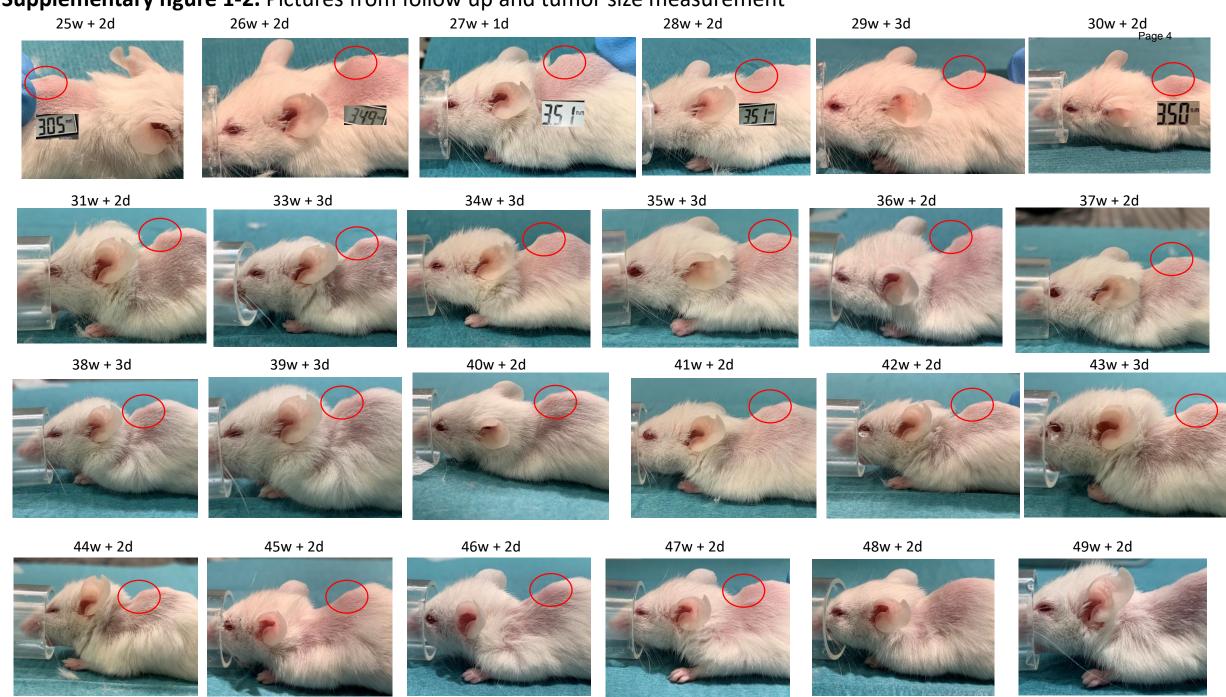
Pictures from the engraftment day.







Supplementary figure 1-2. Pictures from follow up and tumor size measurement



PDX - Xencgaft 1/4/19

Pettersen, Cardine

cut som hjerk/large er nie sammensalet, trill burger mytorma

Size? (a 1,3mm normal, pancron whore/humar?

visiable? en liken forheigning under huden, tatt ut 51 HFS

SECTION TAKEN

- Mouse 12 was used as a «social mouse» during treatment with Smartfish containing fish oil for mouse 17
 - Did not have growing xenograft at that time, were suspected to have removed xenograft itself

Supplementary figure 1-12-3. Pictures form euthanization of mouse 12 (11.03.2020 / 49w + 2d)



Xenograft almost not visiable



Only small trace visiable of xenograft



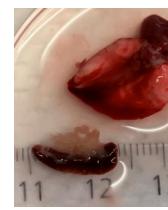
Necroscopy



Undefined dark «bladder» with liquid close to pancreas.



Necroscopy



Lungs filled with formalin Spleen, lungs and heart



12 (P3-1a) klipp

ORGAN WEIGHT

Blodhort

DATE 11.03.20 CLINICAL SYMPTOMS AT DEATH Frish/ healthy

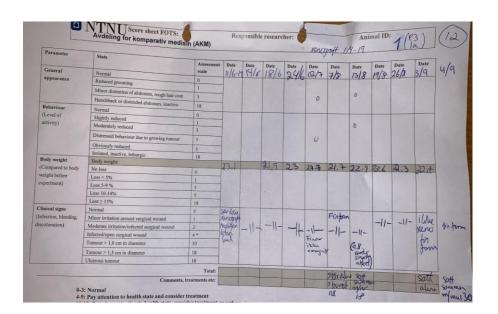
9) xenograft

Autopsy card modified from: http://www.pathbase.net/Necropsy of the Mouse/

Supplementary figure 1-12-4. Pictures of scoresheets

O N	TNU Score sheet FOTS: (is Avdeling for komparativ medisin	(AKM)	Resp	onsible	e researc	her:	X	enograf	/	nal ID: 4-/9	1	(P3)	12)
Parameter	State	Assessment	Date 2,4,19	Date 3.4	Date 5.4.	Date	Date 24.4	Date 30.4	Date 7/5/19	Date ISK/#	Date 21/5	Date 28/5	4/6
General	Normal	0	,	0	G	0	6	0	0	0	0	6	-
appearance	Reduced grooming	1		0			0	0	6	0	100	0	
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0			6		A	2	O	,	2	0	
(Level of	Slightly reduced	1	1	1	0	6	14	0	0	6			1 50
activity)	Moderately reduced	3											
	Distressed behaviour due to growing tumour	3					1						
	Obviously reduced	5						1					
	Isolated, inactive, lethargic	18								3.00	000	-	-11 -
Body weight	Body weight:		20.2	18000		20.2	21.5	21.6	21.5	21.8	22.9	225	24.3
(Compared to body	No loss	0	700			6	0		0	0	0	0	
weight before	Loss < 5%	1	•	1 3									
experiment)	Loss 5-9 %	3	-				1		1000			1	
	Loss 10-14%	5				188							
	Loss ≥ 15%	18	100					Van der d			-		-
Clinical signs	Normal	0	0		0	5 XSM	N ENIA	barber	Ser	ca	- 5X5	4,5	44
(Infection, bleeding,	Minor irritation around surgical wound	1			-	X2-150ya	H55553	Eu	Kenog	\$ 5x5	- 3/3	10	
discoloration)	Moderate irritation/infected surgical wound	3		12	100		9-1), (3 lehre	1		145	
	Infected/open surgical wound	4 *		March 1	30 10	0	6		erilt		1000	10	
	Tumour > 1,0 cm in diameter	10		197		1	0	0	Str		100		
	Tumour > 1,5 cm in diameter	18		6	1	1		10	1				
	Ulcerous tumour	18										1	
		Total					1	Maria Comment	100			1	
	Comment	s, treatments etc	100	1000	1					1			

Parameter	State	Assessment scale	Date	Date 9	Date 11/9	Date 13/9	Date 16/9	18/9	Date 23/9	Date 25/4	Date 30/9	Date 2/10	41
General	Normal	0			1		-						
appearance	Reduced grooming	1											
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0											
(Level of	Slightly reduced	1											
activity)	Moderately reduced	3										100	
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5								1			
	Isolated, inactive, lethargic	18											
Body weight	Body weight:	1.00	22.7-	229	28.3	23.5	22	21,9	122.3	22.3	218	223	2
(Compared to body	No loss	0			~,	- / //			-	The state of	1		
weight before	Loss < 5%	1											
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5										100	
	Loss ≥ 15%	18									19.11		
Clinical signs	Normal	0	er Tila	ser ilike	11	11_	-11-	//-	1	20			
(Infection, bleeding,	Minor irritation around surgical wound	1	Xonia	, How	-11-	-11-	111	-11	1	- DX	1-11-	3	8
discoloration)	Moderate irritation/infected surgical wound	3	1	ocorning						toch	. "	-	
	Infected/open surgical wound	4 *		1						ll all		3,5	V.
	Tumour > 1,0 cm in diameter	10								1		3×5	
	Tumour > 1,5 cm in diameter	18					100			NR)	1	
	Ulcerous tumour	18								100	*		
		Total:								1		100	1
	Comments,	treatments etc:		-					100		1		
4	-3: Normal -9: Pay attention to health state and consider 0-13: Pay close attention to health state, con- 4-18: Euthanasia *Start treatment with anti-	r treatment sider treatment	or eutha	nasia in 3 days	, euthaniz	e the anin	nal					1	

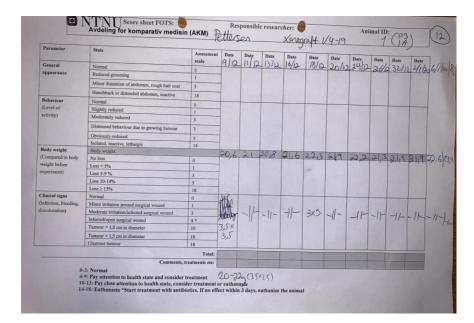


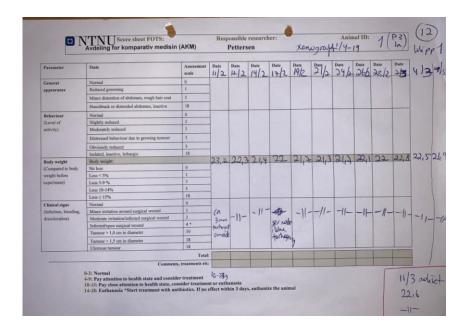
Parameter	State	Assessment	Date 4/10	Date	Date	Date	Date 16/10	Date 18/10	21/10	Date 33/10	Date	Date 30/10
General	Normal	0	1110	0/10	7.0	1.770	10/10		2110	20110	20110	27.0
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3			1 3							
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1	1		100	1						
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3	- 0									
		5	100									
	Obviously reduced Isolated, inactive, lethargic	18										
Body weight	Body weight:	18	219	22.1	21.7	216	22,5	23	278	800	21,7	21.1
(Compared to body	No loss	0	-1,1	V	-	110	13	000		1		
weight before	Loss < 5%	1			1 30							
experiment)	Loss 5-9 %	3										
	Loss 10-14%	5				1000			100			
	Loss ≥ 15%	18	0		100							
Clinical signs	Normal	0	25	25	254	1.	3,5 x 3,5	-11-	3.7	35		3,5
(Infection, bleeding,	Minor irritation around surgical wound	1	3,5 3,5	3,5 X5	25	-11-	20		31.	3,5 ×	11	×
discoloration)	Moderate irritation/infected surgical wound	3	3,5	25	2'2		25		12	20	11	25
	Infected/open surgical wound	4.		A			30		1,7	213		2,5
	Tumour > 1,0 cm in diameter	10							1	1	1	
	Tumour > 1,5 cm in diameter	18							1 23	SOL DE	1	
	Ulcerous tumour	18										
		Total:										
1	Comments	treatments etc:	10000			1000						

Supplementary figure 1-12-4. Pictures of scoresheets

Parameter	State	Assessment		Date //	Date	Date	Date	Date,	Date	Date	Date	Date	
General	Normal		4/11	19 6/11	12/1	13/11	15/11	18/11	20/11	25/11	27/1	21/2	5
appearance	Reduced grooming	0	-				-					-	
Marian	Minor distention of abdomen, rough hair coat	-	-										
	Hunchback or distended abdomen, inactive	3											
Behaviour	Normal	18											
(Level of	Slightly reduced	0											
activity)	Moderately reduced	1											
		3											
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5											
Name and Address of the Owner o	Isolated, inactive, lethargic	18	1	. Lanca				2.1					
Body weight	Body weight:		21,9	23,7	23,4		22,1	19,8	209	222	4,00	211	0
(Compared to body	No loss	0			- Frank	-	-		out,	- AND	17	01/11	2
weight before	Loss < 5%	1						1-2		1			
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											
	Loss ≥ 15%	18											
Clinical signs	Normal	0	co		ade		- 44	.01	1				
Infection, bleeding.	Minor irritation around surgical wound	1	2546	3,7x	04	19	Sailty	IND.	3,5			4	
discoloration)	Moderate irritation/infected surgical wound	3	201413	27	3/3		Sayalt	Falan	d x	-11.	- 1-	1-11-	3
	Infected/open surgical wound	4 *		131	Ke	313	popon	LIL	35		1	195	
	Tumour > 1,0 cm in diameter	10		moment	3/4	_	bene.	Velute	-1-			1	Ш
	Tumour > 1,5 cm in diameter	18		Robbet	716	3,5	,						ш
	Ulcerous turnour	18		Shulle									Ш
		Total		or						_		-	41
		- 57000											81
	Comments, (3: Normal 9: Pay attention to health state and consider	Total:		nasia									

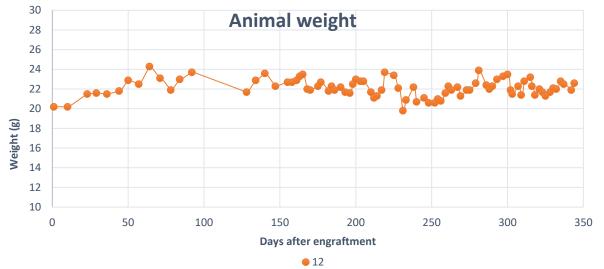
Parameter	State	Assessment	13/1	15/1	Date 1	25/1	Date 22/1	Date 241	27/1	Date)7/	Date 30/1	Date 3/2	5/
	Normal	0	13/1	101	1.1	10001	Cat 1	1/1					12
General appearance	Reduced grooming	1											
appearance	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18		1									
			-	-									
Behaviour	Normal	0											
(Level of	Slightly reduced	3									1	1	
activity)	Moderately reduced	-	-										
	Distressed behaviour due to growing tumour	3										1	
	Obviously reduced	5									-		
	Isolated, inactive, lethargic	18	0011	00	55 2	123	222.2	- 233	23,5	219	34215	722.3	121
Body weight	Body weight:		22,4	25	22,5	10	165 750	124	0-313	30.16.3	PERCUE.	-	
(Compared to body	No loss	0	-										
weight before	Loss < 5%	1	-										
experiment)	Loss 5-9 %	5	1			4						1	
	Loss 10-14%	18											
	Loss ≥ 15%	0		1									
Clinical signs	Normal Minor irritation around surgical wound	1	10				1					-1×	1 20
(Infection, bleeding,	Minor irritation around surgical wound Moderate irritation/infected surgical wound	3	3,2	1-11	-1-11	-11	-11	-	1-11-	-	-17-	-17	
discoloration)	Infected/open surgical wound	4*	The	1	11	111	Hatt		1				
	Tumour > 1,0 cm in diameter	10	Latt.				Without	helps			1		
	Tumour > 1,5 cm in diameter	18	9574.38	10			Omrac	6					
	Ulcerous tumour	18	Love				1						
	Dicelous tunnous	Tota						1			1000		
		ts, treatments etc											7
	Commen	is, treatments et	_	229 (_	_		-		-			

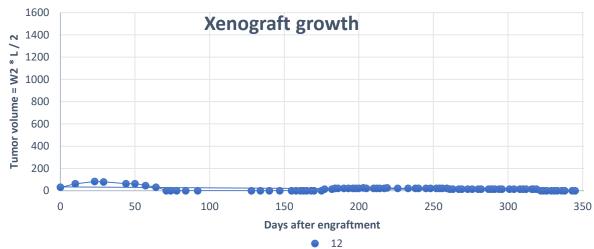




Page 7

Weight curve



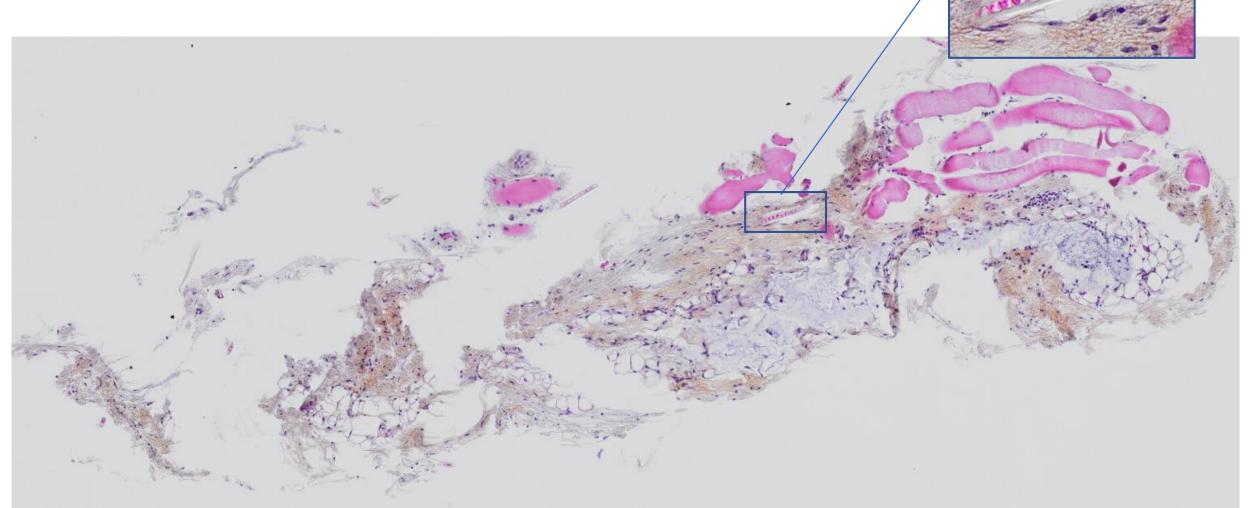


Xenograft growth curve

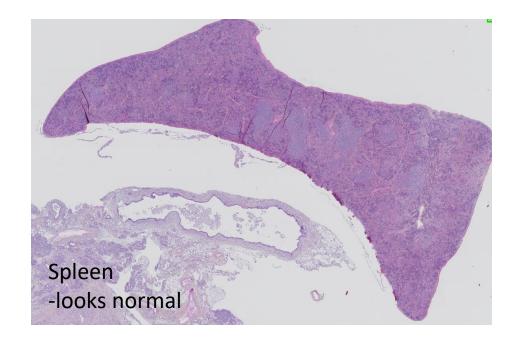
M12X – tissue spot at surgery location at euthanization (thought to be remainings of engrafted tumor material)

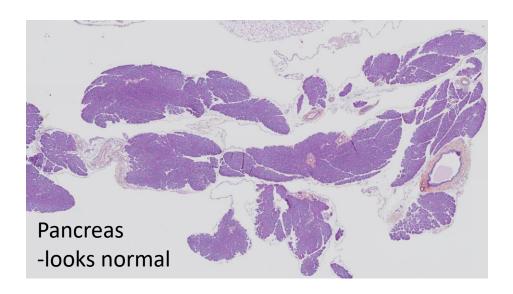
Stained with hematoxylin, eosine and saphron (HES)

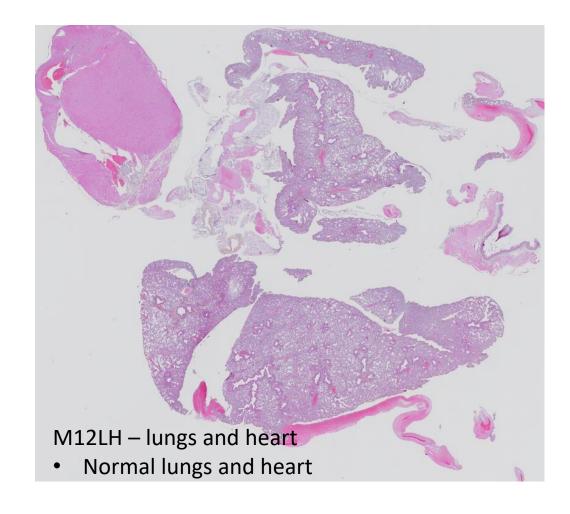
- Probably not xenograft tissue
- No tumor cells found
- Muscle cells, fat, mucus, connective tissue
- Traces of plant cells outside but also inside tissue? Possibly paper leftovers.



Supplementary figure 1-12-6. Histology pictures







Mouse 15

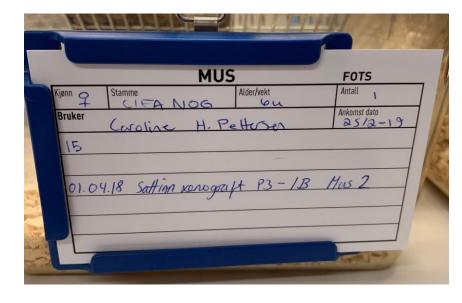
Surgery date: 01.04.18

• Age (weeks) 11

• Weight (g) 18.5

• Tumor fragment P3-1B

• Ear marks 2



Supplementary figure 1-15-1. Pictures from the engraftment day





Supplementary figure 1-15-2. Pictures from follow up(14.06.19) and score sheets





Blood sample and treatment

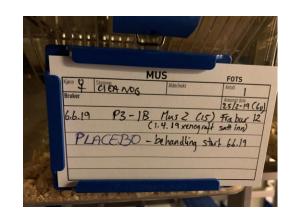
Blood samples before and after treatment

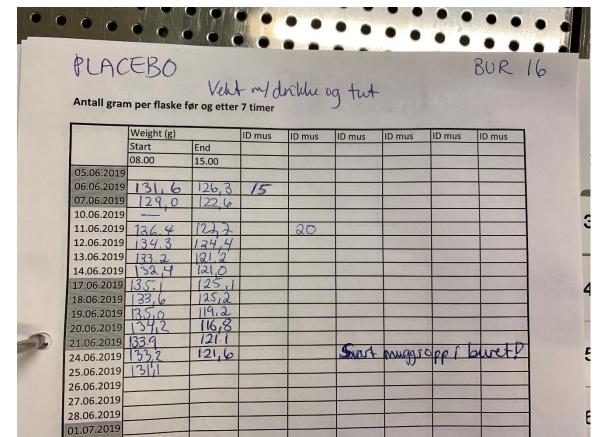
• Before: Vena Saphena

After: heart

Placebo treatment

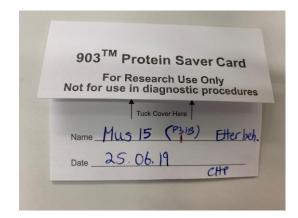
Supplementary figure 1-15-3. List over treatment with placebo. Numbers are weight in grams before and after provided to the mice.





Supplementary figure 1-15-4. Pictures from euthanization (25.06.19)

- Necroscopy
 - Xenograft size 15.5 x 10
 - Blood sample (blood card and plasma)
 - Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation



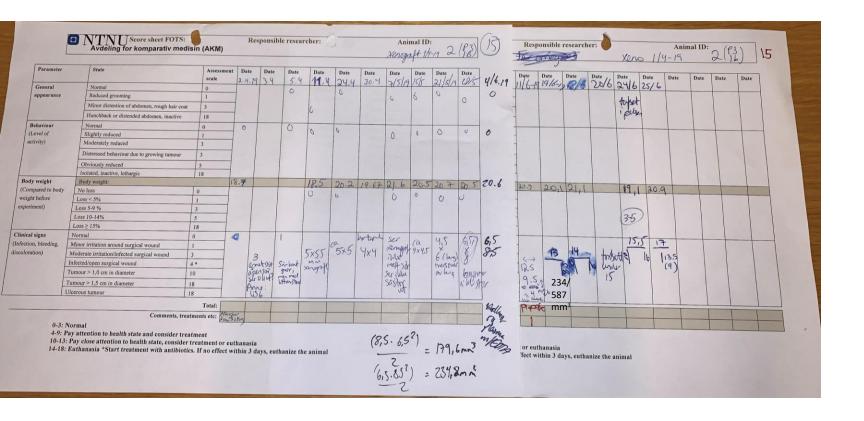




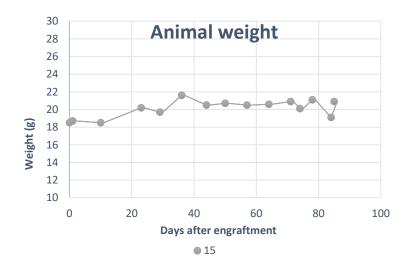








Weight curve



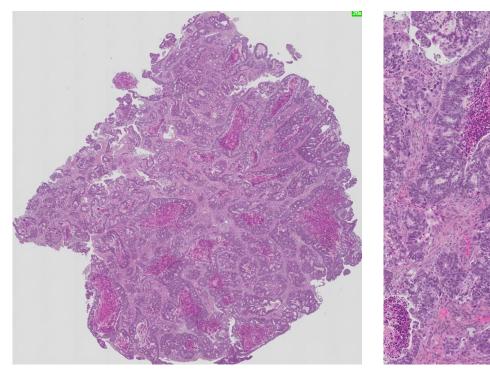
Xenograft growth curve



15



M15X



- Typical colorectal adenocarcinoma
- Very similar to the HES staining og patient tumor 3
- Gland forming cells
- Necrotic debris withing glandular lumen

Mouse 16

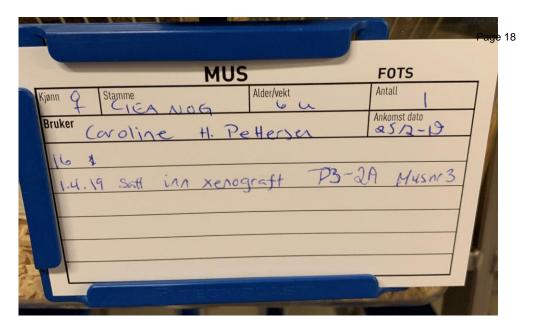
■ Surgery date: 01.04.19

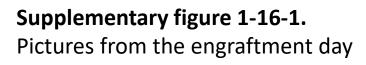
• Age (weeks) 11

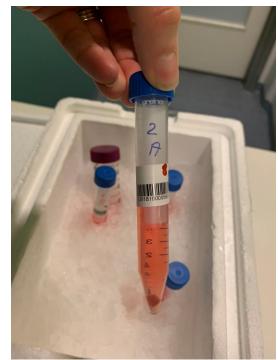
• Weight (g) 18.2

• Tumor fragment P3-2A

Ear marks3









Supplementary figure 1-16-2.

Pictures from follow up (14.06.19)





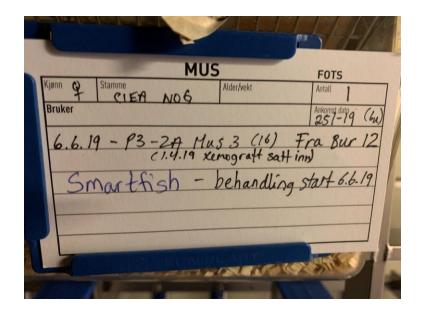


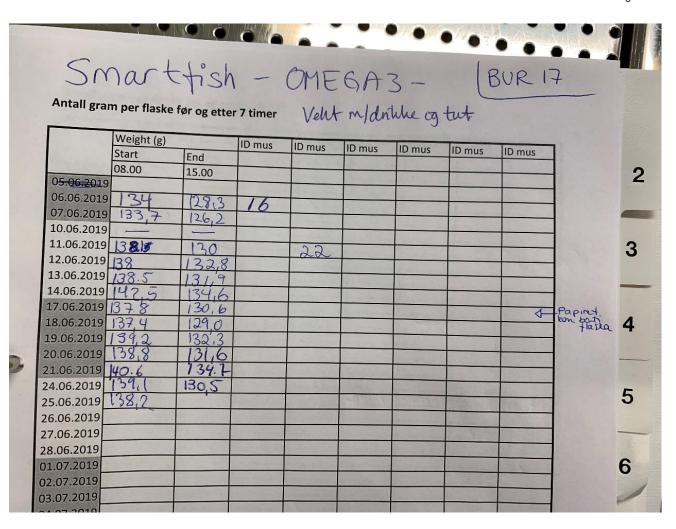


Blood sample and treatment

Before: Vena SaphenaAfter: heart 04.06.19

Treatment: Smartfish with fishoil (OMEGA-3)





Supplementary figure 1-16-3. List with weight registrations of the drinking bottle (with Smartfish Remune Peach drink) before and after provided to the mice

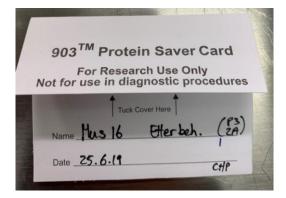
- Xenograft size 13 x 11.5
- Xenograft partly liquid
- Visiable blood vain formation
- Blood sample (blood card and plasma)
- Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation











Supplementary figure 1-16-5. Pictures of score sheets

Parameter	State	Assessment scale	Date	Date 3.1.19	Date 5.4	Date	Date 29.4.1	Date 30.4	P/5/19	Date 15/5/F	71/5	78/5		11/6-A	14/6	Date (120/6	24/6	25/6				
General	Normal	0		0	0	0	-		0		0			1								
appearance	Reduced grooming	1					6			0				-								
	Minor distention of abdomen, rough hair coat	3												1								
	Hunchback or distended abdomen, inactive	18												-	-							
Behaviour	Normal	0	0	0	0	6			6	0	0	4		-								
(Level of	Slightly reduced	1				0	0							-	1							
activity)	Moderately reduced	3												-								-
	Distressed behaviour due to growing tumour	3												-								
	Obviously reduced	5	1	100										-								
	Isolated, inactive, lethargic	18					2-	0.00	01/	21 6	010	910	718	22.1	21,5	21,9	21,9	22,3				
Body weight	Body weight:		18.9			20.0	20.	31.2	1 71.6	XI-0	21.7	210	21.0	100/1			ou					
(Compared to body	No loss	0				1	^		D	10	0						000					
weight before	Loss < 5%	1				0	U															
experiment)	Loss 5-9 %	3	-																			
	Loss 10-14%	5	-														11.5	17			-	
	Loss ≥ 15%	18			0	0			xunano	4/-	12.	1	***	-12x	R	12 Im	'Di -	12	-			
Clinical signs	Normal	0		1	0	0	-5	5×S	harvol	6,2	6,32	1	-	-12x	RXII		ار	121				
(Infection, bleeding,	Minor irritation around surgical wound	3	1	,		5,5x	125x	2×2	malt	6,2	- 0.1	12	8,3	-	11	11 2						
discoloration)	Moderate irritation/infected surgical wound	4 *	1			5,5×	313		6×6			1020	- 62	4	726	5						
	Infected/open surgical wound Tumour > 1.0 cm in diameter	10			1	1			0/6	1		70.0.	8,5	-	mn							
		18												-	11111	'						
	Tumour > 1,5 cm in diameter Ulcerous tumour	18	1												7							
	Olcerous turnour	Total:											blid r	Omeg	N3							
		is, treatments etc:											,,	1111						1950		

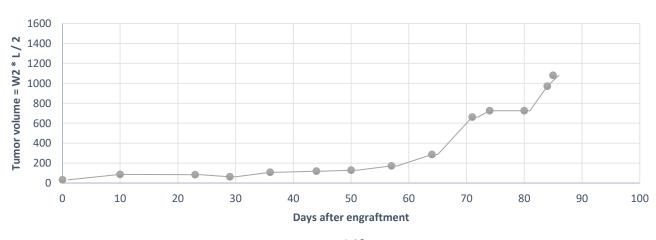
Supplementary figure 1-16-6. Mouse and xenograft growth curves

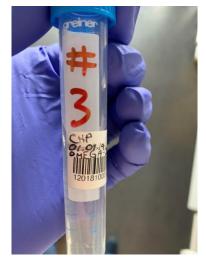
Weight curve

Animal weight Weight (g) Days after engraftment 016

Xenograft growth curve

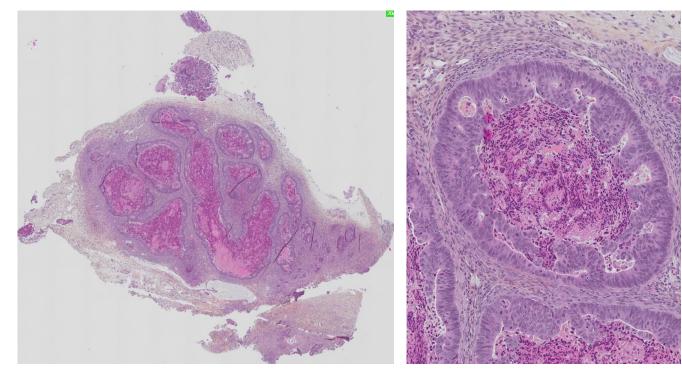
Xenograft growth







M16X



- Typical colorectal adenocarcinoma
- Very similar to the HES staining of patient tumor 3
- Necrotic debri within glandulas

Mouse 17

Surgery date: 01.04.19

• Age (weeks) 11

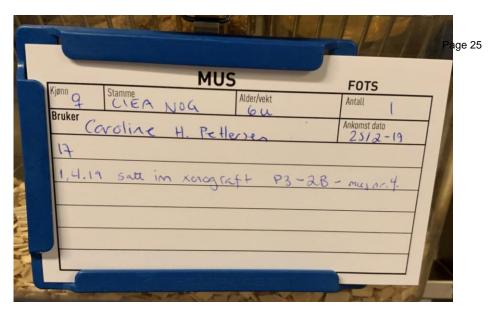
• Weight (g) 18.4

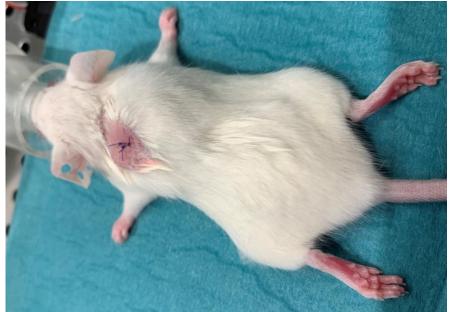
• Tumor fragment P3-2B

Ear marks4

Supplementary figure 1-17-1. Pictures from the engraftment day



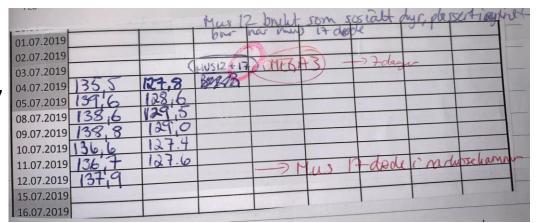




Supplementary figure 1-17-2. List over weight registrations of the drinking bottle before and after provided to the mice

Treatment:

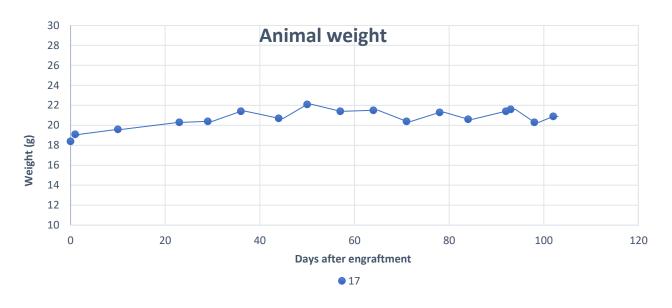
- Smartfish with fishoil (OMEGA-3); started 04.07.19.
 - Xenograft 7.5 x 7.5 mm
 - Mouse 12 was used as social animal together with mouse 17
- Died 12.07.19 during anasthesia
- Xenograft not sampled
- Xenograft not pictured



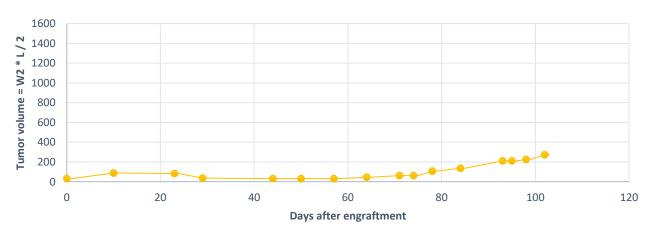
rameter	State	Assessment	Date	Date	Date 5.4	Date	Date 24.4.	Date 30.4	Date 7.5/19	Date 15/5	Date 21/5	Date 28/5	4/6/29	Date 11/6-1"	Pate	18/6	24/6	Date 02/7	Date 03/7	Date 5/7	8/7	Date 12/7	Date
	Normal	0	0.7117	2.4.1		0	6		0	6	0	0		-		ou							
neral pearance	Reduced grooming	1							0					-			1	0	0	0			
pearance	Minor distention of abdomen, rough hair coat	3		0	0									-									
	Hunchback or distended abdomen, inactive	18												-		8							
	Normal	0	0			6	0		0	0	0	0		+		00		0		6			
ehaviour evel of	Normal Slightly reduced	1				0								-				0	0	0			
tivity)	Moderately reduced	3		6	0									-									
	Distressed behaviour due to growing tumour	3												-									
	Obviously reduced	5												-								209	
	Isolated, inactive, lethargic	18				la I	200	30,40	DIV	202	1 22/1	21.4	21.5	20,4		21.3	20,6	21.4	21.6		20,3	466	
ody weight	Body weight:		19.1			19,6	20.0	00,90	-			-11				Oh					10		
Compared to body	No loss	0		-		0	6		0	0	0	0		1		100000					3		
eight before	Loss < 5%	1		0	13							4		1									
(periment)	Loss 5-9 %	3																					
	Loss 10-14%	5																					
	Loss ≥ 15%	18						. 1 .	1 5				6. 1	EVS		6×6	6,5		7.5	7,5	8,0	8,3	
linical signs	Normal	0	0	0	0		Jaronel	g borby	1 January	ca ca	. 4x	4 4x4	Mex 1	L. Jala	111	UNG	100				12		
Infection, bleeding,	Minor irritation around surgical wound	1		0		5,6x5	6 a mare	1 4×4,	, , , ,	MAX	1 1/	1 11	7	C good	<u> </u>		51		2	H	1,3	100	
iscoloration)	Moderate irritation/infected surgical wound	3				mm	+ 1055		walt				//0	xerupo	1		10		100	14.			
	Infected/open surgical wound	4 *				Demojo	x50		Str						4								
	Tumour > 1,0 cm in diameter	10							OV.														
	Tumour > 1,5 cm in diameter	18																					
Jan John Daniel	Ulcerous tumour	18																				Died	
		Tota																	A CAR			Diec	
		ts, treatments etc	: lay 33h	0.4								20/10/2000	100			_	_	_				04.7.	

Weight curve

Xenograft growth curve



Xenograft growth



Mouse 18

■ Surgery date: 03.09.19

• Age (weeks) 33

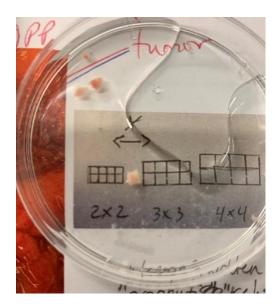
• Weight (g) 22.1

• Tumor fragment P19-2b

• Fragment size 3 x 3 mm

• Ear marks 4

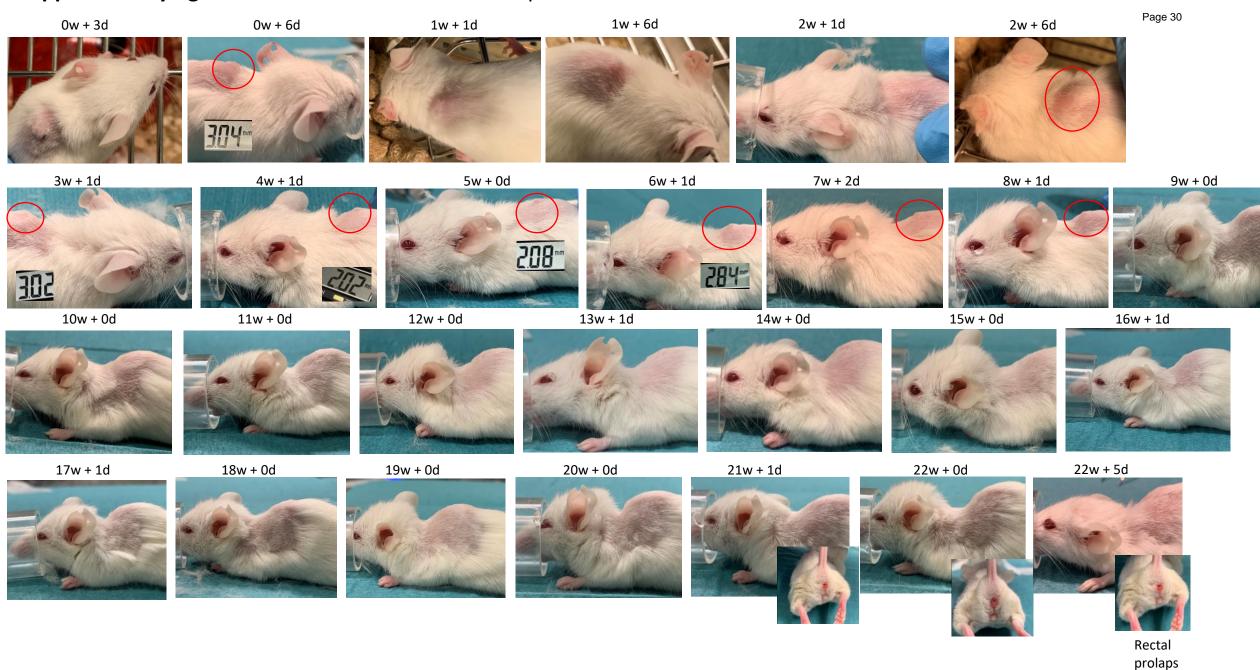
Supplementary figure 1-18-1. Pictures from the engraftment day

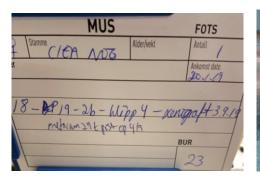






Supplementary figure 1-18-2. Pictures from follow up and tumor size measurement







Reduced health, Rectal prolaps; svollen bloody anal opening Weight sligtly reduced.



Large spleen, ca 2,5 cm, normal colour



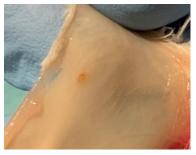
Whitish part of one lung



Red, svollen anal opening



Bloody anal opening of rectum



Only a small spot left of the xenograft

Before euthanization:

- Reduced health
- Rectal prolaps; red, svollen anus opening
- Reduced Weight 19,8 g
- Not growing xenograft (xenograft almost not visible)
- No treatment given

After euthanization:

- Enlarged spleen 2,5 cm
- Whitish part of one lung
- Xenograft did not seem to have grown

Histology samples:

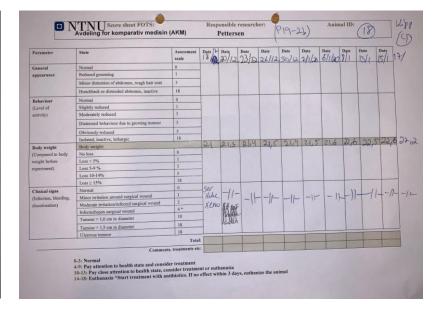
- M32ET Rectum
- M32N Kidneys
- M32MP Milt/pancreas
- M32LH Lung and Heart
- M32L Liver

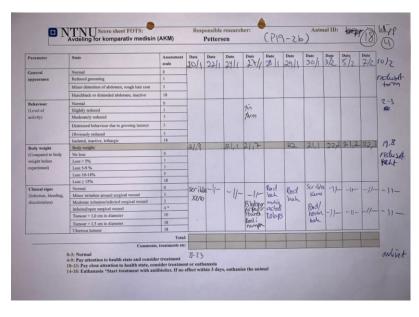
State	Assessment	Date 2/9	Date	Date	Date /	Date	Date	Date	Date	Date	Date	
Normal	0	2/1	7/7	MG	1/9	119	13/9	16/9	18/	120/9	23/	925
Reduced grooming	1									1		
Minor distention of abdomen, rough hair coat	1	-										
							1					
	1172	-										
	-											
Moderately reduced	-											
	-											
		-										
	18	1. 11		910	0111	00.1	0.0	000				-
	I o	degale		21,2	4,4	221	2/19	225	22,4	21,9	24	21
No loss Loss < 5% Loss 5-9 % Loss 1-14% Loss ≥ 15%	1						1000					
	3											
Loss 10-14%	5											
Loss ≥ 15%	18											
Normal	0	Soft	ob.	1140.	5,5	- 11	- 11	11			20	cer i
Minor irritation around surgical wound	1		2 1110	torhusai	Kerw	TH	-11-	-11-	11	3×2	43	budeli
Moderate irritation/infected surgical wound	3	200000	OK	343	2x3				3V.	1-1-	20	xeno
Infected/open surgical wound	4 *	771		2	(1.1				0,0		43	Whent
Tumour > 1,0 cm in diameter	10			4	borber							12X2
Tumour > 1,5 cm in diameter	18				41200							Duchic
Ulcerous tumour	18				macy							- 200
	Total:							1				
	Normal Reduced grooming Miser distantion of adomen, rough hair coar Hunshback or distanted addomen, rough hair coar Hunshback or distanted addomen, inactive Normal Slightly reduced Modernaty veduced Distressed Substriant due to growing tumour Obviously senders Holsten, inactive, technaryic Body weighet No Ions No Ions Lons ≤ 95, Lons ≤ 95, Lons ≤ 95, Lons ≤ 1956 Normal reduced to the proposition of the propo	Normal Scale Normal Resheed grooming 1 Resheed or self-self-self-self-self-self-self-self-	Normal State Sta	Normal 0 0	Normal 0 Date D	Normal 0 Date 3/4 1/5 Date 3/4 Date 3	Normal Date Date	Normal O	Normal Date Date	Normal	Normal State Date Date	Normal Date Date

	TNU Score sheet FOTS:	(AKM)	Rest	Pette	research	er:	(P	19-26,		nal ID:	(18)	
	State	Assessment	Date 25/9	Date 30/9	Date 2 10	Date 9 /10	Bate //o	Date 11/10	Date 4/10	Date 16/10	Date 187/0	Date /11
	Normal	0										
	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
	Normal	0										
	Slightly reduced	1										
	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18		-	-	21,3	0/16	01.2	210	205	210	217
nt	Body weight:		21	01,3	121,+	3/12	041	21,3	21p	aropu	min	-4
to body	No loss	0	-									
re	Loss < 5%	1	-									
)	Loss 5-9 %	3	-									
	Loss 10-14%	5	+									
	Loss ≥ 15%	18	a.mal				-			25		
zns	Normal	0	- Sec. 14	M_11	- 05	exe	2	2+2,	12x2	3	1-11-	1-11-
bleeding.	Minor irritation around surgical wound	1	rydeus	11	414	+	×	2		28		
on)	Moderate irritation/infected surgical wound	3	xervoy	47			2	orce .		-		
	Infected/open surgical wound	4 *	- Green	-								
	Tumour > 1,0 cm in diameter	10	- Torn	-			1					
	Tumour > 1,5 cm in diameter	18	barb		1							
	Ulcerous tumour	18	Owo	91				1	1			
		Total	1			-	-	-				

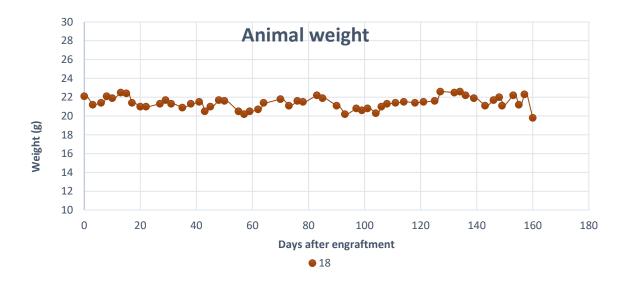
Parameter	State	Assessment	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
General	Normal	0	18///	20/1	25/1	27/11	2/12	5/12	9/12	11/12	13/12	161
appearance	Reduced grooming	1	1							100	-	10000
	Minor distention of abdomen, rough hair coat	3	+		1							
	Hunchback or distended abdomen, inactive	18	k									
Behaviour	Normal	0		-								
(Level of	Slightly reduced	1										
activity)	Moderately reduced	3	1									
	Distressed behaviour due to growing tumour	3	-									
	Obviously reduced	3										
	Isolated, inactive, lethargic	18										
Body weight	Body weight:	110	214	210	22.2	21,9	011	0/00	002	De C	20 0	On.
(Compared to body	No loss	0	1000	witte	SALES OF	24	1111	20,0	200	1446	20,0	WU,
weight before	Loss < 5%	1							1			
experiment)	Loss 5-9 %	3						1		1		
	Loss 10-14%	5										
	Loss ≥ 15%	18										
Clinical signs	Normal	0										
(Infection, bleeding,	Minor irritation around surgical wound	1	-				-11	1.	11	100	4	-11
discoloration)	Moderate irritation/infected surgical wound	3	14-11	-//-	-11-	-11-	1	-1/-	1-11	-n-	-11	111
	Infected/open surgical wound	4.	XCE WAR	"		- 41						
	Tumour > 1,0 cm in diameter	10	Keno			-11-						
	Tumour > 1,5 cm in diameter	18										
	Ulcerous tumour	18										
		Total:	Toronto.	100		1000				0	1	
	Comments	treatments etc:										
1	-3: Normal -9: Pay attention to health state and consider 0-13: Pay close attention to health state, cons 4-18: Euthanasia *Start freatment with anti	treatment	20-2	2g ve	lut							

Parameter	State	Assessment scale	Date 2110	Date 23/10	Date 28/10	Date 39/10	Date ///	Date 4/11	Date 6///	Date / 2//)	Date 13/1/	Date /5///
General	Normal	0	-1110	2000		-	-/-/-	-111	9///	-7/1	-7.11	10111
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1										
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18						1				
Body weight	Body weight:		21,7	21,6	20,5	20,21	20,5	200	21,4	21,8	184	211
(Compared to body	No loss	0	100	100				1 "			1	
weight before	Loss < 5%	1				1 3	1				1	1
experiment)	Loss 5-9 %	3					1	1		at.		
	Loss 10-14%	5										
	Loss ≥ 15%	18				-	-	1	-	See	C- 3	
Clinical signs	Normal	0	2,5	10	4	-			usild	W to	Seril	W.
(Infection, bleeding,	Minor irritation around surgical wound	1	(1)		×	ca			pajam	5 luk	y oxers	7 -1-
discoloration)	Moderate irritation/infected surgical wound	3	1	13	1	2,7			KONTE	4190	1	
	Infected/open surgical wound	4 *	2.8	347	1 5	12.7 ·			111.70	re bulle	nl.	
	Tumour > 1,0 cm in diameter	10		13	-	weber	1		project	it		
	Tumour > 1,5 cm in diameter	18		/		V.			hundy 14	XX		
	Ulcerous turnour	18			1		-	-	200	The second		
		Total:						4	2,7x2	7		
	Comment	s, treatments etc:							berby	-	1	

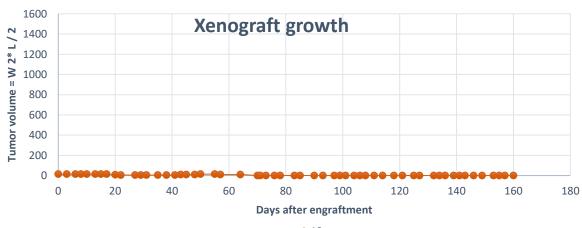




Weight curve



Xenograft growth curve



Mouse 19

■ Surgery date: 14.05.19

• Age (weeks) 17

• Weight (g) 20.6

• Tumor fragment P11-1A

Fragment size 4*4 mm

Ear marks1



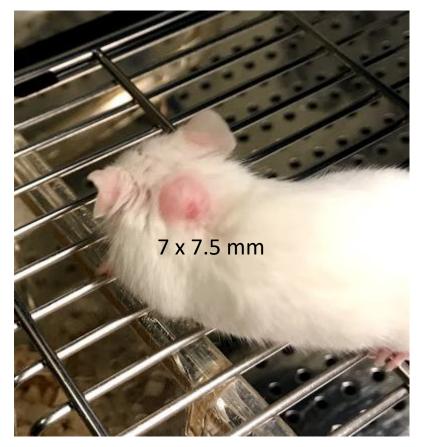


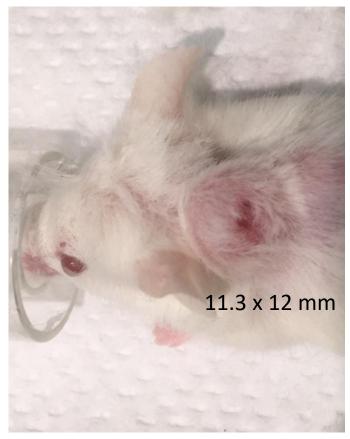
Supplementary figure 1-19-1. Pictures from the engraftment day





Supplementary figure 1-19-2. Pictures from follow up

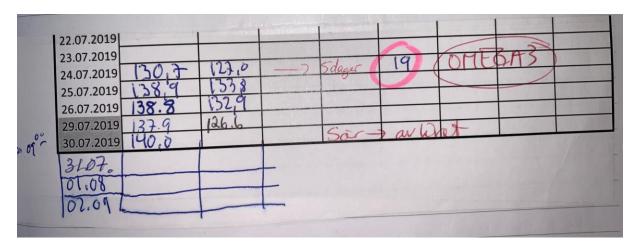




18.07.2019 30.07.2019

Supplementary figure 1-19-3. List over weight registrations of the drinking bottle (with Smartfish Remune Peach) before and after provided to the mouse

- Smartfish with fishoil (OMEGA-3)
- 5 days
- Blodsamples were taken before and after treatment

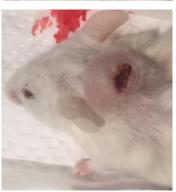


Supplementary figure 1-19-4. Pictures from euthanization (30.07.19)

- Xenograft size 11.3 x 12 mm
- Wound on skin over xenograft
- Blood sample (blood card and plasma)
- Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation
- Note; stomach contains nutrition drink











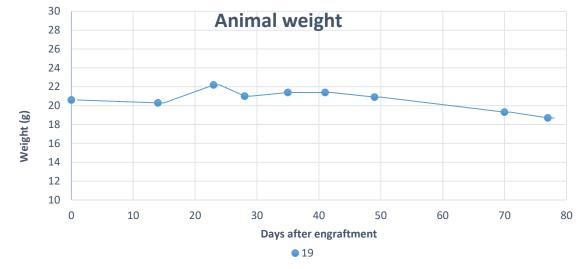




Supplementary figure 1-19-5. Pictures of score sheet

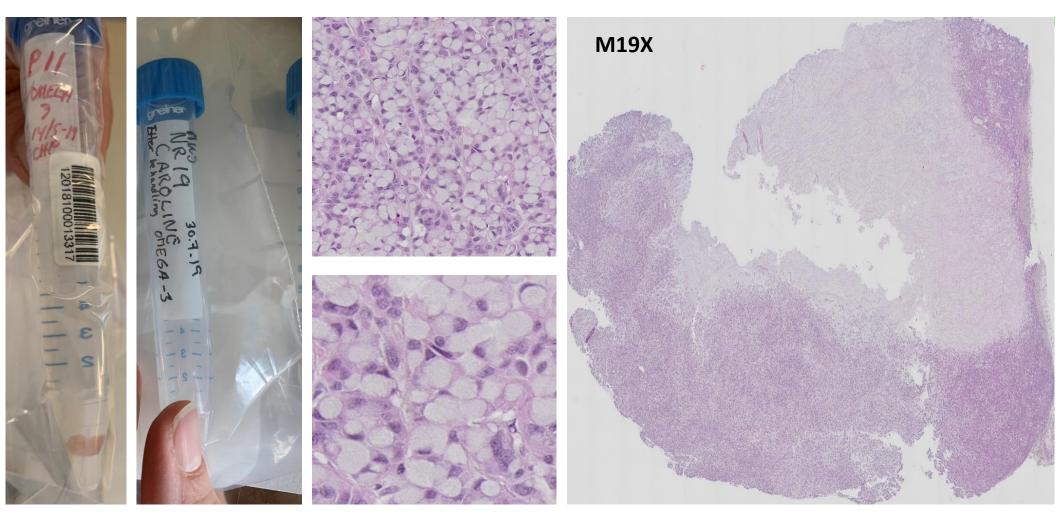
Parameter	State	Assessment scale	Date 28/5	Date 6/6/19	Date 11/6-19	Date 146	Date 1876	24/6	Date Od/	Date 23.2	Date 30,7	Date
General	Normal	0	6						0			
appearance	Reduced grooming	1								0		
	Minor distention of abdomen, rough hair coat	3					La Contraction				C	
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0	0									
(Level of	Slightly reduced	1							0			1
activity)	Moderately reduced	3				FITT				-	1	
	Distressed behaviour due to growing tumour	3							1 19	0	0	
	Obviously reduced	5				Park State		100		188		
	Isolated, inactive, lethargic	18								10.0	100	
Body weight	Body weight:		20.3	22,2	21,0		21,4	21,4	20.9	19,4	187	
Compared to body veight before	No loss	0	0									1 1-11
	Loss < 5%	1								1	1000	
	Loss 5-9 %	3		1		100	1 3	1			- Aller	
	Loss 10-14%	5			189	193	1				1	
	Loss ≥ 15%	18	Cecili									
Clinical signs	Normal	0	Serill	Hen	2010	- 11-	1-1-	-11		Bur FIR	IK B. B	4
(Infection, bleeding,	Minor irritation around surgical wound	1	-Xoron	lunder	enliter	-11-		1/-	-11-	1.10	of L. De	*
discoloration)	Moderate irritation/infected surgical wound	3	tollisa	U	portagnin	7	1				R-19	3
	Infected/open surgical wound	4 *	Attac	1	1						F: 13	
	Tumour > 1,0 cm in diameter	10	01/04	01	12 20				1		F. 19	
	Tumour > 1,5 cm in diameter	18										Harris I
	Ulcerous tumour	18			4	_						
		Total:				1 3 3				1		
-	Comment	s, treatments etc:	No.		100000						àu pà r te ter ret ho	

Weight curve



Xenograft growth curve





Signet ring cells

- Signet ring cell adenocarcinoma
- Some necrosis

Mouse 20

Surgery date:	14.5.19
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- Age (weeks) 17
- Weight (g) 24.0
- Tumor fragment P11-1B
- Fragment size 4*4
- Ear marks 2

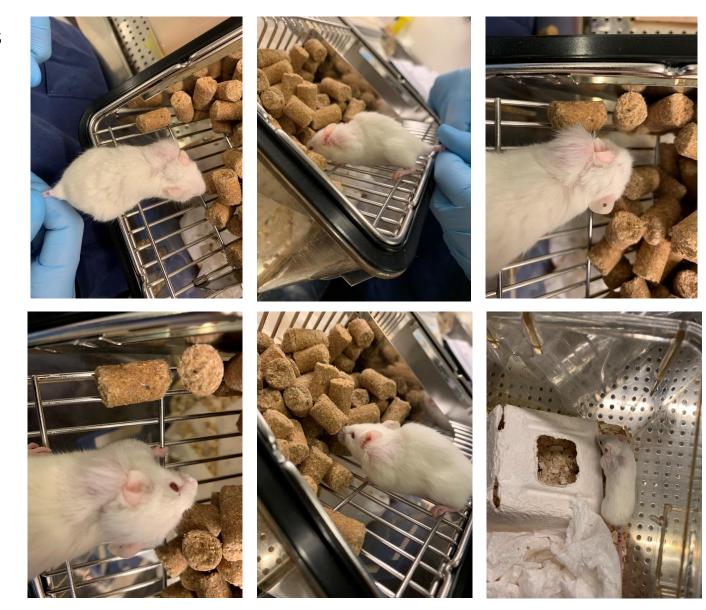




Supplementary figure 1-20-1. Pictures from the engraftment day

Supplementary figure 1-20-2. Pictures from follow up (14.06.19)

the day before treatment start



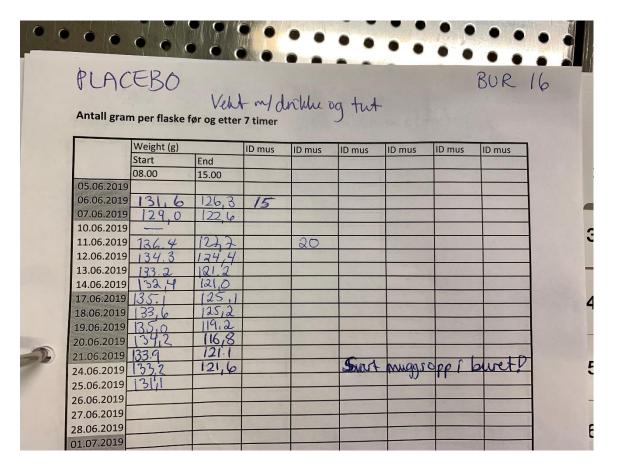
Blood sample and treatment

■ Before: Vena Saphena11.06.19

Hard to get blood sample from

After: Heart

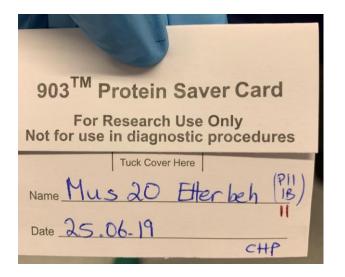
Treatment: Placebo



Supplementary figure 1-20-3. List over weight registrations of the drinking bottle (with Placebo) before and after provided to the mice

Supplementary figure 1-20-4. Pictures from euthanization

- Xenograft size 17 x 11.5
- Blood sample (blood card and plasma)
- Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation







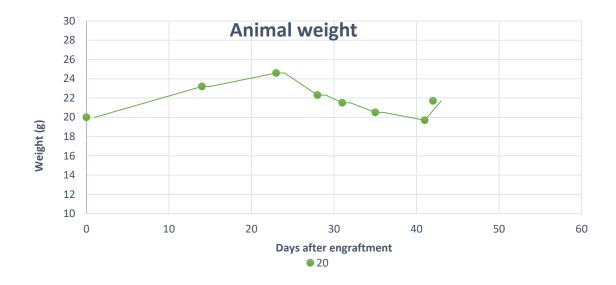


Supplementary figure 1-20-5. Picture of score sheet

• N	Avdeling for komparativ medisin	(AKM)	Resp	onsible	research	her:		(99)	Anir	nal ID	PIL	16
Parameter	State	Assessment	Date 72/5	Date 6/6/19	Date 1116	Date 19/6-1	Date 9 18/6	Date 24/6	Date 25/4	Date	Date	Date
General	Normal	0	20.0		- 1			111	1		I ASW	
appearance	Reduced grooming	1					1iH	litt.				1
	Minor distention of abdomen, rough hair coat	3	1				pari	typer				
	Hunchback or distended abdomen, inactive	18					pelser	1 celso			1 3 3 3	
Behaviour	Normal	0		135	7	,			3 9 9 9		1000	
(Level of	Slightly reduced	1				1	tintom					
activity)	Moderately reduced	3	71.31			littprush	nolis					
	Distressed behaviour due to growing tumour	3	4				resignary			100	-	
	Obviously reduced	5								1 1 3 4		
	Isolated, inactive, lethargic	18										155
Body weight	Body weight:		23,2	2416	22/3	21,5	20,5	19,7	2/17	MERCE	1 1/2	13.10
(Compared to body	No loss	0							2.12	75		
weight before	Loss < 5%	1					8		While	-		
experiment)	Loss 5-9 %	3				100			1		1	
	Loss 10-14%	5	- "									
	Loss≥ 15%	18	4,5x4	5			+					
Clinical signs	Normal	0	Linga	W/201	181	815	9	11.5	11 5	May B		1018
(Infection, bleeding,	Minor irritation around surgical wound	1	Sorca	626	P. 1	NI	11	141	11,5			
discoloration)	Moderate irritation/infected surgical wound	3	1 wheat		19 .	#	2	31	1	- 13		
	Infected/open surgical wound	4 *	grospen			1	1/1	31				
	Tumour > 1,0 cm in diameter	10	ides lett		288 mi	7			1			100
	Tumour > 1,5 cm in diameter	18	imfect			Mary I	1 10	773				
	Ulcerous tumour	18	sassharp									13.
		Total:			PIACT	7kn	1				12	
1 187 6 8	Comments,	treatments etc:			START			1000				100

Supplementary figure 1-20-6. Mouse and xenograft growth curves

Weight curve



Xenograft growth curve

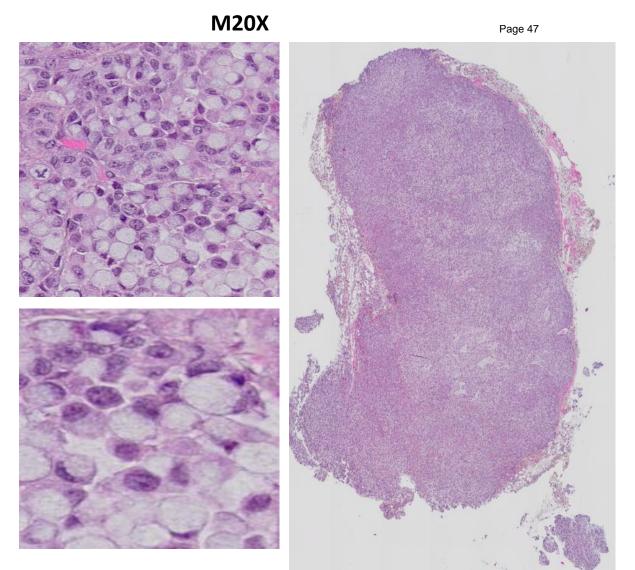


Supplementary figure 1-20-7.

Histology pictures







- Origin from signet ring cell adenocarcinoma
- Can see granulocytes in the blood vains getting attached to enter the tissue through the vain wall

Mouse 21

■ Surgery date: 14.5.19

• Age (weeks) 17

• Weight (g) 20.3

• Tumor fragment P11-2A

• Fragment size 4*4

• Ear marks 3

Supplementary figure 1-21-1. Pictures from the engraftment day





- Xenograft size 7x9 mm
 - Not registered until 06.08.19
- Reduced health and weight
- Tumor tissue not sampled
- No treatment given
- Low blood volume; could not take blood sample









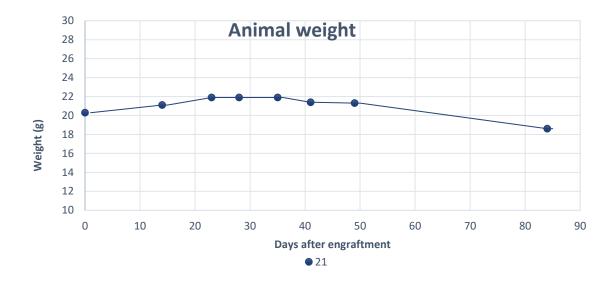
Normal spleen

Supplementary figure 1-21-3. Pictures of score sheets

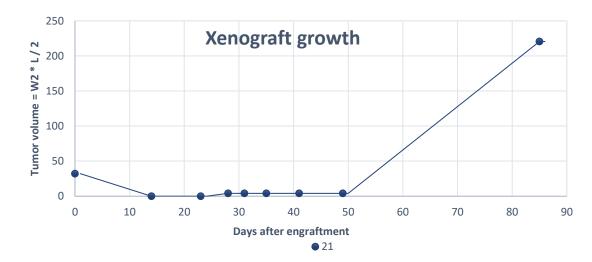
	Avdeling for komparativ medisin											-
Parameter	State	Assessment scale	Date 28 /5	Date 6/6/19	Date 11/6-19	Date 14/6	Date 18/6	Date 24/6	Date 02.7	Date 6/8	Date 7/8	Date
General	Normal	0	0									
appearance	Reduced grooming	1							0			1
	Minor distention of abdomen, rough hair coat	3							0			
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0	0			I Vincella						100
(Level of	Slightly reduced	1					1			1-2		
activity)	Moderately reduced	3								1 2		
	Distressed behaviour due to growing tumour	3							0			100
	Obviously reduced	5										
	Isolated, inactive, lethargic	18									2 3 3	
Body weight	Body weight:		21,1	21,9	21.9	-	2119	21,4	21-3	18,6		1000
(Compared to body	No loss	0	0	~11	0111					10,0		
weight before	Loss < 5%	1								gatt.		
experiment)	Loss 5-9 %	3								hecti		1
	Loss 10-14%	5					3/1			vect		100
	Loss≥15%	18								1300		1
Clinical signs	Normal	0	Ser obogn	tules	Wehal	-11	11	(Î	desd	dirlig	datap	R
Infection, bleeding,	Minor irritation around surgical wound	1	Joean	had	1 Saronn	2111-		-10	-11-	torn	tom	
discoloration)	Moderate irritation/infected surgical wound	3	deser	imme	del	AT.			10-11	tomos	21	
	Infected/open surgical wound	4 *	Sigh	STELLO						eskman	anno	
	Tumour > 1,0 cm in diameter	10	1 Daved	Kundan	,			100		maled	Tunos	1
	Tumour > 1,5 cm in diameter	18		1.0	4		1 3			observero	av7	
	Ulcerous tumour	18						13.74		imorge	17/1	קי
	The state of the s	Total:			100 U.S. 100							

Supplementary figure 1-21-4. Mouse and xenograft curve

Weight curve



Xenograft growth curve



Mouse 22

Surgery date:	14.5.19
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• Age (weeks) 17

• Weight (g) 21.2

• Tumor fragment P11-2B

• Fragment size 4*4

• Ear marks 4

Supplementary figure 1-22-1. Pictures from the engraftment day





Supplementary figure 1-22-2. Pictures

from follow up (14.06.19)





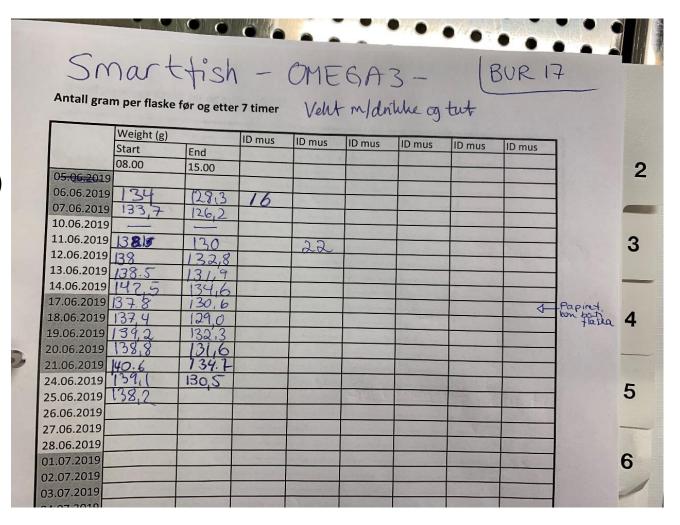
Blood sample

■ Before: Vena Saphena 11.06.19

Hard to get blood sample from

• After treatment: Heart

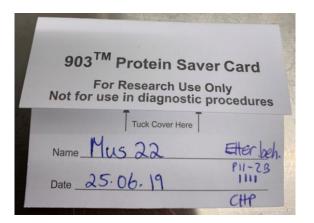
Treatment: Smartfish with fishoil (OMEGA-3)

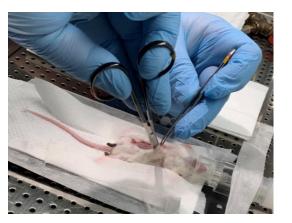


Supplementary figure 1-22-3. List over weight registrations of the drinking bottle (with Smartfish Remune Peach) before and after provided to the mice

Supplementary figure 1-22-4. Pictures from euthanization

- Xenograft size 17x11
- Blood sample (blood card and plasma)
- Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation









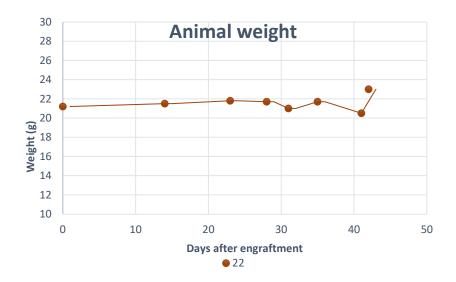




Supplementary figure 1-22-5. Picture of score sheet

			Date	Date	_	-	-	n.	Date	Date ,	Date	Date
Parameter	State	Assessment	28 /5	6/6/19	Date	Date 14/6-19	Date 18/6	20/6	24/6	Date	Date	Date
General	Normal	0	6				777					
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3					100					
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0	0									
(Level of	Slightly reduced	1										
activity)	Moderately reduced	3										1
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18										
Body weight	Body weight:		21,5	8,15	21,7	21	21.7	建	20,5	23		
(Compared to body	No loss	0	0					1				
weight before	Loss < 5%	1										
experiment)	Loss 5-9 %	3				1000						
	Loss 10-14%	5									563	
	Loss ≥ 15%	18			1	2		11.0				
Clinical signs	Normal	0	Ser	, 5,5	100V	7	131	n. May	-11	12		
(Infection, bleeding,	Minor irritation around surgical wound	1	Kerogro	1 ×_	111	M	14 T		M			100
discoloration)	Moderate irritation/infected surgical wound	3	Sarsh	Pt 5,5	Tim	1-1	1.7	m 1	7	日		
	Infected/open surgical wound	4 *	on	1600	032.3		1	Tritsur	1	2		
	Tumour > 1,0 cm in diameter	10			7 4041111			junder				
	Tumour > 1,5 cm in diameter	18						15	1868			1 3
	Ulcerous tumour	18					100000					

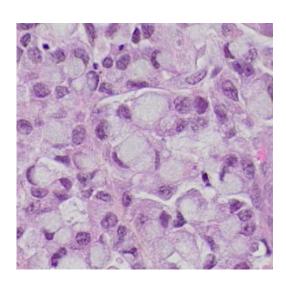
Weight curve

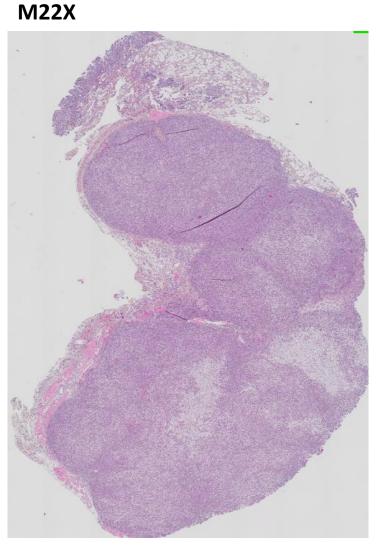


Xenograft growth curve









- Origin from signet ring cell adenocarcinoma
- Very simial to patient tumor 3
- Can see several mitotic cells, tumor tissue, connective tissue and some blood vains

Mouse 23

■ Surgery date: 20.08.19

• Age (weeks) 31

• Weight (g) 24

• Tumor fragment P17-1A

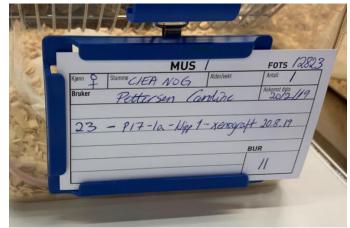
• Fragment size 3 x 3 mm

• Ear mark 1

Note; opened 2 stiches after 1 h -> restiched

Supplementary figure 1-23-1.

Pictures from the engraftment day

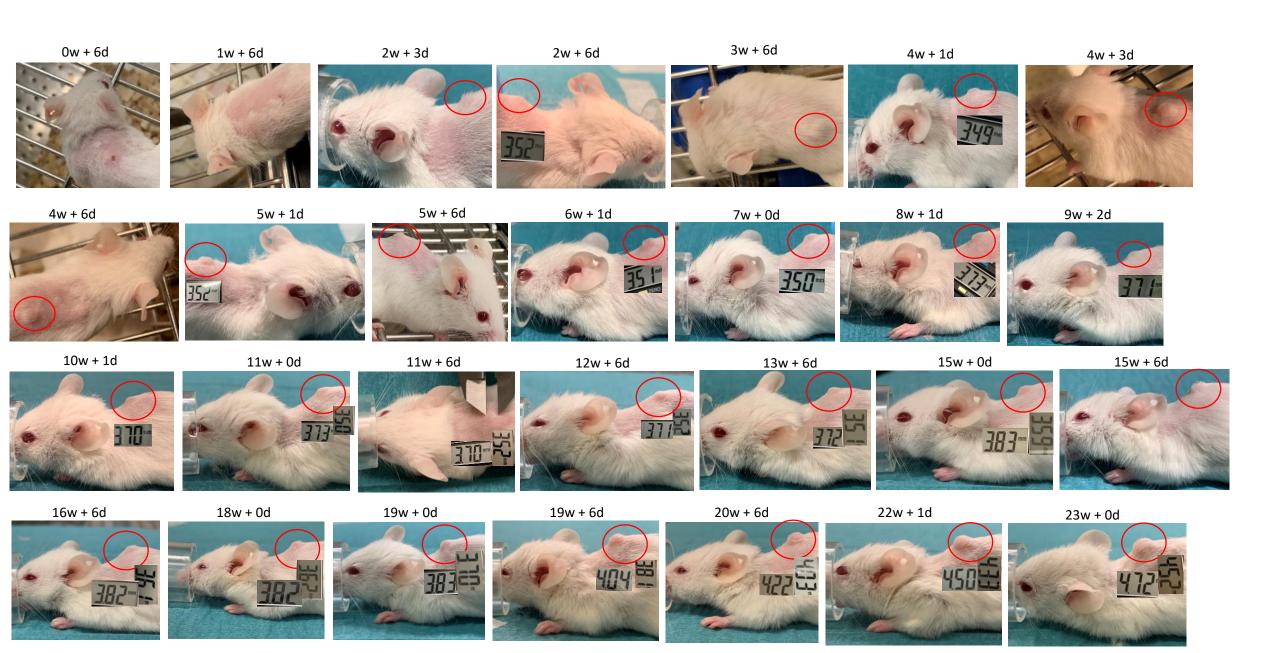




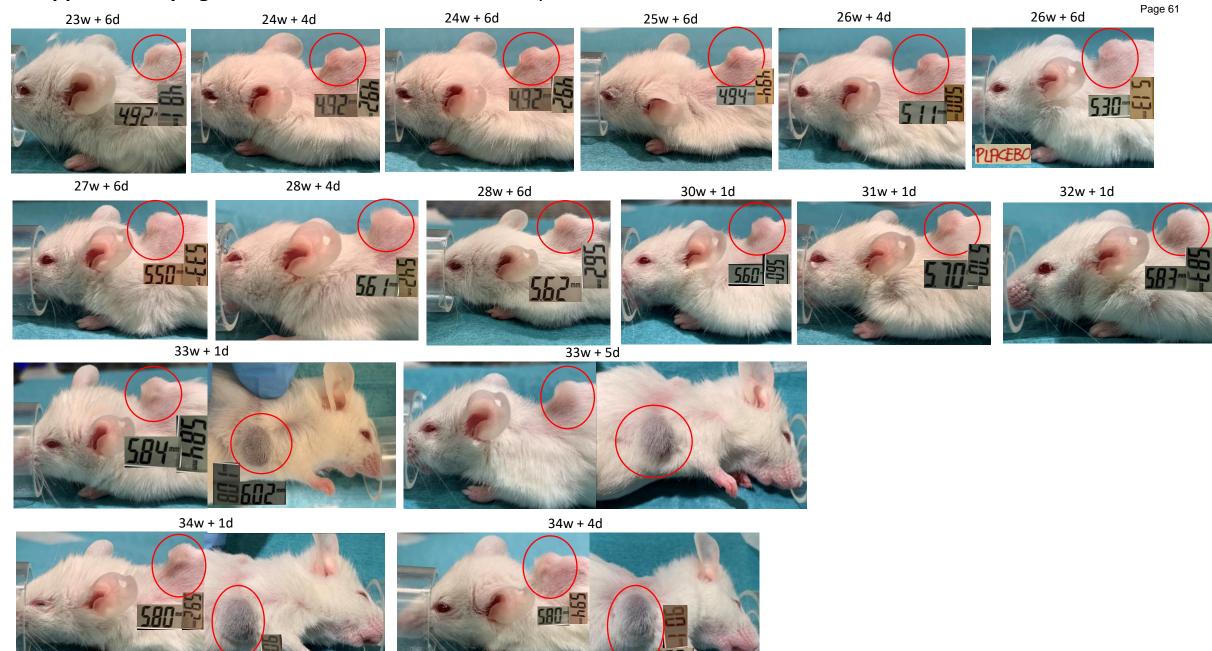






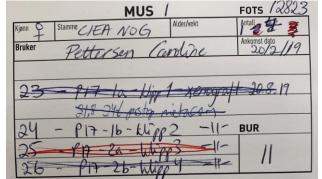


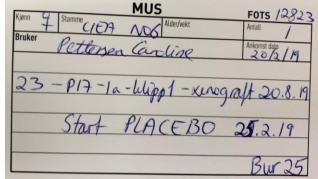
Supplementary figure 1-23-2. Pictures from follow up and tumor size measurement

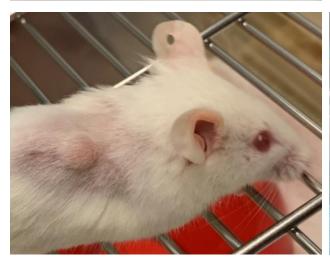


Blood sample (24.02.2020)

- Xenograft 5*5.1 mm
- Stabile weight
- Little blood, anemic?, hard to get blood sample.
- Only 40 μl was spotted on blood card instead of 50 μl.
 - Not blood for preparing plasma
- Starting rectal prolaps? Red in the rectum opening.
- Placebo start 25.02.20







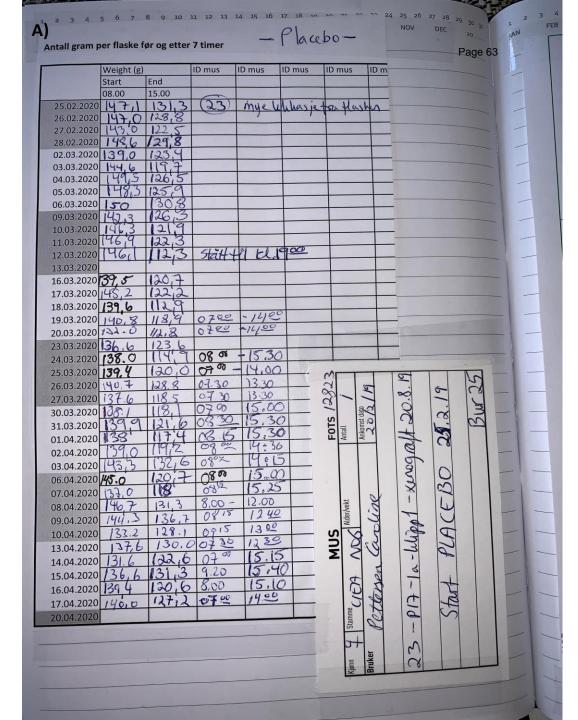


Supplementary figure 1-23-3. Pictures of mouse 23 at treatment startup

Supplementary figure 1-23-4. A) List over weight registrations of drinking bottle (with placebo) before and after provided to the mouse. B) Intake of placebo drink

- Placebo
- Treatment for 8 weeks
- Blood samples taken before/after treatment





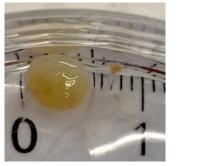
Supplementary figure 1-23-5.

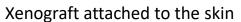
Pictures from euthanization

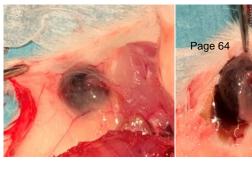
- Reduced weight
- Necroscopy
 - Xenograft size 5.9 x 5.8 mm
 - Secondary tumor size 7.07 x 9.01 mm
 - Blood sample
 - Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation
 - Blood card 40 μl



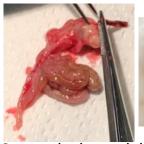








2nd tumor, behind right for leg, dark liquid coming out of it





Stomach clogged, little food in the colon right; clog inspected in microscope (hair and food)



Lungs and heart. Small lungs?



903TM Protein Saver Card

For Research Use Only Not for use in diagnostic procedures

Tuck Cover Here

Date 20, 04.20 etter loh. 14400 (onegas ette)

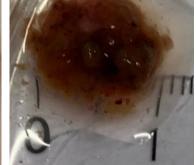
Name P17-la Mus 23

Spleen, small/normal, ca 1 cm



Kidneys and thymus



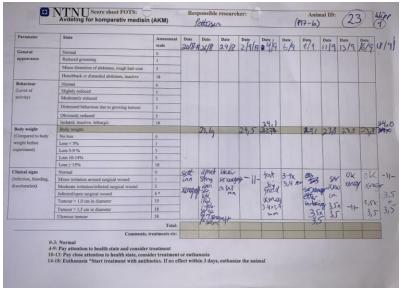


2nd tumor, before and after flushed with NaCl

NUMBER 23 – (P17-1a) – ear cut 1	M	ale Female X	CIEA N	STRAIN	BIRTH DATE	EXPERIMENT	and the				
SE AT DEATH	DEATH N	10DE 60-04, 20	JOILA IV	00	January 2019	PDX – Xenograft GROUP					
	Secondar	SYMPTOMS AT DEATH by tumor right shoulder, xen seed weight (pr	ograft Vm 23	weeks)	Pettersen, Caroline						
ORGAN WEIGHT				S	ECTION TAKEN						
RGAN	WEIGHT	ORGAN	YES	GROSS OBSE	RVATION						
emur		1) Lung + Heart (LH) 2) Liver (L)	X	Small (ings? Filled with	formatin					
Liver		3) Kidney (N) 4) Adrenal	X	ou							
Spleen		5) Testis/Ovary 6) Spleen + pancreas (MP)	×	small sp	leen calum						
Kidney		7) Lymph nodes 8) Bone marrow					SED SED				
Testis/Ovary		9) Xenograft (X) 10) Thymus (T)	X		light alow		00				
		11) 2nd tumor right (TR) 12) 2nd tumor left (TL)	X		7	odomes, dark colors	NON				
Notes: Blood card	NBY	(13) clump in stomach	X	In spected	the storach	and feel claged troubles,	DEC				

Autopsy card modified from: http://www.pathbase.net/Necropsy of the Mouse/

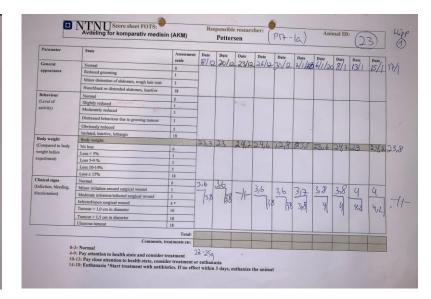
Supplementary figure 1-23-7. Score sheets

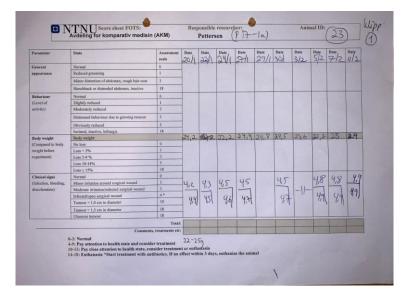


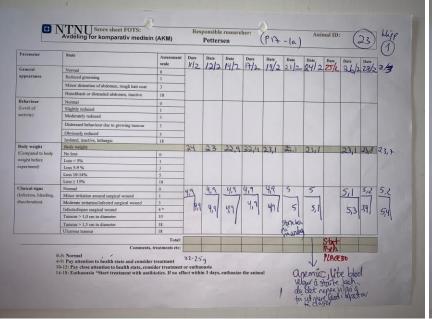
rameter	State	Assessment	Date 20/9	Date 23/9	Date 25/9	Date 30/9	Date 2 10	Date Y//o	Date 8//0	Date II/10	Date 14/0	Date
eneral	Normal	0	-/-	211	2)1.	2011	2110	177.0	0110	/10	1 1/10	18/10
pearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3	1									
	Hunchback or distended abdomen, inactive	18										
haviour	Normal	0										
evel of	Slightly reduced	1	1									
ivity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18								1000	1000	
y weight	Body weight:		240	23.8	22 8	23,6	20	931	23,1	201	22.0	226
npured to body ht before	No loss	0	~ to	6-10	12/0	012,0	P	1	19-11	24,1	23,5	339
	Loss < 5%	1									1	100
	Loss 5-9 %	3									100	
	Loss 10-14%	5									100	
	Loss≥ 15%	18										
al signs	Normal	0		.5-			d .	1	-			
tion, bleeding,	Minor irritation around surgical wound	1		41 3) 1	sst 7	591	35/	3,5	3,54	13.3	35
oration)	Moderate irritation/infected surgical wound	3		3.5	30	-	25		X_	24	1	100
	Infected/open surgical wound	4 *		5.5	5,3	3,5	212	3,5	3.5	212	1	122
	Tumour > 1,0 cm in diameter	10			mond				1-10		1	771
	Tumour > 1,5 cm in diameter	18			ou all					1	100	barb
	Ulcerous tumour	18										1
		Total:										
		reatments etc:										

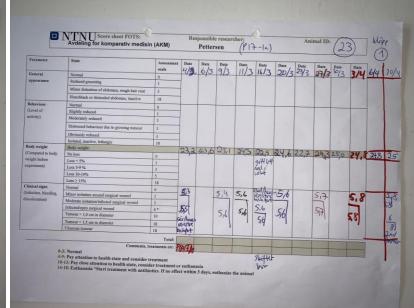
Parameter	State	Assessment	Date	Date	Date	Date	Date	Date	Date	Date	Date	Dute	
General	Normal	scale	16/10	18/10	a-1/10	23/10	28/10	30/10	1/11	4/11	6/11	12/11	13/11
appearance	Reduced grooming	0	-						100	1		10411	1-211
	Minor distention of abdomen, rough hair coat	3	-										
	Hunchback or distended abdomen, inactive	100											
Behaviour	Normal	18								1			
(Level of	Normal Slightly reduced	0											
activity)	Moderately reduced	1	-							19			
		3											
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5						100					
	Isolated, inactive, lethargic	18											
Body weight	Body weight:		22,9	22,4	33,2	3,5	249	26.0	23,4	24,1	25.	24.1	1
(Compared to body	No loss	0		-								7	
eight before periment)	Loss < 5%	1							1	1			
эфеники	Loss 5-9 %	3											
	Loss 10-14% Loss ≥ 15%	5	-										
linical signs	Normal	0		-									
Infection, bleeding,	Minor irritation around surgical wound	1	-3.5	3,5	-11-	3,5		35	1	1.	3,5		3,5
iscoloration)	Moderate irritation/infected surgical wound	3	X	×		*	-11-	1 ×	1-11	-11-			213
	Infected/open surgical wound	4.	37	3,7		37		30	150		3,71		
	Tumour > 1.0 cm in diameter	10	1.11			211		Dit			1.1		1
	III A STATE OF THE	18	batus					1			Durbu		
	Tumour > 1,5 cm in diameter	18									sjohlet		
	Ulcerous tumour								1		Build		-
		Total:					200	100			-		
	Comments,	treatments etc:											
	-3: Normal												
4	-3: Normal -9: Pay attention to health state and consider 0-13: Pay close attention to health state, cons												

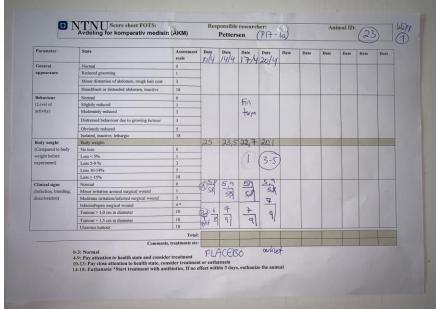
	State	Assessment		Date	Date	Date	Date	Date					(
General	Normal	scale	15/11	18/11	20/11	25/11		2/12	5/12	Date	Date	Date	
appearance	Reduced grooming	0	-		-	1000011	2011	01/0	2117	9/12	11/12	13/12	16
	Minor distention of abdomen, rough hair coat	1	1										
	Hunchback or distended abdomen, inactive	3											
Behaviour	Normal	18											
(Level of	Slightly reduced	0					-	-					
activity)	Moderately reduced	1											
		3	1										
	Distressed behaviour due to growing tumour	3	1										
	Obviously reduced	5											
Body weight	Isolated, inactive, lethargic	18											
(Compared to body	Body weight:		223	2012	1211	22.2	200						
weight before	No loss	0	12	0712	7277	23,7	23	23,4	23,5	23,4	246	242	21
experiment)	Loss < 5%	1	-291	ON.						1		16	
28.20.20.20.40	Loss 5-9 % Loss 10-14%	3	rend	nort									
	Loss 10-14% Loss ≥ 15%	5											
linical signs	Normal	18											
nfection, bleeding		0	20		-								
scoloration)	Minor irritation around surgical wound	1	3.5		35	100	441	S 1780					
	Moderate irritation/infected surgical wound	3	1	-11-		-11-	-1-	-//-	3/	1		. 11	
	Infected/open surgical wound	4 *	137	- "	137	- 11			7/	-11-	1-11	1	~
	Turnour > 1,0 cm in diameter	10	1		1000				316		//		
	Turnour > 1,5 cm in diameter	18							721	9			
	Ulcerous tumour	18							12/				
		Total:											
	Comments, tr		-								1		
0-	3: Normal		95										A III
	9: Pay attention to health state and consider t										_		1











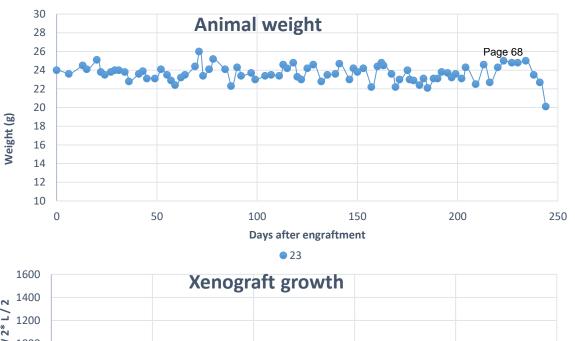
Supplementary figure 1-23-8.

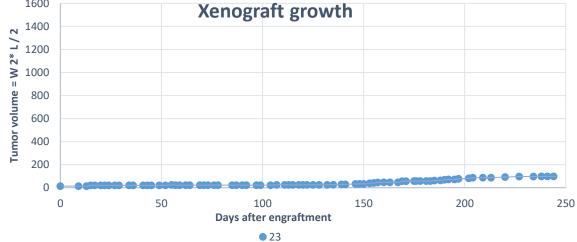
Mouse, xenograft and secondary tumor growth curves

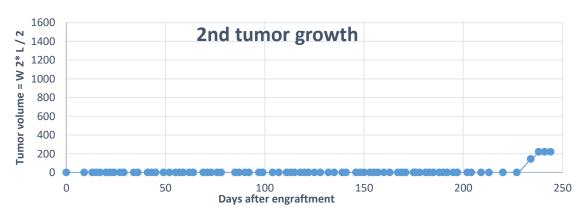
Weight curve

Xenograft growth curve

Secondary tumor growth curve

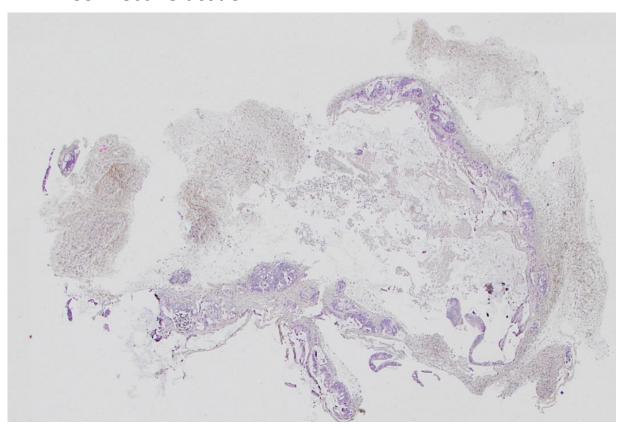






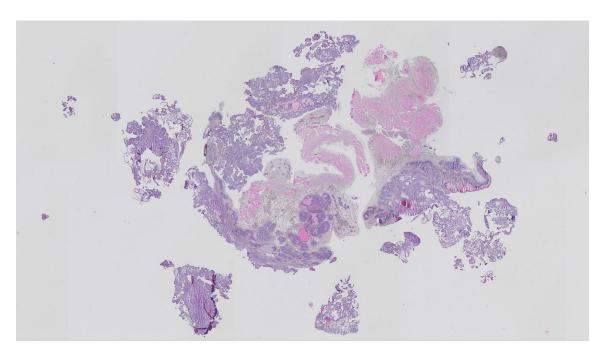
X – xenograft

- CRC Tumor glandulas with necrotic debris in the lumen
- No lymphoma cells
- Mucus
- Necrotic tissue
- Connective tissue



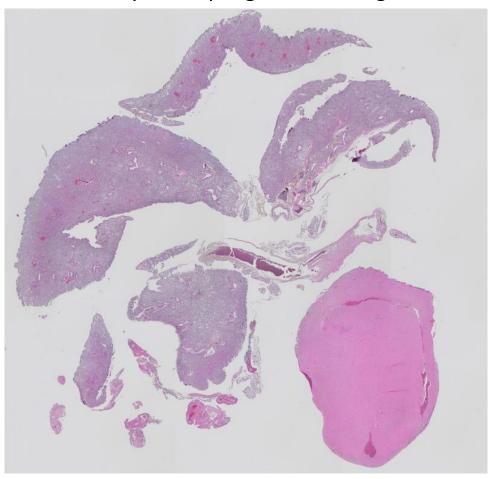
TR – tumor right side (dark bladder with liquid)

- Possible some kind of cyst
- Liquid filled structures
- Does not look malign
- Regularly epithelia



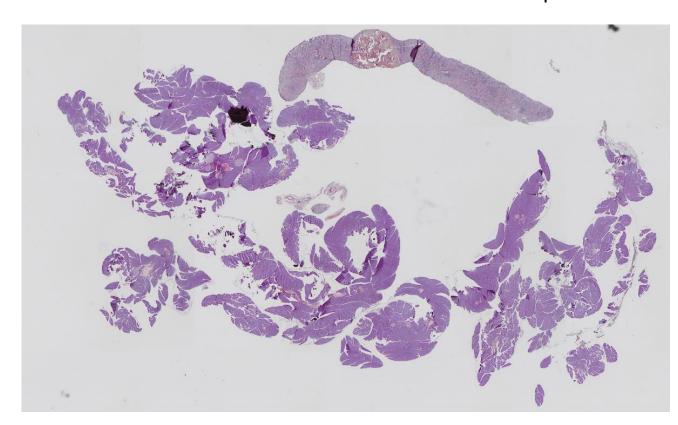
Lungs and heart

- Look normal, however a bit compact lungs
- Possibly macrophages in the lungs



Spleen and pancreas

- pancreas looks normal
- no lyphoid cancer cells
- fibrotic field in the middle of the spleen



Mouse 24

■ Surgery date: 20.08.19

• Age (weeks) 31

• Weight (g) 23.6

• Tumor fragment P17-1B

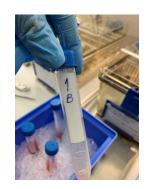
• Fragment size 3 x 3 mm

Ear mark2

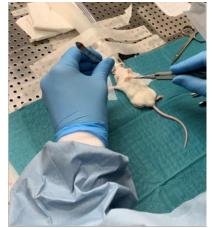










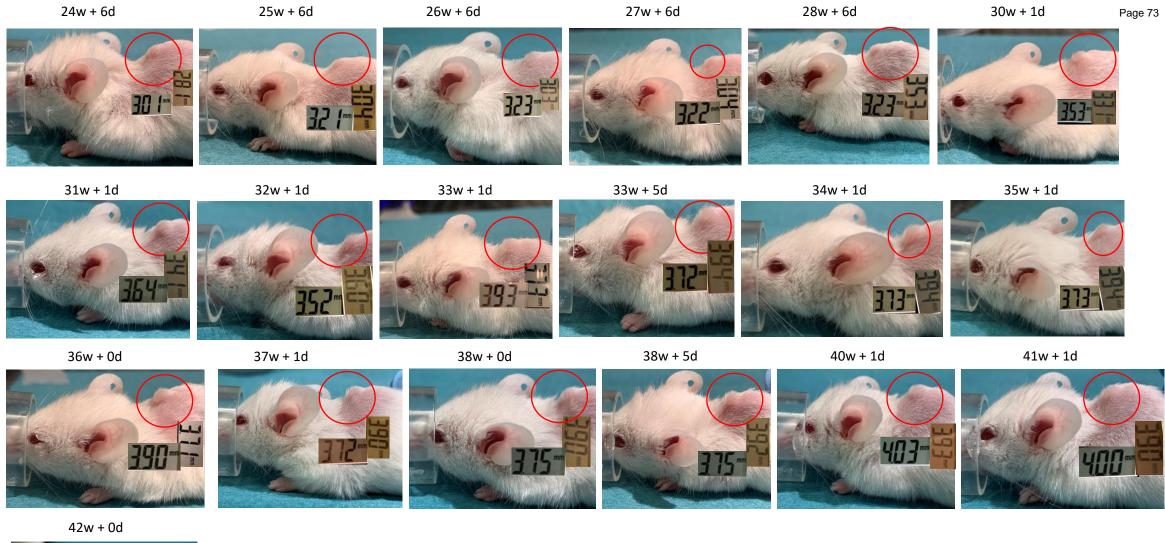


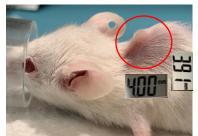




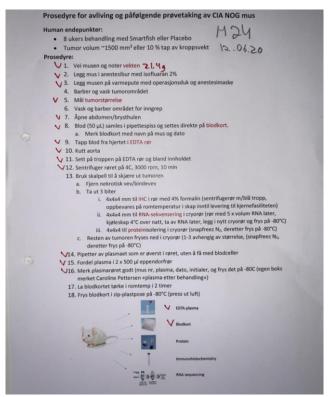
Supplementary figure 1-24-1. Pictures from the engraftment day

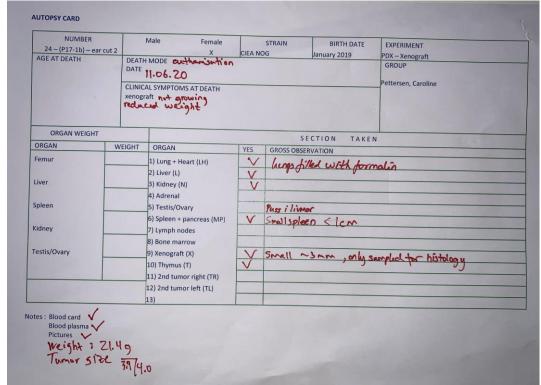
Supplementary figure 1-24-2. Pictures from follow up and tumor size measurement

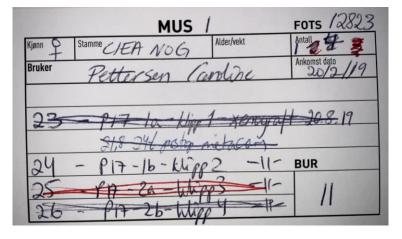




- No treatment given; Did not pass tumor size indicating treatment start
- Necroscopy
 - Xenograft size
 - Blood sample
 - Blood card and plasma
 - Tumor tissue for
 - Histology (only for histology due to small xenograft size)



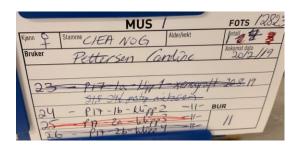




Autopsy card modified from: http://www.pathbase.net/Necropsy of the Mouse/

Supplementary figure 1-24-3. Pictures from euthanization (11.06.20)

- *Xenograft slow growth
- *3 months since animals with not growing xenografts were euthanized





Bloodcard



Xenograft (3.9 * 4.0 mm)



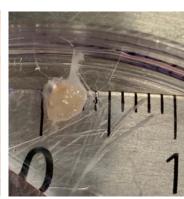
Blood draining



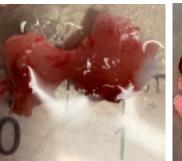
Xenograft

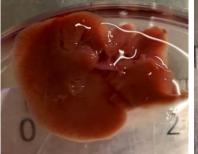


Xenograft



Xenograft





Pancreas

Thymus

Lungs and heart

Liver

Kidney

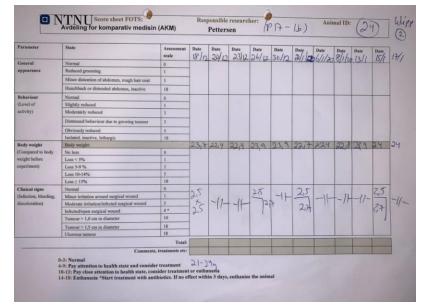
Spleen

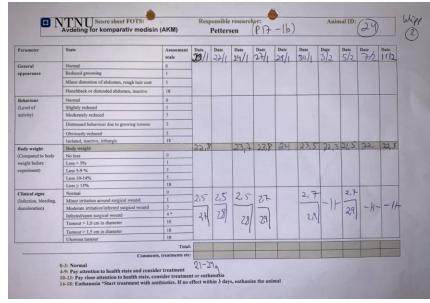
Parameter	State	Assessment	Date 24/8/19	Date	21/8	Date 2	Date U/G	6/9	Date 0/9	Date/9	Date 12 70	Date 19	12/0
General	Normal	0	~40///	2010	2118	7	41-1	6/1	9/1	11/7	13/7	10/1	10/1
appearance	Reduced grooming	1	1										
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0											
(Level of	Slightly reduced	1	1										
activity)	Moderately reduced	3											
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5	1										
	Isolated, inactive, lethargic	18											
Body weight	Body weight:			23,8	34	22,7	22,7	9	23,6	22,9	23,5	22	351
(Compared to body weight before	No loss	0					-				-		
	Loss < 5%	1											
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											
	Loss ≥ 15%	18											
Clinical signs	Normal	0	satt	SFEEYO .	FSU	sat	liter tohogni	scribb	W.	SIF	ser		110
(Infection, bleeding,	Minor irritation around surgical wound	1	inn	Har- 400	books			Manage	-	3100	xho	1-11-	11-
discoloration)	Moderate irritation/infected surgical wound	3	2000	15 mg -	Wt,			1-01	ours	my	20	11	ca
	Infected/open surgical wound	4.	Lough	MIC IN	(BECOOK		1	>	etter		334		3X
	Tumour > 1,0 cm in diameter	10	,	World,	Chi		300		personi	1	3,5		
	Tumour > 1,5 cm in diameter	18		myetra	al cer		1		3x3	1	10000		
	Ulcerous tumour	18		SHEF.			_		1-19	1			
		Total:				Seth							
	Comments	treatments etc:				DINING							
	9-3: Normal 4-9: Pay attention to health state and conside 6-13: Pay close attention to health state, con 4-18: Euthanasia "Start treatment with ant		t or euth	anasia hin 3 day	s, euthania	te the anir	mal						

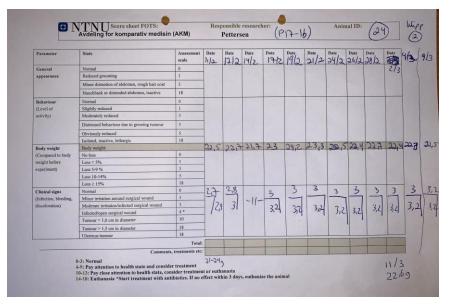
Parameter	State	Assessment	Date 19	Date 23/9	Date 25/9	Date 30/9	Date 2/10	Date 4/10	Bate 8/10	Date 4/10	14/10	Date /8/10
General	Normal	0	ucci i	-								
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, insetive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1					100			1		
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5					1					
	Isolated, inactive, lethargic	18		23,8				-		-		-
Body weight	Body weight:		23,1	245	23,5	22,5	23.0	20,7	23	21,2	21,7	213
(Compared to body weight before	No loss	0		1					1		1	1
	Loss < 5%	1		100			1					
experiment)	Loss 5-9 %	3										
	Loss 10-14%	5		137								
	Loss≥15%	18						-				
Clinical signs	Normal	0	(a	7.12	3×3	(a)	242	ca	2		24	3
Infection, bleeding,	Minor irritation around surgical wound	1	3x3	2×3			3×3	3×3	3	2	3×	X
liscoloration)	Moderate irritation/infected surgical wound	3	-		1 1	3,3		100	3		1	3×3
	Infected/open surgical wound	4 *			DUCTON)		1	1
	Tumour > 1,0 cm in diameter	10		1160								
	Tumour > 1.5 cm in diameter	18										
	Ulcerous tumour	18						1				
	- Olevion Company	Total:										
	Comments	treatments etc:	8									

of abdomen, rough hair coat 3 Sended abdomen, inactive 18 O Sended abdomen, inactive 18 Sended abdomen, inactive 1
tended abdreson, inactive 18 0 0 1 1
0 1
1
ad 3
our due to growing tumour 3
5
Inhards 18
lethargic 18 213 222217 23 239 43 4 22 22,5 22,8 22
0
1
3
5
18
3 3 3×3 3 3 3 3X3 _
ound surgical wound 1 × 3 3×3 3 × 3 3 × 3 3 × 3 3 × 3 3 ×
Vinfected surgical wound 3 2 2 3
ical wound 4. 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
a diameter 10
in diameter 18
18
Total:
Comments treatments etc:
violeteed surgical wound 4 * 10

	Assessment		Date	Date	Date	Date	Date	Date	Date	-	Lacordi	6
Name	scale	15/11	18/11	20/11	25/11					Date	Date	14/1
The state of the s				- Constitution	1	-	111	91102	1/12	11/10	15/12	1.0/1
	3	1										
	18											
	0											
	1											
	3											
Distressed behaviour due to growing tumour	3											
Obviously reduced	5	1										
Isolated, inactive, lethargic	_	1										
Body weight:		122.6	224	220	30	77.2	200	0112	SEC	-	-	-
No loss	0	DOM'S	-912	Daniel 3	NO 10	25,2	25,7	413	24	127/1	23,1	23
Loss < 5%	1											
Loss 5-9 %	3											
Loss 10-14%	5											
Loss ≥ 15%	18											
Normal	0	212	11-		1000						-	
Minor irritation around surgical wound	1	243	-11	5X3	1-1L	-11	1-16	2,7	-1L	-14	14	
	3				1	111	11	×	11		u	10
Infected/open surgical wound	4 *							2-				
Tumour > 1,0 cm in diameter	10							41				
Tumour > 1,5 cm in diameter	18										1	
Ulcerous tumour	18											
	Total:											20
	Inolane, Inactive, Jethargic Body weight No loss Loss c 5% Loss 5-9% Loss 10-14% Loss 2-15% Normal Minor irritation around surgical wound Minor irritation around surgical wound Infected/open surgical wound Tumour > 1,0 cm in diameter Tumour > 1,0 cm in diameter	Normal O	Normal	Neural	Normal	Neuronal	Normal	Normal	Normal	Normal	Normal	Normal N







Parameter	State	Assessment	Date 14/4	Date 17/U	20/4	24/4	Date 27/4	30/4	Date 4 /5-	Date 8/5	Date 11/5	Date, 14/5	224
General	Normal	0	7111	1111	1		100						
appearance	Reduced grooming	1	1										
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18	-										
		10000											
Behaviour	Normal	0	Fin	Fin	II.	Fin		FA	Fin	E	Fin		
(Level of activity)	Slightly reduced Moderately reduced	3	tin	1111	111	1		1	torm	FIN	Inch	-11-	
activity)		(7)	100 11	40cm	torm	Jacob 1		pun	133	tom	Fin	31	
	Distressed behaviour due to growing tumour	3								1-200			
	Obviously reduced	5											
	Isolated, inactive, lethargic	18				000		-	000		42.5		21
Body weight	Body weight:	-	22,5	22,4	22,7	22,3	22,5	22,4	22,4	21.9	22,3	_	21,
eight before	No loss	0											
	Loss < 5%	1											
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											
	Loss ≥ 15%	18			3,7	-		3,+		3,7			
Clinical signs	Normal	0	3,7	3,7		3,7						2 2	
(Infection, bleeding,	Minor irritation around surgical wound	1	4			7						17,7	
discoloration)	Moderate irritation/infected surgical wound	3	3,9					2.					
	Infected/open surgical wound	4*	11	76	2/1	3,9		3,9		3,91		39	
	Tumour > 1,0 cm in diameter	10			,	2000		1		1	100	1	
	Tumour > 1,5 cm in diameter	18											
	Ulcerous tumour	18										12450	
		Total:											
	Comments	treatments etc:											

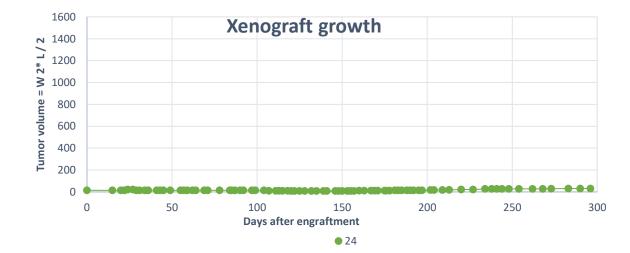
arameter	State	Assessment scale	Date 11/3	Date 6 3	Date 20/3	Date 23/3	Date 27/3	Date 30/3	Date 3/4	Date 614	Date 10/4) 4/4
General	Normal	0								-		
ppearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3			8							
	Hunchback or distended abdomen, inactive	18							La B			
Rehaviour	Normal	0	U									
Level of	Slightly reduced	1	1									
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18							-	-	000	-2.5
Body weight	Body weight:		22,6	21,7	222	22,7	72,7	23, 1	55'E	225	23,5	225
Compared to body	No loss	0					1			1 00		
weight before	Loss < 5%	1										
experiment)	Loss 5-9 %	3							-			
	Loss 10-14%	5										
	Loss ≥ 15%	18								-		
Clinical signs	Normal	0	3,2	3,2	3,3		3,4		3,6		37	3,7
(Infection, bleeding,	Minor irritation around surgical wound	1	1	212	21						-	
discoloration)	Moderate irritation/infected surgical wound	3	- 1		200		3,6				20	20
	Infected/open surgical wound	4.*	3,2	3141	3,3		2/0		3.7		37	211
	Tumour > 1,0 cm in diameter	10		1							1	
	Tumour > 1,5 cm in diameter	18									200	
	Ulcerous tumour	18							1	_		
		Total:										
-	Comment	s, treatments etc:									10000	

Parameter	State	Assessment scale	Date 19/5	Date 18/5	Date 19/5	Date 22/5	26/5	Date 2915	Date 2/6	Date 5/6	Date 8/6	Date/
General	Normal	0						-				
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1	0		Fin			Fin				
activity)	Moderately reduced	3	Fin		1.77			100000000000000000000000000000000000000				
	Distressed behaviour due to growing turnour	3	pen		tom			form				
	Obviously reduced	5										
	Isolated, inactive, lethargic	18										
Body weight	Body weight:	111		230	22,1	213	21,9	22,3	220	PA	220	1014
Compared to body	No loss	0		10	Dec. 11	1	1	lover free	~,0	0010		100
	Loss < 5%	1										
experiment)	Loss 5-9 %	3										
	Loss 10-14%	5										
	Loss ≥ 15%	18										
Hinical signs	Normal	0			3.8			-				2 4
Infection, bleeding,	Minor irritation around surgical wound	1						3,9		3,9		2
fiscoloration)	Moderate irritation/infected surgical wound	3	37									110
Level of ctivity) sody weight Compared to body eeight before periment) linical signs affection, bleeding,	Infected/open surgical wound	4.	-		29					1		7a
	Turnour > 1,0 cm in diameter	10	3,9		391			40		4.0/		
	Tumour > 1,5 cm in diameter	18	211									al:
	Ulcerous tumour	18										OWWA
		Total:										
	Comment	treatments etc:									100	

Weight curve



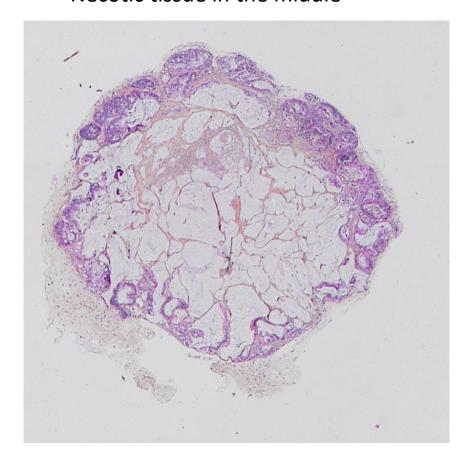
Xenograft growth curve



Supplementary figure 1-24-6. Histology pictures

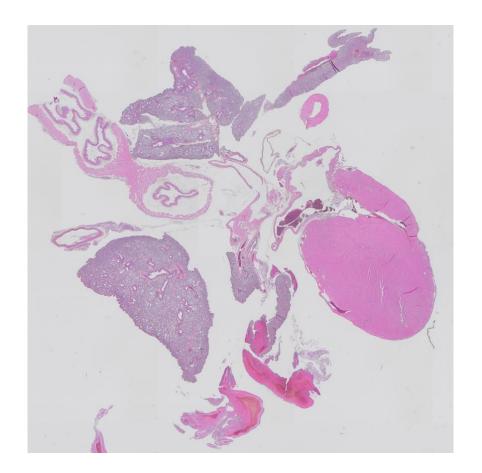
M24X – Xenograft

- Typical colorectal adenocarcinoma
- Glandulas with necrotic debris in lumen
- Mucus producing adenocarcinoma
- Necotic tissue in the middle

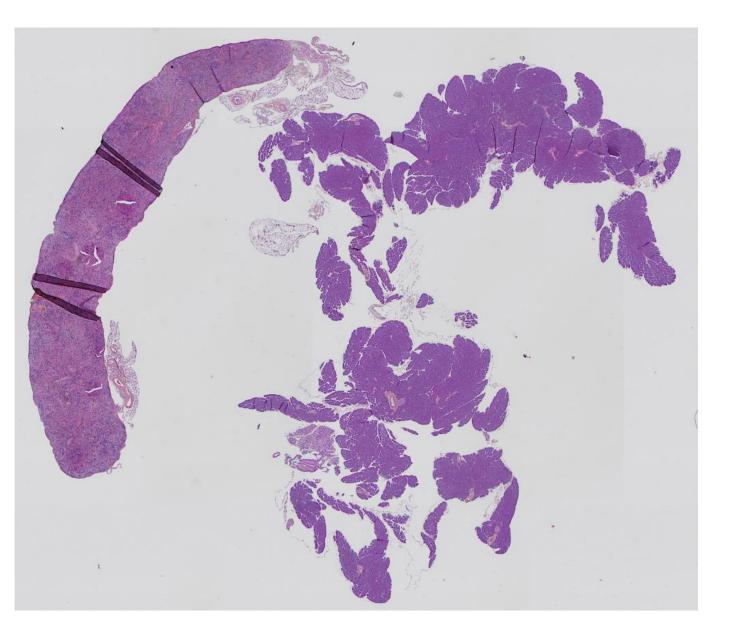


M24LH – Lungs and heart

Looks normal

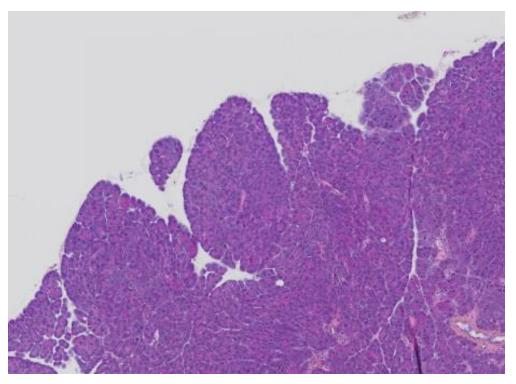


Supplementary figure 1-24-6. Histology pictures



M24MP – Spleen and pancreas

- Spleen looks normal
- Pancreas looks normal



Mouse 25

■ Surgery date: 20.08.19

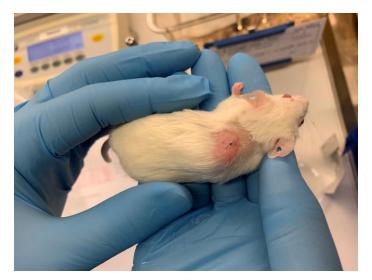
• Age (weeks) 31

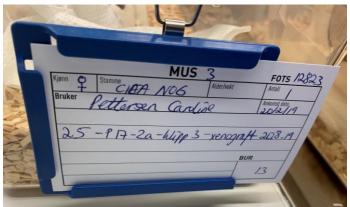
• Weight (g) 24.6

• Tumor fragment P17-2A

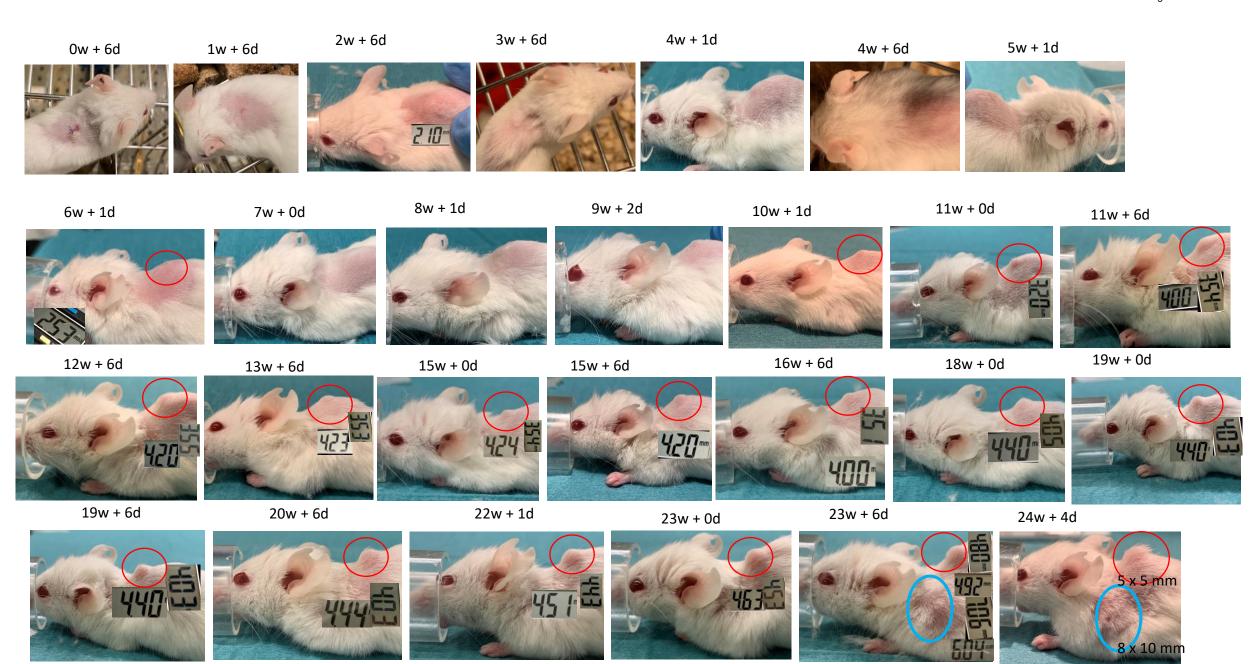
• Fragment size 3 x 3 mm

• Ear mark 3





Supplementary figure 1-25-1. Pictures from the engraftment day



Supplementary figure 1-25-3. Picture from follow up

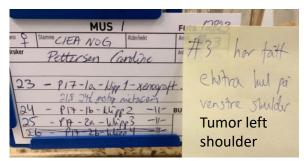
- Thick skin and a wound on the right shoulder at day 82, 11w + 5d (12.11.19)
- Looked bether 15.11.19
- Shaving machine checked for any defaults



Supplementary figure 1-25-3. Pictures

from euthanization 10.02.20

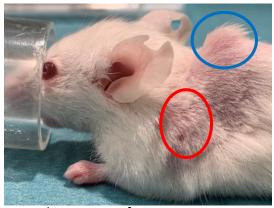
- Reduced general health
- Rapidly growing secondary tumor on the left shoulder
- Necroscopy
 - Xenograft size; 5 x 5 mm
 - Treatment not started due to reduced health
 - Secondary tumor at left shoulder 10 x 8 mm
 - Colon taken out and washed with sterile NaCl
 - To be used for testing antibodies for IHC
 - Blood sample
 - Tumor tissue for
 - Histology







Tumor left shoulder

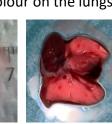


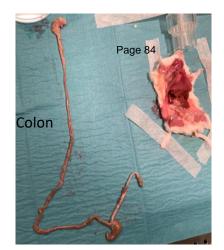
Blue; xenograft Red; secondary tumor



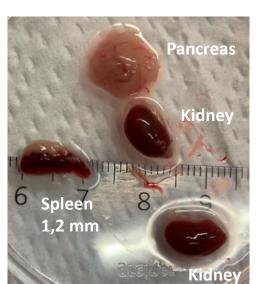


Whiteish colour on the lungs



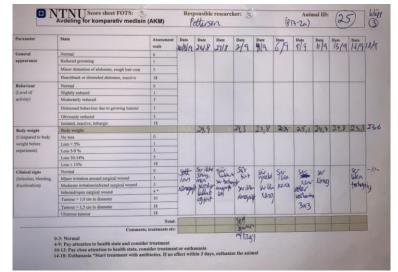


Colon taken out to use for antibody testing for IHC. Flushed with sterile NaCl.



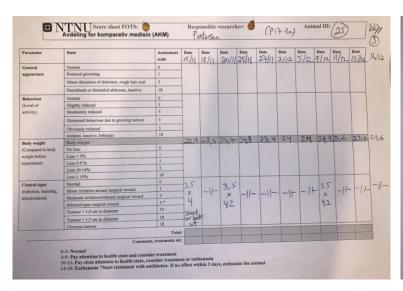


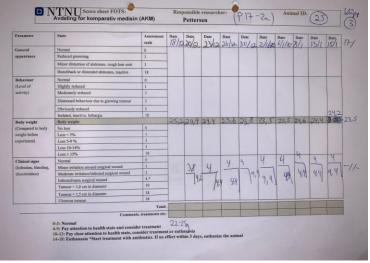
Supplementary figure 1-25-4. Score sheets

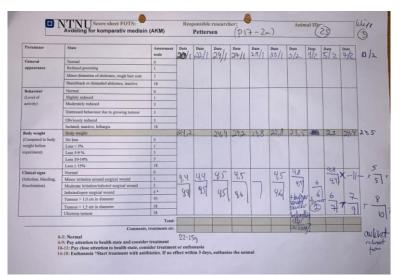


Parameter	State	Assessment	Date 20 /9	Date 23/9	Date 25/9	Date	Date	Date	Date	Date	Date	Date
General	Normal	0	000/	2011	25/7	399	2/10	4/10	2110	11/10	4/10	18/10
appearance	Reduced growning	1	1									
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1	-									
activity	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	1										
	Isolated, inactive, lethargic	18										
Body weight	Body weight:	18	23,6	241	20	221	SPIE	0211	000		-	-
Compared to body	No loss	0.	7310	che	27	2211	23/8	444	233	24,1	23	23,0
weight before	Loss < 5%	1										
periment)	Loss 5-9 %	3										
	Loss 10-14%	5.										
	Loss≥15%	18										
Unical signs	Normal	0	Sec	-11-	Utten	liter of terrug	lilen	Lan	11			
Infection, bleeding.	Minor irritation around surgical wound	1	[wn		terheyo ca2,5x		holm	liter	liden	Cana	100	25
iscoloration)	Moderate irritation/infected surgical wound	3	liter				Tu vega.	toh	1.1.	3000	-11- 2,5 2,5	X
	Infected/open surgical wound	4.	Acrhous		2,5		(42,5		LON LABOR	1		2,5
	Tumour > 1,0 cm in diameter	10	P.1.27		boland		25					
	Tumour > 1,5 cm in diameter	18			my yes f							
	Ulcerous tumour	18										
		Total:										
	Comments.	treatments etc:									4-	
4	-3: Normal -9: Pay attention to health state and consider 0-13: Pay close attention to health state, cons 4-18: Euthanasia *Start treatment with antit	treatment ider treatment	or euthar	asia	arthurine	the onim	al					

Parameter	State	Assessment scale	Date 16/10	Date 18/0	21/10	Date 23/10	Date 28/10	Date 39/10	Date /	9/11	Date (///	Date /2///
General	Normal	0										
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3							1			
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1									1	
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3			1					1		
	Obviously reduced	5						1				
	Isolated, inactive, lethargic	18			-	05-27	No. of Contract	22 7	92	NOU	1 251	228
Body weight	Body weight		23,1	23,4	23,4	0.518	240	40-	100	001	1201	-
(Compared to body	No loss	0	-		1							11.
weight before	Loss < 5%	1				1	1	1				
experiment)	Loss 5-9 %	3		1		1		1	1			
	Loss 10-14%	5										
	Loss ≥ 15%	18		-	-	-	+	7			9 3	Sir
Clinical signs	Normal	0	2,5	ca	-11-	- 3	+11-	13	1	1-	210	over,
(Infection, bleeding,	Minor irritation around surgical wound	1	- x	2.5				X	-	8	32	, shulp
discoloration)	Moderate irritation/infected surgical wound	3	-25	1×		X		3			works	+ met
discontinue	Infected/open surgical wound	4.*	-	125		3		-			Stelly	of Kary
	Tumour > 1,0 cm in diameter	10				hichau	A .				Studos	e bar
	Tumour > 1,5 cm in diameter	18				Coape					lou	
	Ulcerous tumour	18	_	_			1000		1		1	
		Total	E			-	-	+				
	Commen	ts, treatments etc	22									







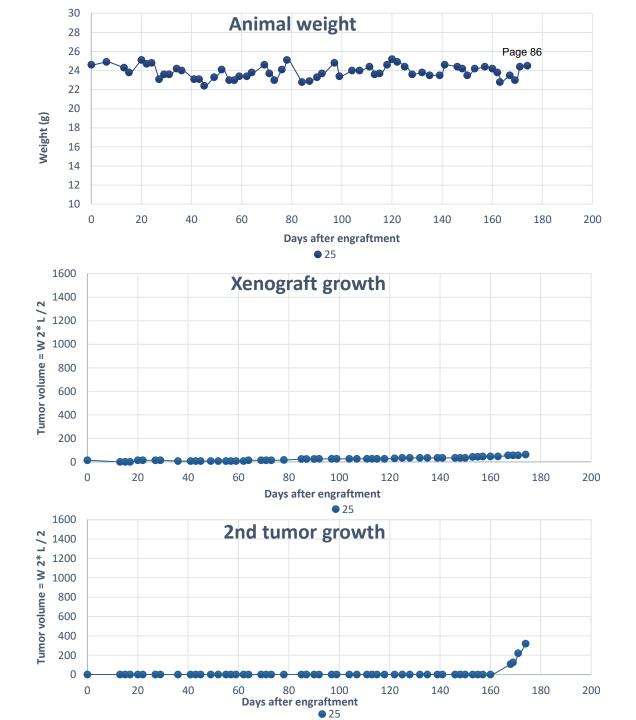
Supplementary figure 1-25-5.

Mouse, xenograft and secondary tumor growth curves

Weight curve

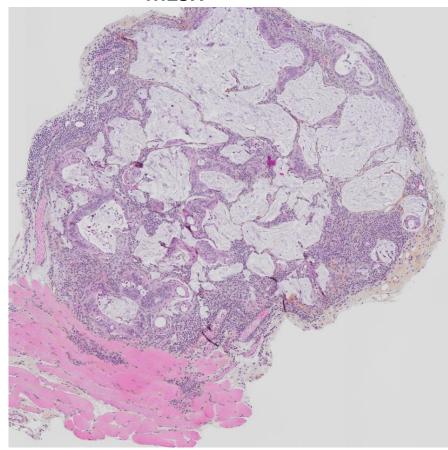
Xenograft growth curve

Secondary tumor growth curve



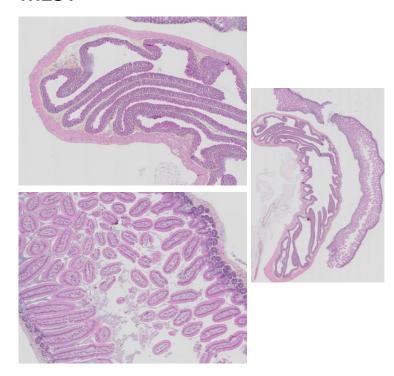
Supplementary figure 1-25-6. Histology pictures

M25X



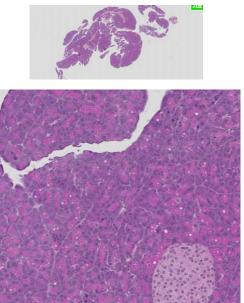
- Typical colorectal cancer tissue
- Aereas with glandulas
- Lymphoid cells at the border of the xenograft
- Mucus producing adenocarcinoma
- Unregular nuclear membranes might indicate stressed cells
 - Could be that the lymphoid cells are about taking over the xenograft

M25T



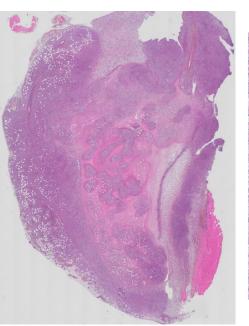
- Colon tissue; looks healthy
 - To be used for antibody testing

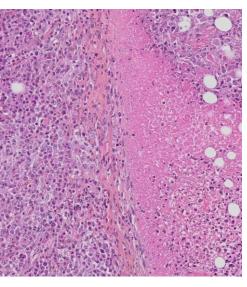
M25P



Pancreas

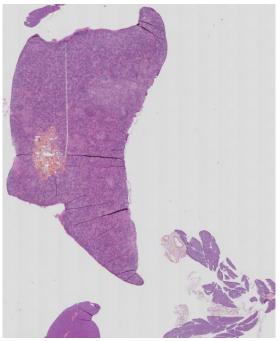
M25TV (tumor left shoulder)

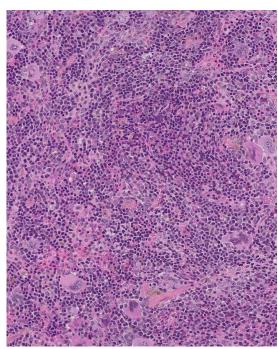




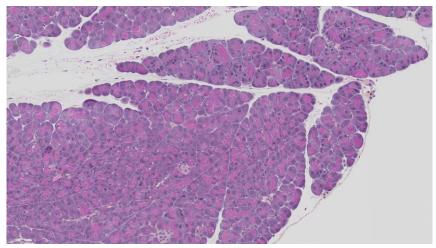
- Massive tumor
- Lymphoid cells
- Large light cells with spotted nuclei

M25MP (spleen and pancreas)

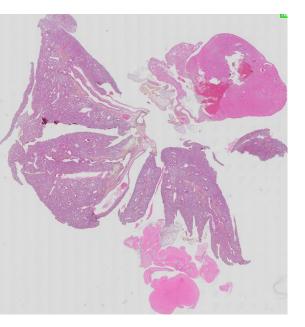


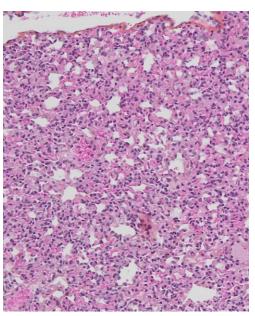


- Spleen with dark defined nuclei and megakaryocytes and red blodspots/vains
- Pancreas looks normal



M25LH (Lungs and heart)

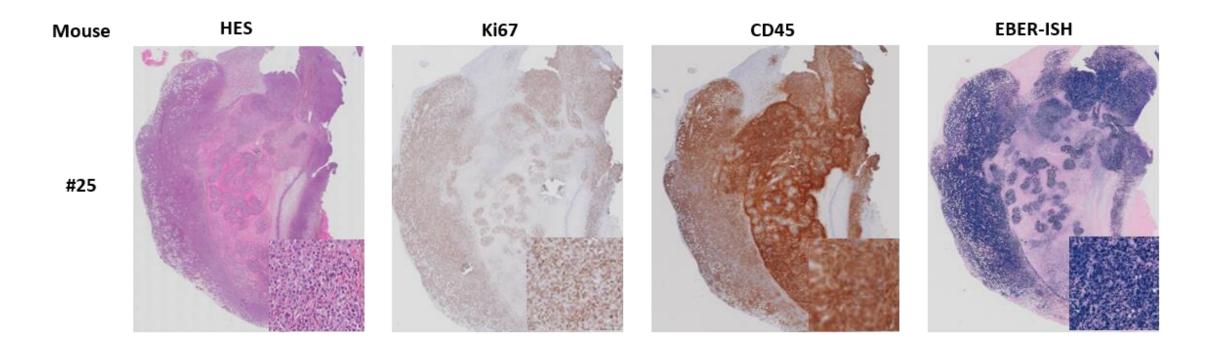




- Lungs looks collapsed, might be from the preservation, fill lungs with formalin hereafter
- Lungs look healthy but cell dense

M25TV (tumor left shoulder) - lymphoma

- IHC staining of Ki67, and CD45
- EBER-ISH staining to detect EBV



Mouse 26

■ Surgery date: 20.08.19

• Age (weeks) 31

• Weight (g) 24.4

• Tumor fragment P17-2B

• Fragment size 3 x 3 mm

Ear mark4













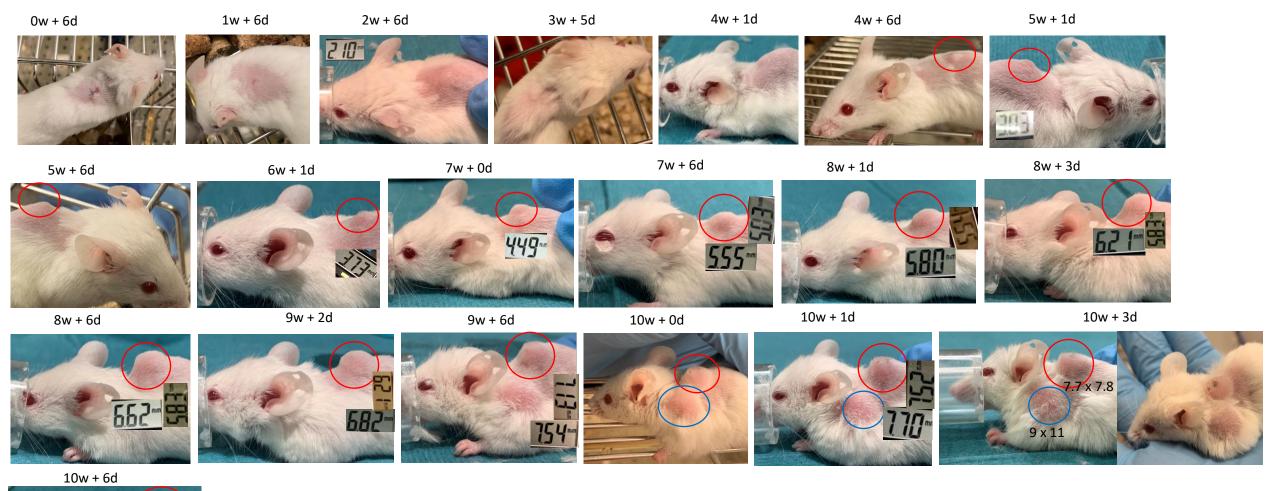


Supplementary figure 1-26-1. Pictures from the engraftment day

Supplementary figure 1-26-2. Pictures from follow up and tumor size measurement

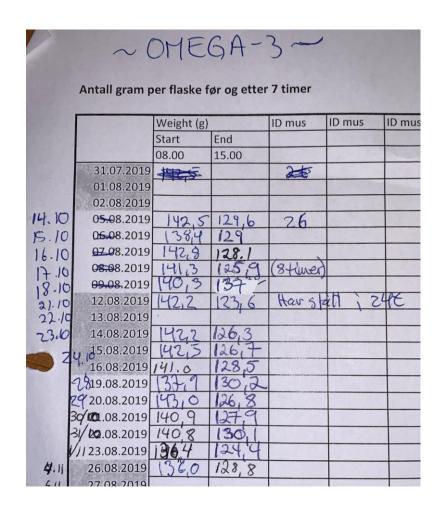






Treatment:

- Smartfish Remune with fish oil
- Days/weeks
- Blood samples before/after treatment



Supplementary figure 1-26-3. List over weight registrations of drinking bottle (with Smartfish Remune Peach) before and after treatment

Supplementary figure 1-26-4.

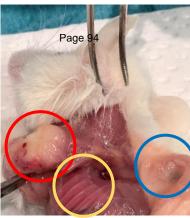
Pictures from euthanization 04.11.19

- Necroscopy
 - Xenograft size
 - Secondary tumor left shoulder
 - Secondary tumor right shoulder
 - Blood sample
 - Tumor tissue for
 - Histology
 - RNA isolation
 - Protein isolation









Whitish lungs



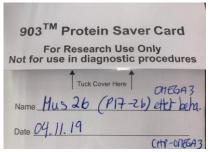
Blue; xenograft, Red; 2nd tumor





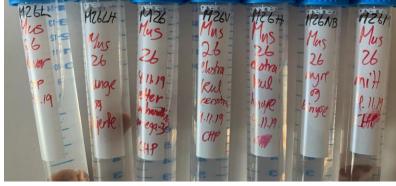
Xenograft

Enlarged spleen (2.2 cm) with white areas. Green; secondary tumor (right shoulder), Red; secondary tumor (left shoulder)



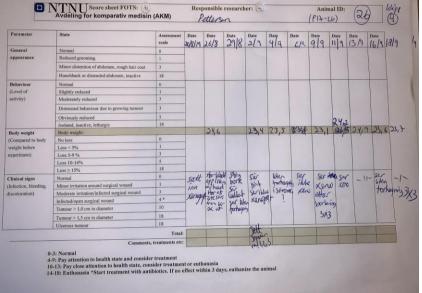
Bloodcard for fatty acid profiling

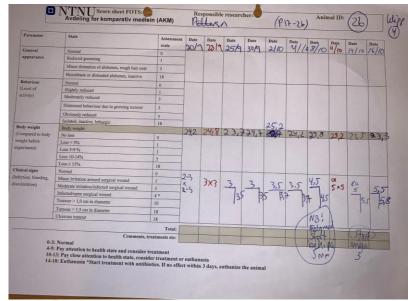


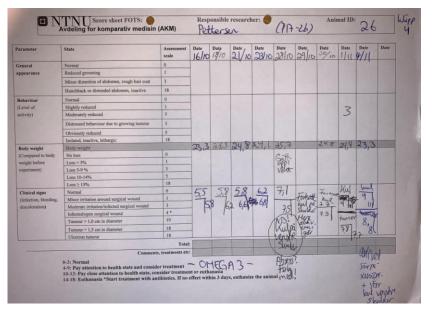


Samples collected for histology/HES staining

Supplementary figure 1-26-5. Score sheets







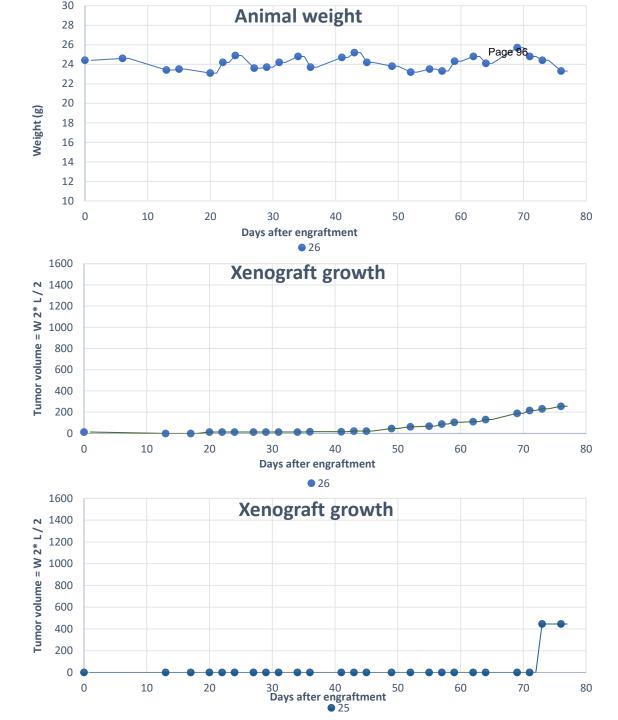
Supplementary figure 1-26-6.

Mouse, xenograft and secondary tumor growth curves

Weight curve

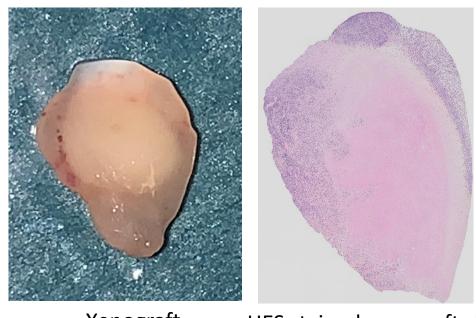
Xenograft growth curve

Secondary tumor growth curve



Supplementary figure 1-26-7. Histology pictures

Two pathologists both confirmed that the secondary tumors consisted of lymphoid cells/lymphoma

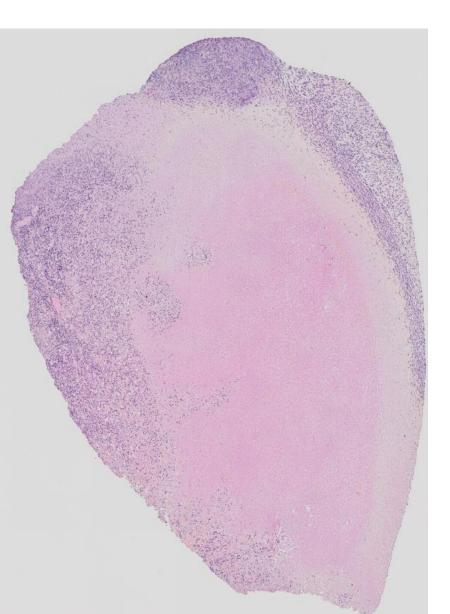


Xenograft

HES stained xenograft slide



Supplementary figure 1-26-7. Histology pictures

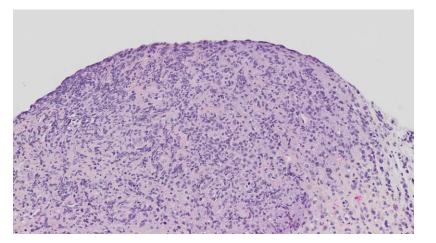


Mouse 26 X (xenograft)

- HES staining
 - Hematoxylin blue nuclear staining
 - Eosin pink Extracellular matrix and cytoplasma
 - Safran yellow stains collagen fibers/connective tissue
- Large necrotic aerea in the middle of the xenograft
- Lymphoid tumor cells surrounding the xenograftet
- Seems like the lyphoid cells have «strungled» the xenograft

Supplementary figure 1-26-7.

Histology pictures

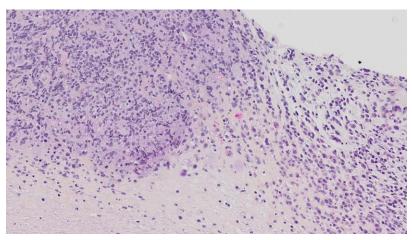


Mouse 26 X (xenograft)

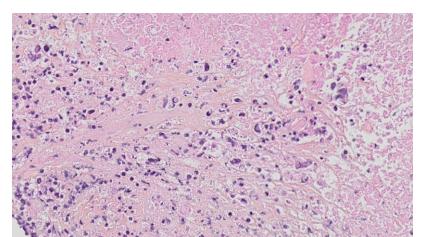
Page 99

Compact tissue with tumor cells

- Some unregular nuclei
- Several mitoses



Border from lymphoid cancer cells to necrotic tissue

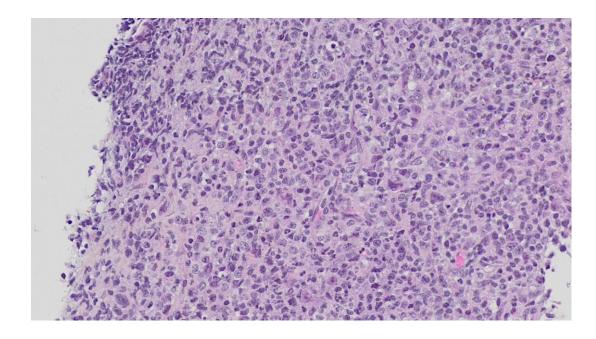


Necrotic tissue



Mouse 26 H (tumor right shoulder)

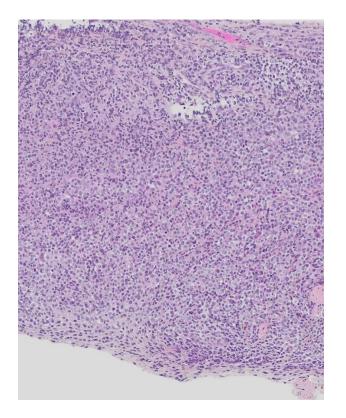
- Necrotic tissue in the middle
- Lymphoid tumor cells





Mouse 26 V (tumor left shoulder)

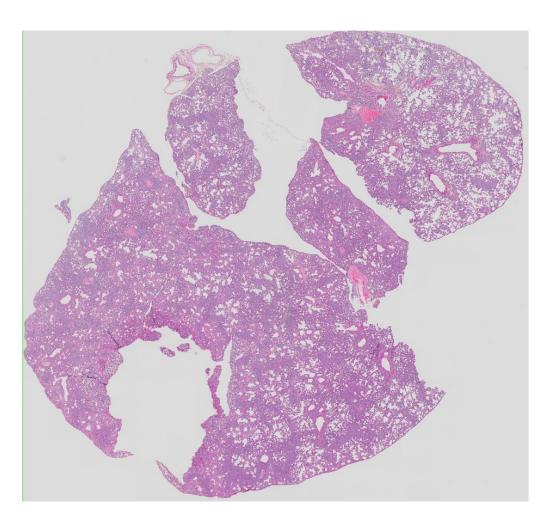
- Lymphoid tumor cells
- Necrosis in the middle

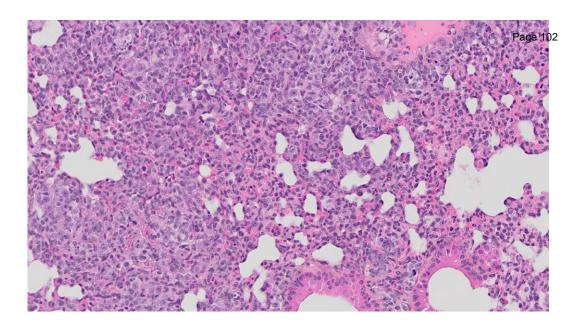


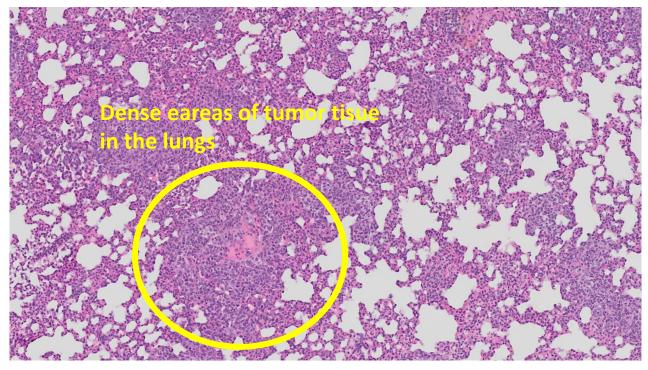
Supplementary figure 1-26-7. Histology pictures

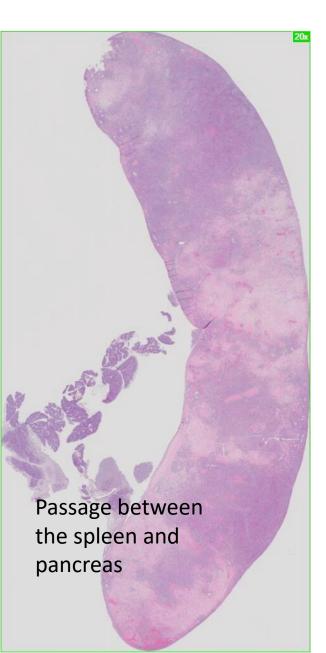
Mouse 26 LH (Lung)

- Dense aereas of tumor tissue in the lungs
- Lymphoid tumor cells



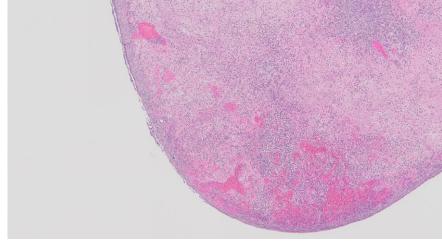


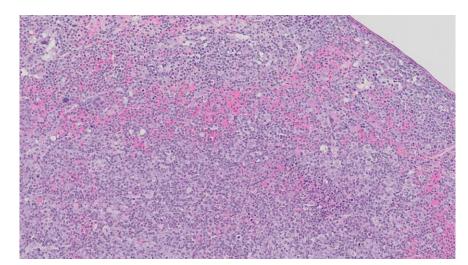


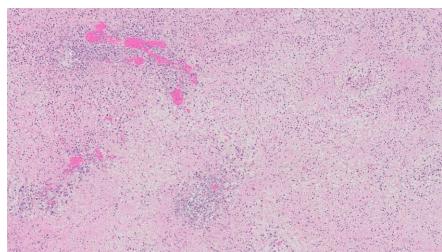


Mouse 26 M (Spleen)

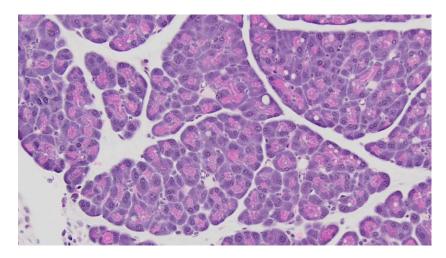
- Large spleen (2.2 cm, ca 3 when not bent)
- Pancreas attached
- White necrotic fields
- Plenty tumor cells in the spleen
- Possible bleedings in the spleen



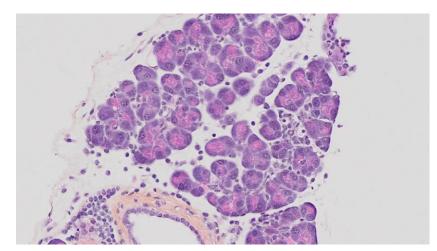




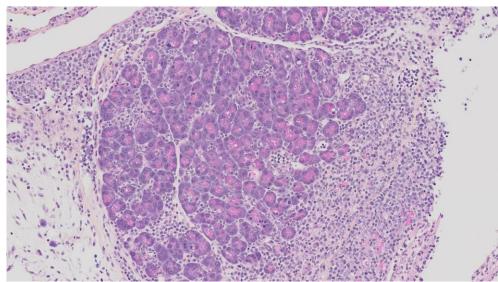
Supplementary figure 1-26-7. Histology pictures



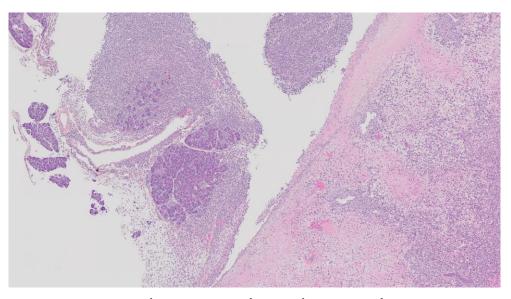
Pancreatic cells



Pancreatic cells infiltrated by tumor cells



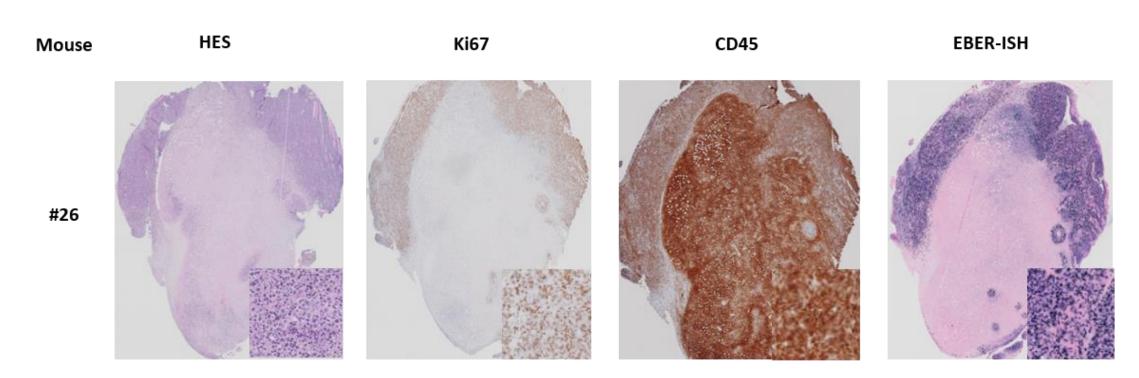
Pancreatic cells infiltrated by tumor cells



Passage between the spleen and pancreas

Mouse 26 V (tumor left shoulder)

- Lymphoma
- IHC staining of Ki67 and CD45
- EBER-ISH staining of EBV



Mouse 27

■ Surgery date: 21.08.19

• Age (weeks) 31

• Weight (g) 22

• Tumor fragment P18-1a

• Fragment size 3 x 3

Ear mark1

Supplementary figure 1-27-1.

Pictures from the engraftment day

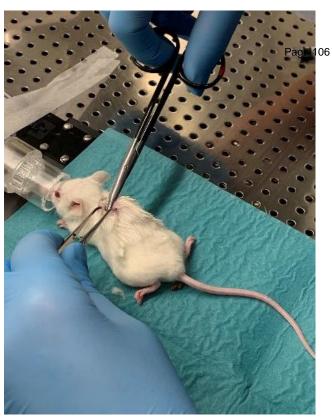






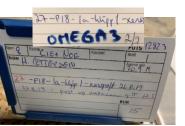








Mouse ID



0w + 5d



1w + 1d



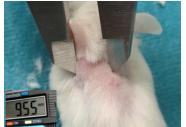
«Tumor» ca 5 x 5 mm





«Tumor» ca 6 x 7 mm

2w + 0d



«Tumor» ca 9.5 x 5.5 mm «Tumor» ca 9.5 mm

2w + 2d 2w + 5d

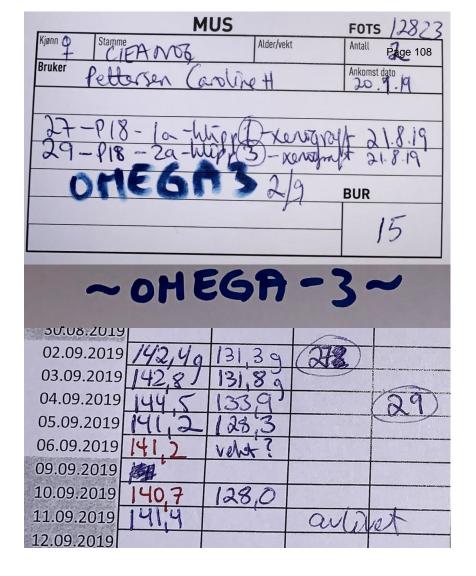






Treatment:

- Smartfish Remune with fish oil
- Blodsamples taken before and after treatment

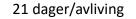


Supplementary figure 1-27-3. List over weight registrations of the drinking bottle (with Smartfish Remune Peach) before and after provided to the mice

Supplementary figure 1-27-4. Pictures from euthanization (11.09.19)

Not the xenograft, but an abscess that was growing

Mus ID 19 dager post op





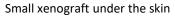






Scurvy wound, the «tumor» has bursted. Turned out it was an abscess and not the xenograft growing.







The largest fragment was devided into the 3 sample tubes, and the smallest fragment in a «left over» tube.

Supplementary figure 1-27-5. Score sheet

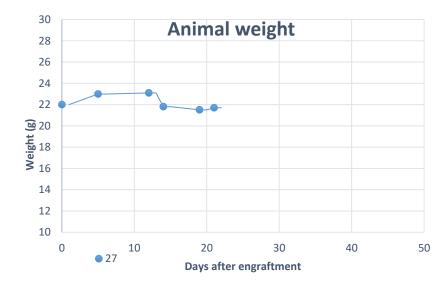
Parameter	State	Assessment	Date 21/8	Date 248	Date 29/8	Date 19	Date 4/9	Date 6/9	Date, 9/9	Date	Date	Date
General	Normal	0	0.110	240	21/0	01	111	011	1/ /	1/51		
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1		1								
activity)	Moderately reduced	3		1				1	10 30			
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	3 3 5 18 0 1 3 5 18 0 1 1 3 4 10 10	1									
	Isolated, inactive, lethargic									1116		
Body weight	Body weight:	-	The state of	23	3	23.19	21.8		215	233		1 - 1
(Compared to body	no do body No loss Loss < 5%	0				1		Para la		1		
weight before	Loss < 5%	1					tola			1		
experiment)	Loss 5-9 %	3					m,	1		1		
	Loss 10-14%	5					volut	7		0		
	tt) Loss 5-9 % Loss 10-14% Loss ≥ 15%	18										
Clinical signs	Normal	0	Sattion	Fintshi	Sing	The	nobser		stort	gatt		
(Infection, bleeding,	Minor irritation around surgical wound	1	Xuna	a curbition	burte	Sor	Swa		Xenco	Much		
discoloration)	Moderate irritation/infected surgical wound	3	Joseph J.	brheunin	+ todali),	June	0.5	2 312	pa		-
	Infected/open surgical wound	4 *		(a3x3	xerigny	P	105	90	10	- Xerv	*	
	Tumour > 1,0 cm in diameter	10		ww	mater	4	(Sh	1	X	avus	4)	
	Tumour > 1,5 cm in diameter	18			31	H	Nes	15	120			
	Ulcerous tumour	18			91-	1	1,25	100				
		Total:		1			100	1				
	Comments.	treatments etc:			Start	Sutt.	٨					
4	-3: Normal -9: Pay attention to health state and conside 0-13: Pay close attention to health state, con- 1-18: Euthanasia *Start treatment with anti	ider treatmen	t or euth	anasia hin 3 days	, euthani	Ze the ani	шаг		ess r			n for enog

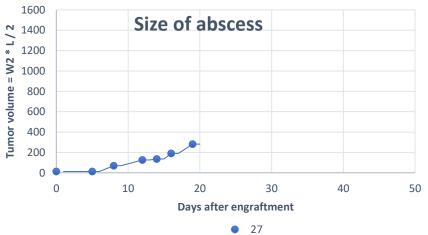
Supplementary figure 1-27-6.

Mouse and abscess growth curves

Weight curve

Size of abscess





Mouse 28

■ Surgery date: 21.08.19

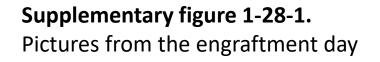
• Age (weeks) 31

• Weight (g) 22.6

Tumor fragment P18-1b

• Fragment size 3 x 3 mm

Ear mark2





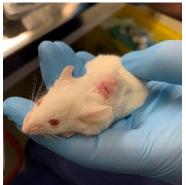












Supplementary figure 1-28-2. Pictures from follow up and xenograft size measurement

«Tumor» ca 5 x 5 mm

«Tumor» ca 8 x 6.5 mm

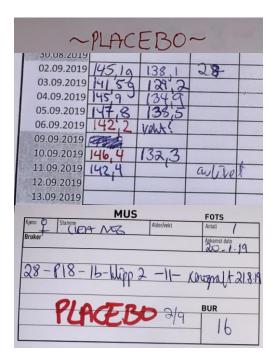
«Tumor» ca 6 x7 mm



2w + 5d

Treatment:

- Placebo (Smartfish Remune with Rapseed oil)
- Blodsamples taken before and after treatment



Supplementary figure 1-28-3. List over weight registrations of the drinking bottle (with placebo) before and after provided to the mice

Supplementary figure 1-28-4. Pictures

from euthanization (11.09.19)

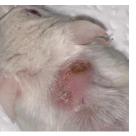
- Not xenograft but an abscess growing
- Euthanized due to two other mice with bursting abscesses (mouse 27 and 29)

Mus ID 19 dager post op 21 dager/avliving







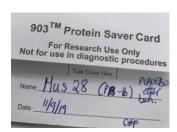








28-118-16-16p2-11-1



Brown fields/scurvy forming on the skin over the «tumor» (abscess)

Green abscess. Green liquid coming out when pinched. Clearly not the xenograft.

Almost no xenograft visiable, nothing to sample

Supplementary figure 1-28-5. Score sheet

Parameter	State	Assessment	Date 21/8	Date 26/8	Date 29/8	Date 2/9	Date U/9	Date 6/9	Date 9/a	Date 11/9	Date	Date
General	Normal	0		240	0110	2/1	111	2/1	111	"11		
appearance	Reduced grooming	1						199				
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										-
(Level of	Slightly reduced	1										1000
activity)	Moderately reduced	3			1							
	Distressed behaviour due to growing tumour	3		13 15								
	Obviously reduced	5		13								
	Isolated, inactive, lethargic	18						130		18		
Body weight	Body weight:			23.2	23,7	23.4	23,0		23,5	229		
Compared to body	No loss	0		7,1	1	-711	1		1	1		
weight before	Loss < 5%	1		1 3 3				1				
experiment)	Loss 5-9 %	3										
	Loss 10-14%	-									1	
	Loss ≥ 15%									-		
Clinical signs	Normal	0	Catt	Hartest	Ser.	Sal.			Stort	- start		
Infection, bleeding,	Minor irritation around surgical wound	5 18 0 1 3	inn	Stingul	hydelia	grade			an	XIN		
discoloration)	Moderate irritation/infected surgical wound	3	Yahaya	A Sir lub	HALLIAN !	7	8,1	18.5	725	Da.		
	Infected/open surgical wound	4 *	, ,	org fint	malor	1	01.	1	1 2	- tree	an	
	Tumour > 1,0 cm in diameter	10		ser al	401	151	8	2 16	S 7	111	-	
	Tumour > 1,5 cm in diameter	18		C. 3 Y	1	1	- 1			Carr	Wes	
	Ulcerous tumour	18		203	5,3	7			phodel	totalise 11		
		Total:	100	13/0	1000	雅	1-5	1	pato	pper -	12x	
-	Comments	treatments etc:			100	Samo			95		fee.	

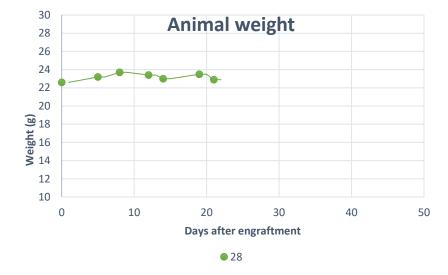
Note: numbers represent abscess size, not tumor growth.

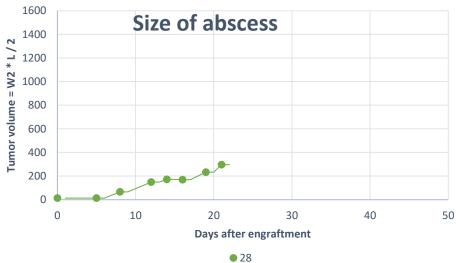
Supplementary figure 1-28-6.

Mouse and abscess growth curve

Weight curve

Size of abscess





Mouse 29

■ Surgery date: 21.08.19

• Age (weeks) 31

• Weight (g) 22.82

• Tumor fragment P18-2a

• Fragment size 3 x 3 mm

Ear mark3

 One stich was opened by the mouse after 1 hour. Restiched.











Supplementary figure 1-29-1. Pictures from the engraftment day

Supplementary figure 1-29-2. Pictures from follow up and «xenograft» size measurement

Pictures from follow up

Mouse ID

0w + 5d

1w + 1d

1w + 5d

2w + 0d

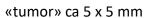
2w + 2d

2w + 5d



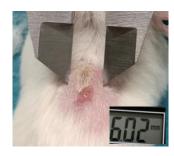








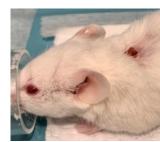
«Tumor» ca 5 x 5 mm



«Tumor» ca 6 x 5,5 mm



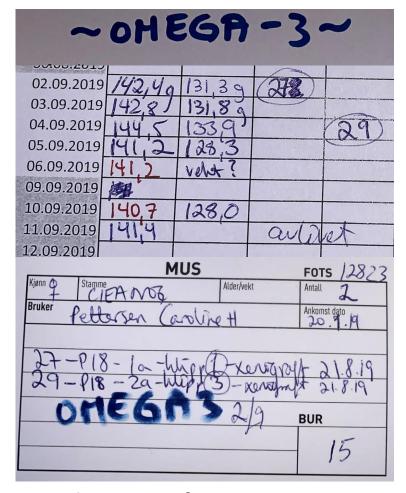
«Tumor» ca 6 mm



Wound with «crater»

Treatment:

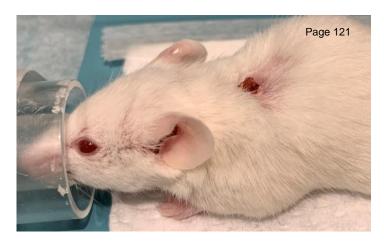
- Smartfish Remune with fishoil
- Blodsamples before/after

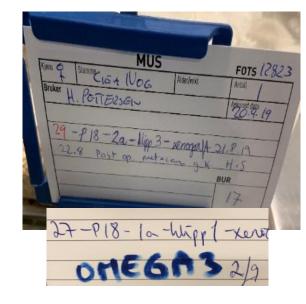


Supplementary figure 1-29-3. List over weight registrations of the drinking bottle (with Smartfish Remune Peach) before and after provided to the mice

Supplementary figure 1-29-4. Pictures from euthanization (11.09.19)

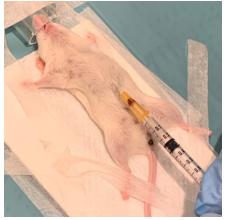
It was not the xenograft, but an abscess growing.
 Abscess bursted and left a wound in the xenograft aerea







Wound with a «crater». The xenograft seems to be gone.



Blood drained from the heart before opening the chest and cutting the aorta. Gave a higher volume for the blood sample compared to sample from the back vain.



Only remainings of the xenograft was found.

Supplementary figure 1-29-5. Score sheet

Parameter	State	Assessment scale	Date 21/8-1	Date 126/9	Date 29 (8	Date 2/9	Date 4h	Date 6/9	Date 9/9	Date 1	Date	Date
General	Normal	0					7		1			
appearance	Reduced grooming	1						The said				
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18			The William							
Behaviour	Normal	0	-									
(Level of	Slightly reduced	1							1000			
activity)	Moderately reduced	3 amour 3 5 18 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.5%									6
	Distressed behaviour due to growing tumour	3			1				1			
	Obviously reduced	5										
	Isolated, inactive, lethargic		Page 1				22,8					
Body weight	Body weight:	-		23,6	223,6	23,5	203		23,9	23,1		
(Compared to body	No loss	0			1							
weight before	Loss < 5%	1										
experiment)	Loss 5-9 %	3		1000			1		1		100	
	Loss 10-14%	5									1000	
	Loss ≥ 15%	18				115The			noch	b-11		
Clinical signs	Normal	0	Softian	Hertatt	Set	velus. H	CHAIRON	Said	- Sar,	1981		
(Infection, bleeding,	Minor irritation around surgical wound	1	Xonueral	1 Strage	Hydely	Lavie	THE IN	Kenogn	nun	11/14/4		
discoloration)	Moderate irritation/infected surgical wound	3	الراسا	Ar Wes	N Sanda	1 rehall	MAXIMA	under	falta	MPMI		
	Infected/open surgical wound	4 *		shapt	30401	5) 機動網	- MA	The	· Vice	4	
	Tumour > 1,0 cm in diameter	10		Scomm	ely male	10	a visale	M M	Xm	1	1	1
	Tumour > 1,5 cm in diameter	18		Dir Will	43)	1/20	ser don	spr. 6	3	While	1	
	Ulcerous tumour	18			1 X	1 20	work	orbye -	T			
				1000	310	att	obla ,	68		17.5	1	100
		Total:	and the same	A CONTRACTOR OF THE PARTY OF TH								

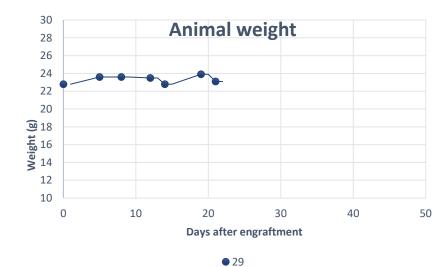
Abscess mistaken for rapidly growing xenograft

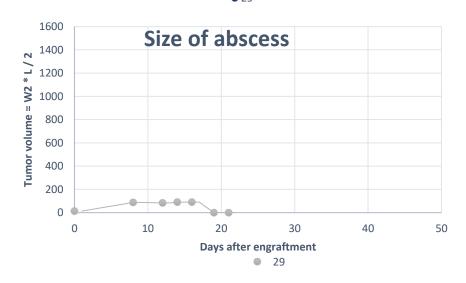
Supplementary figure 1-29-6.

Mouse and abscess growth curves

Weight curve

Size of abscess





Mouse 30

■ Surgery date: 21.08.19

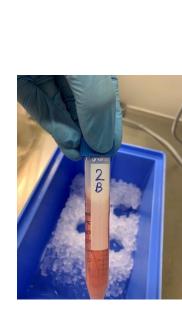
• Age (weeks) 31

• Weight (g) 22.1

• Tumor fragment P18-2b

• Fragment size 3 x 3 mm

• Ear mark 4

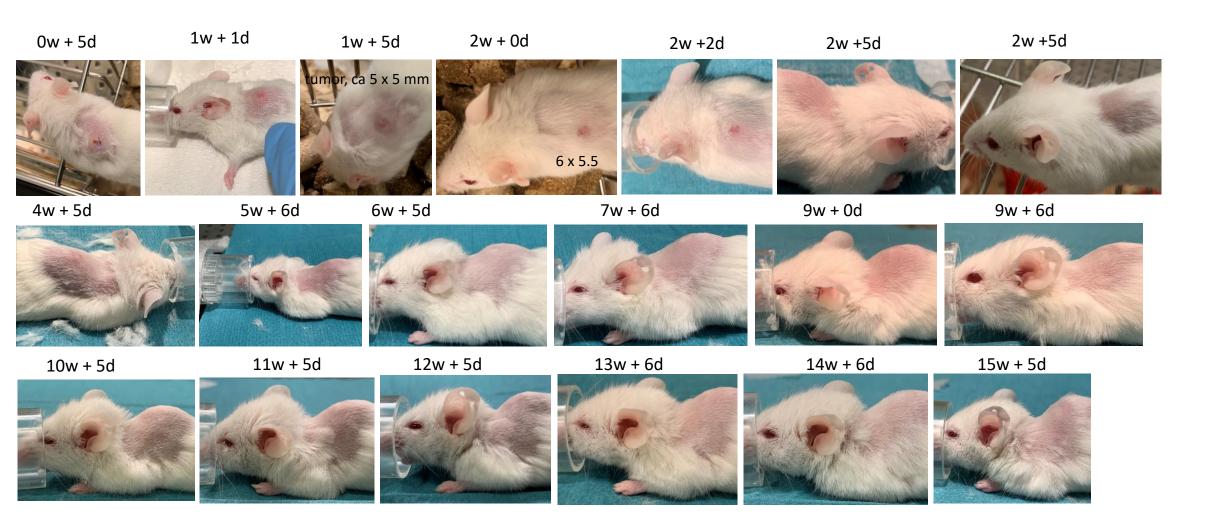




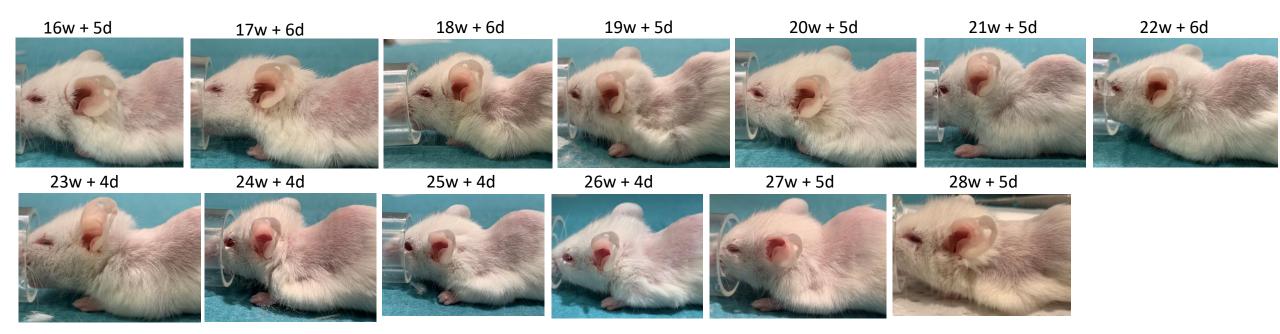


Supplementary figure 1-30-1. Pictures from the engraftment day

Supplementary figure 1-30-2. Pictures from follow up and xenograft size measurement

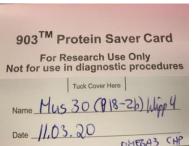


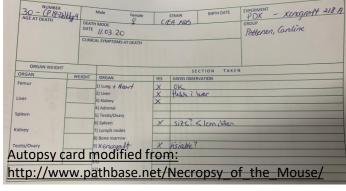
Supplementary figure 1-30-2. Pictures from follow up and xenograft size measurement



Supplementary figure 1-30-3. Pictures from euthanization (11.03.20)

- Xenograft size not visiable
- No treatment given
- Small/normal spleen
- Possibly small tumor on liver
- Euthanized due to xenograft not growing after 6 months



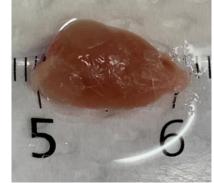


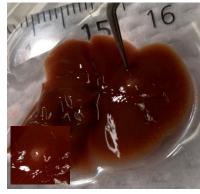






Pancreas







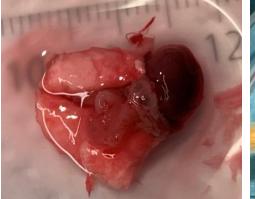
Normal kidney



Thymus



Liver with «bump» (tumor?) Only a small «bump» of xenograft



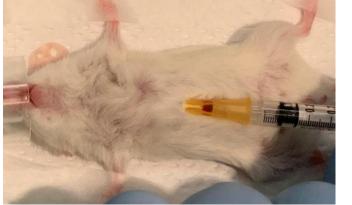
Normal heart and lungs



Lungs filled with formalin



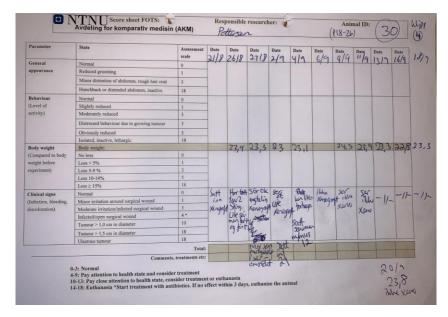
Normal spleen

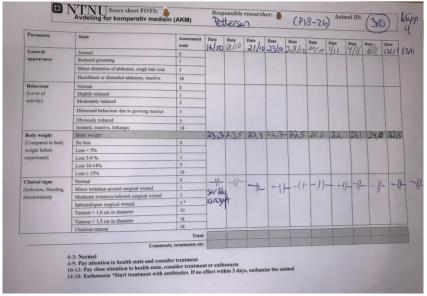


No tumors on shoulders

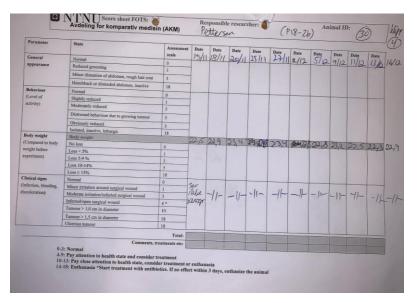
Blood sampling

Supplementary figure 1-30-4. Score sheets

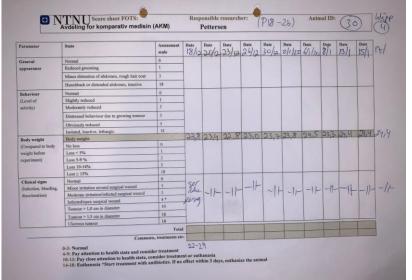


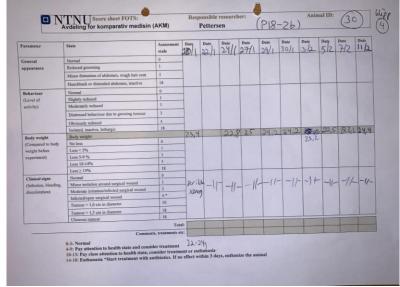


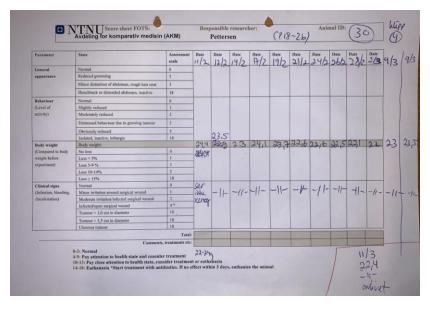
Parameter	State	Assessment	Date 20/9	Date 23/9	Date 25/9	Date 30/9	Date 2/10	Date 4/10	Date 8/10	Date It/10	Date 14/10	Date 186/10
General	Normal	0	1	6011	02/1	3-11	110	17.0	0//-	110	IT IASS	10014
appearance	Reduced greoming	1									2,4 22,1 83,3	
	Minor distention of abdomen, rough hair coat	3								30-,1 22,4 22, 1 8,		
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	18 0 1 1 3 18 0 25,8 25,9 22,3 22,6 25,7 23,5 3 0 1 1 3 5 15 5 15 5 15 5 17 18 5 18 5 18 18 18 18 18 18 18 18 18 18 18 18 18										
activity)	Moderately reduced											
	Distressed behaviour due to growing tumour	3	Sor ible XIND									
	Obviously reduced	if rood 3										
	Isolated, inactive, lethargic											
Body weight	Body weight:	110		23.9	22.3	32.6	237	73 5	28.9	22 4	22.2	223
Compared to body	No loss	0				20010	-41	211	0-11	Anna I	1xx17	12/2
reight before	Loss < 5%	1							1			
experiment)	Loss 5-9 %	25,8 23,9 22,3 22,6 23,7 23,5 38,9 22,9 22 0 1 3 5 5 18										
	Loss 10-14%	5										
	Loss ≥ 15%	18										
Tinical signs	Normal	0	Sor ible	Sarilly	45.				71		1.	1000
ofection, bleeding,	Minor irritation around surgical wound	1	X Bet	xano	ihuu	-11-	-11-	1-11-	1-11		-11-	-14
sceloration)	Moderate irritation/infected surgical wound	3		4 2 3								
	Infected/open surgical wound	1 3 5 5 18 5 5 18 6 5 18 6 5 18 6 7 1										
	Tumour > 1,0 cm in diameter	10	Sorible Scribe How -11									
	Tumour > 1,5 cm in diameter	18										
	Ulcerous tumour	18							123			
		Total:										



Supplementary figure 1-30-4. Score sheets





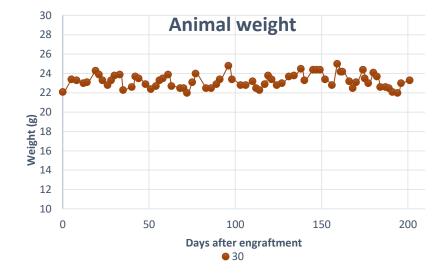


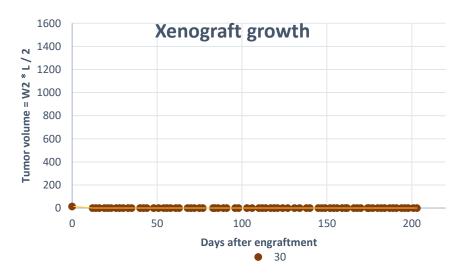
Supplementary figure 1-30-5.

Mouse and xenograft growth curves

Weight curve

Xenograft growth curve

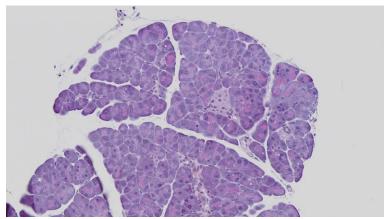


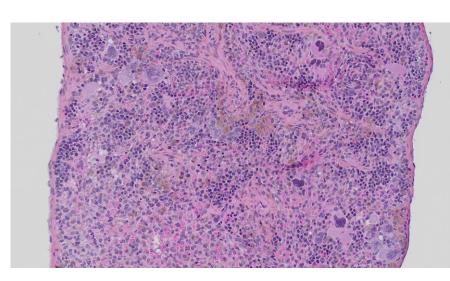




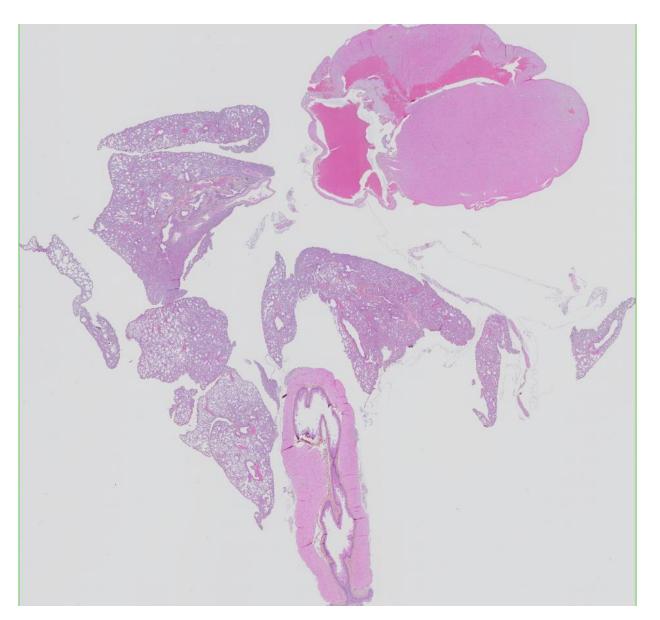
M30MP – Spleen and pancreas

Look normal





Supplementary figure 1-30-6. Histology pictures



M30LH – Lungs and heart

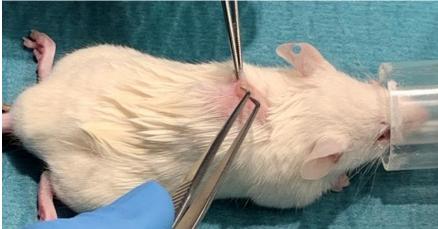
Look normal

Mouse 31

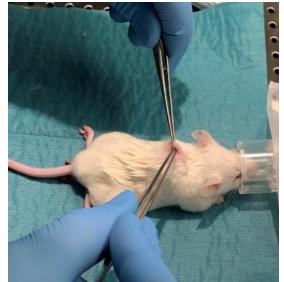
Surgery date:	03.09.19
---------------	----------

- Age (weeks) 33
- Weight (g) 23.8
- Tumor fragment P19-1a
- Fragment size 3 x 3 mm
- Ear marks 1





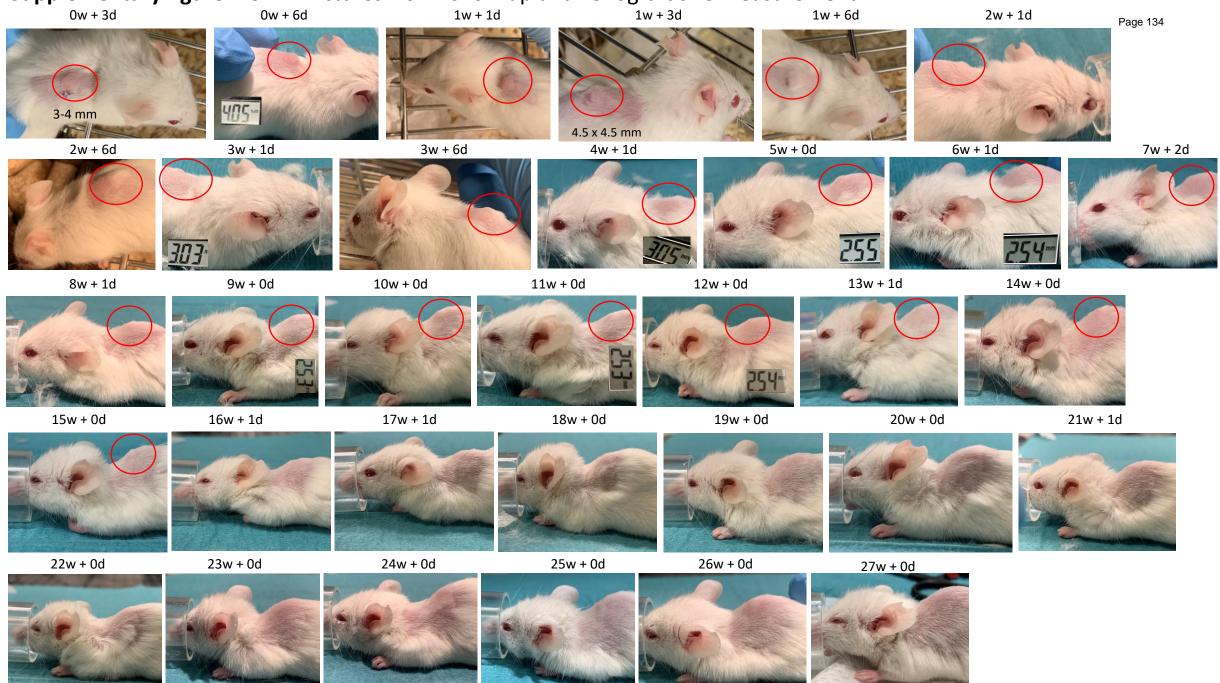






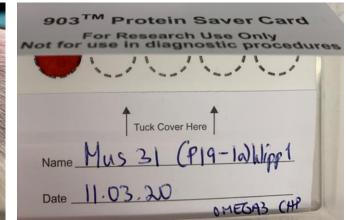
Supplementary figure 1-31-1. Pictures from the engraftment day

Supplementary figure 1-31-2. Pictures from follow up and xenograft size measurement



- No treatment given (no zenograft growth)
- Xenograft size not visiable
- Small/normal spleen
- Euthanized due to xenograft not growing after 6 months

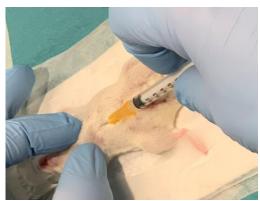










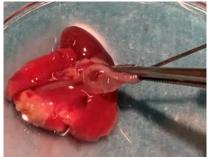


Stomach and pancreatic tissue

Pancreas

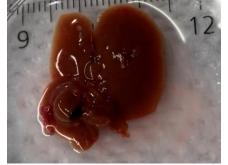
Small xenograft under the skin

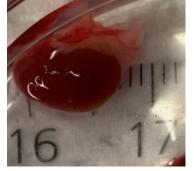
Blood sampling













Lungs filled with formalin Normal lungs and heart

Normal spleen

Normal liver

Normal kidney

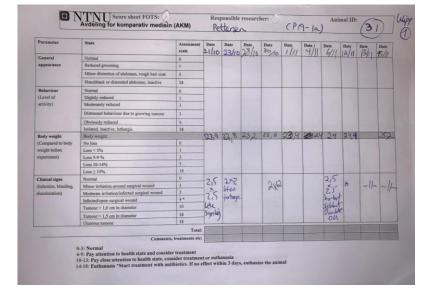
Thymus

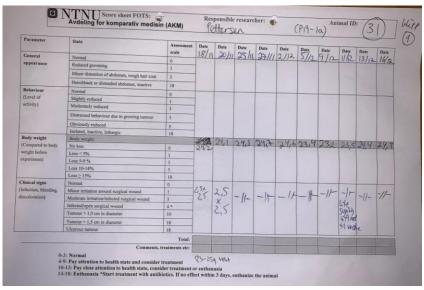
NUMBER 3 (PI9-la) AGE AT DEATH	Migg 1 DEATH N	ale Female 9 MODE 11.03-20	CIE	STRAIN DA NOG	BIRTH DATE	Pettersen, Caroline
		L SYMPTOMS AT DEATH	1 1 1 1			
ORGAN WEIGH	IT	1364613	966	SE	CTION TAKEN	V
ORGAN	WEIGHT	ORGAN	YES	GROSS OBSER	Marie Control of the	
Femur		1) Lung + Heart 2) Liver	X	on pylo	t of formalia	
Liver	COLUMN TO STATE OF THE PARTY OF	3) Kidney 4) Adrenal	X	ou		
Spleen	MP	5) Testis/Ovary 6) Spleen + Pancras	X	size? ra	1,5 cm , norma	I Litt hate fetter
Kidney		7) Lymph nodes 8) Bone marrow		1 2 1 1 2	in a ded d	(
Testis/Ovary	X	9) Xenograft 10) Hymus 11)	X	usiable.	pen wen for	Magning, huden; tall of til HES
		12) 13)				
Notes: Bledhort Blodplass Bilder	t V					

Autopsy card modified from: http://www.pathbase.net/Necropsy_of_the_Mouse/

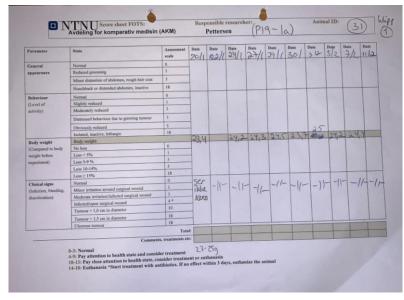
Parameter	State	Assessment	Date	Date 4/9	Date 6/9	Date 9/9	Dyte 19	Date 12 15	16/4	Date (7/5	Date 20/9	28/9	25/
		scale	3/9	7/9	0/1	7/4	.,,1	15/1	1014	10)	2/1	2011	(Commercial Commercia
General	Normal	0											
appearance	Reduced grooming												
	Miner distention of abdomen, rough bair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0											
(Level of	Slightly reduced	1											
activity)	Moderately reduced	3											
	Distressed behaviour due to growing turnour	3											
	Obviously reduced	5								-		72 4	-
	Isolated, inactive, lethargic	18				-	22 -	0	23.6	14.2	242	25	22
Body weight	Body weight		23,8	100	23,2	73,4	03/0	242	2000	-	3416	24	12)
(Compared to body	No loss	0	1		100000								
weight before	Loss < 5%	1											
experiment)	Loss 5-9 %	3			1								
	Loss 10-14%	5	1		1								
	Loss ≥ 15%	18			100000	-	See		-	-		Vers	
Clinical signs	Normal	0	5ack	alle	Shing	325	- way	derway				Yes.	3
(Infection, bleeding,	Miner irritation around surgical wound	1	inn	Stina	04	no rouse	411	45	4.5	-11	- 3.)	mind	1-
discoloration)	Moderate irritation/infected surgical wound	3	Xertop	N SECOND	Hydrin	74014		7,54	X	25	X-	ut	2 16
	Infected/open surgical wound	4.5	1 4	, or	MARCH	- days		450	ue	140	3.5	323	bou
	Tumour > 1,0 cm in diameter	10			3-4	215	1	11/2	1,3	135			
	Tumour > 1,5 cm in diameter	18			354	RAP				No.	1		
	Ulcerous tumour	18		_		19/1				-		-	
		Total:						SOU	17				-
	Comment	s. treatments etc:		100	100			July 12	21				4
	Comment 4-9: Pay attention to health state and consid 10-13: Pay close attention to health state, co 14-18: Euthansain *Start treatment with an	s, treatments etc:	at or entl	nanasia thin 3 da	es, euthan	ize the ani	mal	Ma	1				

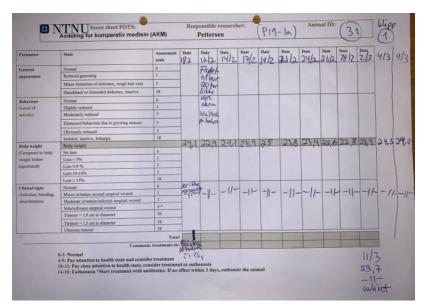
Parameter	State	Assessment		Date 30/9	Date	Date	Date/	Date	Date	Date	Date	Date
General	Normal	0	23/7	349	2/10	4/10	8/10	11/10	14/10	16/10	18/10	21/10
appearance	Reduced grooming	1	7									
	Minor distention of abdomen, rough hair coat	3	+									
	Hunchback or distended abdomen, inactive	18	-									
Behaviour	Normal	0	-									
(Level of	Slightly reduced	1	1									
ectivity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3	-									
	Obviously reduced	5	-									
	Isolated, inactive, lethargic	18	-									
ody weight	Body weight:	18	222	23.2	042	07 2	00 %	0			-	-
mpared to body	No loss	0	23,3	d) +	2/12	73,5	22,8	23,7	23,9	23.1	23	23.9
eight before	Loss < 5%	1								-		1000
periment)	Loss 5-9 %	3										
xperiment)	Loss 10-14%	5										
	Loss ≥ 15%	18										
nical signs	Normal	0										
fection, bleeding,	Minor irritation around surgical wound	1 3	5	15	3/	3/	15	samme?		00	11-	1
coloration)	Moderate irritation/infected surgical wound	3		1_	_	0	7	Somme	25	CV		1/5-
	Infected/open surgical wound	4.	2,5	2,5	3	2	Dr		77	+ X		10×
II T	Tumour > 1,0 cm in diameter	10	hubert				1<2		16.50	16,5		Garlie
	Tumour > 1,5 cm in diameter	18										pring
	Ulcerous tumour	18										1
		Total:										
	0	treatments etc:	-									





Parameter	State	Assessment	Date /12	Date	Date 23/12	Date 16/0	Date 30/12	Date 2/1/20	Date 6/1/a	Date 8/1	Date 13/1	Date / 15/(19
General	Normal	0	110	20/1	A KIND	Police	30/12	711120	0/11/26	011	10/1	10/1	200
appearance	Reduced grooming	1											
	Minor distention of abdomen, rough hair coat	3	1										
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0											ш
(Level of	Slightly reduced	1											
activity)	Moderately reduced	3	1										
	Distressed behaviour due to growing tumour	3											
	Obviously reduced .	5											
	Isolated, inactive, lethargic	18	23,9 Sailhe Xanoga										
Body weight	Body weight:		23,9	23	23.5	230	24,4	24.8	23,2	242	- 75,	240	12
(Compared to body	No loss	0	1		-		-					The same of the sa	
weight before	Loss < 5%	1	23,9 23 23,5 23,6 24,4										
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											ш
	Loss ≥ 15%	0 1 3 3 3 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ш							
Clinical signs	Normal	0	Saine 16 -11 11										
(Infection, bleeding,	Minor irritation around surgical wound	1			11	14		111	-11-	-11-	-11-	-1	-1
discoloration)	Moderate irritation/infected surgical wound	3		1-14	1-11		+11-	11	1-11	11	100	11-	ш
	Infected/open surgical wound	4.*	xonog	1	LILE G								
	Tumour > 1,0 cm in diameter	10			ERANAM	()							
	Tumour > 1,5 cm in diameter	5 10 0 1 11 10 10 1 11 10 10 10 10 10 10 10 10 10 10 10 10 1			100		ш						
	Ulcerous tumour	18	1				1		_			-	ā
		Total									1000	1	ш
	Comments	, treatments etc	3	1							11	1	
	0-3: Normal 4-9: Pay attention to health state and conside 10-13: Pay close attention to health state, cot 14-18: Euthanasia *Start treatment with an		25-15 at or eath effect with	nasia	s, euthaniz	e the anin	nal						



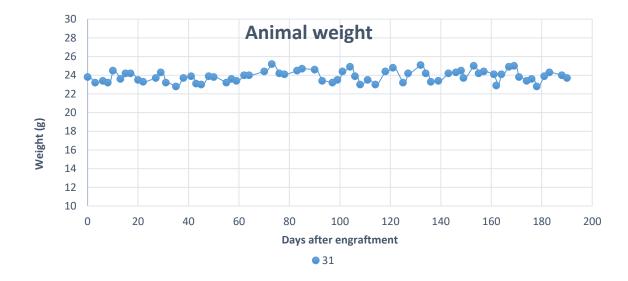


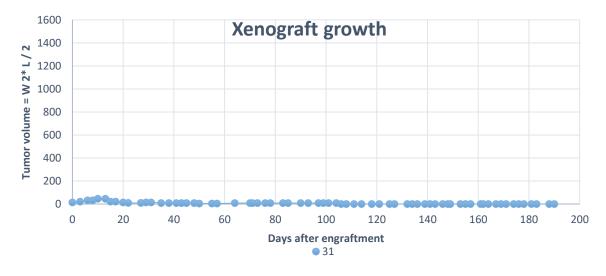
Supplementary figure 1-31-6.

Mouse and xenograft growth curves

Weight curve

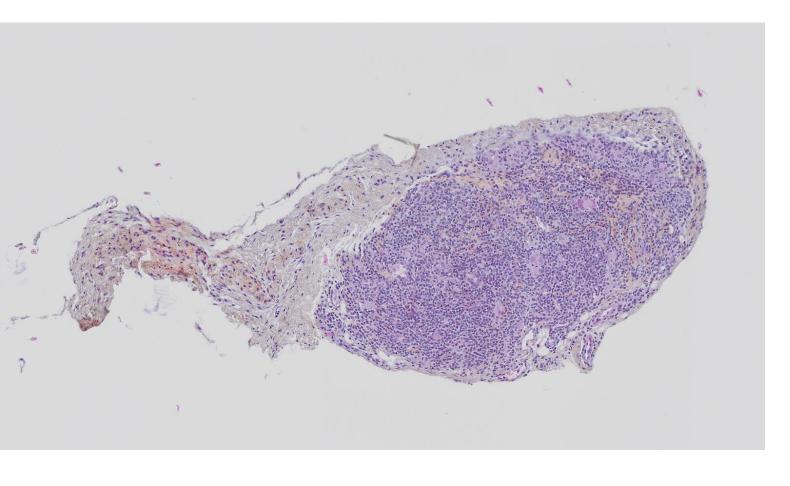
Xenograft growth curve

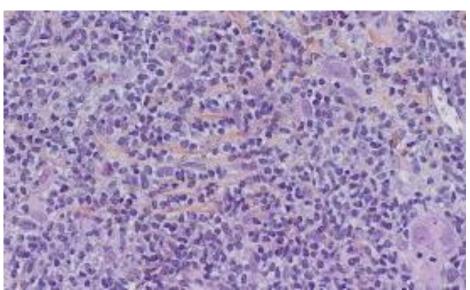




M31X – Remainings of xenograft?

- Looks like an inflammatory reaction that might have killed the xenograft
- Can see multinuclear and lymphoid cells





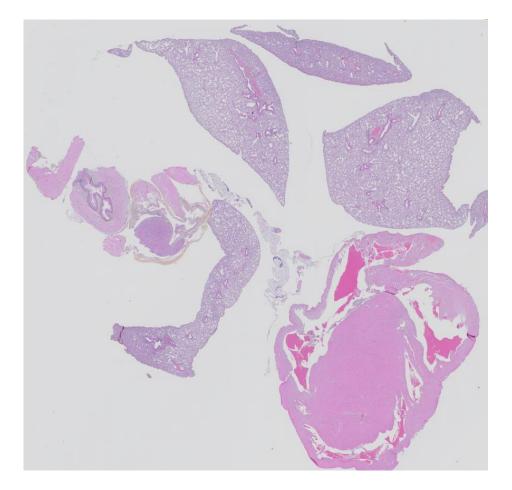
M31MP – Spleen and pancreas

Looks normal



M31LH – Lungs and heart

Looks normal



Mouse 32

■ Surgery date: 03.09.19

• Age (weeks) 33

• Weight (g) 22.2

• Tumor fragment P19-1b

• Fragment size 3 x 3 mm

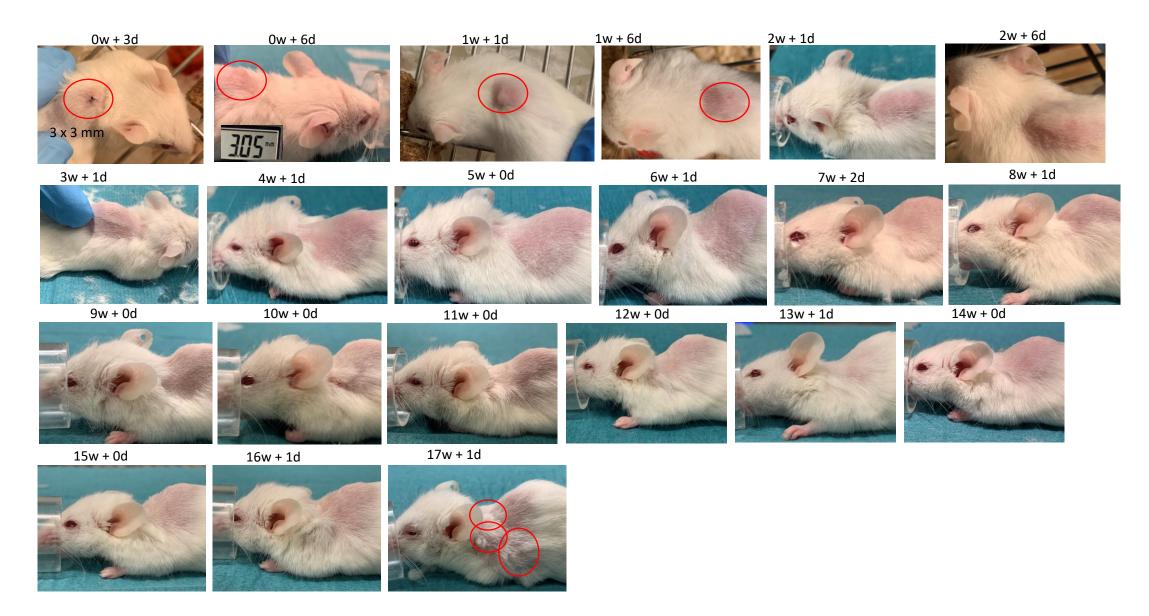
• Ear marks 2





Supplementary figure 1-32-1. Pictures from the engraftment day

Supplementary figure 1-32-2. Pictures from follow up and xenograft size measurement



Supplementary figure 1-32-3. Pictures from euthanization (02.01.20)

- No treatment given
- Euthanized due to reduced health and development of secondary tumors before growth of xenograft was established



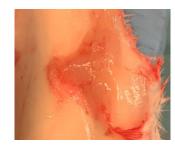
Large spleen, > 2 cm



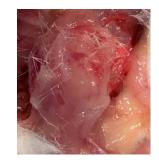
Tumor subcutanous over the ribs left side



Red svollen legs



Xenograft? Not growing

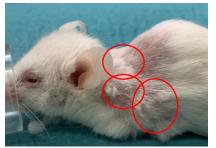


Red marks and svollen left shoulder. Tumor?



shoulder. Tumor?





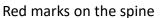
Reduced health, Thick wounded skin at the neck, Liquid in the eye/rinning eye, 3 secondary tumors, The mouse seemed anemic, could not be drawn blood from,



Red marks and svollen right



White lungs



Euthanization mouse #32 (P19-1b) 02.01.2020

Before euthanization:

- Reduced health
- Breathing heavily
- Thick irritated skin at the neck for at least 2 weeks
- Rinning eye
- Shoulders seemed enlarged

After euthanization:

- Could not be taken blood sample (anemic?)
- Enlarged spleen >2 cm
- White lungs
- All legs/shoulders red/svollen
- Red marks on the spine
- Xenograft did not seem to have grown
- Subcutanous tumor flat over the ribs

Histology samples:

M32X Xenograft

M32TS Tumor Right Shoulder

M32M Milt

M32LH Lung and Heart

M32TR Tumor over ribs right side

M32L Leg left

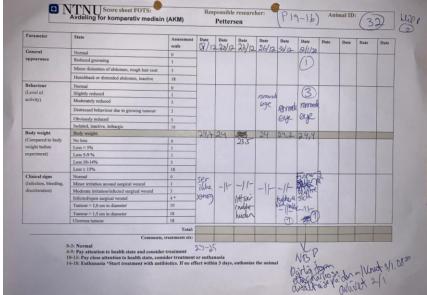
Parameter	State	Assessment scale	Date 3/9	Date 4/9	6/9	Date 9/9	Date 11/9	13/9	16/9	18/9	20/9	7379	25/
General	Normal	0					,	-	200				
appearance	Reduced grooming	1											
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0	-										
(Level of	Slightly reduced	1											
activity)	Moderately reduced	3											
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5											
	Isolated, inactive, lethargic	18	1	-								-	002000
Body weight	Body weight:		228		22.8	23,8	33,1	23,4	23,4	23,6	23,5	23,0	22
Compared to body veight before	No loss	0	-						-	-			
	Loss < 5%	1						1					
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											
	Loss ≥ 15%	18	-										Free
Clinical signs	Normal	0	TeH	allo	Shan	Ser	Ser	340				sec	hun
Infection, bleeding,	Minor irritation around surgical wound	1	ion	stina	911	Xen	sero	LAND	-11	11-	2X2	liter	Lite
discoloration)	Moderate irritation/infected surgical wound	3	N'anta	drati	herela	70011	www	1.0	15	A	-	tarh.	1/sl
	Infected/open surgical wound	4.*	1	ron	3/2	a.		13×3	mound	P		2V2	2 21
	Tumour > 1,0 cm in diameter	10			00	13×30	8	100	h.fura	4		1000	161
	Tumour > 1.5 cm in diameter	18				auria r	1						Und
	Ulcerous tumour	18				Meral	1			_			
		Total:											
	2000000	treatments etc:											

meter	State		25A	Date 30/9	2/10	9/10	B /10	Date II/ID	14/10	Date 6/10	Date 18/10	Date 21/
erat	Normal	0										
arance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
nviour	Normal	0										
vel of	Slightly reduced	1										
vity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5					1					
	Isolated, inactive, lethargic	18				00.7	OLE	202	536	22 9	225	22.6
dy weight	Body weight:		35'3	323	2216	23,7	04,0	14,3	2210	2001	Bakery Street	SPICATION
ompared to body	No loss	0		The state of						1		
	Loss < 5%	1		1		1						
	Loss 5-9 %	3	-									
January .	Loss 10-14%	5	-									
	Loss ≥ 15%	18	1		late.					SPF	-11-	H
inical signs	Normal	0	mure	n liter	Desca	11	+ 11	2	-11-	Stille		
affection, bleeding,	Minor irritation around surgical wound	1	wen	toste	Mary	-11	-11	-1-	1	XLINERY	4	
scoloration)	Moderate irritation/infected surgical wound	3	toch.		1	1						
Scotoranous	Infected/open surgical wound	4 *	1 Spin	NA	tour.		1					
	Tumour > 1,0 cm in diameter	10	15x							1		
	Tumour > 1,5 cm in diameter	18	bulou	4								
	Ulcerous tumour	18	00.12	1			1	1	1			
	Citations and Citation Citatio	Total	:		-	-	-		1000			
	Comme	its, treatments etc						-				

Responsible researcher:

Parameter	State	Assessment	Date	Date	Date 28/10	Date 39/10	Date 1/1/	Date ///	Date 6/1/	Date 12-11	Date 1 > /	Date
General	Normal	0	1110	23/10	00/10	7.0	1711	1/1)	10/10	10//	13/4	13 11
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1										
activity)	Moderately reduced	3										
	Distressed behaviour due to growing tumour	3										
	Obviously reduced	5										
	Isolated, inactive, lethargic	18										
Body weight	Body weight:		22,6	23	23.8	226	21,9	23.2	24.2	22,6		23,7
(Compared to body	No loss	0		0								
weight before experiment)	Loss < 5%	1										
	Loss 5-9 %	3										
	Loss 10-14%	5										
	Loss≥15%	18								- 11		-
Clinical signs	Normal	0	ser	muhi		NB!			Flath	Sleng	Sec	111
(Infection, bleeding,	Minor irritation around surgical wound	1	illu	axa'		Flatt			torhey	of our	y www	1-11
discoloration)	Moderate irritation/infected surgical wound	3	XIMA	WHOLD		porrade			omach	D Par	Jer Kerc	
	Infected/open surgical wound	4*	1	vanitre		toronal			CALSKS	+ Lucy	7	
	Turnour > 1,0 cm in diameter	10		tra Typy		507 1	/		bold	hole	127	
	Tumour > 1,5 cm in diameter	18		huren		40/3/2	7		Shulde	1	100	
	Ulcerous tumour	18				Rent H		_	Sjourn	1		
		Total:				war will						
-	Comments	treatments etc:				(a32)						10
	0-3: Normal 4-9: Pay attention to health state and conside 10-13: Pay close attention to health state, con 14-18: Euthanasia "Start treatment with ant	r treatment sider treatmen ibiotics. If no e	t or euth	anasia iin 3 days	, cuthaniz	e the anin	nal					

Parameter	State	Assessment	Date 18/11	Date	Date 25/11	Date	Date	Date	Date	Date	Date	Date
General	Normal	0	1011	2411	SAIT	27/11	2/12	3/2	9/12	11/12	13/12	116/2
appearance	Reduced grooming	1	-		1							
	Minor distention of abdomen, rough hair coat	3	-									
	Hunchback or distended abdomen, inactive	18	+									
Behaviour	Normal	0										
(Level of	Slightly reduced	1										
activity)	Moderately reduced	3	1									
	Distressed behaviour due to growing tumour	1				1						
	Obviously reduced	-										
	Isolated, inactive, lethargic	5										
Body weight	Body weight	18	-	*******								
(Compared to body	No loss	0	24,4	29,9	23,6	23,5	24,7	24,7	24,2	23.9	24.2	24,2
reight before	Loss < 5%	0	-									
	Loss 5-9 %	3	1									
	Loss 10-14%	5	1									
	Loss ≥ 15%	18										
Clinical signs	Normal	0	NV SARR									-
Infection, bleeding,	Minor irritation around surgical wound	1	Showled			- 11	11	In	11	11	40	Mules
fiscoloration)	Moderate irritation/infected surgical wound	3		-1/-	11-	-11-	1/4	-11-	-11-	-11	-1/-	Hules forhem under
	Infected/open surgical wound	4.			-1							Slann
	Tumour > 1,0 cm in diameter	10	scribbe									foran
	Turnour > 1,5 cm in diameter	18	XIno									punter!
	Ulcerous tumour	18										noden
		Total:										made
	Comments	treatments etc:				-						
4	1-3: Normal 1-9: Pay attention to health state and consider 10-13: Pay close attention to health state, cons 14-18: Euthanasia *Start treatment with antil	treatment	22-2	asia	outhonis	the serious						

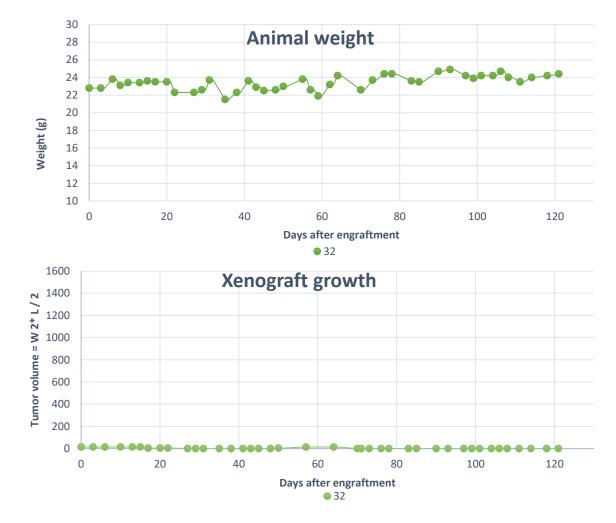


Supplementary figure 1-32-5.

Mouse and xenograft growth curves

Weight curve

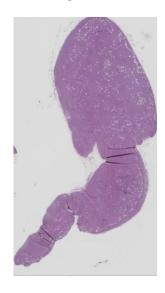
Xenograft growth curve

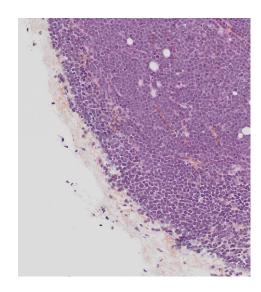


Secondary tumor growth curve

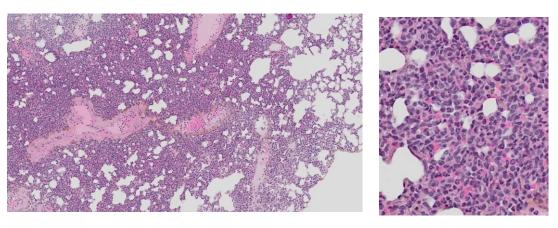
3 secondary tumors found at the day of euthanization. Size was not measured.

M32X





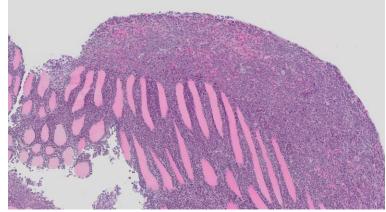
Xenograft did not grow. During necroscopy what was belived to be remainings of the xenograft was sampled. However HES staining showed that it was probably not the xenograft, but another tissue structure.



Dense aereas in the lungs consisting of lymphoid cells

M32L

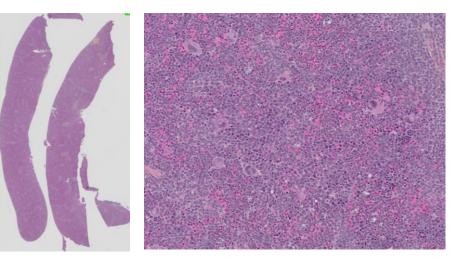
M32LH





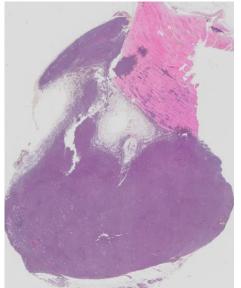
- Red svollen leg
- Lymphoid tumor cells present
- Bone structures

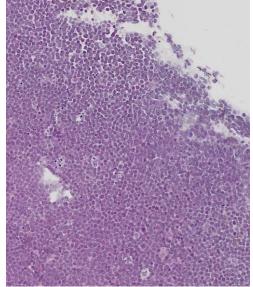
Supplementary figure 1-32-6. Histology pictures M32M



■ Large spleen > 2 cm with lymphoid cells

M32TR – secondary tumor





M32TS

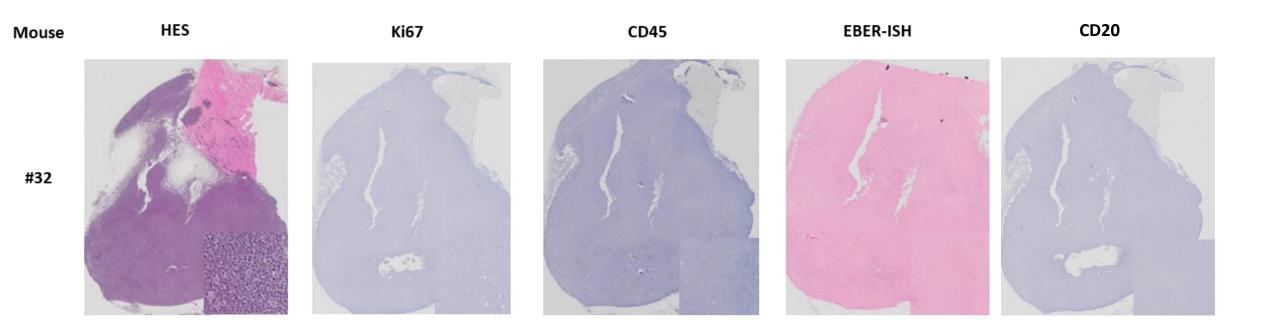


- Ca 1 cm tumor on right shoulder
- Bone structures
- Lymphoid tumor cells

Lymphoid tumor cells

M32TR – secondary tumor

- Lymphoma
- IHC staining for human spesific Ki67 and CD45 negative
- EBER-ISH staining for EBV negative
- Most likely a mouse tumor



Mouse 33

Surgery date:	03.09.19
Age (weeks)	33
Weight (g)	21.9

Tumor fragment P19-2aFragment size 3 x 3 mm

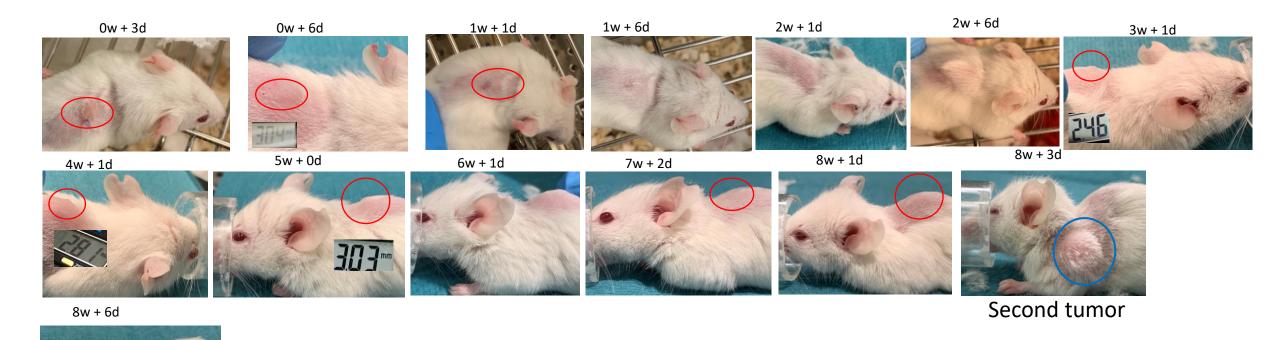
• Ear marks 3





Supplementary figure 1-33-1. Pictures from the engraftment day

Supplementary figure 1-33-2. Pictures from follow up and xenograft size measurement



Second tumor

Spleen

Ovary

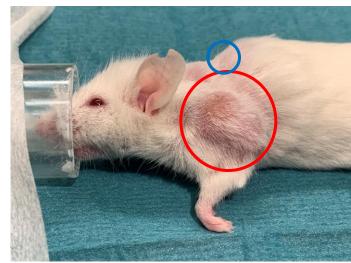
Kidney

Liver

Lymph node?

Supplementary figure 1-33-3. Pictures from euthanization (04.11.19)

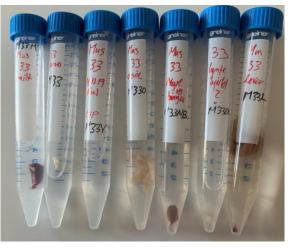
- No treatment given (xenograft not growing)
- Euthanized due to large secondary tumor before growth of xenograft was established
- Secondary tumor: size: 14 x 9 mm



Blue; no visiable xenograft Red; secondary tumor



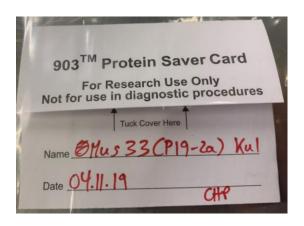
Secondary tumor



Histology samples



Enlarged spleen



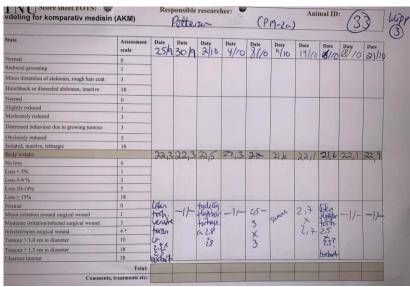
Mus 33 Xenograft servograft 4.11 M33 33 4.11.19 Milt M33M Tumor left 4.11.19 Kulvenstre M33V ovarie M330 M33NB nyre og bingre M33LK M33/

Naming of histology samples



Blood sampling

Parameter	State	Assessment	3/9	Date U/9	Date 6/9	Date 9	Date G	Date 12 /0	Date 16/9	Date 18/1	Date 20/7	Date 22	226
General	Normal	0	2/1	7/1	0/1	1/1	1// 1	12/1	10/1	18/1	uy 1	63/1	MA
appearance	Reduced grooming	1											
	Minor distention of abdomen, rough hair coat	3											
	Hunchback or distended abdomen, inactive	18											
Behaviour	Normal	0											
(Level of	Slightly reduced	1											
activity)	Moderately reduced	3											
	Distressed behaviour due to growing tumour	3											
	Obviously reduced	5											
	Isolated, inactive, lethargic	18						_					
Body weight	Body weight:		2/19	1	21.7	22,5	22,6	23,0	2216	23.7	735	220	522,
Compared to body reight before	No loss	0	1		1000	1	10000	1	10000	200		-	1
	Loss < 5%	1			100								
experiment)	Loss 5-9 %	3											
	Loss 10-14%	5											
	Loss ≥ 15%	18											
Clinical signs	Normal	0	gutt	alle	liter	Sur			serbore	E -14		the	6 tent
(Infection, bleeding,	Minor irritation around surgical wound	1	101	Stine		Keow	-11-	-1/		1	1	tark	vense
discoloration)	Moderate irritation/infected surgical wound	3	J Donder	# 37	3×3	2-7	H	11-	- CHA	3×	3	han	2015
	Infected/open surgical wound	4 *	Mand.	L On	7	137			Tonuy	his house	2	62 10	2.5
	Tumour > 1,0 cm in diameter	10				burbart			100	1 side		SION	01
	Tumour > 1.5 cm in diameter	18				coy mal			1 0	naM	~		bata
	Ulcerous tumour	18				- 0							
		Total:											
_	Comments												
1	Ulcerous tumour	Total: treatments etc:			o, cuthania	ce the anim	nal						



Parameter	State	Assessment scale	Date 21/16	Date	Date 28/10	Date 30/10	Date	Date 4///	Date	Date	Date	Date
General	Normal	0									0.00	
appearance	Reduced grooming	1										
	Minor distention of abdomen, rough hair coat	3										
	Hunchback or distended abdomen, inactive	18										
Behaviour	Normal	0										
(Level of	Slightly reduced	1									1	
activity)	Moderately reduced	3									1	
	Distressed behaviour due to growing tumour	3								1		1
	Obviously reduced	5										
	Isolated, inactive, lethargic	18	1000				10 1					
Body weight	Body weight:		22,9	P.CC	224	21.8	22,4	223				
(Compared to body	No loss	0										
weight before	Loss < 5%	1	110									
experiment)	Loss 5-9 %	3	1								1	
	Loss 10-14%	5										
	Loss ≥ 15%	18										
Clinical signs	Normal	0	iden	Men	SeriMa	When	1 1	14x				
Infection, bleeding,	Minor irritation around surgical wound	1	Hotellow	1-1	Maple	torh.	un	9				
discoloration)	Moderate irritation/infected surgical wound	3	1	Torn.	10 1	2 22	our	(m)(m)				
	Infected/open surgical wound	4 *	Laumin	741		De	Tulde	kul				
	Tumour > 1,0 cm in diameter	10	712	-			fxol	1				
	Tumour > 1,5 cm in diameter	18	25				104					
	Ulcerous tumour	18	613									
		Total:						artite	-			
	Comments.	treatments etc:	1000					pace				

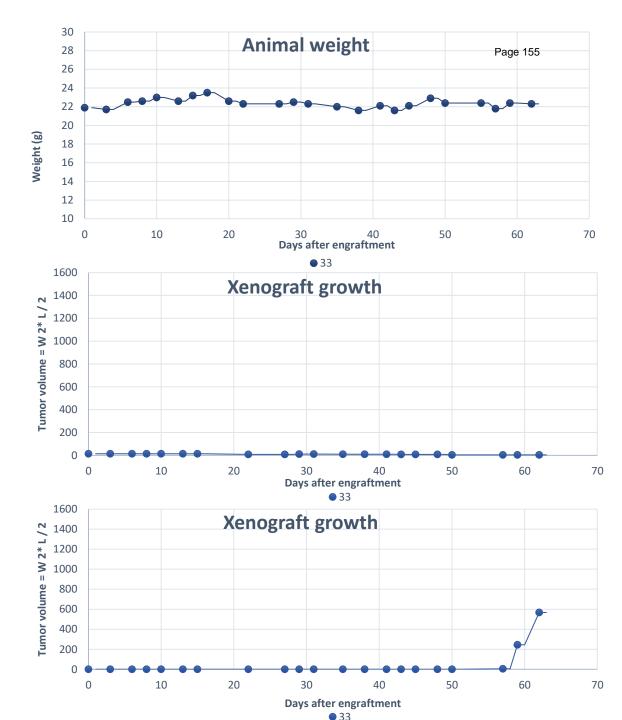
Supplementary figure 1-33-5.

Mouse, xenograft and secondary tumor growth curves

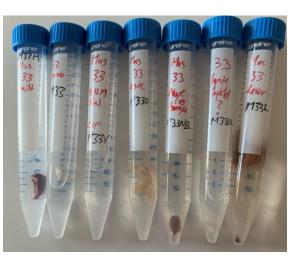
Weight curve

Xenograft growth curve

Secondary tumor growth curve







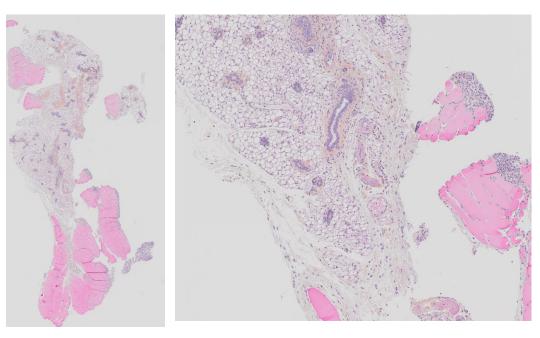
Histology samples

Mus 33		
	ograft 4.11 ·	M33
Mus 33 4.11.19	9 Milt	M33M
Mus 35 4.11.	19 Kulvenstre	M33V
-11-	ovarie	M330
-11-	nyre og bingre	M33NB
~ 11-	hympehjetel?	M33LK
-11-	lever	M33L

Xenograft
Spleen
Tumor left
Ovary
Kidney
Lymph node?
Liver

Naming of histology samples

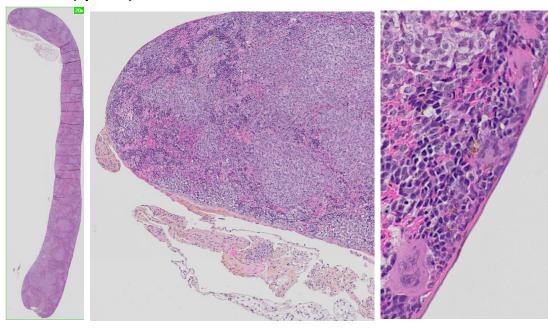
M33X



• Probably not the xenograft due to most muscle cells surrounded by muscle and connective tisue and lymphoid tumor cells, but not epithelial cells as in the colon

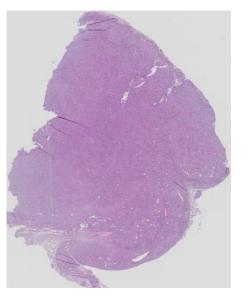
Supplementary figure 1-33-6. Histology pictures

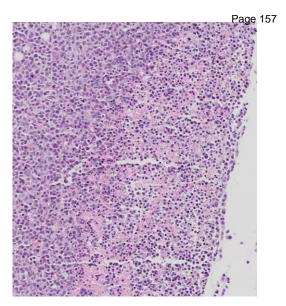
M33M (spleen)



- Plenty lymphoid tumor cells in the spleen
- Measured on 1.3 cm on the slide, 2.56 cm calculated from picture of spleen in petri dish after euthanization
- Red aereas with possible bleedings
- Can see macrophages, giant cells/ghost cells

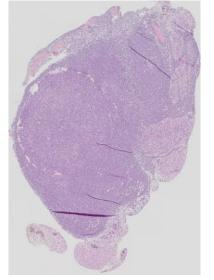
M33V (tumor left shoulder)

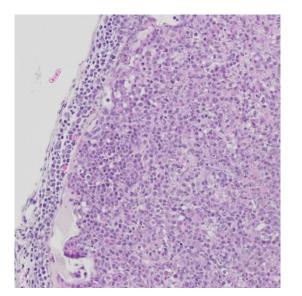




- Plenty lymphoid tumor cells packed dense together
- Smaller aereas with necrosis

M33LK (lymph node?)

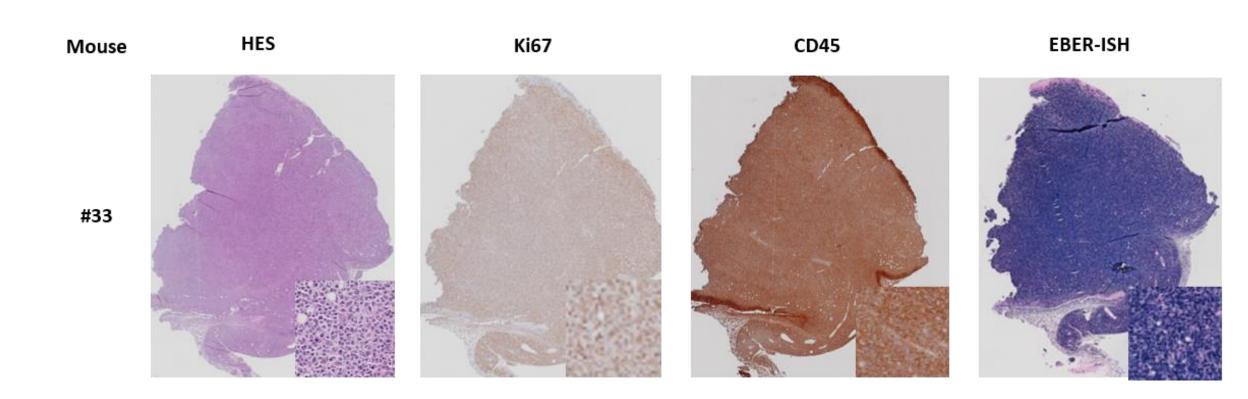




Plenty lymphoid tumor cells densly packed together

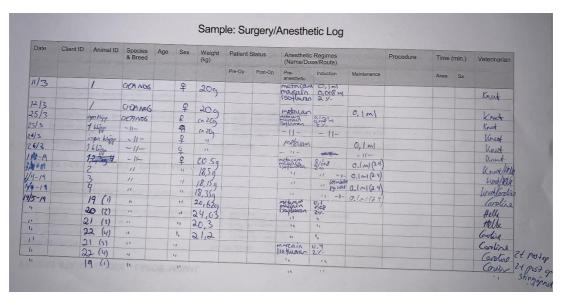
M33V (tumor left shoulder)

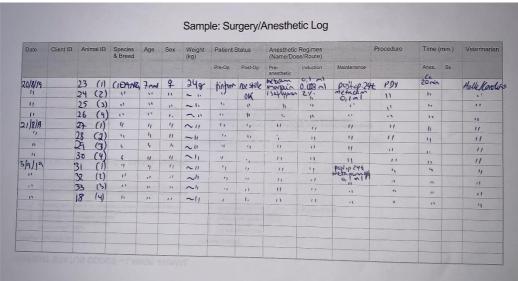
- -IHC staining for Ki67 and CD45
- -EBER-ISH staining for EBV



Supplementary file 2

Date:	Mouse r	nr:	Tumor:		Patient:	
Heating sham	hor 27°C		HiBicorub V	Jorhovidin 4	vNaCl	
Heating cham	areas with ethan	al.	HIBISCIUD, K	lorhexidin, 4	XINACI	
		101				
Heating pad 3	<i>/</i> C					
Weight Anasthezia ch			N O CO 0/	02.40.0/	ofluence 20/	
				- O2 40 % - Is	ofluran 2%	
Anasthezia ma	ask		N ₂ O ₂ 60 % -	- UZ ZU % - IS	onuran 1.5-2%	
Eye gel						
Ear mark						
Shaving						
Change surger						
Fixate feet wit	•	: /::0.4 1)				
	stemic anasthez	ia (~0.1 mi)	Orange can	yie		
	area: HiBiscrub	•				
	area: Chlorhexid					
	al anasthezia (~0).08 ml)	Yellow cany	le		
Pinch foot wit	<u> </u>					
Make a cut wi	•					
	make a pocket u					
	ragment with Na	ICI				
Stich the wou						
Take a picture	of the mouse/su	irgery area				
Exuipment:		Comments:				
Eye gel						
Heating pad						
2 x Sterile surge	ery tissues					
HiBiscrub						
Chlorhexidine						
Autoclaved sur	gery instruments	(2 x forceps, 2 :	x sizzors. Sutu	ır instrumeni	ts)	
2 x Scalpels	5 7	(= ::::::::::::::::::::::::::::::::::::				
4 x sutures (nr !	5)					
· ·	e + 8 x yellow can	vlo				
	c dish for HiBiscr	•	:			
•						
	rgery instrument	.s between anin	iais			
Sterile q tips						
Tape						
Ear mark instru	ment					
NaCl						
Metacam						
Marcain						
Performed by:						





Supplementary figure 2-2. Picture of anesthesia logs

Suplementary file 3

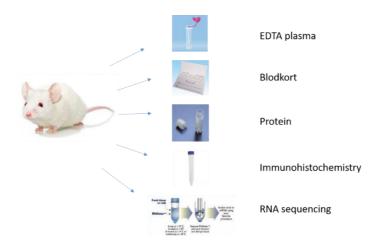
Procedure for euthanization, blood- and tissue sampling of CIA NOG mice

Human endpoints:

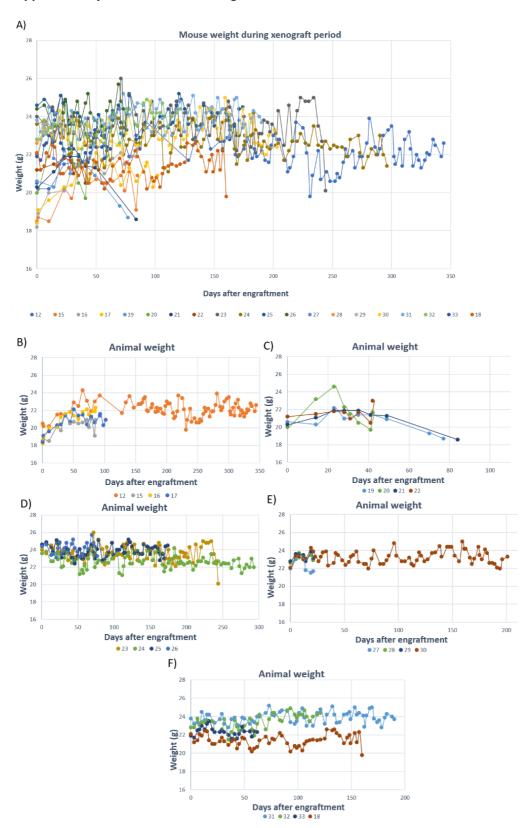
- 8 weeks treatment with Smartfish Remune with fishoil or placebo
- Tumor volume ~1500 mm³ or >10 % loss of body weight

Procedure:

- 1. Register mouse weight
- 2. Put mouse into anasthesia chamber with isofluarane 2% (O2, N2O)
- 3. Place the mouse on the back on a heating pad with surgery tissue and anesthesia mask
- 4. Take blood sample by heart punctation
 - a. Collect full blood in a EDTA tube
 - b. Spot 50 μ l full blood onto a Whatman filtercard (dry 2 h at RT, freeze -80°C)
 - c. Mark blood cards with mouse name and date
- 5. Centrifuge EDTA tube to prepare blood plasma (4°C, 3000 rpm, 10 min)
- 6. Meassure tumor size
- 7. Shave and wash (EtOH) the tumor area
- 8. Cut out the PDX using a scalpel
 - a. Remove necrotic tissue/connective tissue
 - b. Take 4 samples from the tumor (Histology prioritized if small PDX)
 - i. 4x4x4 mm for histology in a tube with 4% NBF
 - ii. 4x4x4 mm for RNA-sekvensering in a cryotube (snapfreeze N₂, then -80°C)
 - iii. x4x4 for protein isolation in cryotubes (snapfreeze in N₂, then -80°C)
 - iv. The rest of the PDX is frozen in fragments in cryotube (snapfreeze N₂, -80°C)
- 9. Wash (EtOH) and open the abdomen
- 10. Cut the aorta
- 11. Shut of the anastesia gas
- 12. Perform necroscopy
 - a. Organs are sampled on tubes with 4% NBF
- 13. Fill out autopsy card
- 14. Pipett the blood plasma into a sterile tube and freeze at -80°C
- 15. Mark plasma tubes (mouse ID, plasma, date and initials



Supplementary material 4: Mice weight curves



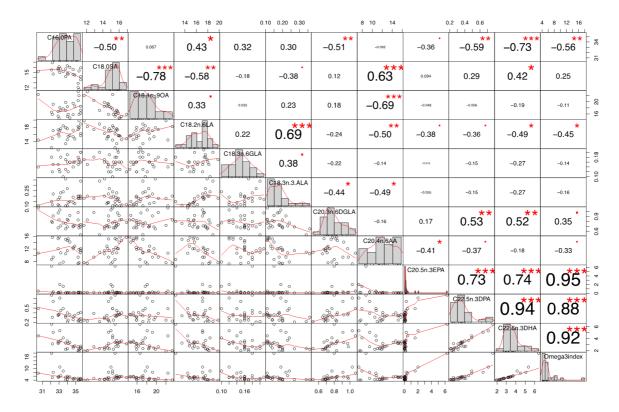
Supplementary figure 4-1. Animal weight curves for A) all mice B) mouse #12, 15, 16 and 17 (tumor fragments from patient 3), C) mouse #19, 20, 21 and 22 (tumor fragments from patient 11), D) mouse #23, 24, 25 and 26 (tumor fragments from patient 17), E) mouse #27, 28, 29 and 30 (tumor fragments from patient 18), and F) mouse #31, 32, 33 and 18 (tumor fragments from patient 19).

Supplementary file 5

Supplementary Table 5-1. Fatty acid profiling of patient and mouse whole blood

Supplet	ilciitai y i	abie 5-1. r	atty at					content				=1		
Sample	Tumor	Treatment	C16:0										C22:6	Omega-
ID	fragment	status	PA	SA	c-9	n-6	n-6	n-3	n-6	n-6	n-3	n-3	n-3	3 index
			1		OA	LA	GLA	ALA	DGLA	AA	EPA	DPA	DHA	
Р3			25.7	16.2	23.7	19.7	0.08	0.39	1.17	8.13	0.85	1.05	2.89	6.12
P11			29.0	12.9	24.6	22.0	0.10	0.60	1.18	5.97	0.91	0.80	1.90	4.99
P17			31.3	13.0	24.1	19.0	0.28	0.44	0.97	4.89	2.02	0.92	3.07	8.00
P18			26.7	15.8	24.3	19.1	0.20	0.30	1.28	8.15	0.83	1.13	2.29	5.35
P19			29.6	14.8	26.2	17.4	0.19	0.33	1.58	6.88	0.47	0.89	1.64	4.06
M12	P3-1a	No	34.9	14.5	18.6	14.8	0.16	0.13	0.72	12.9	0.10	0.35	2.81	4.98
M15	P3-1b	Start	35.4	15.3	15.9	18.0	0.16	0.20	0.67	11.9	0.07	0.25	2.25	4.24
M15	P3-1b	PLACEBO	35.3	12.9	20.4	17.4	0.18	0.18	0.98	9.45	0.24	0.39	2.66	4.99
M16	P3-2a	Start	34.7	15.6	15.8	17.2	0.16	0.19	0.71	12.5	0.08	0.32	2.71	4.98
M16	P3-2a	OMEGA-3	33.1	15.0	18.1	17.1	0.12	0.19	1.03	7.30	2.02	0.71	5.34	10.80
M17	P3-2b	Start	33.8	14.2	19.8	17.9	0.17	0.36	0.65	10.5	0.09	0.31	2.24	4.26
M18	P19-2b	No	35.6	13.6	17.2	18.9	0.20	0.34	0.53	11.0	0.07	0.22	2.36	4.37
M19	P11-1a	OMEGA-3	32.1	15.5	16.6	12.4	0.18	0.15	0.80	8.72	6.30	0.77	6.43	17.9
M20	P11-1b	Start	32.9	15.5	15.3	16.2	0.15	0.12	0.67	15.3	0.06	0.35	3.43	5.66
M20	P11-1b	PLACEBO	35.4	11.7	22.0	19.8	0.17	0.18	0.72	7.68	0.19	0.25	1.93	4.01
M22	P11-2b	Start	33.0	16.1	14.5	15.6	0.13	0.11	0.83	15.8	0.09	0.37	3.47	5.75
M22	P11-2b	OMEGA-3	35.3	12.1	23.3	18.2	0.15	0.20	0.83	7.47	0.17	0.23	2.01	4.09
M23	P17-1a	Start	34.7	14.6	19.5	15.4	0.14	0.14	0.69	12.1	0.09	0.26	2.46	4.53
M23	P17-1a	PLACEBO	30.5	15.2	22.4	14.5	0.14	0.11	1.07	10.7	0.50	0.49	4.48	7.62
M24	P17-1b	No	34.1	14.7	15.9	15.5	0.12	0.14	0.82	15.2	0.10	0.25	3.20	5.43
M25	P17-2a	No	35.6	15.9	16.3	15.7	0.20	0.18	0.74	12.1	0.12	0.41	2.75	4.93
M26	P17-2b	Start	35.6	14.2	18.5	16.3	0.16	0.20	0.69	11.5	0.10	0.28	2.48	4.57
M26	P17-2b	OMEGA-3	32.3	14.7	19.2	17.1	0.15	0.22	0.91	9.45	0.31	0.64	5.07	8.09
M27	P18-1a	Start	34.3	16.0	14.7	15.7	0.16	0.15	0.92	14.2	0.11	0.36	3.38	5.68
M27	P18-1a	OMEGA-3	32.9	15.8	16.8	17.3	0.21	0.17	0.97	12.1	0.17	0.36	3.20	5.56
M28	P18-1b	Start	34.0	16.3	15.2	14.6	0.16	0.11	0.84	14.7	0.11	0.40	3.63	6.00
M28	P18-1b	PLACEBO	33.2	15.7	17.2	17.6	0.18	0.23	0.71	10.8	0.26	0.45	3.73	6.33
M29	P18-2a	OMEGA-3	33.5	15.2	17.7	18.4	0.10	0.24	0.77	7.91	1.60	0.49	4.14	8.72
M30	P18-2b	No	32.2	16.9	15.9	14.9	0.12	0.12	0.78	15.7	0.08	0.31	3.14	5.35
M31	P19-1a	No	33.8	15.7	17.2	13.5	0.13	0.11	0.76	15.1	0.07	0.34	3.28	5.51
M33	P19-2a	No	34.0	14.8	18.4	17.6	0.19	0.27	0.69	11.5	0.07	0.21	2.32	4.33
Average	untreated r	nice	34.29	15.24	16.79	16.11	0.16	0.18	0.73	13.25	0.09	0.31	2.87	5.03
Standard	deviation		1.02	0.91	1.70	1.46	0.03	0.08	0.09	1.84	0.02	0.06	0.49	0.60
Average	Smartfish tı	eated	33.20	14.72	18.62	16.75	0.15	0.20	0.89	8.83	1.76	0.53	4.37	9.19
Standard	deviation		1.15	1.34	2.48	2.20	0.04	0.03	0.10	1.80	2.36	0.21	1.59	4.88
Average	Placebo tre	ated	33.60	13.88	20.50	17.33	0.17	0.18	0.87	9.66	0.30	0.40	3.20	5.74
Standard	deviation		2.30	1.89	2.36	2.17	0.02	0.05	0.18	1.45	0.14	0.11	1.13	1.57

P=patient, M=mouse, FAME=fatty acid methyl ester, No=no treatment given, OMEGA-3=Smartfish Remune with fish oil, PLACEBO=Smartfish Remune Placebo with rapeseed oil



Supplementary figure 5-1. Correlation in values for different fatty acids measured in mouse whole blood.