

# GalAhead<sup>™</sup> Platform & Programs

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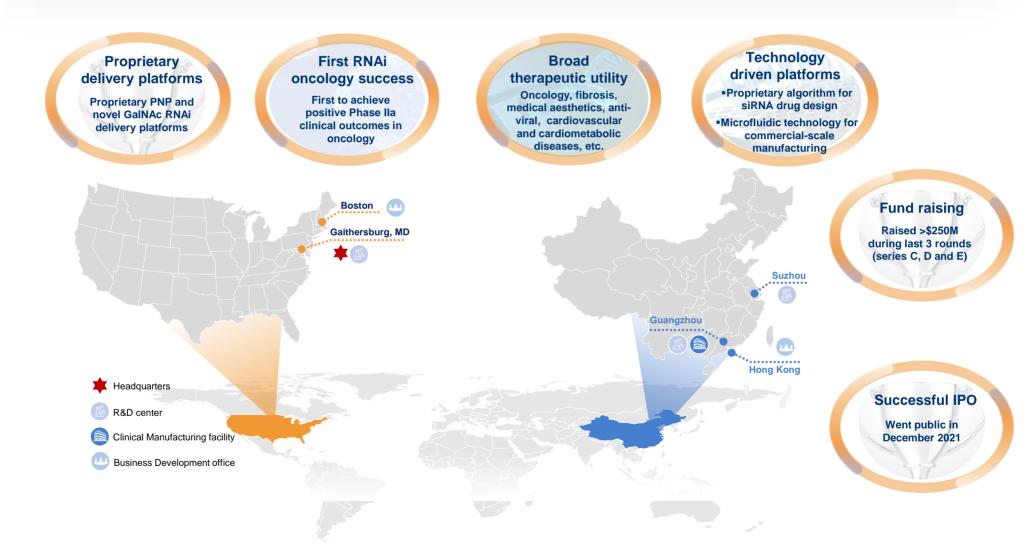
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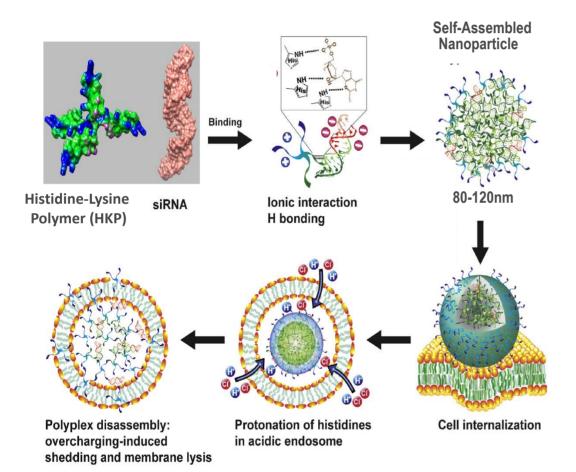


### **Sirnaomics: Introduction**





## Peptide Nano-Particle (PNP) Technology: principles



### **Polypeptide Nanoparticle (PNP) delivery**

- Biodegradable histidine-lysine branched polymer
- Envelops and protects siRNA to facilitate delivery into the targeted tissue and cell
- Histidine mediated protonation to facilitate siRNA payload release
- Nanoparticle size is controllable to diversify tissue distribution and enhance safety
- Addressing key cell types in liver beyond hepatocyte
- Multiple routes of administration: intradermal/tumoral, and systemic (systemic tox ongoing)



### Sirnaomics: PNP-based programs

	Candidate	Gene Targets	Indications	Delivery Platform	Pre-clinical	IND Enabling	IND	Phase I	Phase II	Phase III	Rights
			isSCC					China (N	US IRCT) <sup>2</sup>		Global
	STP705*	TGF-β1/COX-2	BCC	PNP-IT					US		Global
		101-91/00/2	Liver Cancer <sup>1</sup> (Basket) **			China (MRC	<b>(T)</b> <sup>3</sup>	US			Global
			Liver Cancer, combo with anti-PD-(L)15					US			Global
Oncology	STP707		Multiple solid tumors	 PNP-IV		China (MRC	CT)⁴	US			Global
		TGF-β1/COX-2	cSCC					US			Global
			NSCLC					US	   		Global
			Liver Cancer, cSCC, NSCLC, combo with anti-PD-(L)1 <sup>5</sup>					US			Global
	STP355	TGF-β1/VEGFR2	Pan Cancer	PNP-IT / IV		US					Global
	STP369	BCL-xL/MCL-1	Head & Neck Cancer / Bladder Cancer	· · · · · · · · · · · · · · · · · · ·		US					Global
			Keloid Scarless Healing			no ma (na co no			US		Global
	STP705*	STP705* TGF-β1/COX-2		PNP-ID		US				1	
	011100		Hypertrophic Scarring					China (MRCT	)		Global
Fibrosis								China			
		TGF-β1/COX-2	Liver Fibrosis (PSC)					US			Global
	STP707			PNP-IV		China ( M	RCT )				
			Lung Fibrosis			US					Global
Medical Aesthetics	STP705*	TGF-β1/COX-2	Fat sculpting	PNP-ID				US			Global

Notes : \* denotes our core product \*\* denotes orphan drug

1. Liver cancer (basket) includes cholangiocarcinoma, hepatocellular carcinoma, liver metastases etc.

2. We filed our IND in China in June 2021, which is currently awaiting approval from NMPA, for study sites in China. The study sites will be part of a global multicenter clinical trials for our Phase IIb clinical trial for isSCC.

3. We expect to file the IND in China as part of the global multicenter clinical trials.

4. We expect to file the IND solely for HCC in China as part of the global multicenter clinical trials.

5. Studies in combination with anti-PD-(L)1 inhibitors conducted pursuant to collaborations with Innovent and Shanghai Junshi.



### GalAhead<sup>™</sup>: Sirnaomics' proprietary GalNAc-siRNA platform



GalAhead<sup>™</sup> technology incorporates multiple components

mxRNA<sup>™</sup>: miniaturized single-targeting RNAi triggers

muRNA<sup>™</sup>: multi-unit multi-targeting RNAi triggers

Note: pronounced as in Sir **Galahad**, a knight of the King Arthur's Round Table and one of only three achievers of the Holy Grail



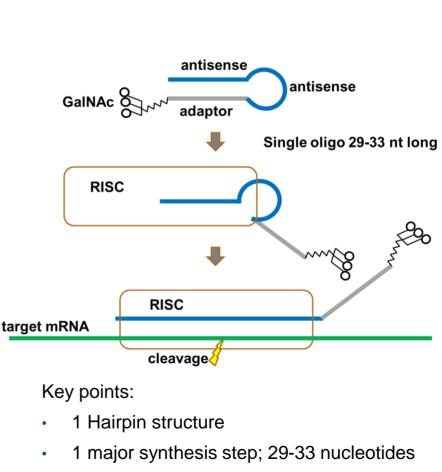
### mxRNAs<sup>™</sup>: Proposed mechanism of action (MOA)

# antisense (guide) strand GalNAc Sense (passenger) strand RISC (Ago2) degradation RISC target mRNA cleavage

**Conventional GalNAc-siRNA** 

### Key points:

- Two single strands
- 3 major synthesis steps; 56+ nucleotides
- High risk of off-target effects loose degradation siRNA fragment

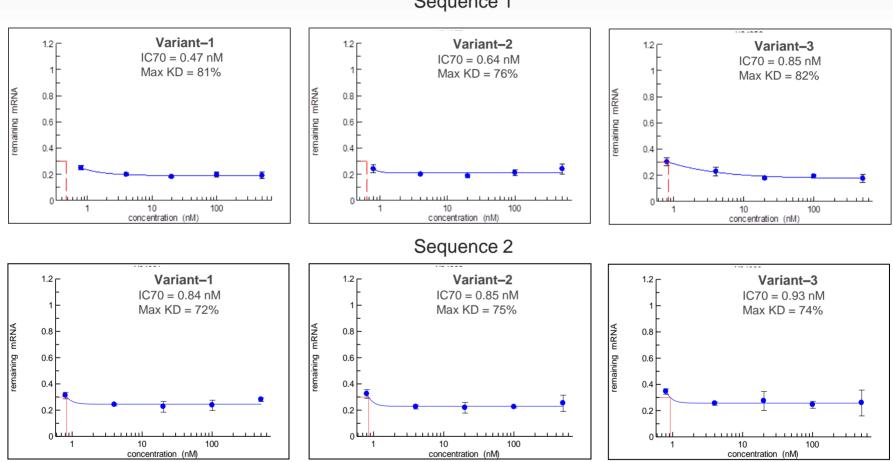


Sirnaomics mxRNA

• Less risk of off-target effects



### mxRNA<sup>™</sup>: Remarkable activity in primary hepatocytes



Sequence 1

Cells: primary mouse hepatocytes

Delivery: passive uptake

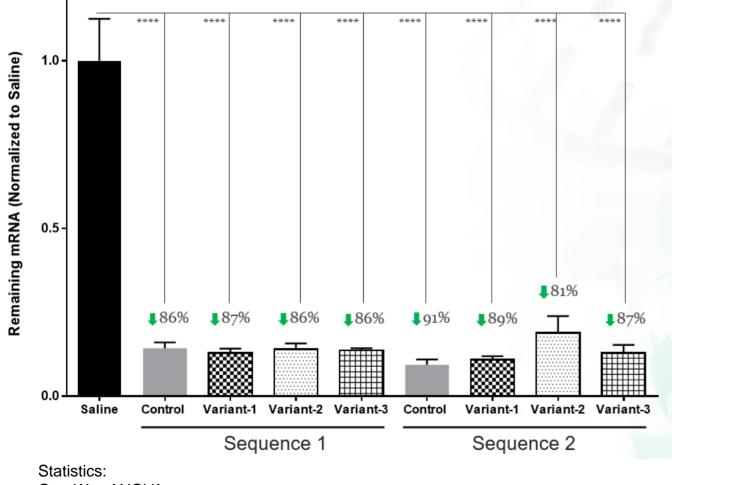
Concentrations: 500, 100, 20, 4.0, 0.8 nM

Time-point: 72 hours

Readout: TMPRSS6 mRNA



## mxRNA<sup>™</sup>: Outstanding in vivo activity (single dose)



**Study Design** 

Animals:

mice

#### Dose:

• 10 mg/kg

#### **Timepoint:**

• 5 days

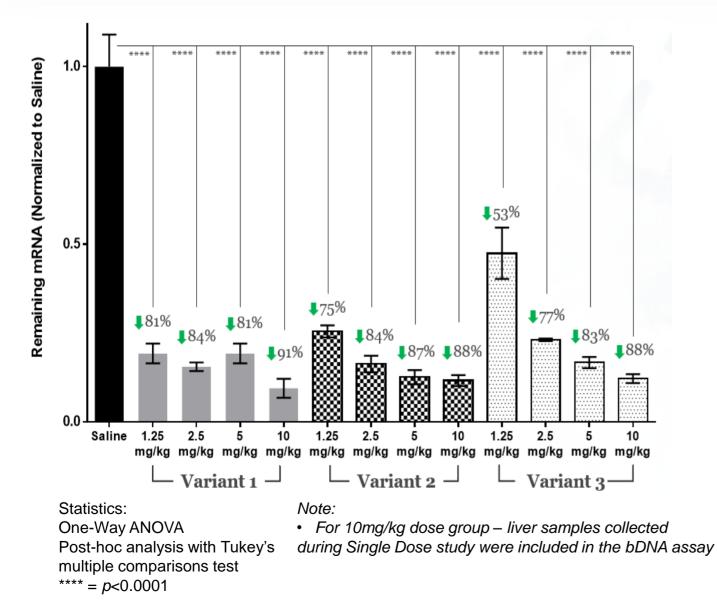
#### Readout:

TMPRSS6 mRNA

**One-Way ANOVA** Post-hoc analysis with Tukey's multiple comparisons test \*\*\*\* = *p*<0.0001



## mxRNA<sup>™</sup>: Outstanding in vivo activity (dose response)



#### **Study Design**

• 1, 2 & 3 configuration for

sequence 1

#### Doses:

- 1.25 mg/kg
- 2.5 mg/kg
- 5 mg/kg
- 10 mg/kg

N= 4 C57/BI6 mice/group

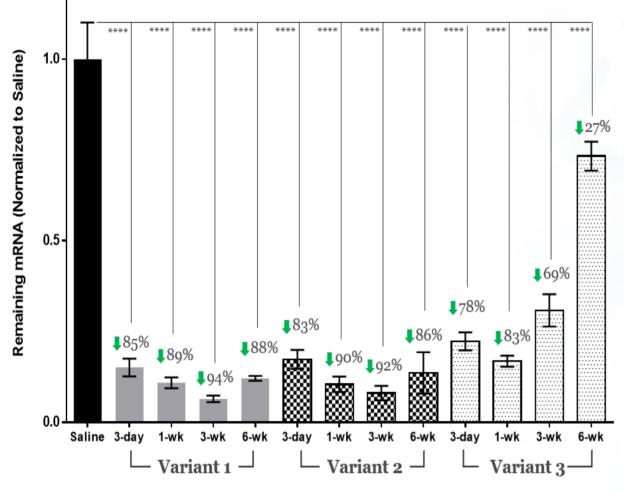
#### **Timepoints:**

- 5 day timepoint
- bDNA analysis: TMPRSS6 mRNA

from liver tissues



## mxRNA<sup>™</sup>: Outstanding in vivo activity (duration response)



### **Study Design**

 1, 2 & 3 configuration for sequence 1

#### Dose:

• 3mg/kg

N= 4 C57/BI6 mice/group

#### **Timepoints:**

- 3-day, 1-week, 3-week, 6-week
- bDNA analysis: TMPRSS6 mRNA from liver tissues

Statistics: One-Way ANOVA Post-hoc analysis with Tukey's multiple comparisons test \*\*\*\* = p < 0.0001



## mxRNA<sup>™</sup>: Summary

- Outstanding activity
- Relative ease of CMC
- Solid IP position (protection and FTO)

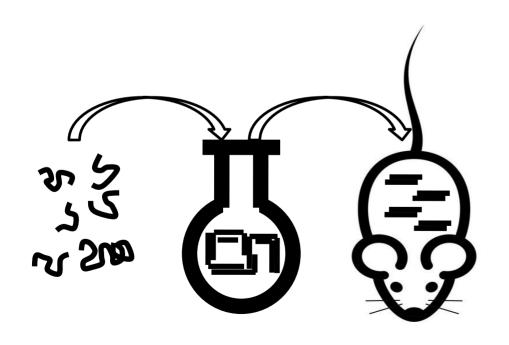


### muRNA<sup>™</sup>: Concept & principles

The muRNA technology uses the principle described by the German engineering term "SollBruchStelle" (SBS), meaning the "spot aimed to be broken". The muRNAs are assembled *in vitro* using Watson-Crick interaction between comprising oligonucleotide building blocks, but fall apart *in vivo* upon exposure to the extra- and/or intra-cellular biological fluids along the pre-designed SBS moieties to produce multiple potent RNAi triggers

### "Sollbruchstelle" (SBS) examples



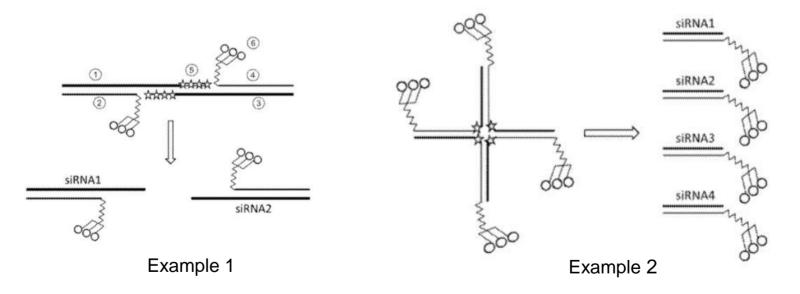






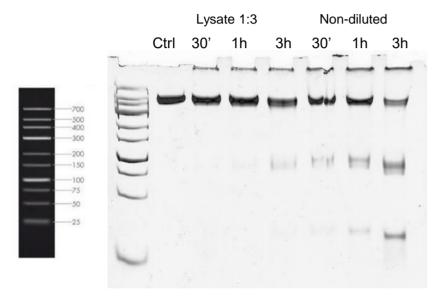
### muRNA<sup>™</sup>: Multi-targeting multi-unit RNAi triggers

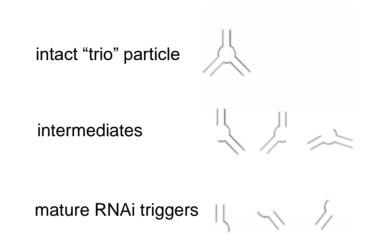
- Unconventional concept of multi-targeting single-molecule drug, enhanced with "sollbruchstelle" (SBS; the German engineering term meaning "spot-aimed-to-be-broken") component
- Single oligo of ~32 nt per target; *e.g.*, four ~32-mers assembled in one molecule to target four different targets
- Solid IP position: <u>PCT/IB2019/058221</u> (Sep 2019; priority Sep 2018)





## muRNA<sup>™</sup>: Tripartite muRNA disassembly in biological fluids



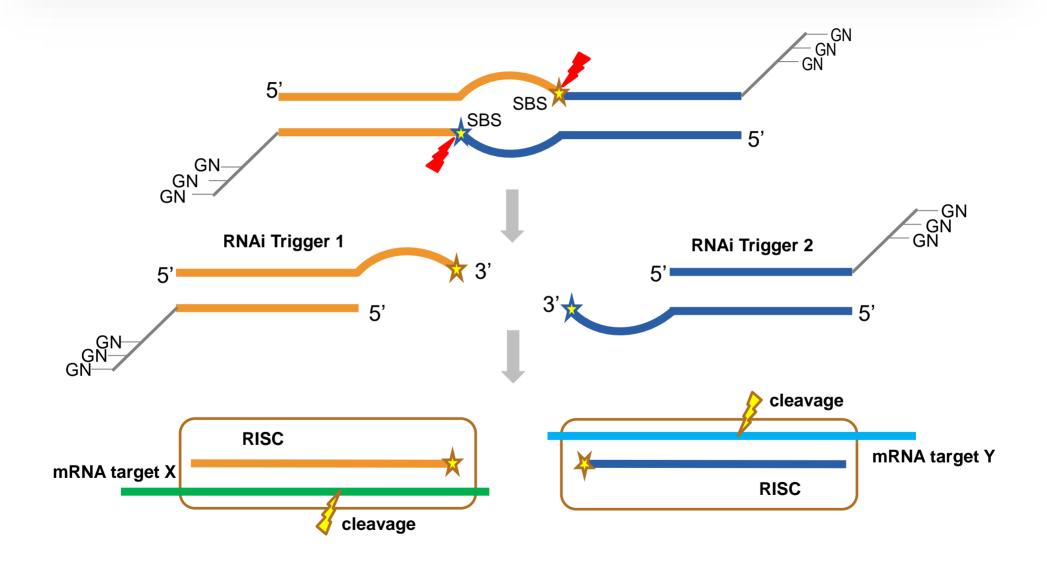


muRNAs: composed of 3 building blocks ("Trio") Incubation: in diluted (1:3) or non-diluted liver lysosomal extract for 0.5, 1.0 or 3.0 hours Gel: 20% non-denaturing PAAG, 1xTBE Size marker: DNA ladder VWR #732-3300 Stain: GelRed®, Biotium

Note: disassembly of the Trio occurs not into the original building blocks, but into the new structures

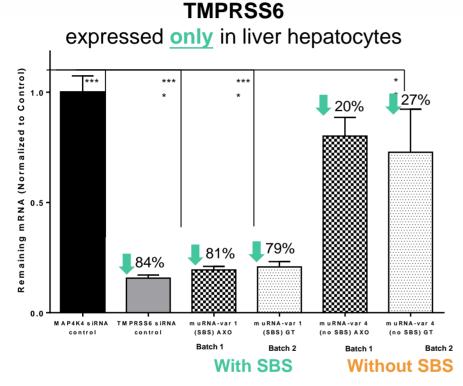


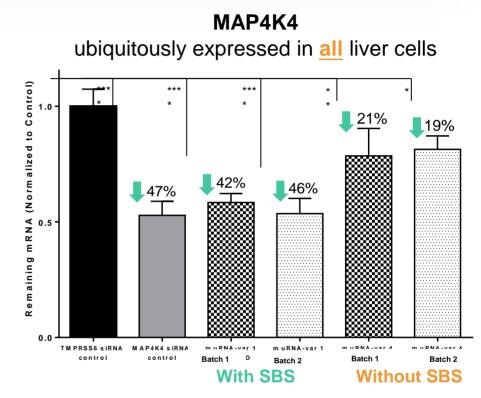
## muRNA<sup>™</sup>: Double targeting





## muRNA<sup>™</sup>: In vivo activity





#### Dose:

• 10 mg/kg

#### **Timepoint:**

• 5 days

Statistics: One-Way ANOVA Post-hoc analysis with Tukey's multiple comparisons test \*\*\*\* = p<0.0001



## muRNA<sup>™</sup>: Summary

- High activity
- Ability to knockdown 2+ targets with one molecule
- Relative ease of CMC
- Solid IP position (protection and FTO)



## GalAhead<sup>™</sup> therapeutic pipeline: June 2022

Drug	Target	Indication	Bioinformatics	Discovery	Candidate Nomination	IND Enabling	IND
STP122G	Factor XI	Anticoagulation/Thrombosis					
STP125G	АроСЗ	Hypertriglyceridemia					
STP144G	Complement Factor B	Complement-mediated diseases					
STP145G	Complement Factor C5	Complement-mediated diseases					
STP151G	TMPRSS6/ApoC3	Hemochromatosis with hypertriglyceridemia					
STP146G	Non-disclosed	Complement-mediated diseases					
STP133G	Non-disclosed	Cardiometabolic diseases					
STP138G	Non-disclosed	Hypercholesterolemia					

### We are planning to file our first GalAhead IND later this year, followed by several more in 2023



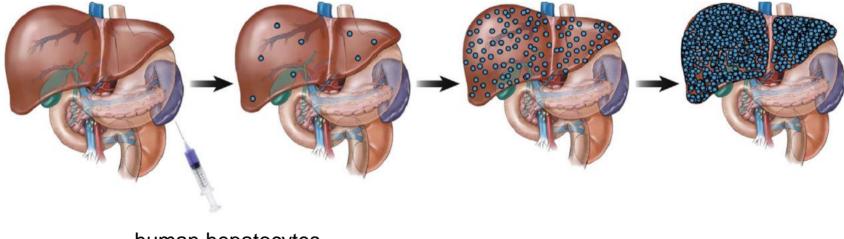
# STP125G (ApoC3)



## **STP125G: Humanized liver mouse model**

20% mouse 80% human

mouse liver

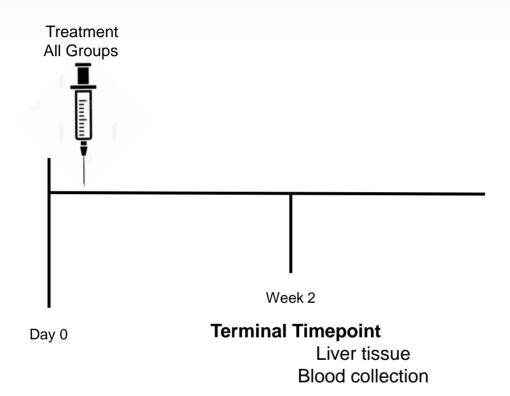


human hepatocytes

From M. Grompe and S. Strom (2013) Gastroenterology, 145:1209–1214



## STP125G: Humanized liver mice Dose study design





**Study Design** 

#### **Animal Model:**

Humanized liver mouse model

#### Test compounds:

• STP125G - A28(14-4)mF mxRNA

#### Dosing:

- 10 mg/kg
- 30 mg/kg

#### ROA:

Subcutaneous

#### N:

• 4 mice/group

#### **Terminal Endpoints:**

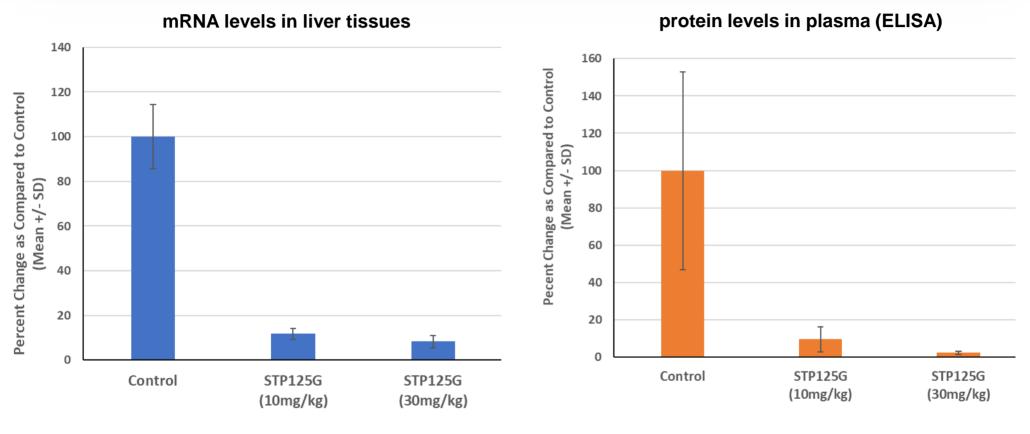
• 2 weeks

#### **Readouts:**

- qPCR (mRNA)
- ELISA (protein)
- Triglycerides



### STP125G: Target knock-down (2 weeks)



Dose Response:

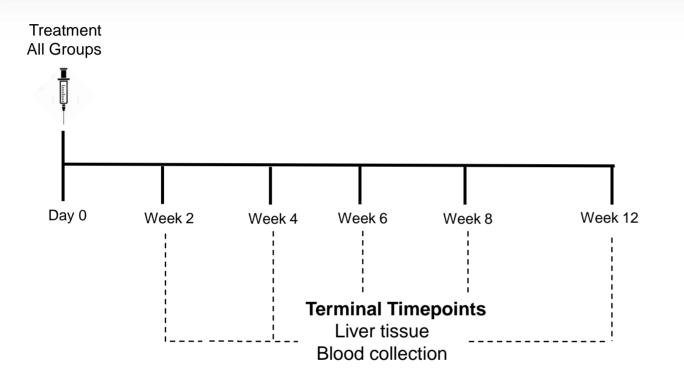
- 10mg/kg: 88% suppression
- 30mg/kg: 92% suppression

Dose Response:

- 10mg/kg: 91% reduction
- 30mg/kg: 98% reduction



## STP125G: Humanized liver mice Duration study design





**Study Design** 

#### Animal Model:

Humanized liver mouse model

#### Test compounds:

• STP125G - A28(14-4)mF mxRNA

#### Dosing:

• 10 mg/kg

#### ROA:

Subcutaneous

#### N:

• 4 mice/group

#### **Terminal Endpoints:**

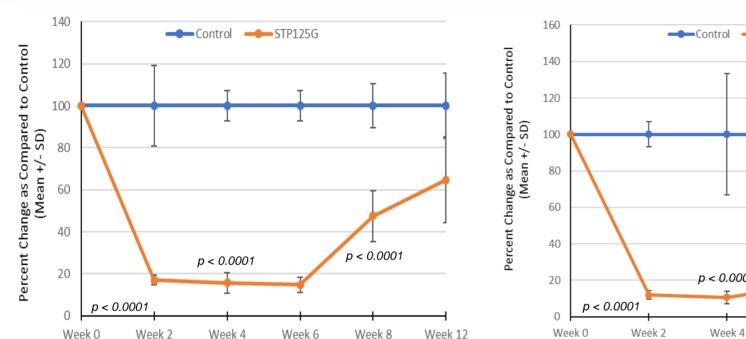
• 2, 4, 6, 8 and 10-weeks

#### **Readouts:**

- qPCR (mRNA)
- ELISA (protein)
- Triglycerides



## STP125G: APOC3 knockdown (Duration Response)



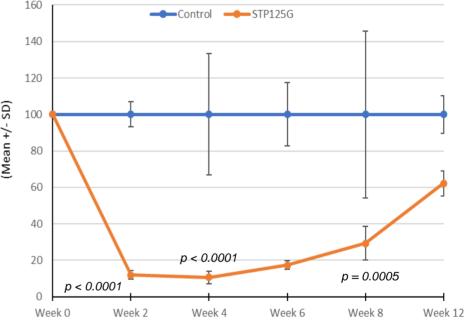
### mRNA levels in liver tissues

### **Duration Response:**

- 83-85% KD between weeks 2-6
- 48% return on baseline at week 8
- 35% KD at week 12

#### Note:

- 1. Outliers were removed from the mean (mice 17, 14 (4W) + 39 (8W) + 18 (12W))
- 2. Note: N=2 mice for week 6 (control & STP12G) and week 12 (control) timepoints



protein levels in plasma (ELISA)

### **Duration Response:**

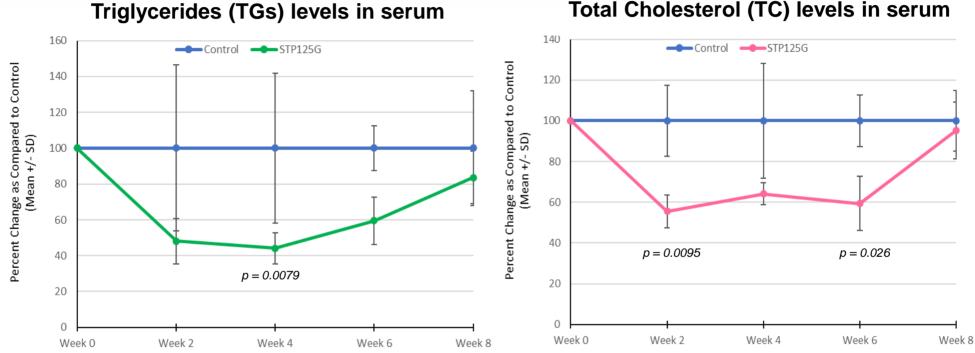
- 82-89% reduction between weeks 2-6
- 30% return on baseline at week 8
- 37% reduction at week 12

#### Note:

- 1. Outlier was removed from the mean (mouse 39 (8W))
- 2. Note: N=2 mice for week 6 (control & STP12G) and week 12 (control) timepoints



### **STP125G: Reduction in TGs and TC (Duration Response)**



### **Total Cholesterol (TC) levels in serum**

**Duration Response:** 

- 50% reductions observed at weeks 2-4 •
- Return to control levels by week 8 •

Note: N=2 mice for week 6 timepoint

**Duration Response:** 

- 40% reductions observed at weeks 2-6
- Return to control levels by week 8

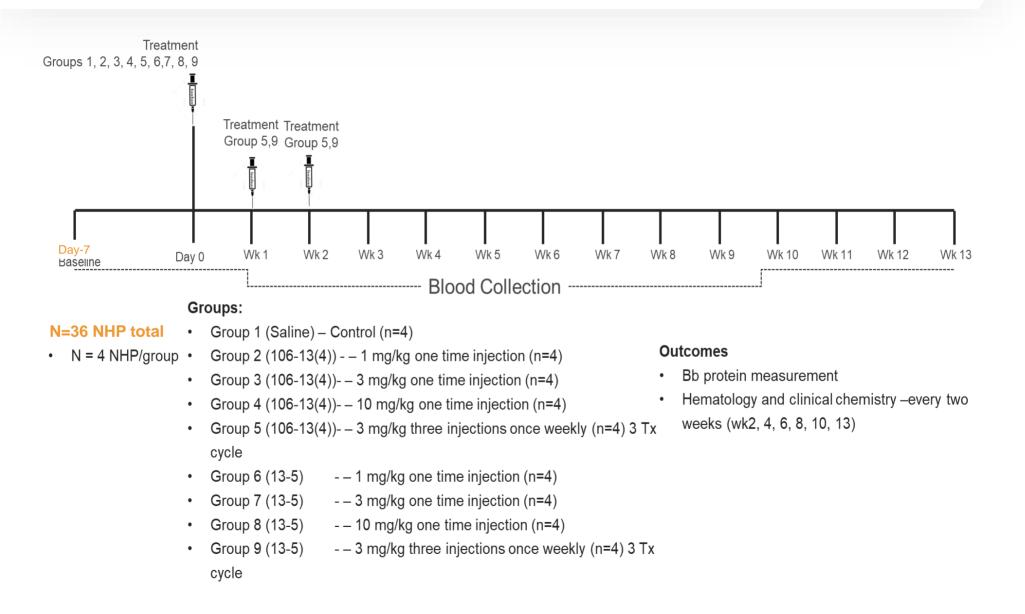
Note: N=2 mice for week 6 timepoint



## **STP144G (Complement Factor B)**

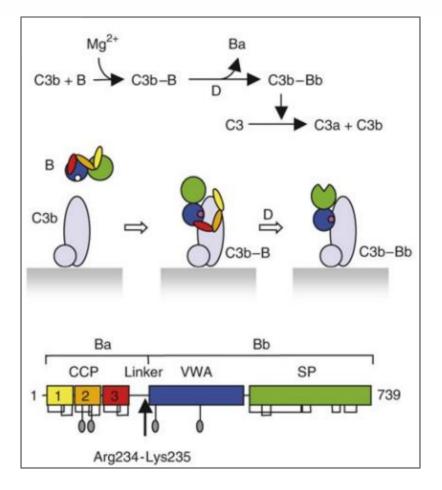


## STP144G: Non-human primates (NHP) study design





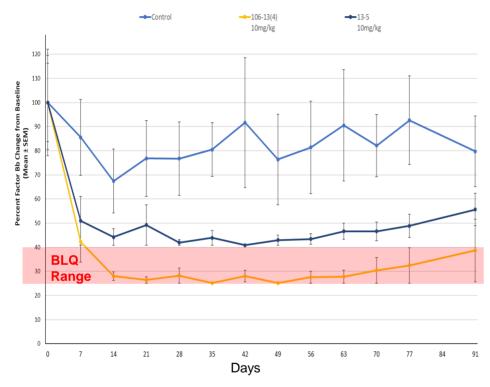
## STP144G: Bb assay background



From Midler FJ et al (2007) Nat Struct & Mol Biol (14) 224-8



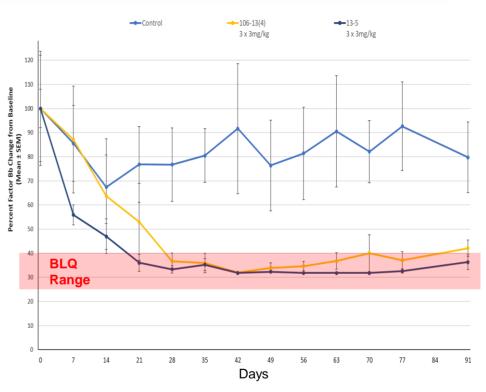
### STP144G: Bb levels with lead compounds in NHP



### Single Treatment Comparison

Max reduction of Factor Bb and duration of response

- 106-13(4)
  - Max suppression of 74% at week 5
  - >60% reduction from week 2 to week 13
  - Mean BLQ from week 2 to week 10
- 13-5
  - Max suppression of 59% at week 6
  - >50% reduction from week 2 to week 13
  - No Mean BLQ for any of the timepoints



Multiple Treatment Comparison

Max reduction of Factor Bb and duration of response

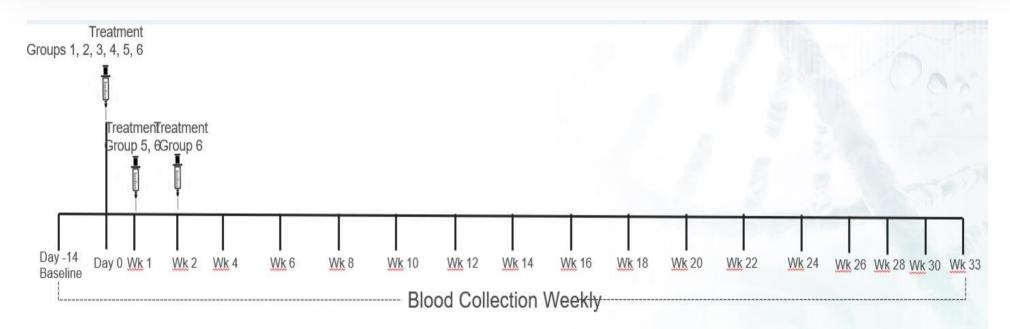
- 106-13(4)
  - Max suppression of 68% at week 6
  - >50% reduction from week 4 to week 13
  - Mean BLQ at week 6
- 13-5
  - Max suppression of 68% at week 6
  - >50% reduction from week 2 to week 13
  - Mean BLQ from week 6 to week 11



## **STP122G (Coagulation Factor XI)**



## STP122G: Non-human primates (NHP) study design



### N = 24 NHP total

### Groups:

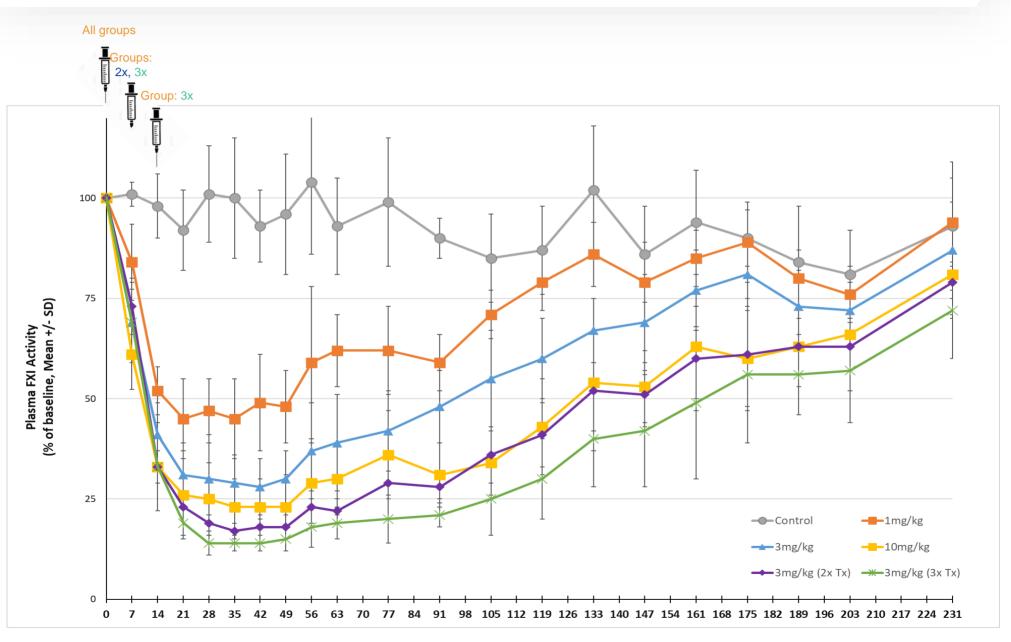
- N = 4 NHP/group
  - Group 1 (Saline) Control (n=4)
  - Group 2 (91-conv-31)- 1mg/kg one time injection (n=4)
  - Group 3 (91-conv-31)- 3 mg/kg one time injection (n=4)
  - Group 4 (91-conv-31)- 10 mg/kg one time injection (n=4)
  - Group 5 (91-conv-31)- 3 mg/kg weekly for two weeks (n=4) 2 Tx cycle
  - Group 6 (91-conv-31)- 3 mg/kg weekly for three weeks (n=4) 3 Tx cycle

#### Outcomes

- Primary endpoint: Factor XI plasma activity
- APTT (activated partial thromboplastin time), PT (prothrombin time)
- Hematology and clinical chemistry: baseline, Wk2, Wk6, Wk18



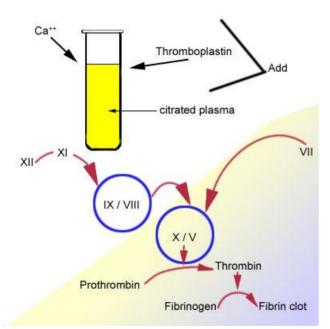
## STP122G (NHP): Primary activity readout (up to week 33)



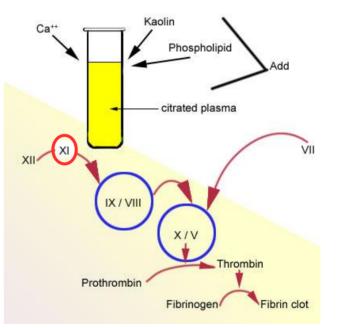


## STP122G: Secondary activity readout and pathway specificity

Extrinsic Pathway: Prothrombin time test (PT)



The prothrombin test specifically evaluates the activity of factors VII, V, and X, prothrombin, and fibrinogen Intrinsic Pathway: Activated Partial Thromboplastin Time test (APTT)



APTT measures the integrity of the intrinsic system (Factors XII, XI, VIII, IX) and common clotting pathways

From https://www.medicine.mcgill.ca/physio/vlab/bloodlab/pt\_ptt.htm



## STP122G: Secondary activity readout and pathway specificity

APTT PT 20 -Control -Control ---1 mg/kg ----1 mg/kg 📥 3 mg/kg Activated Partial Thromboplastin Time (Seconds; Mean ± SD) 15 Prothrombin (PT) (Seconds; Mean ± SD) lime 196 203 210 217 224 231 0 7 14 21 28 35 42 49 0 7 14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133 140 147 154 161 168 175 182 189 196 203 210 217 224 231 Dav Days

- Reductions in plasma FXI activity correlated well with elevation of APTT
- Dose dependent elevation of APTT

· No effect on PT values



## **STP122G (NHP): Safety readouts**

	Baseline (pre- treatment)			Week 2 (2 weeks post-treatment)			Week 6		Week 18			We	ek 26		Week 33			
	Control (Mean ±SD)	10mg/k g (Mean ±SD)	3mg/kg (3x) (Mean ±SD)	Control (Mean ±SD)	10mg/k g (Mean ±SD)	3mg/kg (3x) (Mean ±SD)	Control (Mean ±SD)	g	3mg/kg (3x) (Mean ±SD)	Control (Mean ±SD)	10mg/k g (Mean ±SD)	x 3mg/kg (3x) (Mean ±SD)	Control (Mean ±SD)	10mg/k g (Mean ±SD)	3mg/kg (3x) (Mean ±SD)	Control (Mean ±SD)	g	3mg/kg (3x) (Mean ±SD)
ALT (U/L)	47 ± 11	50 ± 19	66 ± 17	34 ± 6	44 ± 16	60 ± 8	37 ± 13	42 ± 16	53 ± 15	43 ± 19	43 ± 16	50 ± 20	46 ± 18	54 ± 22	65 ± 12	48 ± 28	44 ± 14	58 ± 10
AST (U/L)	47 ± 9	46 ± 6	66 ± 9	51 ± 12	48 ± 19	54 ± 10	49 ± 5	44 ± 3	54 ± 14	51 ± 5	59 ± 30	63 ± 9	50 ± 8	59 ± 25	67 ± 24	39 ± 6	39 ± 9	64 ± 14
ALP (U/L)	496 ± 150	603 ± 119	475 ± 111	526 ± 135	588 ± 74	473 ± 166	584 ± 151	627 ± 131	487 ± 166	581 ± 131	545 ± 45	591 ± 224	616 ± 140	623 ± 84	618 ± 170	616 ± 140	623 ± 84	618 ± 170
TBIL (umol/L)	3.6 ± 2.1	3.8 ± 1.3	4.2 ± 0.9	3.3 ± 0.4	3.6 ± 1	3.2 ± 1	3.3 ± 1.2	4.0 ± 1.6	3.8 ± 1.2	3.4 ± 1.2	3.4 ± 0.6	3.5 ± 2	4.3 ± 1.8	4.0 ± 0.8	4.2 ± 1.4	3.4 ± 1.5	4.2 ± 1.2	4.0 ± 1.1
Total Protein (g/L	<b>7</b> 4 ± 4	73 ± 4	76 ± 2	72 ± 2	72 ± 4	73 ± 3	76 ± 5	74 ± 1	75 ± 2	73 ± 4	71 ± 2	72 ± 3	75 ± 3	74 ± 2	76 ± 3	74 ± 4	74 ± 1	73 ± 2
Platelets (10x3/uL)	399 ± 146	374 ± 93	430 ± 66	393 ± 113	381 ± 97	490 ± 58	363 ± 79	380 ± 69	462 ± 100	376 ± 101	343 ± 79	450 ± 99	387 ± 126	357 ± 74	450 ± 120	373 ± 102	375 ± 90	466 ± 88
RBCs (10x6/uL)	5.6 ± 0.3	5.9 ± 0.3	5.7 ± 0.1	5.2 ± 0.4	5.5 ± 0.1	5.3 ± 0.4	5.4 ± 0.3	5.7 ± 0.3	5.3 ± 0.4	5.4 ± 0.3	5.6 ± 0.2	5.4 ± 0.1	5.5 ± 0.6	6.0 ± 0.2	5.9 ± 0.4	5.8 ± 0.3	6.0 ± 0.2	5.9 ± 0.3
WBC (10X3/uL)	14.5 ± 3.8	11.9 ± 6.3	11.1 ± 4.3	13.3 ± 2.2	11.4 ± 3.3	10 ± 4.6	12.9 ± 1.9	11.3 ± 3.6	12.8 ± 4.8	10.8 ± 2.8	9.4 ± 4.2	11.5 ± 3.5	12.1 ± 2.5	9.4 ± 4.2	12.0 ± 2.9	11.3 ± 6.5	10.7 ± 3.9	9.7 ± 3.9
LDH	702 ± 201	856 ± 436	1156 ± 462	1128 ± 466	458	527	811 ± 172	314	996 ± 242	1045 ± 436	1178 ± 545	1607 ± 479	1044 ± 419	1205 ± 567	1544 ± 480	560 ± 147	641 ± 361	911 ± 152
GLDH	21 ± 5	29 ± 18	36 ± 2	23 ± 2	25 ± 14	28 ± 11	25 ± 5	24 ± 14	28 ± 10	23 ± 1	21 ± 7	31 ± 9	24 ± 8	21 ± 10	37 ± 3	28 ± 6	25 ± 12	34 ± 5

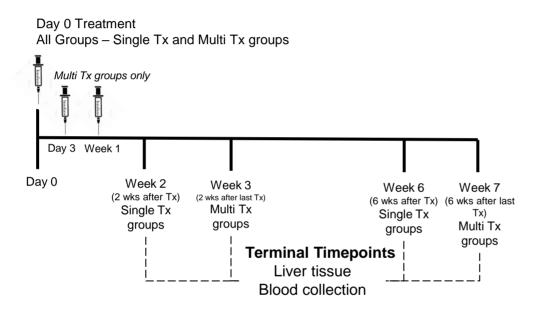
- Selected representative readouts for high dose groups
- No elevations of liver function enzymes post-treatments
- No changes in hematology parameters post-treatments



# STP151G (TMPRSS6/ApoC3)



### **APOC3-TMPRSS6: Humanized liver mice study design**





**Study Design** 

#### Animal Model:

- · Humanized liver mouse model
- WT Normal C57/BI6 mice

#### Test compounds:

• muRNA (APOC3-TMPRSS6)

#### Dosing:

- Single Tx: 10mg/kg, 25mg/kg, 50mg/kg
- Multi Tx (3x): 25mg/kg

#### ROA:

Subcutaneous

#### N:

• 4 mice/group

#### **Terminal Endpoints:**

- 2 weeks, 3 weeks
- 6 weeks, 7 weeks

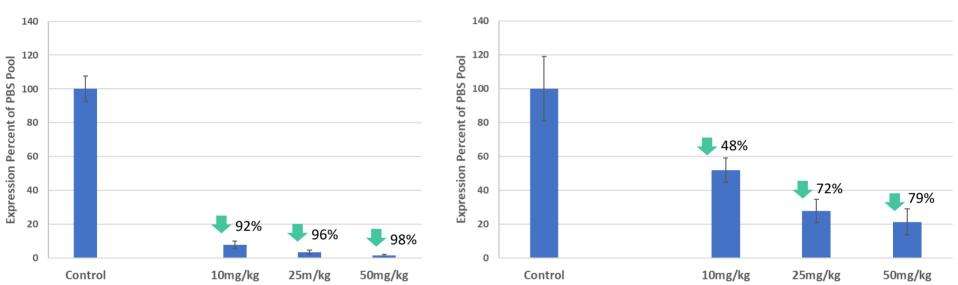
#### **Readouts:**

- qPCR (mRNA) APOC3, TMPRSS6
- ELISA (protein) APOC3



**TMPRSS6:** mRNA in Liver Tissues

### **Single Treatment: Week 2**



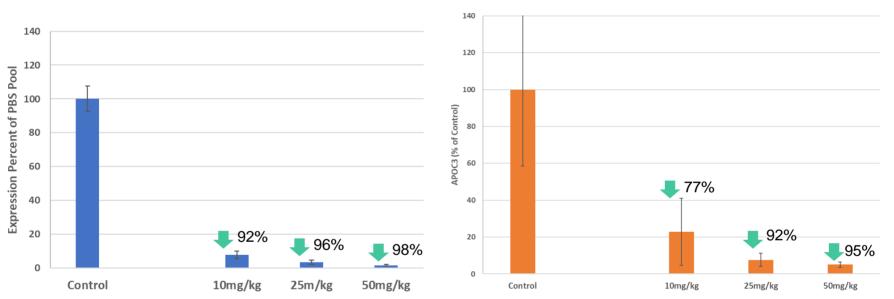
### APOC3: mRNA in Liver Tissues

Successful knockdown of TWO hepatocyte-specific targets

- APOC3 resulted in >90% KD at 25mg/kg
- TMPRSS6 resulted in >70% KD at 25mg/kg



### **Correlation: mRNA – Protein (Single treatment)**



### APOC3: mRNA in Liver Tissues

APOC3: Protein in Plasma

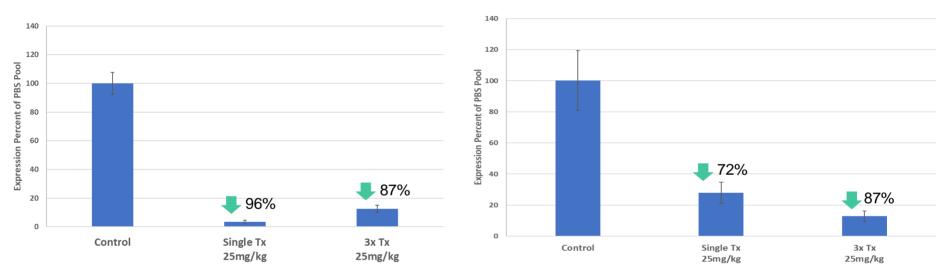
 $\int_{a} \frac{1}{a} \frac{1}{a}$  High Correlation between mRNA and Protein

KD of mRNA expression was correlated with lowering of protein levels in the plasma



**TMPRSS6:** mRNA in Liver Tissues

## Single vs Multi Treatments (week 2 after last dose)



### **APOC3:** mRNA in Liver Tissues

#### Comparable KD between single and multiple treatments •

**High Potency** 

Successful KD of two hepatocyte-specific targets with both single and multiple treatments



### GalAhead<sup>™</sup>: Sirnaomics' proprietary GalNAc-siRNA platform



GalAhead<sup>™</sup> technology incorporates multiple components

mxRNA<sup>™</sup>: miniaturized single-targeting RNAi triggers

muRNA<sup>™</sup>: multi-unit multi-targeting RNAi triggers

Note: pronounced as in Sir **Galahad**, a knight of the King Arthur's Round Table and one of only three achievers of the Holy Grail



## GalAhead<sup>™</sup> therapeutic pipeline: June 2022

Drug	Target	Indication	Bioinformatics	Discovery	Candidate Nomination	IND Enabling	IND
STP122G	Factor XI	Anticoagulation/Thrombosis					
STP125G	АроС3	Hypertriglyceridemia					
STP144G	Complement Factor B	Complement-mediated diseases					
STP145G	Complement Factor C5	Complement-mediated diseases					
STP151G	TMPRSS6/ApoC3	Hemochromatosis with hypertriglyceridemia					
STP146G	Non-disclosed	Complement-mediated diseases					
STP133G	Non-disclosed	Cardiometabolic diseases					
STP138G	Non-disclosed	Hypercholesterolemia					

### We are planning to file our first GalAhead IND later this year, followed by several more in 2023



# **Questions?**

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