

Driving scientific breakthroughs into powerful precision medicines for ALS and other neurodegenerative diseases

April 2025

Driving scientific breakthroughs into powerful precision medicines



Groundbreaking science

Next-gen precision medicines developed by **human disease models** pioneered by QurAlis founders

Targeting **RNA restoration** in validated genetic disease resulting from **mis-splicing targets** in neurodegeneration and beyond

Utilizing **biomarkers** for patient selection, target engagement, and efficacy



First & best-in-class programs

Multiple programs in the clinic with near-term data readouts

Three first-in-class programs for sporadic ALS **on novel genetic targets**

Proprietary FlexASO® platform can potential expand to additional RNA restoration therapies



World-class team to execute

Experienced executive team

UNC13A partnership with Lilly underscores value of FlexASO[®] platform

\$143.5M equity raised, in addition to Lilly partnership upfront

Advancing precision neuroscience pipeline across multiple clinical and preclinical programs

Program	MOA	Indication	Upcoming Milestone(s)	Discovery	IND- Enabling	Ph1 Safety / PoM ¹	Proof of Concept	Registration Studies	Partner
QRL-201	STMN2	ALS	ANQUR readout H1 2026						
QRL-101	Excitatory (Kv7)	ALS	Patient PoM ¹ study topline Q2/Q3 2025						
		Epilepsy	Proof of Concept initiation YE 2025						
QRL-203	STMN2	FTD (Non-tau)	IND 2026						
QRL-204	UNC13A	ALS / FTD	IND-enabling studies ongoing ²						Lilly
QRL-TBA	Undis.	Fragile X	DC ³ 2026						
QRL-TBA	Undis.	PSP	DC 2026						

1. PoM = Proof of Mechanism; 2. In partnership with Lilly, clinical plan is to be determined; 3. DC = development candidate nomination

QurAlis' expertise and technologies enable two distinct franchises

Pursuing treatment for CNS disorders with innovative biology and proven modalities

Ion Channel Recovery (small molecule)

- Neurological disorders often result from ion channel dysfunction
- Kv7.2/7.3 potassium channel is a drug target for >10 high unmet need indications, multiple indications with clinical validation, including:
 - >50% of ALS
 - Epilepsy
 - Pain
 - Mood disorders
- Highly selective Kv7.2/7.3 opener well positioned as potential best-in-class therapeutic:
 - High selectivity, lack of off-target engagement controls AE rates
 - Formulations optimized for different indications

RNA Restoration (antisense oligonucleotide ,"ASO")

- Potential to develop first-in-class and best-in-class medicines through FlexASO[®] platform
 - Active antisense oligonucleotide (ASO) candidates in Phase 1 (1x) and FIH-enabling studies (2x)
- Specifically addresses mis-splicing targets which underly biology of neurodegenerative diseases including:
 - TDP-43-opathies
 - Tau-opathies
 - Fragile X syndrome
- Multiple candidates generated to date with reproduceable path to IND and Proof of Concept (PoC)
 - Includes QRL-204 (UNC13A) program licensed to Eli Lilly

Pioneers with unrelenting commitment to patients



Kasper Roet, PhD CEO Co-founder



Johnson 4 Johnson



Emma Bowden, PhD Head of Development



Sangame

Thermo Fisher







Jason Brown.

MBA

CFO

PURETECH

GIVING LIFE TO SCIENCE

U NOVARTIS

Avecia

Girindus Solvay Organics

Hagen Cramer,

PhD

СТО









Retrophin

Therapeutics

VERTEX





CRITICAL

Fold_R

Pharma



MACROGENICS

AstraZeneca

Vikas Sharma.

PhD

CBO

MedImmune





Robin Wojcieszek, PharmD Head of **Regulatory Affairs** & Drug Safety

Lilly

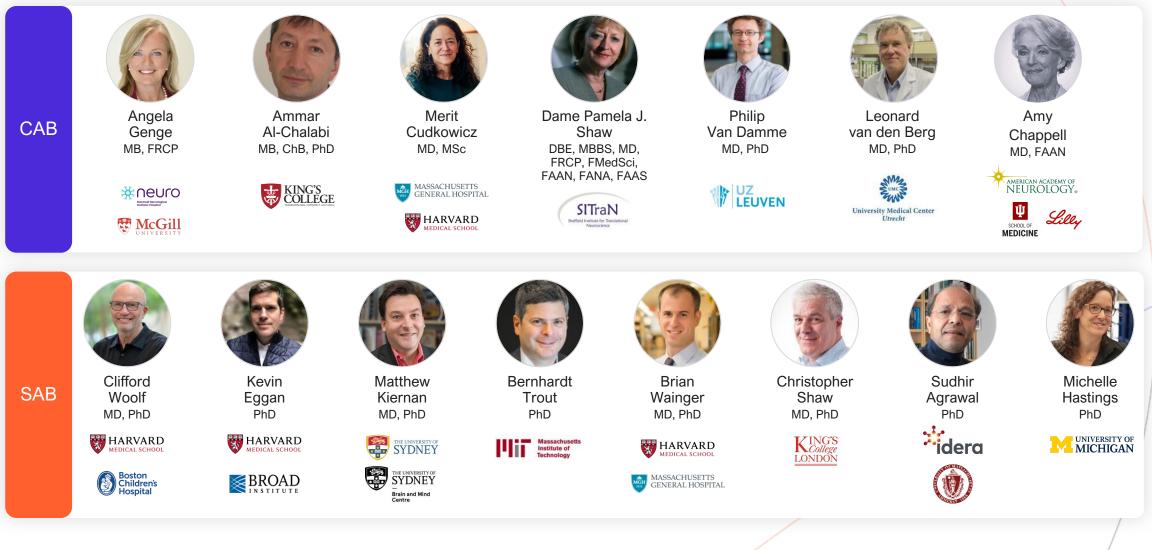
FibroGen

Pfizer

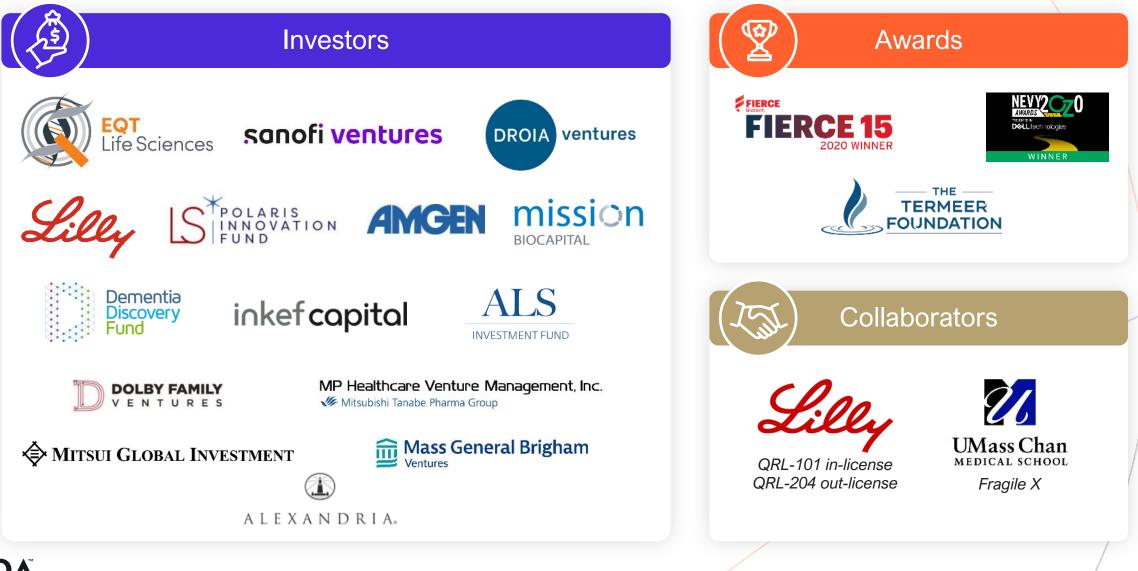
FDA

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Advised by leading clinicians and scientists in neurodegeneration field



Supported and recognized by investors, pharma, and industry



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lon Channel Recovery

STATE TORUGE SHARE

Ion channel dysfunction is implicated across wide range of CNS disorders

Kv7.2/3 channel openers have validation across variety of diseases

- GSK's ezogabine was studied in multiple indications including pain, seizure, and mood disorders and marketed for partialonset seizures before being withdrawn (2017) for undesirable side effect profile, limiting commercial potential
 - Ezogabine also demonstrated signal of disease modification in PoM trial in ALS¹, where hyperexcitability is a key characteristic in up to 40-70% of ALS patients
- Further validation of Kv7.2/3 has been demonstrated by XEN1101 and other clinical programs in epilepsy studies

- QurAlis is developing QRL-101, a highly selective Kv7.2/3 channel opener for ALS and epilepsy with Phase 2/PoC studies initiating by YE'25
 - High affinity to Kv7.2/3
 - Lack of affinity for GABA-A receptors and other Kv7 subtypes
 - Human target engagement observed in Phase 1 studies

¹Wainger BJ, Macklin EA, Vucic S, et al. JAMA Neurol. 2021;78(2):186–196. doi:10.1001/jamaneurol.2020.4300

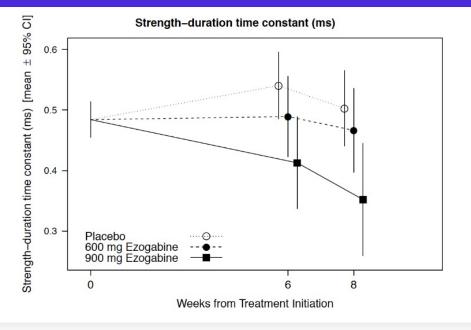
QRL-101

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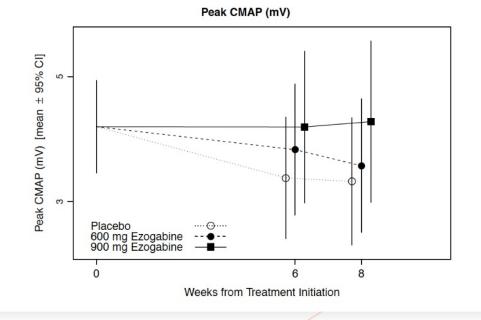
Kv7 is a clinically validated target in ALS

Ezogabine published trial results¹ (n= 65 patients) validated the importance of reducing hyperexcitability through Kv7

Statistically significant² dose-dependent effects on biomarkers that predict patient survival



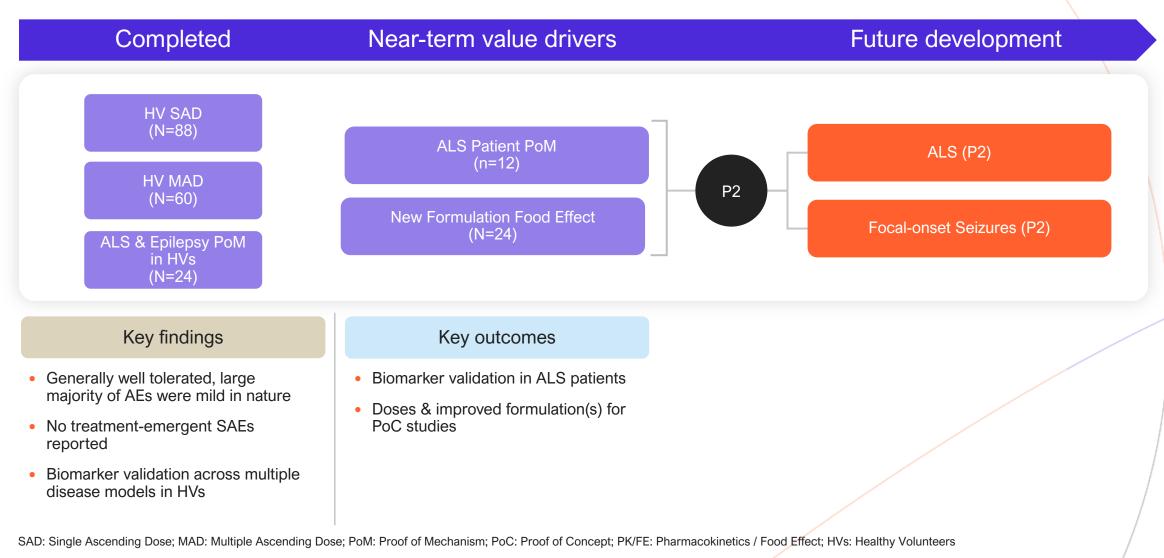
Statistically significant² impact on critical disease progression & efficacy biomarker (CMAP)



Nearly all (97%) participants in the trial reported at least one adverse event Most frequent adverse events among participants in the ezogabine arms were fatigue and dizziness

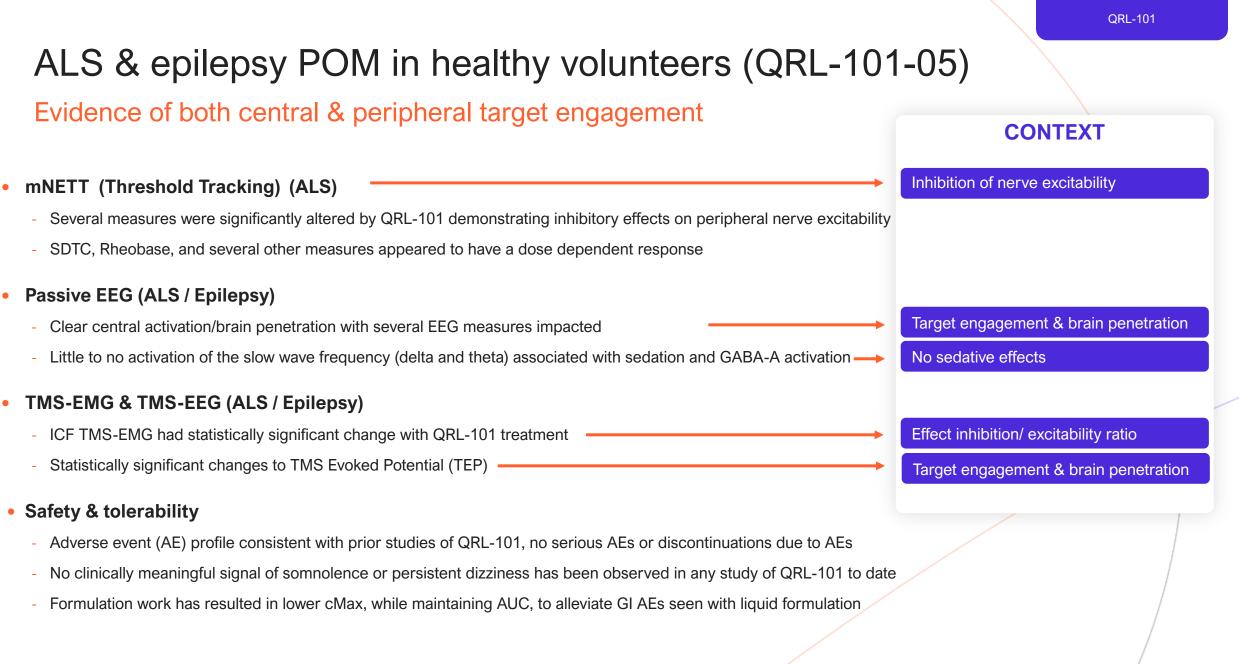
¹Wainger BJ, Macklin EA, Vucic S, et al. *JAMA Neurol.* 2021;78(2):186–196. doi:10.1001/jamaneurol.2020.4300 ²Error bars from JAMA paper represent standard deviations, results are statistically significant **QRL-101**

PoM studies for ALS and epilepsy to support dose selection for PoC trials



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QRL-101



Ongoing studies will further support and confirm dosing for PoC studies

ALS PoM design (NCT06714396)

- Single-dose placebo-controlled design at three ascending dose levels
- 12 patients (four per dose level)
- Safety and tolerability in ALS patients
- PK/PD assessment at each dose level

Disease-relevant biomarkers collected

- Endpoints associated with peripheral nerve excitability threshold tracking
- Includes strength-duration, recovery cycle, threshold electrotonus and current / voltage; all output measures shown to be disrupted in ALS
- ALS biomarkers also included in previously reported healthy volunteer PoM (QRL-101-05)

Formulation & food effect (NCT06877624)

- 24 healthy volunteers
- Open label study to compare PK of three different formulations of QRL-101 (liquid formulation, two extendedrelease formulations)
- Select final formulation & dose for PoC studies

Study design & goals

- Initial treatment period to compare PK exposures in fasted healthy volunteers
- Three way cross-over to compare food effect and relative fed exposures of all three formulations
- Goal to minimize cMax while maintaining AUC observed in previous liquid formulation studies, which demonstrated statistically significant effects on biomarkers predictive of efficacy in ALS and epilepsy

Topline data for both studies are expected Q2/Q3 2025

RNA Restoration: STMN-2 Programs

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STMN2-targeting ASO leads RNA restoration franchise

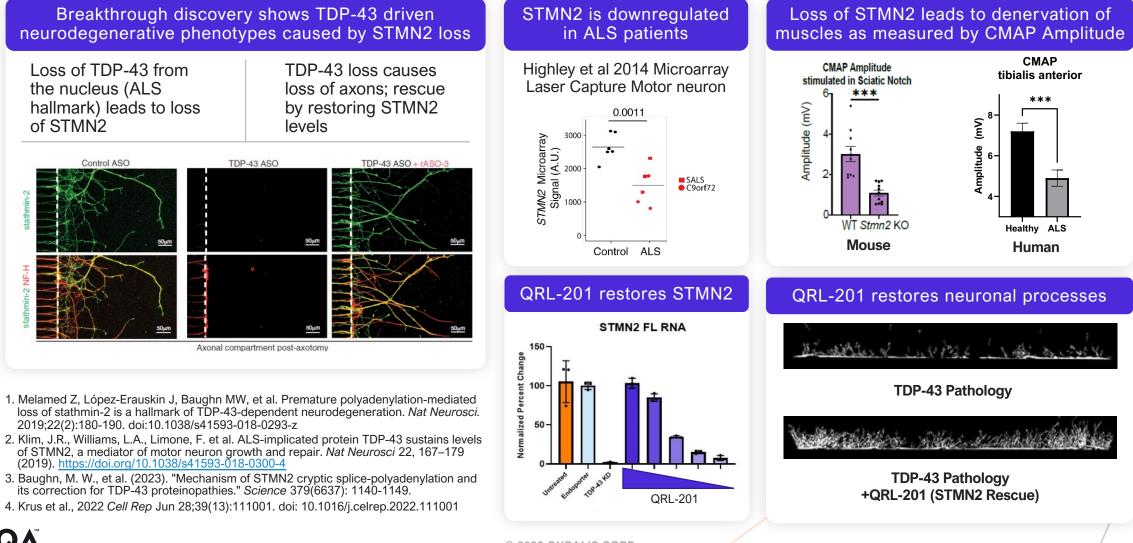
STMN2 is the most consistently downregulated gene in sporadic ALS patients

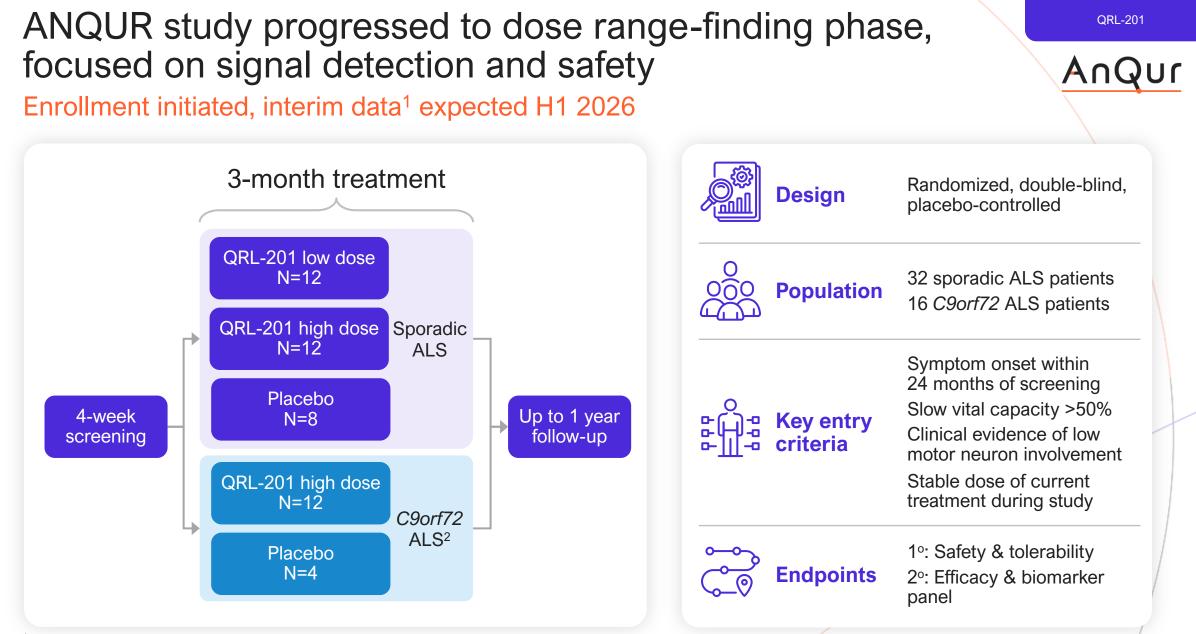
- Restoration of STMN2 pre-mRNA missplicing through ASO treatment restores neuronal processes, Golgi outposts, and protects neuronal activity in human motor neurons with TDP-43 pathology
- Genetic target in sporadic ALS (90% of patients) and FTD (50% of patients) as well as Alzheimer's Disease (~33% of patients)
- Two approved ASO therapies for motor neuron diseases (Spinraza[®] for SMA and Qalsody[®] for ALS) demonstrate that an ASO therapy strategy to restore STMN2 in ALS patients is technologically feasible

- QurAlis is developing QRL-201, a highly potent splice-switching ASO targeting STMN2
- MAD study (ANQUR) expanded to dose range-finding portion (at two dose levels) and ongoing with favorable safety and tolerability profile to date
- Multiple biomarkers under assessment to support future development strategy
- QurAlis retains full global rights; CoM patent through 2039 plus potential PTE, pending issuance

Restoration of STMN2 levels by ASO is a promising therapeutic strategy for the majority of ALS patients

QRL-201 restores full-length STMN2 and protects neurons from degeneration phenotypes





¹ Exact interim data cut to be finalized

² C9orf72 patients are a homogenous population with consistently decreased STMN2 levels

Combination of clinical readouts and extensive biomarker analysis to inform optimal registrational studies

Target engagement

• STMN2 levels

Mechanism of action (MOA)

- Motor excitability recordings (CMAP, M-Scan)
- Established NMJ innervation measurements (STMN2 MOA / efficacy)

Clinical measurements

- ALSFRS-R, ROADS, SVC, HHD
- Ventilation assistance-free survival
- Time-to-event measures

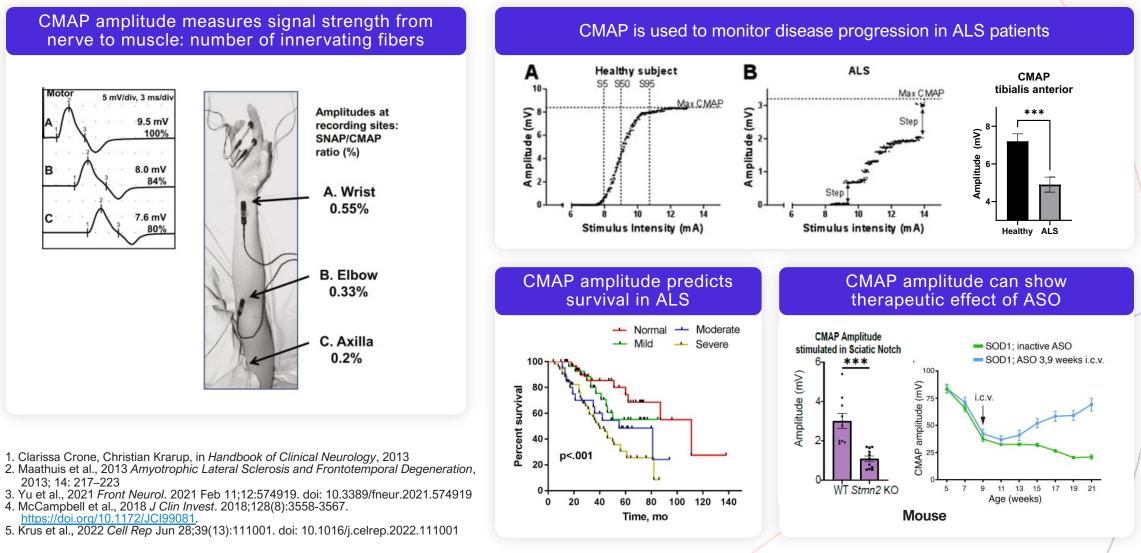
Biomarkers of neuronal loss

• NfL and other exploratory biomarkers

QRL-201

AnQur

CMAP is a powerful disease progression and efficacy biomarker that measures muscle innervation in ALS



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QRL-201

QRL-201 key take-aways



STMN2 is the most consistently observed mis-spliced protein in sporadic ALS leading to loss of function



Downregulation and loss of STMN2 alone in mice leads to loss of muscle innervation, motor neuron axonopathy and muscle atrophy, all hallmarks of ALS



QRL-201 restores STMN2 levels in human ALS motor neurons



Preliminary cohorts in the ANQUR study demonstrate that QRL-201 can be well tolerated in ALS patients at exposures far above the predicted minimally efficacious exposure



A dose rangefinding study for QRL-201 is currently active in six countries with biomarkers that can measure efficacy in ALS patients

ANQUR study interim efficacy marker & safety data expected H1 2026 Next Ph2 / Ph3 study is a potential registrational study

RNA Restoration: FlexASO[®] Platform

Flex ASO[®] is the leading splice-modulation platform to restore RNA

	prietary ASO splice-m nique backbone, provid traditional ASOs	FlexASO [®] demonstrates statistically significant increase in RNA restoration vs. parent		
Attributes	Flex ASO	Traditional ASO	Full length protein of interest	
Size	\checkmark	\checkmark	*	
Efficacy	\checkmark	\checkmark	150	
Safety	\checkmark	\checkmark		
CMC	\checkmark	\checkmark		
Distribution	\checkmark	Known for spinal cord and frontal cortex	⁵ 0 + + + + + + + + + + + + + + + + + + +	
otential to overco	me modality-specific, o	dose-limiting toxicities	nutre obchy, bs, bs, bs, bs, bs, bs,	

Genetic understanding of diseases and tech breakthroughs generate opportunity to develop RNA restoration therapies

Technological breakthroughs



Patient-derived human disease models increase probability of success



Technology to potentially support 2x / year dosing has been developed (e.g., FlexASO[®] tech.)



Technology to cross bloodbrain-barrier has matured (e.g., Transferrin receptor) Diseasemodifying RNA therapies

RNA restoration oligonucleotides targets

Diseases caused by mis-splicing (e.g., SMA, ALS, FTD, Fragile X, PSP) No.

RNA Restoration Platform

Diseases caused by haploinsufficiency (e.g., Dravet)

Previously undruggable targets for large indications



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Thank you

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