

Driving Scientific Breakthroughs into Powerful Precision Medicines Targeting Major Genetic Disease Drivers

September 2024

Driving Scientific Breakthroughs Into Powerful Precision Medicine



Groundbreaking Science

- Targeting validated major genetic disease drivers in neurodegeneration and beyond
- Next-gen precision medicines developed through relevant human disease models
- Utilizing biomarkers for patient selection, target engagement, and efficacy



- Two programs in the clinic; disease-relevant biomarker readouts in 2025
- Proprietary platform to enable additional therapies
- Most programs benefitting from Orphan Drug and Breakthrough designations



World-Class Team to Execute

- Supportive investor syndicate
- Raised \$143.5M to date from a strong set of investors, with \$88M oversubscribed Series B round in March '23
- Validation through partnership with Lilly substantiating our approach and platform

Genetic Validation of Targets Provides Unprecedented Opportunities

Therapeutic interventions for genetic targets for familial population have been validated

QurAlis is targeting TDP43-associated ALS using precisionmedicine approaches in sporadic population



Pioneers with Unrelenting Commitment to Patients



Kasper Roet, PhD CEO



Johnson & Johnson



Dan Elbaum, PhD CSO



Retrophin

Pfizer AMGEN

C R I T I C A L Therapeutics

VERTEX

Fold<mark>Ŗ</mark>



Vikas Sharma, PhD CBO

therapeutics

AstraZeneca ∭MedImmune

rexahn





Hagen Cramer, PhD CTO

Avecia

Girindus Solvay Organics







Emma Bowden, PhD Head of Clinical Development



Sangame





Doug Williamson,

MD

CMO

Lilly

parexel.

mdbeck



Jason Brown, MBA CFO



PURETECH GIVING LIFE TO SCIENCE[®]

U NOVARTIS

Q٨

4

Leading Splice Modulation Through Validated Proprietary FlexASOTM Platform

Flex ASO[™] is a proprietary anti-sense oligonucleotide splice modulator platform that incorporates a unique backbone, providing advantages over traditional ASOs

ATTRIBUTES	FLEX ASO	TRADITIONAL ASO	
Size	No. Contraction of the second s		
Efficacy		A CONTRACT OF	
Safety	in the second	in the second	
CMC	in the second	in the second	
Distribution		Known for spinal cord and frontal cortex	
Potential to overcome modality-specific, dose-limiting toxicities			



QurAlis

QurAlis Grants Lilly Exclusive Global License for QRL-204, a Potentially First-in-Class Precision Therapy That Restores UNC13A Function in ALS and FTD

QRL-204 is a splice-switching ASO generated through QurAlis' FlexASO™ Platform; represents Lilly's first program targeting UNC13A in ALS and FTD

Parties to also collaborate to leverage QurAlis' ALS and ASO development expertise to advance QRL-204 and next-generation compounds

UNC13A is an essential regulator of neurotransmitter release at synapses; mis-splicing is a critical RNA alteration occurring in up to 63 percent of all ALS patients and up to one-third of all FTD cases

CAMBRIDGE, Mass., June 3, 2024 – QurAlis Corporation ("QurAlis") today announced that it has entered into an exclusive license agreement with Eli Lilly and Company ("Lilly") in which QurAlis is granting Lilly global rights to develop and commercialize QRL-204, a potentially best-in-class splice-switching antisense oligonucleotide (ASO) designed to restore UNC13A function in amyotrophic lateral sclerosis (ALS), frontotemporal dementia (FTD), and other neurodegenerative diseases.

Under the terms of the agreement, QurAlis granted Lilly an exclusive, worldwide license to develop and commercialize QRL-204 and other UNC13A-targeting compounds in exchange for an upfront payment of \$45 million to QurAlis, plus an additional equity investment. QurAlis is also eligible for future milestone payments of up to \$577 million and tiered royalties on net sales.

Pipeline Targeting Major Genetic Disease Drivers in Neurodegeneration

TARGETING MAJOR DISEASE DRIVERS IN PATIENTS PROGRAM MOA INDICATION PRECLINICAL CLINICAL PARTNER **DISEASE MECHANISM** MODALITY ALS Kv7.2/3 Splicing/ Small QRL - 101 Excitotoxicity Molecule Epilepsy ALS QRL - 201 STMN2 ASO Splicing QRL - 203 FTD (non-Tau) ASO QRL - 204 Splicing UNC13A ALS/ FTD **DISCOVERY PROGRAMS** QRI – TBA Fragile-X Splicing ASO Undisclosed QRL – TBA PSP

- Disease modifying first-in-class programs for five high profile rare disease genetic splicing targets
- Portfolio expansion beyond ALS, to other rare and large indications creating additional growth opportunities
- FlexASO[™] platform, validated by Lilly, provides unique opportunities for splice modulation targets

Supported and Recognized by Investors, Pharma, and Industry



QRL-101 Excitotoxicity Program

- DID TORUGE ANY ANY

Candidate	Potential best-in-class Kv7 opener
Function/MOA	Reduction of hyperexcitability through K+ channels
Patient Selection	Excitability biomarker (>50% of ALS patients)
Indications	Disease modification of sporadic ALS subgroup; treatment of seizure disorders
Development & Status	Single ascending dose (SAD) studies completed in healthy volunteers
Rights	QurAlis retains global rights

Kv7 is a Clinically Validated Target in ALS

EFFICACY: CLINICAL BENEFITS OBSERVED

Retigabine trial in 65 patients showed Kv7 opener can lead to clinical benefits



Significant dose-dependent effects on biomarkers predicting patient survival were observed, with a notable correlation between the effect size on the excitability and the efficacy biomarker CMAP

RETIGABINE UNFAVORABLE AE PROFILE: 97% PARTICIPANTS REPORTED AT LEAST ONE ADVERSE EVENT

- Fatigue, dizziness and somnolence were major adverse events
- Retigabine caused blue discoloration of eyes and skin
- Retigabine interacts with the GABAa receptor
- Lack of selectivity for many Kv7 family members

DOSE-DEPENDENT EFFECT ON EXCITABILITY BIOMARKER AND EFFICACY BIOMARKER CMAP THAT PREDICT PATIENT SURVIVAL

A MORE SELECTIVE KV7.2/7.3 OPENER IS NEEDED TO DECREASE AE RATES

QURALIS' THERAPEUTIC STRATEGY: QRL-101 IS MORE POTENT & SELECTIVE THAN PREVIOUSLY MARKETED RETIGABINE



10

Current Clinical Development Update

OVERVIEW	 QRL-101-01 completed a randomized, double-blind, placebo-controlled SAD, Phase 1 study to assess the safety, tolerability, and pharmacokinetics (PK) of QRL-101 in healthy participants This study informs the subsequent multiple ascending dose (MAD) study 	
OBJECTIVES	 Primary: To determine the safety and tolerability of QRL-101 after multiple oral doses in healthy participants Secondary: To determine the PK profile of QRL-101 after multiple oral doses in healthy participants 	
DESIGN	Study design includes five dose escalation cohorts	
ENDPOINTS	 Safety (AEs, SAEs) PK: AUC₀₋₂₄; C_{max}; T_{max} 	

No SAEs reported in healthy subjects treated in the SAD studies (N>90)

Comprehensive Biomarkers and Phenotypic Assessments to Measure Activity



Biomarkers of Neuronal Loss

 NfL and other exploratory biomarkers



Clinical Measurements

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

QRL-101: A Potent and Validated Therapeutic in Development for ALS Patients and Hyperexcitability

A best-in-class precision therapy to treat hyperexcitabilityinduced diseases

Kv7.2/7.3 is a clinically validated target – including in seizure disorders and 50% of ALS

Multiple clinical studies ongoing – PoM data available in 2025

Large market opportunity



QRL-201 STMN2 ALS Program

Candidate	First-in-class ASO against STMN2 pathology
Function/MOA	Restoration of protein activity
Patient Selection	STMN2 biomarker (90% of ALS patients*)
Indications	Disease modification of sporadic ALS subgroup
Development & Status	Clinical trials ongoing in patients
Commercial & Regulatory Advantage	Precision-medicine approach Increases probability of success
Rights	QurAlis retains global rights
*Majority of ALS and FTD patients and 30-50% of AD	natients

STMN2 Levels are Consistently Decreased in Sporadic ALS Patients



16

QURALIS - COPYRIGHT

Comprehensive Biomarkers and Phenotypic Assessments to Measure Activity



QRL-201 Protects Human Motor Neurons Against Neurodegeneration

First-in-class therapy to treat ~90% of ALS & ~50% FTD patients

Potent restoration of STMN2 function and TDP-43 neurodegenerative phenotypes

Target engagement and patient selection biomarker program

Genetic target for sporadic ALS and FTD with additional opportunities in AD and PD



Next-Gen Precision Medicine

Approaches utilizing biomarkers for patient selection, target engagement, and efficacy First- & Best-in-Class Programs

- Two programs in the clinic
- Biomarker readouts
 in 2025

Proprietary Platform/Broad Application

明明

Novel FlexASO[™] platform for splice modulator targets

Hyperexcitabilityrelated diseases Value Creation

- Expanding into additional indications
- Opportunity for accelerated regulatory path

Thank You

For more information contact: Kasper Roet kasper.roet@quralis.com