Investor Presentation

September 2021

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Game-Changing Approach Focused Upstream

Disruptive MOA	 Atuzaginstat is a proprietary, oral, small molecule with an MOA upstream of neurodegeneration Gingipain inhibitor to address the hypothesis that <i>P. gingivalis</i> infection is a causative agent for AD Completely novel class and unprecedented approach
Lead Asset in Pivotal P2/3 with Data in 2021	 GAIN is fully enrolled (N=643) global pivotal Phase 2/3 clinical trial of atuzaginstat for Alzheimer's disease Topline results from GAIN Trial expected by mid-November 2021 Topline results from REPAIR Phase 2 periodontal disease sub-study of 233 GAIN patients expected by mid-November 2021
Expanding Evidence Base	 Expanding evidence base with animal causation and human clinical studies Data supports expansion into other indications First patient planned for Phase 2 PEAK study in Parkinson's in Q1 2022
Growing Pipeline	 COR588 is a lysine gingipain inhibitor that began Phase 1 study in Q3 2021 Lead arginine gingipain inhibitors, COR788 and COR822, have been selected Lead 3CLpro inhibitors, COR803 and COR817, for coronavirus treatment have been selected
Strong Capital Position	 \$153.5M in cash, equivalents, and short-term investments (as of June 30, 2021) Fully funded through 2023 to advance through multiple clinical and regulatory milestones

Expanding Pipeline

Molecule	Torgot	Indication	Development Stage			Antipingtod Milestones	
woiecule	Target	Indication	Pre-clinical	Phase 1	Phase 2	Phase 3	Anticipated Milestones
	Lysine gingipain inhibitor	Alzheimer's disease					Pivotal P2/3 GAIN trial results by mid- November 2021
Atuzaginstat (COR388)	Lysine gingipain inhibitor	Periodontal disease					Phase 2 REPAIR sub-study results by mid- November 2021
	Lysine gingipain inhibitor	Parkinson's disease					Phase 2 PEAK trial first patient in Q1 2022
COR588	Lysine gingipain inhibitor	Periodontal and other <i>P. gingivalis</i> driven disease					Phase 1 trial initiated September 2021
COR788/ COR822	Arginine gingipain inhibitor	Undisclosed					
COR803/ COR817	CL3 Protease inhibitor	COVID-19 and other coronaviruses					
Undisclosed	Undisclosed	Undisclosed					

Amyloid-β peptide protects against microbial infection in mouse and worm models of Alzheimer's disease

Deepak Kumar, *Se Hoon Choi, *Kevin J. Washicosky, *William A. Eimer, Stephanie Tucker, Jessica Ghofrani, Aaron Lefkowitz, Gawain McColl, Lee E. Goldstein, Rudolph E. Tanzi, Robert D. Moir

Alzheimer's Amyloid-b is an antimicrobial peptide: a review of the evidence

Gosztyla, M.G., Brothers, H.M., Robinson, S.R. (2018). Journal of Alzheimer's Disease, 64(4), 1495- 1506.

The Alzheimer's Disease-Associated Amyloid β -Protein Is an Antimicrobial Peptide

Stephanie J. Soscia, James E. Kirby, Kevin J. Washicosky, Stephanie M. Tucker, Martin Ingelsson, Bradley Hyman, Mark A. Burton, Lee E. Goldstein, Scott Duong, Rudolph E. Tanzi, Robert D. Moir

Antimicrobial Properties of Amyloid Peptides

Bruce L. Kagan, Hyunbum Jang, Ricardo Capone, Fernando Teran Arce, Srinivasan Ramachandran, Ratnesh Lal, and Ruth Nussinov

The New York Times

"Could Alzheimer's Stem From Infections? It makes sense, experts say"

Periodontal Disease and Incident Dementia: The Atherosclerosis Risk in Communities Study (ARIC)

Ryan T. Demmer, Faye L. Norby, Kamakshi Lakshminarayan, Keenan A. Walker, James S. Pankow, Aaron R. Folsom, Thomas Mosley, Jim Beck, Pamela L. Lutsey

Tooth loss, dementia and neuropathology in the Nun Study

Pamela Sparks Stein, DMD; Mark Desrosiers, PhD; Sara Jean Donegan, SSND, DDS; Juan F. Yepes, DDS, MD, MPH; Richard J. Kryscio, PhD

Periodontal disease associates with higher brain amyloid load in normal elderly

Angela R. Kamer, Elizabeth Pirraglia, Wai Tsui, Henry Rusinek, Shankar Vallabhajosula, Lisa Mosconi, Li Yi, Pauline McHugh, Ronald G. Craig, Spencer

Tooth loss and Periodontal Disease Predict Poor Cognitive Function in Older Men

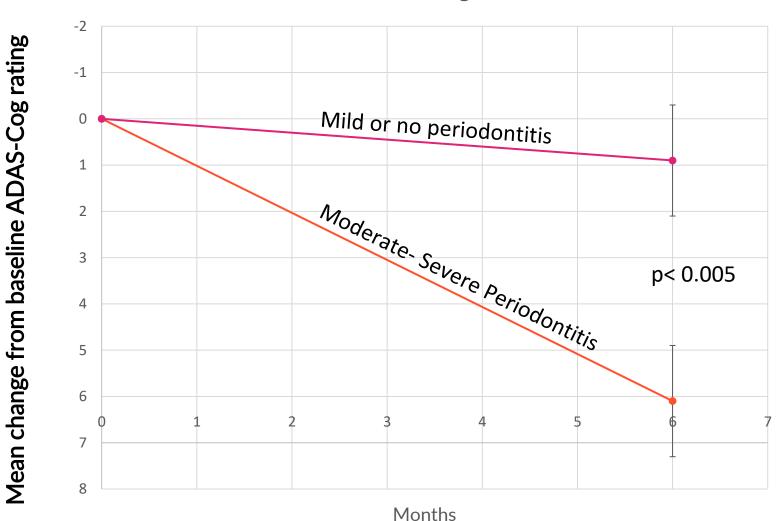
Elizabeth Krall Kaye, PhD, Aileen Valencia, BS, Nivine Baba, MA, Avron Spiro, III, PhD, Thomas Dietrich, DMD, and Raul I. Garcia, DMD

Serum antibodies to periodontal pathogens are a risk factor for Alzheimer's disease

Pamela Sparks Stein, Michelle J. Steffen, Charles Smith, Gregory Jicha, Jeffrey L. Ebersole, Erin Abner, and Dolph Dawson III

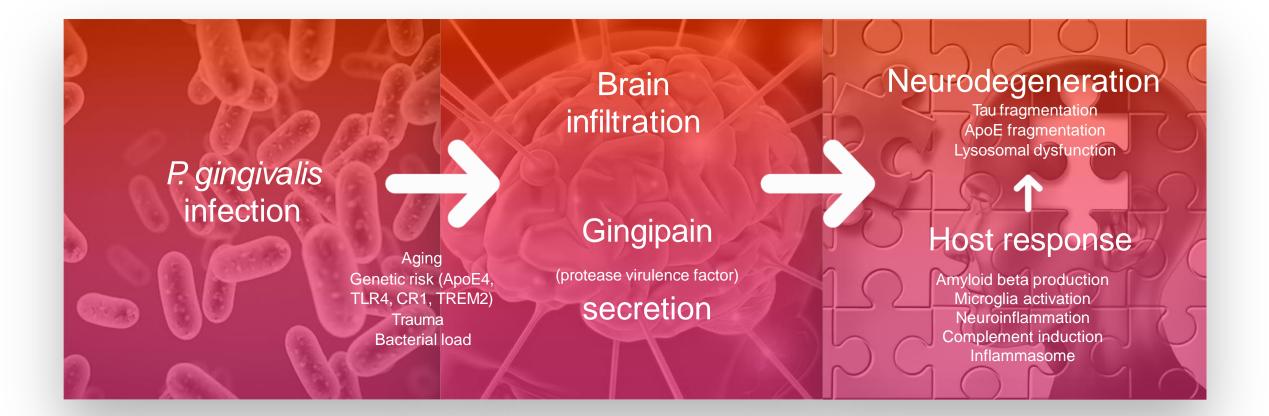
Active periodontal disease is associated with rapid decline in Alzheimer's patients

Ide M, et al (2016) Periodontitis and Cognitive Decline in Alzheimer's Disease. PLoS ONE 11(3)



ADAS-Cog

Evidence Shows *P. gingivalis* is a Key Driver of Alzheimer's Disease



Today

Evidence & Support for Gingipain Hypothesis Gaining Momentum

Clinical studies support role of *P. gingivalis* in AD

Mouse studies show P. gingivalis causes AD pathology

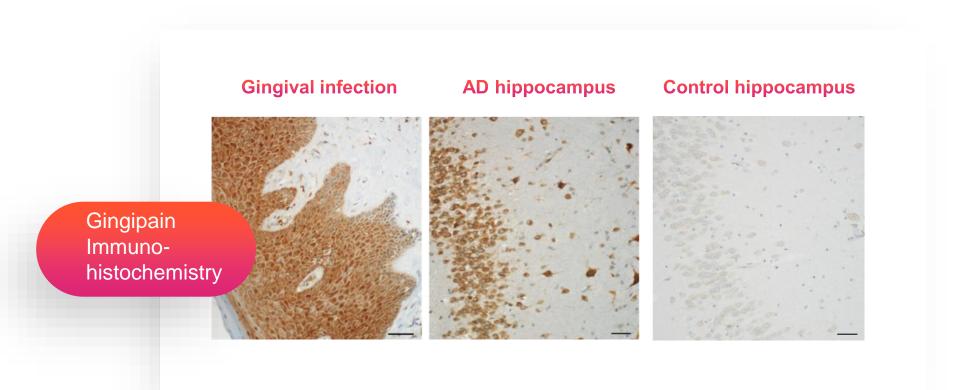
Discovery of *P. gingivalis* bacteria in human brain

A beta discovered as an antimicrobial peptide

Epidemiological studies: periodontitis is a risk factor for AD

2007

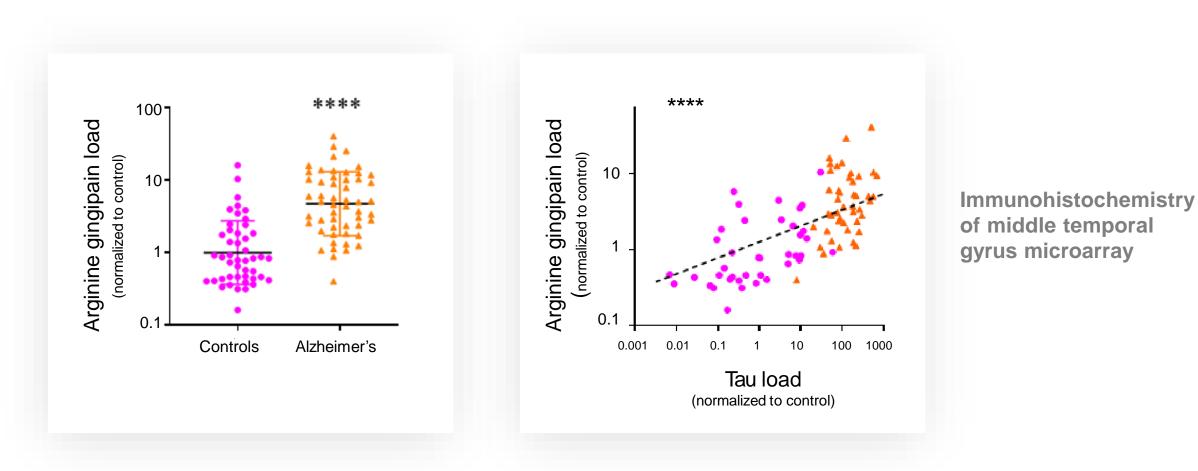
Seminal Discovery: *P. gingivalis* Found in Brains of >90% of AD Patients



P. gingivalis DNA also confirmed through sequencing of multiple genes in Alzheimer's brain tissue

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Higher Gingipain Load is Associated with Symptoms and Correlates to Pathology

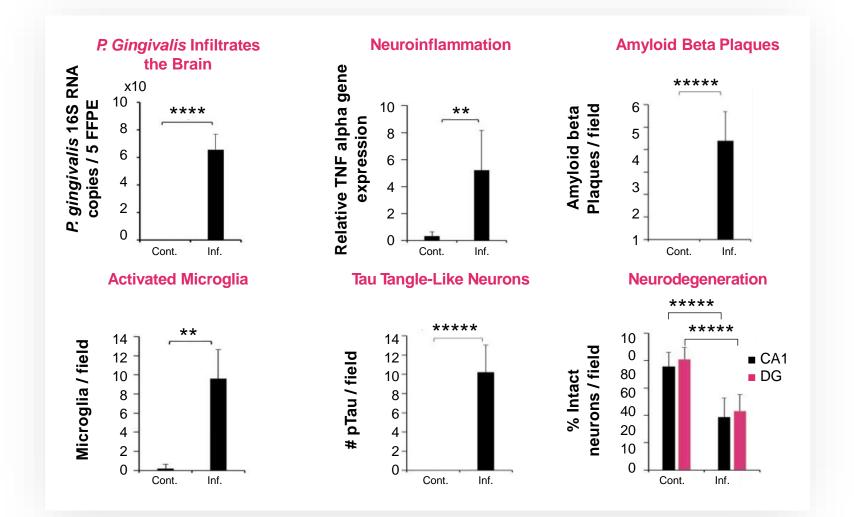


CORTEXYME

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Evidence of Causation: Oral Pg Infection Induces AD Pathology in Mice

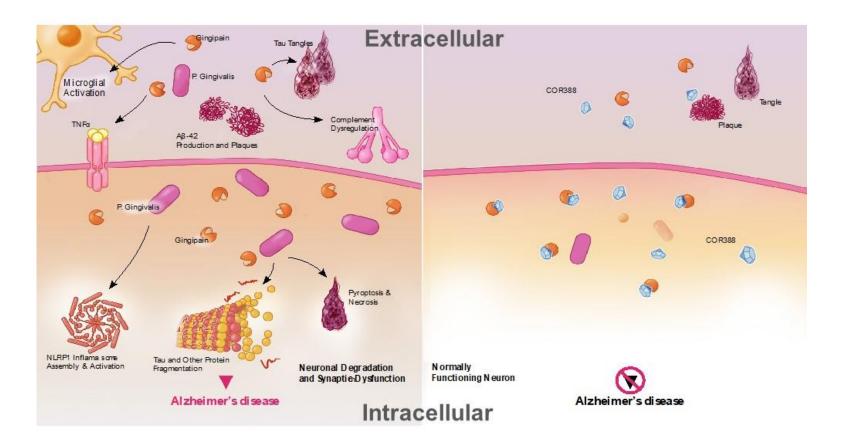
Brain pathology at 22 weeks post oral infection of wild type mouse with P. gingivalis



*p<0.05,**p<0.01, ***p<0.001, ****p<0.001, ****p<0.001

Source: Adapted from Ilievski, et al. Chronic oral application of a periodontal pathogen results in brain inflammation, neurodegeneration and amyloid beta production in wild type mice PLOS: One 2018

Virulence Factor Inhibition (COR388) Blocks Downstream CORTEXYME Damage, Reduces Bacterial Load, and Normalizes Immune Function



- 1. Tau is fragmented and aggregated in the AD brain and by Pg.
- 2. **ApoE** is fragmented in the AD brain and by gingipains.
- **3. Abeta** is overproduced in the AD brain and triggered by Pg infection in WT mice.
- 4. Microglia are activated in the AD brain and by Pg.
- 5. Inflammasomes are activated in the AD brain and by Pg.
- 6. **Complement** is dysregulated in the AD brain and by gingipains.
- 7. Neurodegeneration is evident in the AD brain and caused by Pg gingipains in physiological models

Atuzaginstat (COR388) First-in-Class Gingipain Inhibitor

- Gingipains are proteases secreted by *P. gingivalis*
 - Required for survival of intracellular assaccharolytic bacterium
 - Manipulate innate immune response
 - Promote chronic inflammation
 - Proposed causative agent for Alzheimer's disease
 - Tau and ApoE are targets of gingipain proteolysis
- Atuzaginstat specifically targets lysine gingipain (Kgp)¹
 - Synthesized and optimized from proprietary library
 - Selective, potent (IC50 < 50 pM) small molecule inhibitor of Kgp
 - Superior PK properties: orally bioavailable, 100% brain penetrant
 - Composition of matter protection to at least 2037
- Atuzaginstat acts upstream of Alzheimer's pathology
 - Selectively blocks toxicity and reduces bacterial load
 - Reduced Ab_{1-42,} TNFa, and protects neurons in mouse model
 - No evidence of Pg resistance







People in the U.S. with Alzheimer's



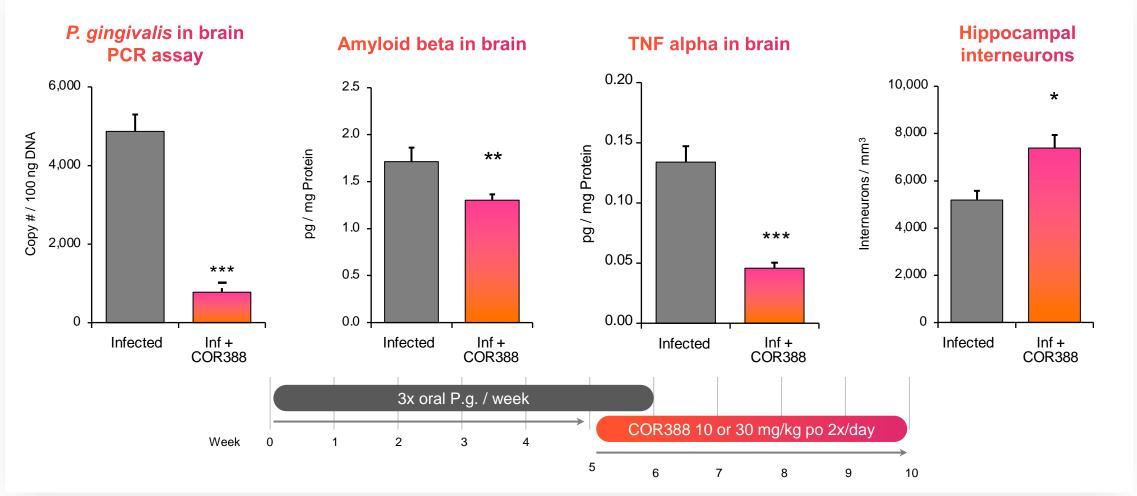
\$355B Economic burden

Source: Alzheimer's Association



Atuzaginstat Acts Upstream of Alzheimer's Pathology

Efficacious in wild type mouse model for sporadic Alzheimer's disease



Source: Cortexyme atuzaginstat (COR388) dose response study, Mean +/- SEM *p< 0.05,**p<0.01, ***p<0.001, Science Advances, 2019

Phase I: Atuzaginstat Well-Tolerated in Older Subjects & AD Patients

10-day MAD in Healthy Elderly and 28-day in Alzheimer's patients

Drug related adverse events

Cohorts 1-3: Older Healthy Volunteers; Treatment duration = 10 days				
Dose	Plcbo BID	25 mg BID	50 mg BID	100 mg BID
Subjects dosed	N=6	N=6	N=6	N=6
Dizziness ¹	0	0	1 (17%)	1 (17%)
Dysgeusia ¹	1 (17%)	0	0	0
Nausea ¹	0	0	0	1 (17%)
Presyncope ²	1 (17%)	0	0	0
Restlessness ¹	0	0	0	1 (17%)
Tachycardia ^{1, 3}	0	0	1 (17%)	0

Cohorts 4: Patients with AD; Treatment duration = 28 days				
Dose	Placebo BID	25 mg BID	50 mg BID	100 mg BID
Subjects dosed	N=3		N=6	
Bradycardia ¹	1 (33%)		0	
Orthostasis ¹	1 (33%)		0	
Liver enzyme elevation ²	0		1 (17%)	
Pancreatic enzyme elevation ¹	0		1 (17%)	
Transient QT Prolongation ¹	1 (33%)		1 (17%)	
Subjects with drug related TEAE	4 (44%)	0 (0%)	4 (33%)	2 (33%)

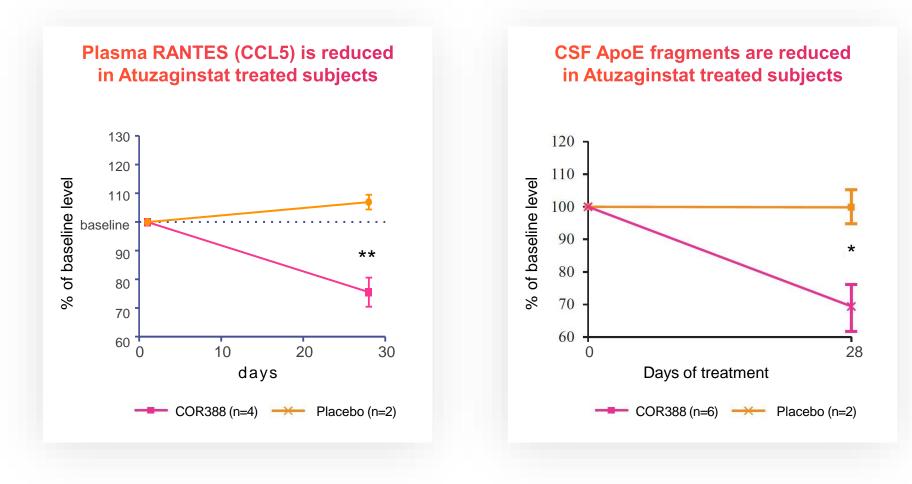
1 Mild AE severity,

2 Moderate AE severity.

3 AE consisted of 6 beats of SVT that occurred again 72 hours after stopping study drug and was designated unreleated to drug Note: No Serious Adverse Events were reported

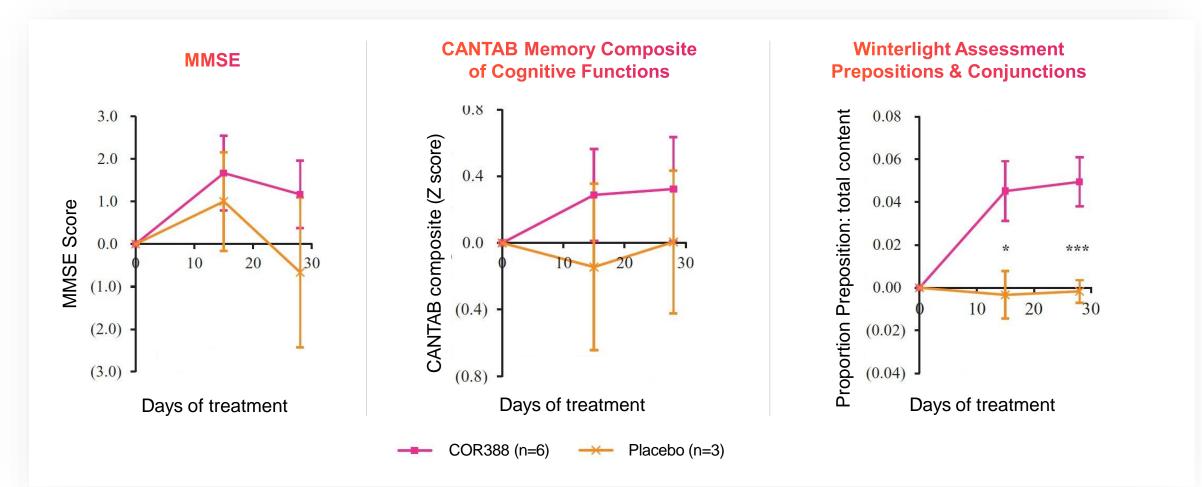
Atuzaginstat Target Engagement of Key Endpoints

28-day Phase 1b study 50 mg BID in AD patients



Atuzaginstat Showed Favorable Trends on Multiple Cognitive Measures

28-day Phase 1b study 50 mg BID in AD patients



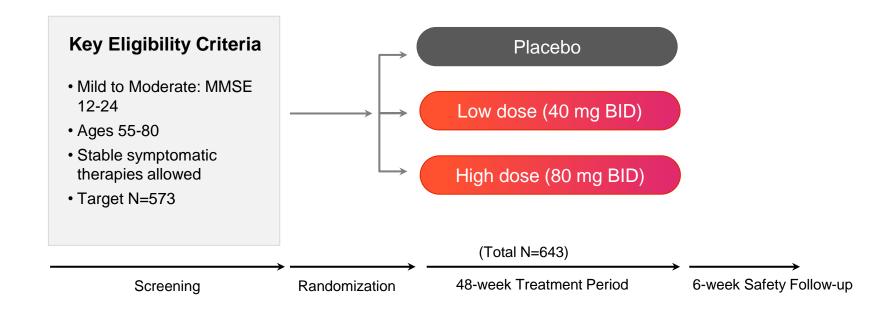


Summary of Atuzaginstat Pre-clinical and Phase 1 Findings

- Pg causes Alzheimer's pathology after oral infection in rodent studies
- Atuzaginstat acts upstream of infection-induced Alzheimer's pathology in mouse model
- Top doses of chronic toxicology studies were no-observed-adverse-effect level (NOAEL)
- Well-tolerated in Phase 1a/b
- Favorable PK profile in therapeutic range
- Pharmacodynamic biomarkers demonstrate target engagement at 50 mg BID
- Favorable trends on multiple cognitive measures



Pivotal P2/3 GAIN Trial Design: Atuzaginstat in Alzheimer's Disease



Timelines

- Enrollment initiated Apr. 2019; completed Sept. 2020
- Interim analysis in December 2020 successfully completed with no sample size adjustment
- Top-line data expected on time in mid-November 2021

Periodontal REPAIR sub-study

- 233 subjects
- Assessment of pocket depth and clinical attachment level at 6 and 12 months

Endpoints

Co-Primary: ADAS-Cog11 and ADCS-ADL

Secondary: CDR-SB, MMSE and NPI

Exploratory: Winterlight

Primary biomarker: MRI volumetric measures

Biomarkers of Alzheimer's: CSF Aβ, tau, p-tau

Biomarkers of Pg activity: blood, saliva, CSF



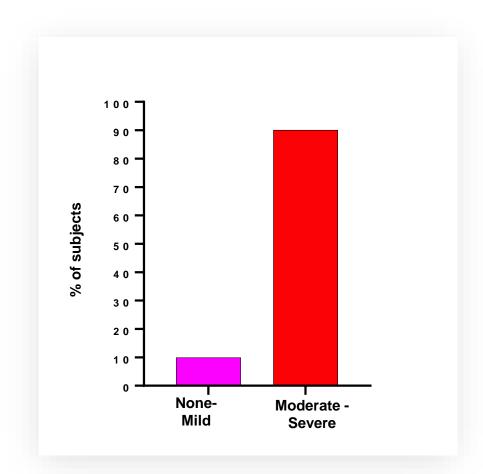
GAIN Baseline Demo: Population and Stratification as Expected

Parameter	Overall (N=643)
Age at Informed Consent (years)	69.1 (55 – 80)
Sex	
Male	278 (43%)
Female	365 (57%)
Race and Ethnicity	
Black or African American	42 (7%)
White, Hispanic or Latino	68 (11%)
White, Not Hispanic/Latino	505 (79%)
Other	10 (2%)
Missing	18 (3%)

Parameter	Overall (N=643)
Region	
North America	447 (70%)
Europe	196 (30%)
MMSE (Statum), n (%)	
Moderate >=12 to <=18	324 (50%)
Mild >=19 to <=24	319 (50%)
ApoE4 (Stratum), n (%)	
ApoE4 Positive	414 (64%)
non-ApoE4	229 (36%)
Cholinesterase Inhibitor/Memantine Use	
Yes	476 (74%)
No	167 (26%)



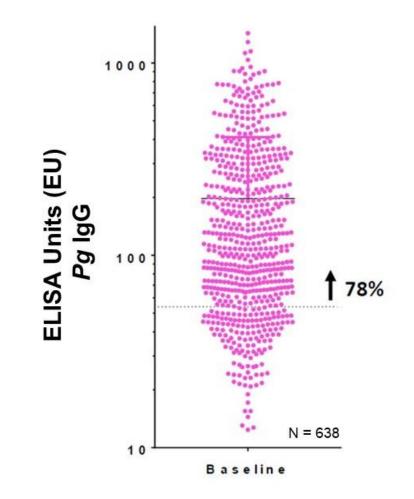
Over 90% of GAIN Subjects in REPAIR Sub-Study Have Moderate to Severe Periodontal Disease at Baseline



Diagnosis based on Pocket depth and Clinical attachment loss measures (N=233)



P. gingivalis Specific IgG Elevated in Serum at Baseline Indicating Systemic Infection



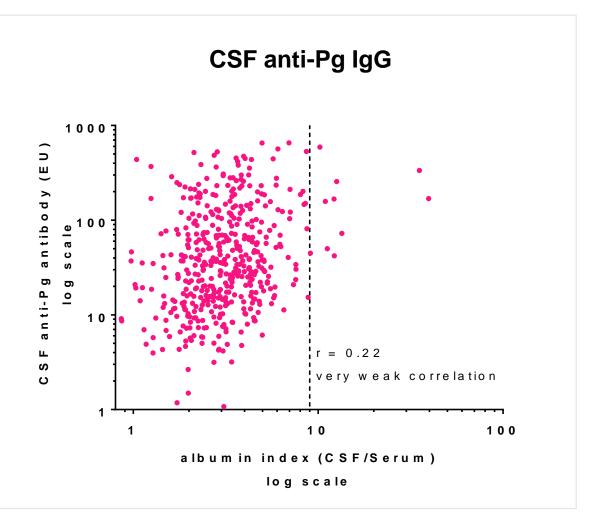
100% of GAIN subjects have evidence of systemic *P. gingivalis* exposure with detectable antibodies

78% have higher IgG antibody titers associated with oral periodontal disease symptoms



Baseline CSF Anti-*Pg* IgG Levels Provide Evidence of CNS Infection in AD

- Anti-Pg IgG concentration in CSF is largely independent of the albumin index indicating central nervous system production in addition to levels found in serum
- Only 2% of GAIN subjects (mean 69 yo) have loss of BBB integrity, as measured by albumin index >9
- The presence of these antibodies further supports a direct *P. gingivalis* infection in the central nervous system





GAIN Pivotal Phase 2/3 Trial Status & Summary

- Fully enrolled on time and strategically over-enrolled to counter any potential impact of COVID
- Baseline demographics and biomarker data indicate appropriate population enrolled
- Patients enrolled have baseline biomarkers consistent with Alzheimer's and *P. gingivalis* infection
- Co-primary endpoints are well-established
- Topline data for GAIN and REPAIR expected by mid-November 2021
- Results of periodontal disease REPAIR sub-study will enable initiation of pivotal program



Periodontal disease

Periodontal Disease Program Overview



Includes 233 subjects enrolled in periodontal study as part of the GAIN trial, reporting topline data mid-November 2021

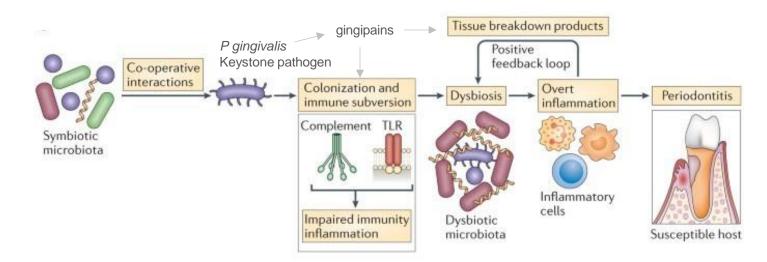
Efficacy Endpoints

At 6 months and 1 year; Pocket Depth (PD) and clinical attachment level (CAL) are typical regulatory endpoints

Milestones

Atuzaginstat efficacy data: mid-November 2021

COR588 Phase 1: Q3 2021



Nature Reviews | Immunology

CORTEXYME

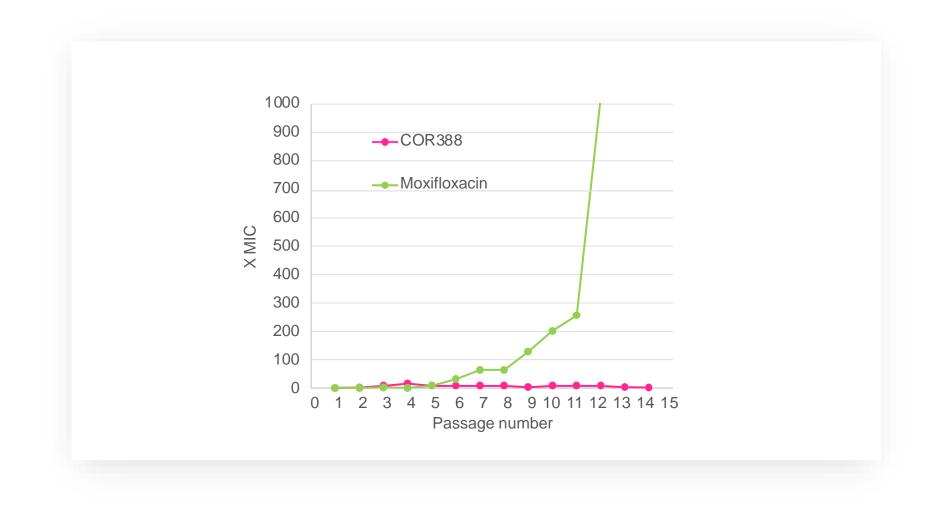


People in the U.S. with periodontal disease

> \$2B

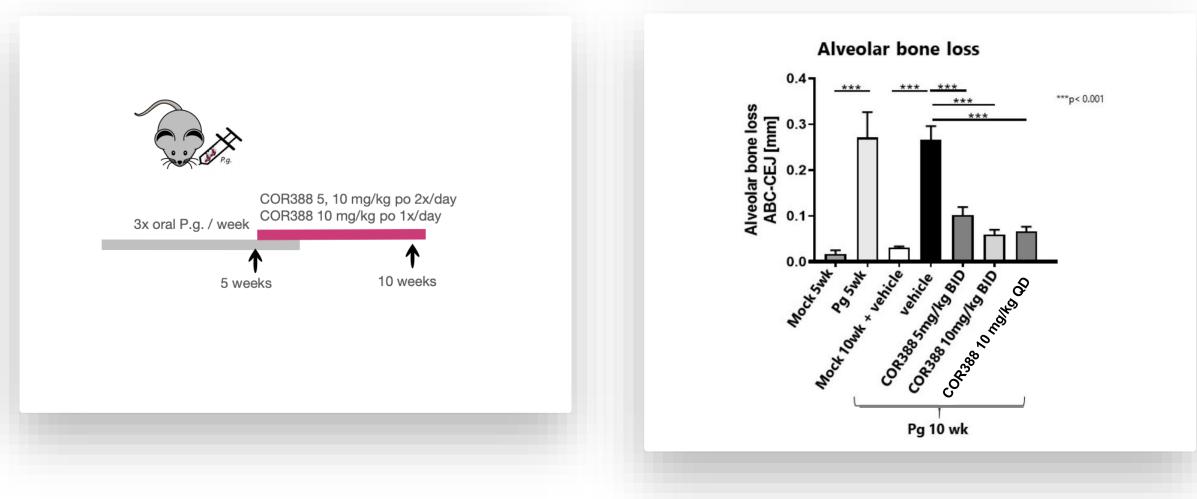
Estimated annual revenue opportunity

Atuzaginstat Does Not Show Any Evidence of Pg Resistance



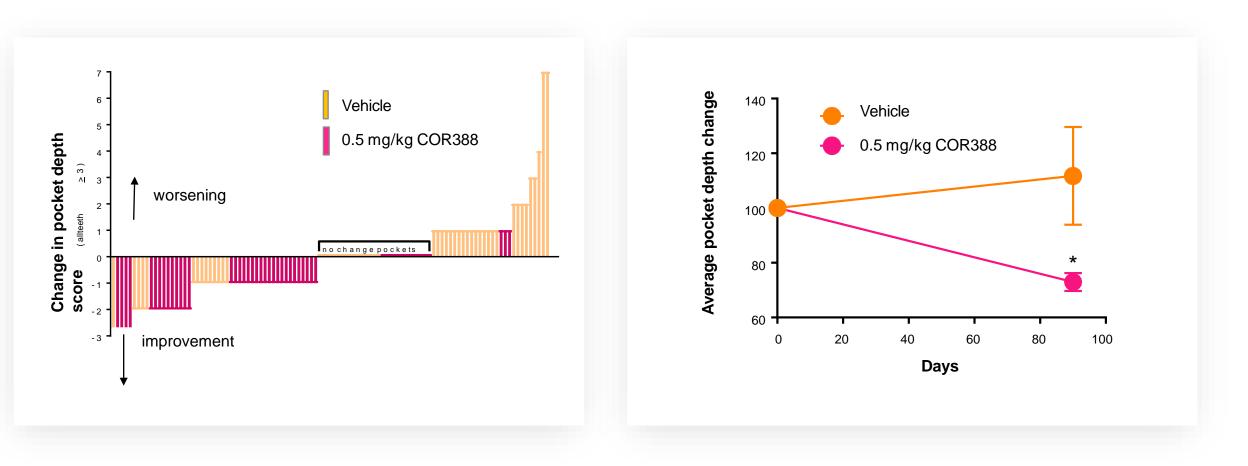


Atuzaginstat Reverses Bone Loss in Mouse Periodontal Model

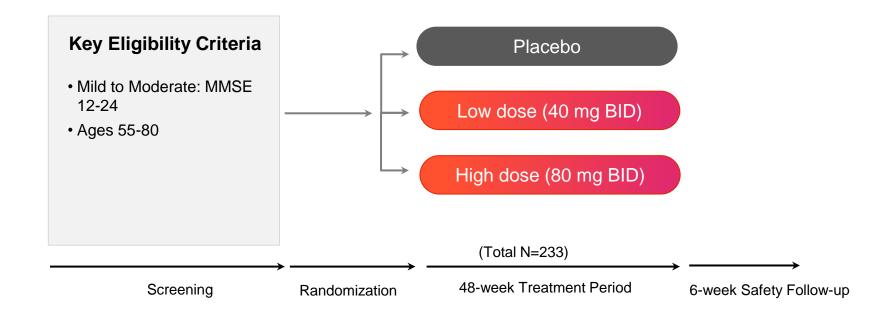


Atuzaginstat is Efficacious in Treating Periodontitis in Aged Dogs

Significant reduction in gingival pocket depth



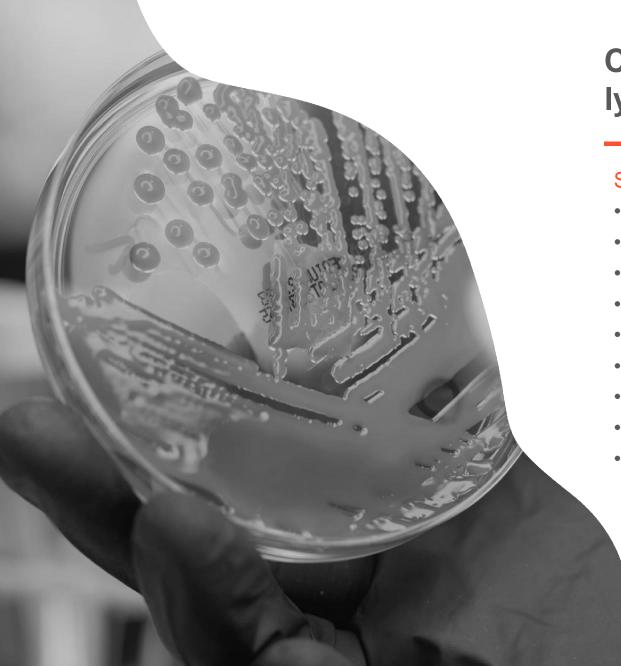
REPAIR Phase 2 Periodontal Disease Sub-study Trial Design



Timelines

- Enrollment initiated April 2019; completed September 2020
- Top-line data expected on time in mid-November 2021
- Phase 3 initiation expected in 2022

En	dpoints
Er	ndpoints
•	Pocket depth at 6 and 12 months
•	Clinical attachment level at 6 and 12 months
•	Bleeding on probing at 6 and 12 months
Bi	omarkers
•	Pg in saliva



COR588 second generation lysine gingipain inhibitor

Small molecule optimized from proprietary library

- Potent and selective
- Novel structure vs. atuzaginstat
- Once a day dosing vs. twice a day
- Highly selective
- Orally available, brain penetrant
- Novel & proprietary small molecule
- Low COGS manufacturing
- Composition of matter patent pending
- Phase 1 study initiated September 2021



Parkinson's Disease

Evidence Supports MOA in Parkinson's Disease

Unmet need

- Currently only
 symptomatic treatments
- Unmet need to stop or slow disease progression

Pathological pattern

The famous pathologist, Braak originally postulated that Parkinson's pathology begins when a neurotrophic pathogen enters the body via the gastric pathway spreading transsynaptically from one vulnerable brain region to the next. <u>Braak et al. 2003</u>

Human data

Supports presence of gingipains in blood and relevant motor brain areas in PD patients

Animal data

Shows ability of Pg to trigger alphasynuclein and neurodegeneration in the substantia nigra in at risk populations

Periodontal disease is a risk factor for Parkinson's

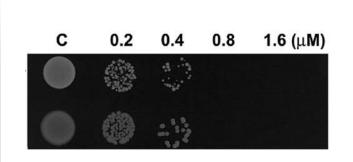
Chen et al. <u>Periodontal inflammatory disease is</u> <u>associated with the risk of Parkinson's disease: a</u> <u>population-based retrospective matched-cohort study</u>

Woo et al. <u>Association of Tooth Loss with New-Onset</u> <u>Parkinson's Disease: A Nationwide Population-Based</u> <u>Cohort Study</u>

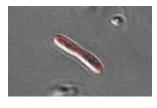
Chen et al. <u>Dental Scaling Decreases the Risk of</u> <u>Parkinson's Disease: A Nationwide Population-Based</u> <u>Nested Case-Control Study</u>

Kaur et al. <u>Parkinson's and periodontal disease – the</u> missing link?

Alpha-synuclein, like Aβ42, Behaves Like an Antimicrobial Peptide (AMP)



Interaction of positively charged alpha syn with negatively charged bacterial membranes similar to other AMPS



Inhibitory effects of recombin	nant α-Syn against bacte	rial and fungal cells.
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Pathogenic microbes	ΜΙС (μΜ)				
	α-Syn (1—140 a.a.)	α-Syn (1—60 a.a.)	α-Syn (61—140 a.a.)		
Bacteria					
E. coli	0.2	1.6	>25.6		
P. aeruginosa	0.2	1.6	>25.6		
S. aureus	0.2	3.2	>25.6		
S. epidermidis	0.2	3.2	>25.6		

Additional publications:

Gastrointestinal immunity and Alphasynuclein

Holocranohistochemistry enables the visualization of alpha-synucleai expression in the murine olfactory system and discovery of its systemic antimicrobial effects

Alpha-synuclein Pathology and the role of the microbiota in Parkinson's disease

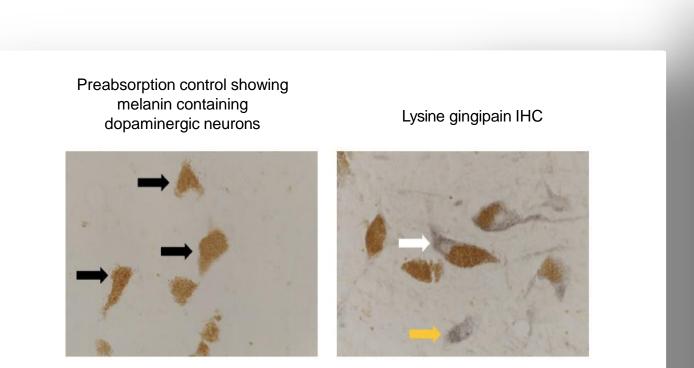
Amyloid-β peptide protects against microbial infection in mouse and worm models of Alzheimer's disease

Alzheimer's Amyloid-b is an antimicrobial peptide: a review of the evidence

The Alzheimer's Disease-Associated Amyloid β -Protein Is an Antimicrobial Peptide

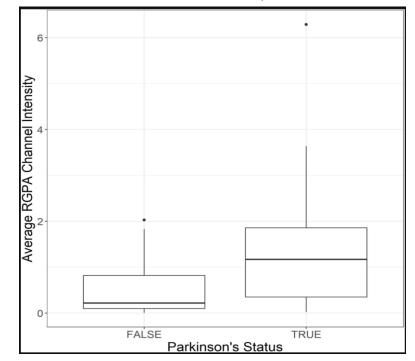
Source: Park et al. Functional characterization of Alpha-synuclein protein with antimicrobial activity. Biochemical and Biophysical Research Communications 2016

Gingipains Found in the Substantia Nigra and blood of PD Patients



Source: University of Auckland/Neurovalida, December 2020

Arginine Gingipain increased in blood of Parkinson's patients



Source: Adams et al. Parkinson's Disease: A Systemic Inflammatory Disease Accompanied by Bacterial Inflammagens. 2019

Oral Pg Infection of LRRK2 Mutant Mice Results in Alpha Synuclein Production and Degeneration of the Substantia Nigra





and mediates immune responses associated with neurodegeneration in LRRK2 R1441G mice

Yu-Kun Feng^{1,2†}, Qiong-Li Wu^{3†}, Yan-Wen Peng⁴, Feng-Yin Liang¹, Hua-Jing You¹, Yi-Wei Feng^{1,5}, Ge Li⁶, Xue-Jiao Li⁶, Shu-Hua Liu⁶, Yong-Chao Li⁶, Yu Zhang⁶ and Zhong Pei¹

Abstract

Background: The R1441G mutation in the leucine-rich repeat kinase 2 (LRRK2) gene results in late-onset Parkinson's disease (PD), Peripheral inflammation and gut microbiota are closely associated with the pathogenesis of PD. Chronic periodontitis is a common type of peripheral inflammation, which is associated with PD. Porphyromonas gingivalis (Pg), the most common bacterium causing chronic periodontitis, can cause alteration of gut microbiota. It is not known whether Pg-induced dysbiosis plays a role in the pathophysiology of PD.

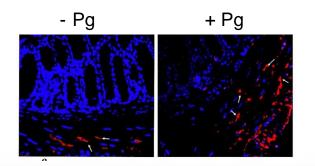
Methods: In this study, live Pg were orally administrated to animals, three times a week for 1 month. Pg-derived lipopolysaccharide (LPS) was used to stimulate mononuclear cells in vitro. The effects of oral Pg administration on the gut and brain were evaluated through behaviors, morphology, and cytokine expression.

Results: Dopaminergic neurons in the substantia nigra were reduced, and activated microglial cells were increased in R1441G mice given oral Pg. In addition, an increase in mRNA expression of tumor necrosis factor (TNF-a) and interleukin-1 β (IL-1 β) as well as protein level of α -synuclein together with a decrease in zonula occludens-1 (Zo-1) was detected in the colon in Pq-treated R1441G mice. Furthermore, serum interleukin-17A (IL-17A) and brain IL-17 receptor A (IL-17RA) were increased in Pg-treated R1441G mice.

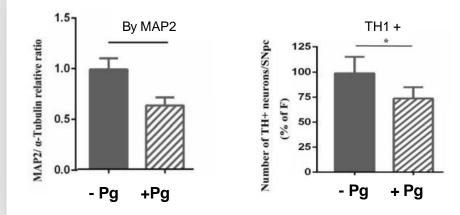
Conclusions: These findings suggest that oral Pq-induced inflammation may play an important role in the pathophysiology of LRRK2-associated PD.

Keywords: Chronic periodontitis, Parkinson's disease, Dopaminergic neurons, R1441G LRRK2, IL-17A

Increased Alpha synuclein in the colon (red)



Neurodegeneration in the substantia nigra



CORTEXYME

Pg Inflammatory Marker RANTES (CCL5) Correlates to Severity CORTEXYME of Parkinson's and is Reduced By COR388 Treatment

RANTES correlates with severity of Parkinson's disease

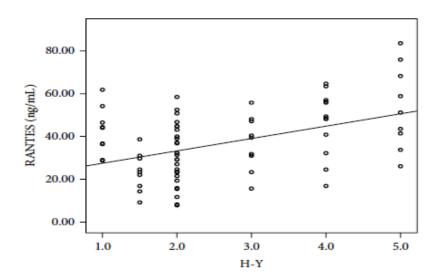
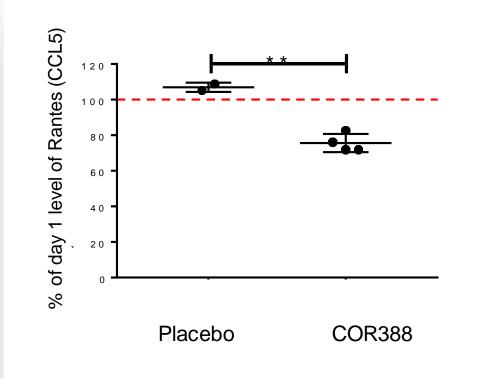


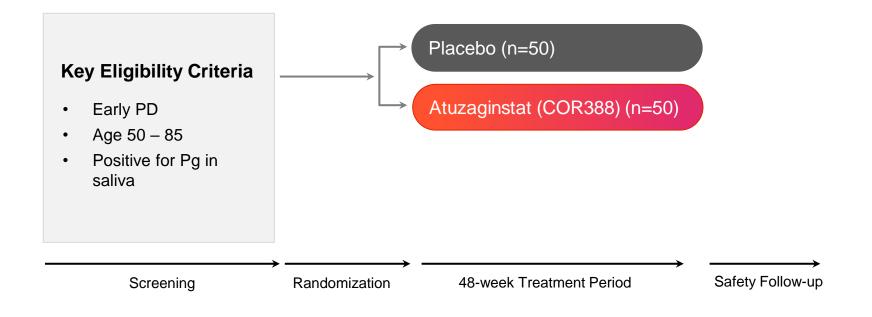
FIGURE 1: Significant positive correlation between RANTES and H-Y scale in PD patients (n = 78, r = 0.362, P = 0.001).

Tang et al. Correlation between Serum RANTES and Severity of Parkinson's disease



Atuzaginstat (COR388) 50 mg taken orally twice daily for for 28 days significantly reduced plasma levels of RANTES (CCL5) compared to placebo in AD patients. ***P < 0.001, **P < 0.01, *P < 0.05.

Phase 2 PEAK Trial Design in Parkinson's Disease



Target Engagement Biomarkers

- RANTES
- P. gingivalis DNA
- P. gingivalis IgG

Endpoints

- Digital motor endpoints
- MDS-UPDRS
- Non-Motor Symptoms scale (NMSS)
- Schwab and England ADLs
- GI Symptoms
- Standard Safety Outcomes (AEs, physical exams, ECGs, Vital Signs, Safety Labs, C-SSRS)

Upcoming Milestones

Timing	Indication	Milestone
Atuzaginstat		·
Q4 2020 🗸	Alzheimer's disease	Enrollment Complete (GAIN Trial)
H1 2021 √	Parkinson's disease	Study startup activities (PEAK Trial)
By mid- Nov 2021	Alzheimer's disease	Top-line Data (GAIN Trial)
By mid -Nov 2021	Periodontal disease	Top-line Data Phase 2 REPAIR sub-study (GAIN Trial) in Periodontal disease
Q1 2022	Parkinson's disease	First patient in (PEAK Trial)
COR588		
Q3 2020 √	Periodontal and other diseases	Candidate Selection/Advancement to IND enabling studies
Q2 2021 √	Periodontal and other diseases	IND Enabling Studies Complete
Q3 2021 √	Periodontal and other diseases	Phase 1 initiation
Q2 2021	Periodontal and other diseases	Phase 1 SAD/MAD complete
COR788/COR882		
Q1 2021√	Potential in AD, Parkinson's, Perio, Cancer, and other indications	Selection of arginine gingipain inhibitor leads (COR787/788)
Q3-Q4 2021	Potential in AD, Parkinson's, Perio, Cancer, and other indications	Candidate selection and initiation of IND enabling studies
COR803/COR817		
Q3 2021√	Coronavirus	Lead Selection



Changing The Way We Think About Degenerative Diseases

- Top-line efficacy data in Alzheimer's disease pivotal GAIN Trial by mid-November 2021
- Top-line efficacy data in periodontal disease REPAIR sub-study by mid-November 2021
- COR588 phase 1 initiated in Q3 2021 for periodontal and other diseases
- New PEAK trial in Parkinson's disease study start up 2021, first patient is anticipated Q1 2022



- MOA upstream of neurodegeneration and other pathology
- Additional indications and compounds in pre-clinical development; expect advancement into the clinic in 2022
- Fully funded through 2023, Q2 2021 cash, equivalents and investments: \$153.5 million

THANK YOU