



Pioneering Precision Medicine for Neurodegeneration

NASDAQ: ACIU | Investor Presentation, November 2022



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www.acimmune.com

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AC Immune at a glance

Pioneering new ways to treat neurodegenerative diseases



Broad, diversified pipeline in neurodegeneration
Six Phase 2 programs; seven clinical readouts in 2022



Key differentiation: Precision medicine
Integrates therapeutics and diagnostics



Multiple global partnerships
>CHF 3 billion in potential milestones



Clinically validated technology platforms
Best-in-class small molecules and biologics



Strong Balance sheet
Funded into Q3 2024



- Based in Lausanne, Switzerland
- 145 employees
- Listed September 2016 (NASDAQ: ACIU)
- 83.6 million shares outstanding¹
- Cash of CHF 140.5 million² (~USD 142.6 million)

(1) As of September 30, 2022; excluding treasury shares; (2) As of September 30, 2022

Neurodegenerative diseases represent a large and growing market

Prevalence expected to increase drastically as the population ages

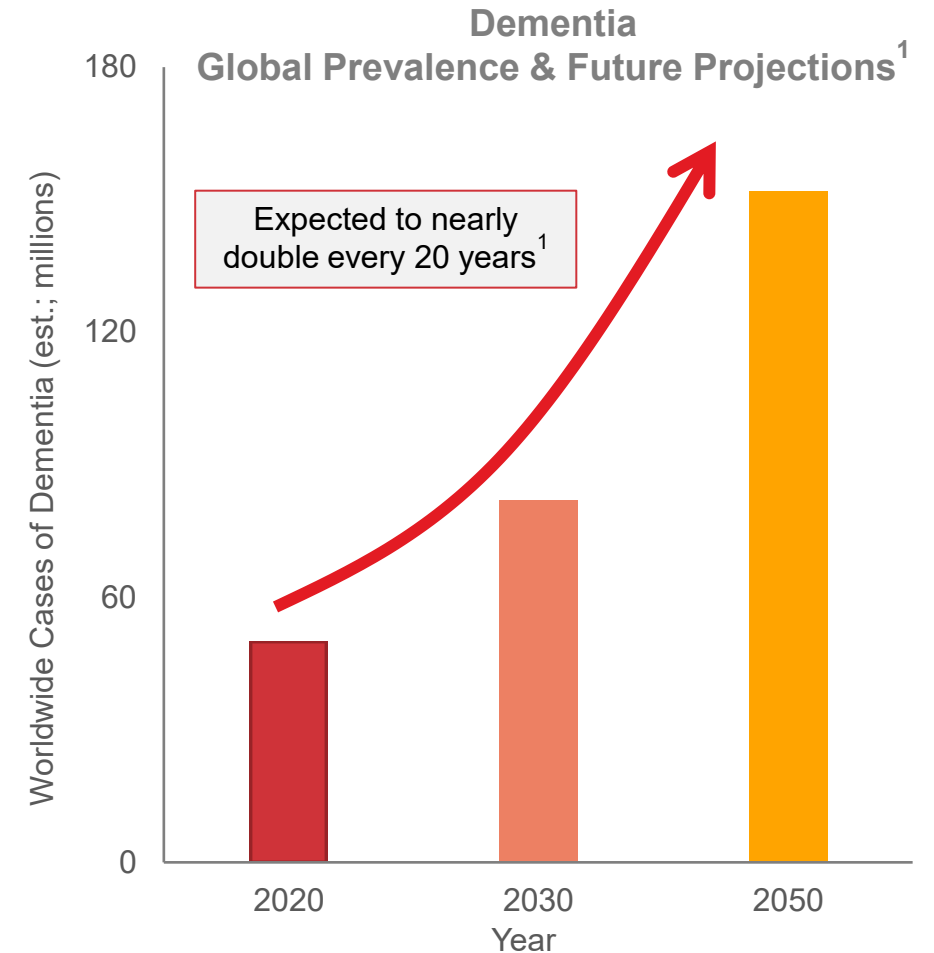
>50 Million people worldwide living with dementia¹

>\$1 Trillion global annual cost of dementia¹

>6 Million people worldwide living with PD^{2,3}

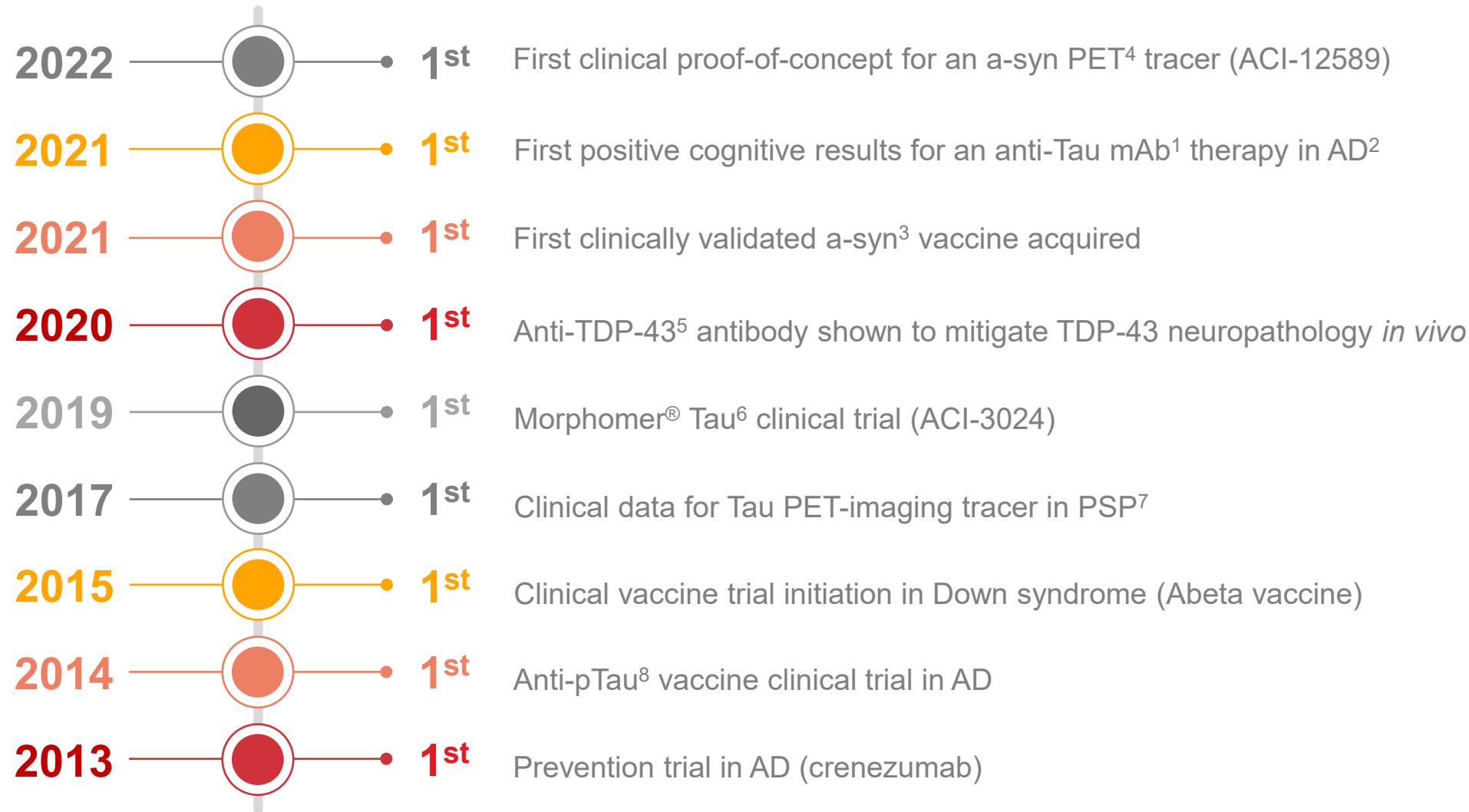
20-50% of people over age 80 with LATE^{4,5}

>8 Million in USA⁶ with different NeuroOrphan diseases



(1) [Alzheimer's Disease International](#); (2) [Parkinson's disease](#); (3) [Michael J Fox Foundation](#); (4) [Limbic-predominant age-related TDP-43 encephalopathy](#); (5) [Nelson et al. Brain 2019](#); (6) [National Institute of Neurological Disorders and Stroke](#)

“Firsts” reflect ACIU’s leadership in neurodegenerative disease



Genentech
A Member of the Roche Group

Lilly

Life Molecular Imaging

janssen
PHARMACEUTICAL COMPANY
OF Johnson & Johnson

Genentech
A Member of the Roche Group

(1) Monoclonal antibody; (2) Alzheimer's disease; (3) alpha-synuclein; (4) Positron emission tomography; (5) TAR DNA binding protein-43; (6) Small molecule Tau-specific aggregation inhibitor; (7) Progressive supranuclear palsy; (8) Phosphorylated Tau

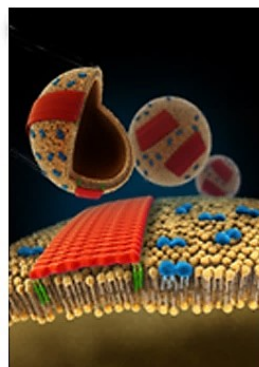
SupraAntigen[®] and Morphomer[®] platforms

An integrated approach to Central Nervous System (CNS)-specific therapies

CNS-optimized

Clinically validated

SupraAntigen[®]



Vaccines &
Antibodies

Morphomer[®]








Small
Molecules

Conformation-
specific

Precision medicine
enabling

External validation and cash generated by 5 partnering¹ deals

Managing risk and retaining significant upside

	Product	Dev. phase	Total value ²	Upfront ²	Milestones received to date ²	Royalties	Partners
Biologicals	Crenezumab (anti-Abeta antibody)	Phase 2	USD 340	USD 25	USD 40	Mid-single digits to mid-teens	 Genentech <small>A Member of the Roche Group</small>
	Semorinemab (anti-Tau antibody)	Phase 2	CHF 430	CHF 17	CHF 42	Mid-single digits to low-double digits	 Genentech <small>A Member of the Roche Group</small>
	ACI-35 (pTau Vaccine)	Phase 1b/2a	CHF 500	CHF 26	CHF 5	Low-double digits to mid-teens	 janssen <small>PHARMACEUTICAL COMPANY OF Johnson & Johnson</small>
Small molecules	Tau PET ³ imaging agent	Phase 2 ⁴	EUR 160	EUR 0.5	EUR 7	Mid-single digits to low-teens	 Life Molecular Imaging
	Tau Morphomer [®] small molecules	Phase 1 ⁵	CHF 1,860	CHF 80 + USD 50 ⁶	CHF 40	Low-double digits to mid-teens	 Lilly
Total (millions)⁷			CHF ~3,311	CHF 155.2⁸	CHF 132.4		

■ Outstanding potential milestone payments exceed CHF 3 billion

(1) Disclosure limited due to confidentiality agreements with collaboration partners; (2) In millions; (3) Positron emission tomography; (4) Advanced into late-stage development in AD; (5) Phase 1 completed; (6) Equity investment; (7) Converted to CHF on date of receipt; (8) Excludes convertible note agreement of USD 50 million

Broad and robust pipeline in neurodegenerative diseases

Driven by validated proprietary technology platforms for sustained growth

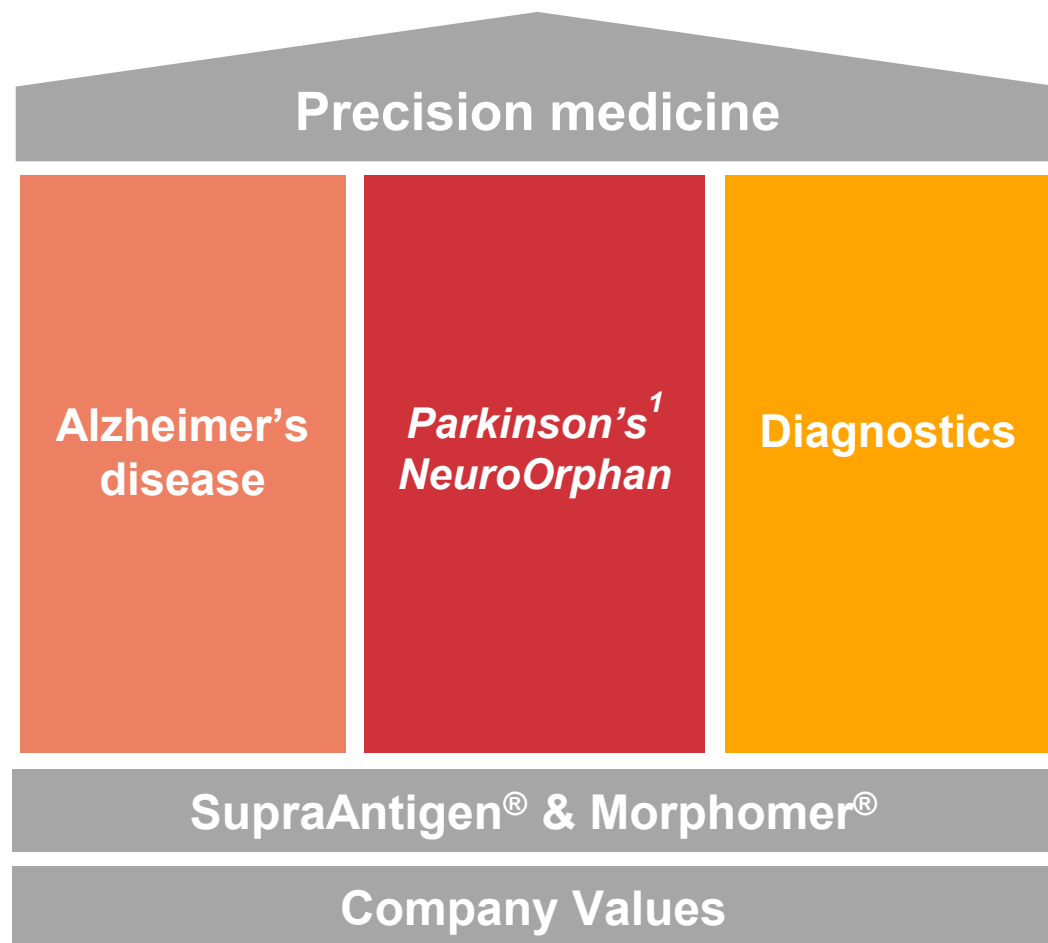
Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD ¹ treatment					reported H1	Janssen
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²					data H2	Genentech <small>A Member of the Roche Group</small>
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET³ tracer	AD diagnostic					reported H2	Life Molecular Imaging
		PSP ⁴ diagnostic					data H2	Life Molecular Imaging
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵					reported H1	Genentech <small>A Member of the Roche Group</small>
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)					data H2 ⁹	
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	a-syn-PET tracer	a-synucleinopathies (e.g. MSA ¹⁰)					reported H1	

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Refers to expected readout from a Phase 1b/2 trial of an optimized formulation of ACI-24 in patients with AD and patients with Down syndrome; (10) Multiple system atrophy

Business strategy 2023: acceleration of vaccine and PD¹ portfolio

Focus on delivering Precision Medicine to enhance value creation



Alzheimer's disease

- Accelerate development of novel late-stage therapies with partners
- Accelerate optimized anti-Abeta vaccine development in DS²

Parkinson's and NeuroOrphans

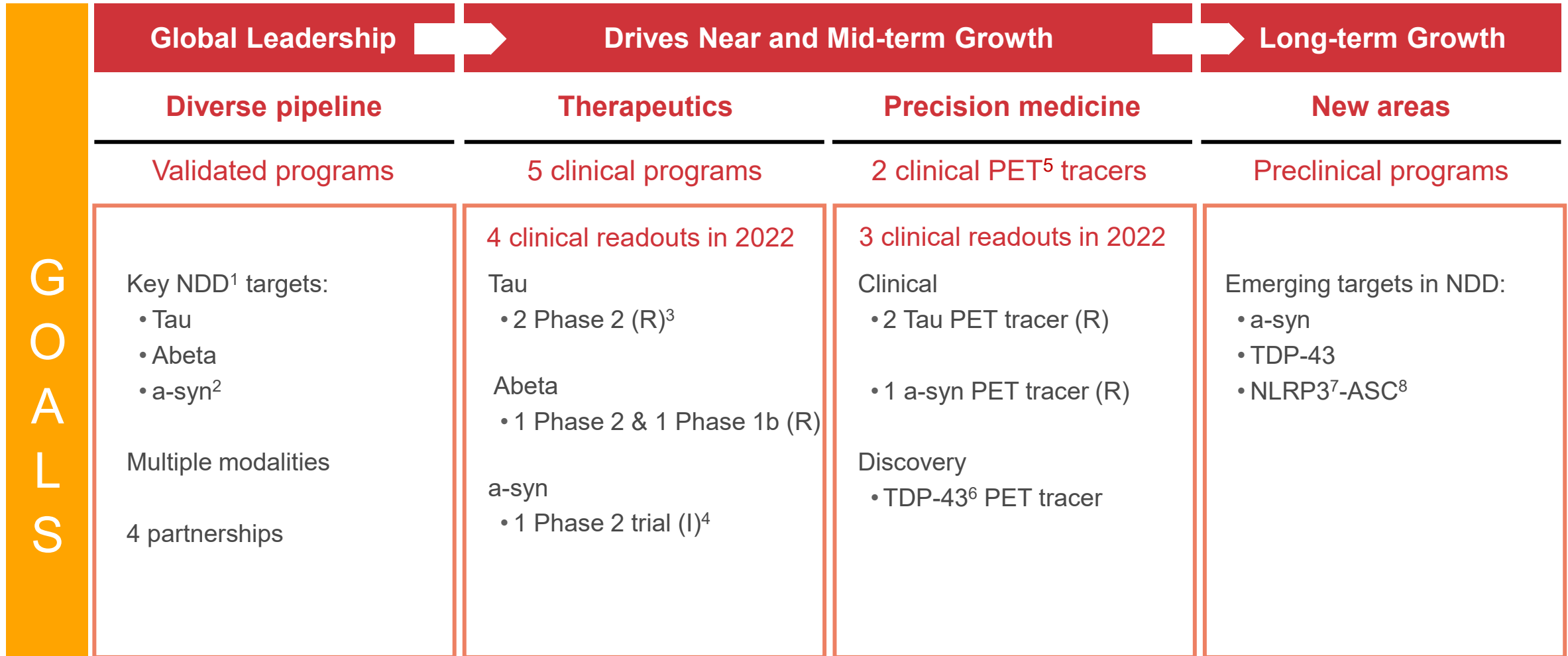
- Broaden strategic activity in other NDD³, e.g. Parkinson's disease
- Genetic FTD⁴/MAPT⁵ population for Morphomer[®] Tau

Diagnostics for precision medicine

- Advance our differentiated diagnostic pipeline for a-synucleinopathies (e.g. MSA⁶) and TDP-43⁷-based pathologies

(1) Parkinson's disease; (2) Down syndrome; (3) Neurodegenerative diseases; (4) Frontotemporal dementia; (5) Microtubule associated protein tau; (6) Multiple system atrophy; (7) TAR DNA-binding protein 43

Precision Medicine driving near- and long-term growth



(1) Neurodegenerative disease; (2) alpha-synuclein; (3) (R) – readout; (4) (I) – initiation; (5) Positron emission tomography; (6) TAR DNA-binding protein 43; (7) (NOD)-like receptor protein 3; (8) Apoptosis-associated speck-like protein containing a CARD, also PYCARD

Clinical catalysts to drive further value creation

Seven clinical data readouts expected in 2022

2022				
		H1	H2	
Tau	ACI-35.030 (anti-pTau vaccine)	✓		Phase 1b/2a interim analysis (highest dose) of ACI-35.030
			●	Decision to enter into late-stage development
	Semorinemab (anti-Tau antibody)		●	Report new Phase 2 Lauriet data (biomarkers)
	Tau-PET ¹ Tracer (PI-2620)		●	Clinical PET study readout in orphan indication
			✓	Phase 2 results in AD ²
Abeta	ACI-24.060 (anti-Abeta vaccine)	✓		Phase 1b/2 First-Patient-In (AD)
			●	Phase 1b in AD readout and decision to move into DS ³
	Crenezumab (anti-Abeta antibody)	✓		Top line results of Phase 2 Alzheimer's prevention trial
a-syn ⁴	ACI-7104 (anti-a-syn vaccine)		●	Phase 2 First-Patient-In
	a-syn-PET tracer	✓		First clinical proof of concept in alpha-synucleinopathies (e.g. MSA ⁵)

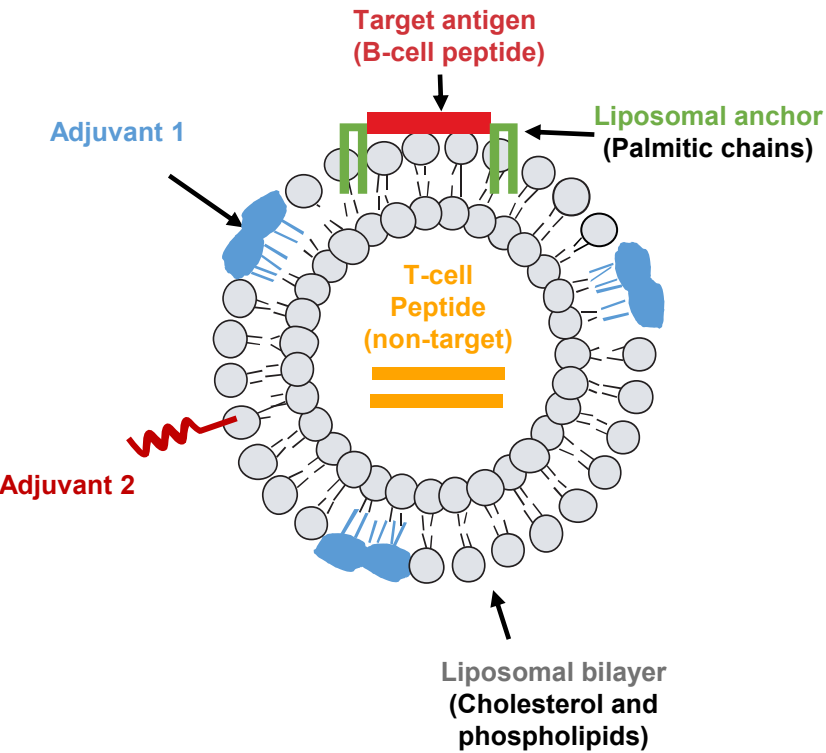
(1) Positron emission tomography; (2) Alzheimer's disease; (3) Down syndrome-related AD; (4) alpha-synuclein; (5) Multiple system atrophy



Vaccine programs targeting neurodegenerative diseases

Disruptive potential of SupraAntigen®-V

Optimized vaccines delivering superior results in neurodegenerative diseases



Generates target-specific antibody response

Safely engages target-unrelated T-cells to enhance & maintain response

Unprecedented Clinical Performance

Immunogenicity	++++ ¹
Target specificity	++++ ²
Conformation specificity	+++
Avidity increase over time	+++
Sustainability of response	+++
Boosting	+++
Class switching IgM to IgG	+++
Evidence of memory B cells	+++







- Robust immunogenicity and strong safety demonstrated in humans
- Evidence for lasting immune response supporting a disease prevention approach

(1) 100% response after 1st injection; (2) Increases over time

Vaccine programs in clinical development

Addressing key targets in Alzheimer's and Parkinson's diseases

Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD ¹ treatment					reported H1	
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						
		AD treatment						
	Tau-PET³ tracer	AD diagnostic						
		PSP ⁴ diagnostic						
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)					data H2 ¹⁰	
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ⁹)						

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related AD; (7) alpha-synuclein; (8) Parkinson's disease; (9) Multiple system atrophy; (10) Refers to expected readout from a Phase 1b/2 trial of an optimized formulation of ACI-24 in patients with AD and patients with Down syndrome

ACI-7104: Anti-a-syn vaccine being developed for Parkinson's disease

Phase 2 trial initiation expected in H2

Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD treatment						Janssen <small>Pharmaceutical Companies a Johnson & Johnson</small>
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						Life Molecular Imaging
		PSP ⁴ diagnostic						
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						Genentech <small>A Member of the Roche Group</small>
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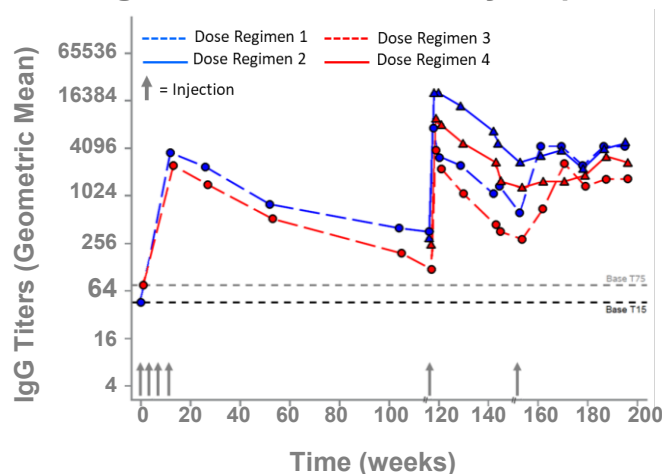
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Anti-a-syn¹ vaccine is clinically validated² in Parkinson's disease

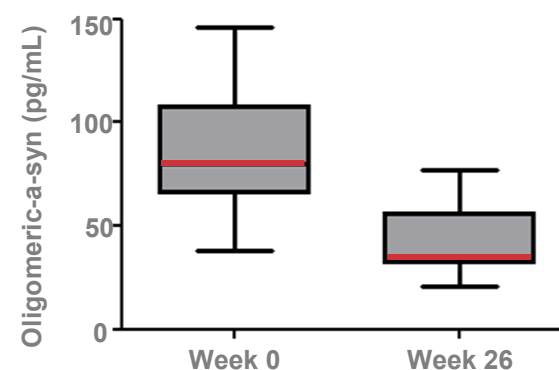
Phase 1 results in *The Lancet Neurology* support best-in-class profile

THE LANCET
Neurology

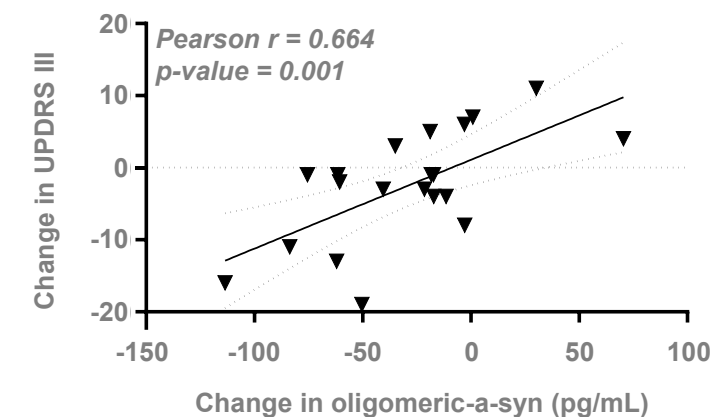
Strong and boostable antibody response



50% reduction³ of pathological a-syn in CSF⁴



Changes⁵ in oligo-a-syn and UPDRS III correlate



1

Safe and well tolerated with no safety concerns noted in patients followed for more than 3.5 years

3

Target engagement evidence: 50% reduction in pathological (oligomeric) a-syn in the CSF

2

Strong and boostable antibody responses

4

Signal of clinical efficacy: stabilization of UPDRS⁶ III scores correlated with reductions in oligomeric a-syn

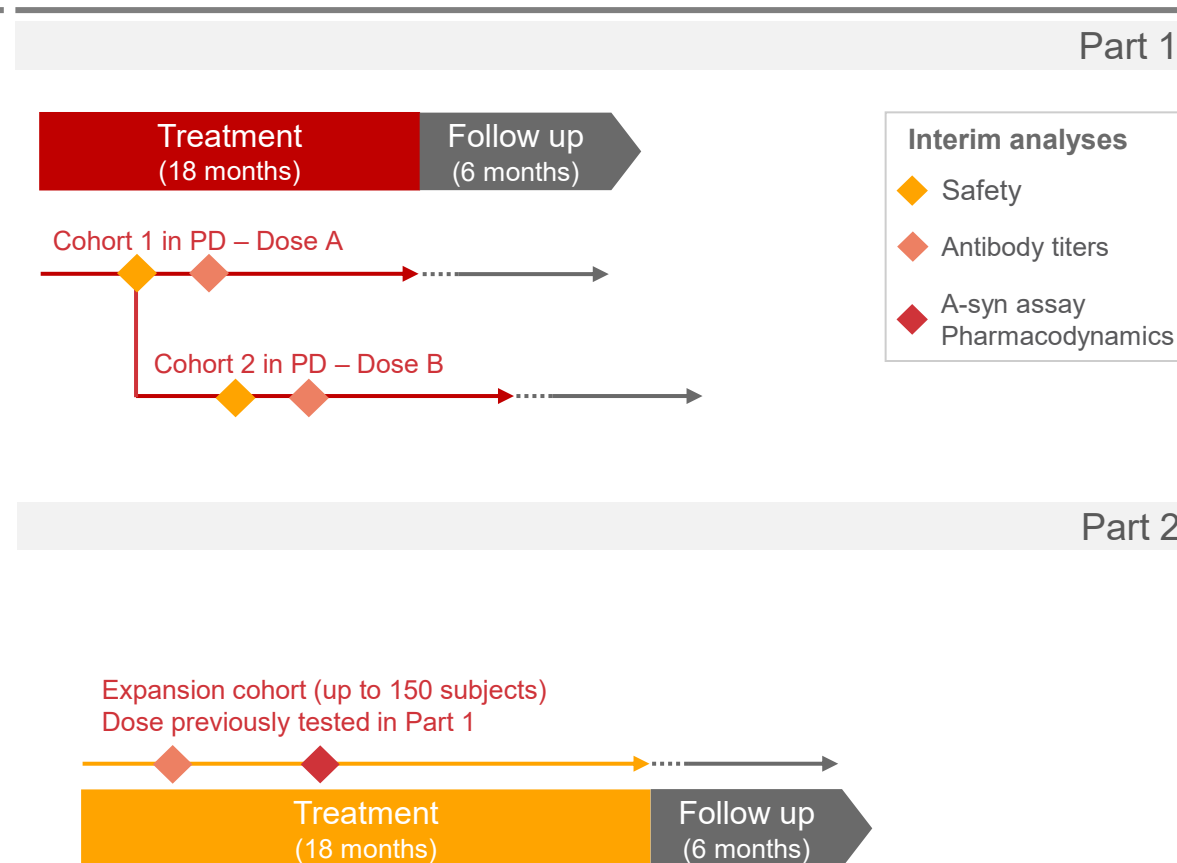
(1) alpha-synuclein; (2) Volc *et al.*, Lancet Neurol. 2020; (3) Data from 75 µg dose group; (4) Cerebrospinal fluid; (5) Change in oligomeric a-syn calculated at week 26, change in UPDRS III calculated at week 100; (6) Unified Parkinson's Disease Rating Scale

ACI-7104: an adaptive biomarker-based Phase 2 study in early PD¹

Placebo-controlled Phase 2 Study Overview

Inclusion criteria	<ul style="list-style-type: none"> Idiopathic PD; L-Dopa treatment (up to 300 mg per day, stable) A diagnosis of PD for 2 years or less at screening (not demented / no cognitive impairment) Dopaminergic deficit by DaT SPECT³
Study design	<ul style="list-style-type: none"> Seamless transition <ul style="list-style-type: none"> All participants from Part 1 will contribute to final analysis Biomarker based interim analyses <ul style="list-style-type: none"> Early immunogenicity to tailor dose and/or dose regimen Understand biological signal for early transition to filing
Part 1 Safety & PK/PD ⁴	<ul style="list-style-type: none"> Key immunogenicity measures Measures of pathological a-syn⁵ and a-syn aggregation (phospho-a-syn and a-syn oligomers)
Part 2 PoC ⁶ in early PD	<ul style="list-style-type: none"> Motor and Non-Motor Functioning (UPDRS⁷ based) Neurodegeneration of dopaminergic terminals (DaT SPECT imaging) Digital biomarkers of motor and non-motor function Advanced MRI (including ASL⁸ and DTI⁹) Functional and patient reported outcomes

Dosing Schematic



(1) Parkinson's disease; (2) Monoamine Oxidase Type B; (3) Dopamine Transporter Single Photon Emission Computed Tomography; (4) Pharmacokinetics and Pharmacodynamics; (5) alpha-synuclein; (6) Proof-of-concept; (7) Unified Parkinson's disease rating scale; (8) Arterial spin labeling; (9) Diffusion tensor imaging

ACI-35.030: Anti-pTau vaccine being developed for AD¹

Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD treatment						Janssen
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						Genentech <small>A Member of the Roche Group</small>
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						Life Molecular Imaging
		PSP ⁴ diagnostic						Life Molecular Imaging
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						Genentech <small>A Member of the Roche Group</small>
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)						
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ⁹)						

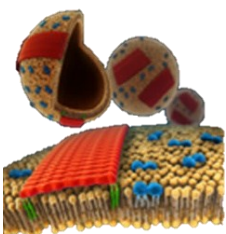
■ Biologic
■ Small Molecule
■ Diagnostic

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Multiple system atrophy

ACI-35.030 – very encouraging interim Phase 1b/2a results in AD¹

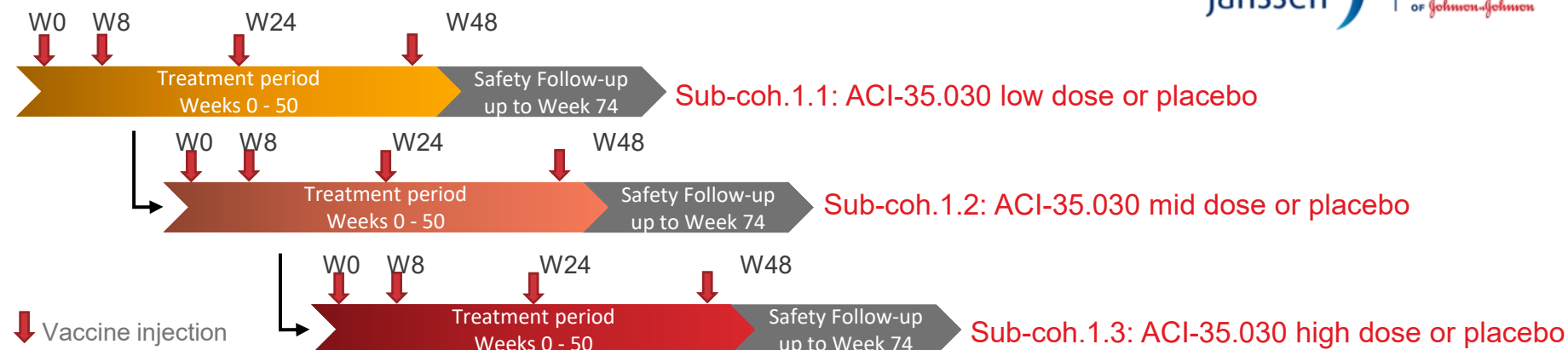


SupraAntigen[®]
platform



AC-35.030

- pTau selective
- T-cell independent (Tau)
- Optimized formulation



Interim results to date in all dose cohorts (safety/tolerability, immunogenicity):

- Anti-Tau IgG response preferentially targeting phosphorylated Tau in all participants
- 100% of participants demonstrated an anti-pTau IgG response³ after the 1st injection
- Anti-pTau IgM response was also elicited in all participants
- Safe and well tolerated, no vaccine-related safety concerns observed to date

Expansion of the second dose cohort to generate additional patient data

1

Achieved high titers of anti-pTau antibodies in 100% of participants from week 2

2

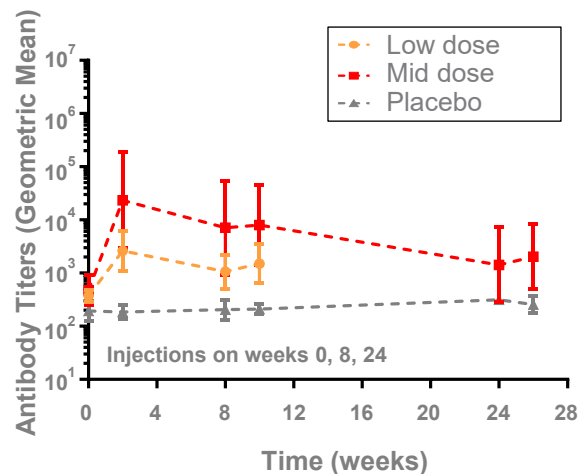
Strong safety and robust immunogenicity support advancing to late-stage development

(1) Alzheimer's disease; (2) Clinical Trials in Alzheimer's Disease Conference; (3) Responders were defined as higher than a pretreatment value multiplied by a threshold factor (>~2x)

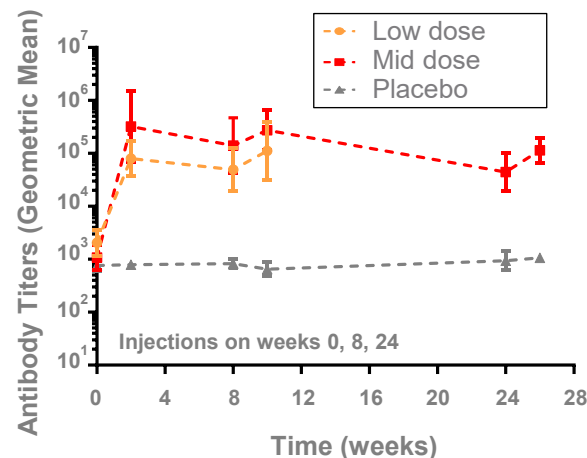
ACI-35.030 generates a potent Ab¹ response against pathological Tau

ACI-35.030 generates excellent Ab responses against pTau² in an older population

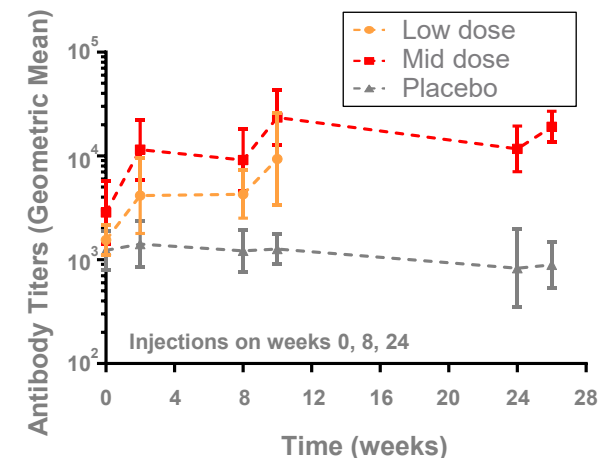
Anti-Tau (non-phosphorylated) IgG Titers



Anti-pTau IgG Titers



Anti-ePHF³ IgG Titers



1

Strong induction of Abs preferentially targeting pTau and its aggregated form (ePHF)

3

Anti-ePHF titers increased by approximately 10-fold⁵ from baseline in the mid-dose cohort

2

Anti-pTau titers increased by >100-fold⁴ from baseline in the mid-dose cohort

4

Antibody responses showed boostability following the second and third doses

(1) Antibody; (2) phosphorylated Tau; (3) Enriched paired helical filaments; (4) at Weeks 2 and 10; (5) at Week 10

ACI-24: Vaccine targeting two pathological forms of Abeta for AD¹

ACI-24 targets pyroGlu- and oligomeric Abeta, which are believed to drive the progression of AD

Clinical Stage Programs

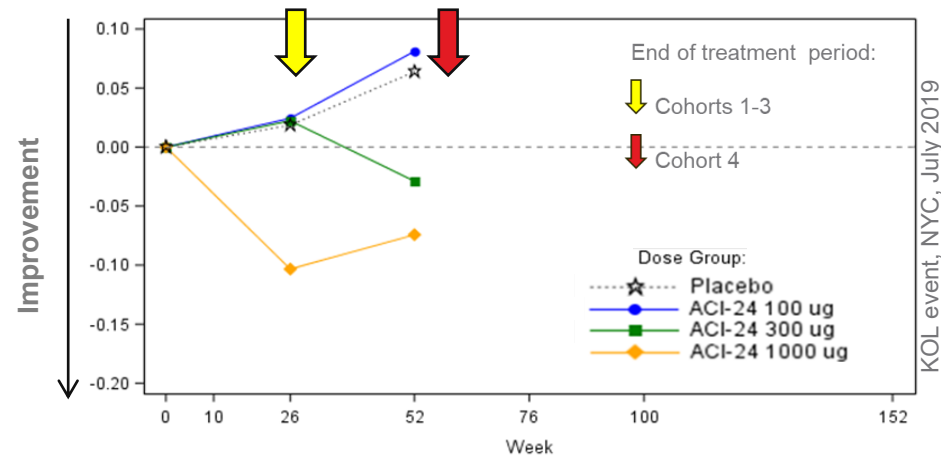
TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD ¹ treatment						Janssen <small>Research Triangle Park, NC, USA</small>
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						Genentech <small>A Member of the Roche Group</small>
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						Life Molecular Imaging
		PSP ⁴ diagnostic						Life Molecular Imaging
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						Genentech <small>A Member of the Roche Group</small>
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)					data H2 ⁹	
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ¹⁰)						

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Refers to expected readout from a Phase 1b/2 trial of an optimized formulation of ACI-24 in patients with AD and patients with Down syndrome; (10) Multiple system atrophy

ACI-24: Early clinical data support advancement of program

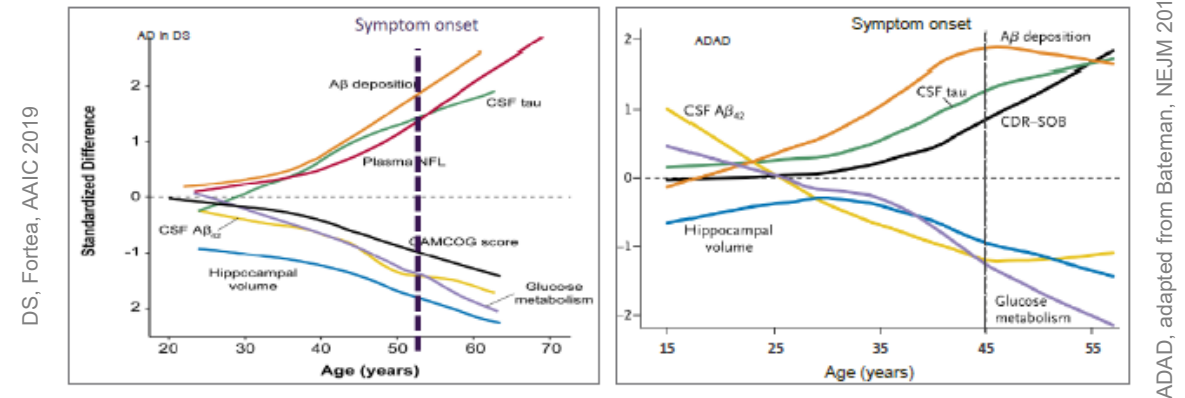
Advancing optimized formulation to the next stage of clinical development in AD² and DS³-related AD

Abeta clearance measured by Abeta PET⁴
Change in composite summary SUVR-MCG⁵
Clinical evidence of target engagement



Alzheimer's disease in DS

Similar pathophysiology and biomarkers in DS and ADAD⁶
Virtually all individuals with DS go on to develop AD-like symptoms



ADAD, adapted from Bateman, NEJM 2012

1

Dose-dependent **reduction of brain Abeta accumulation** in a Phase 1b/2 trial in AD⁷

3

Positive pharmacodynamic response (increase in plasma Abeta) in a Phase 1b trial in DS

2

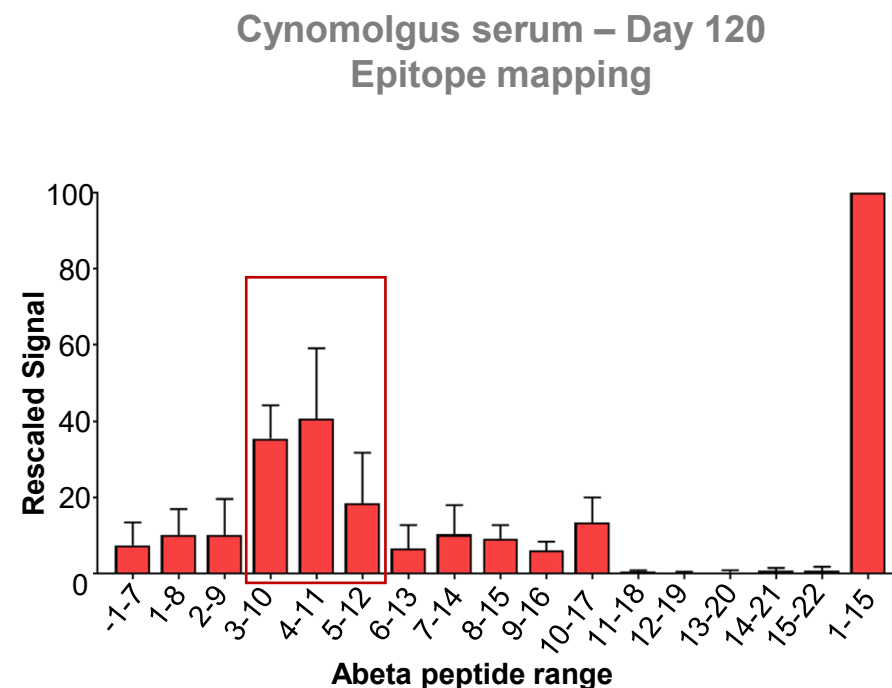
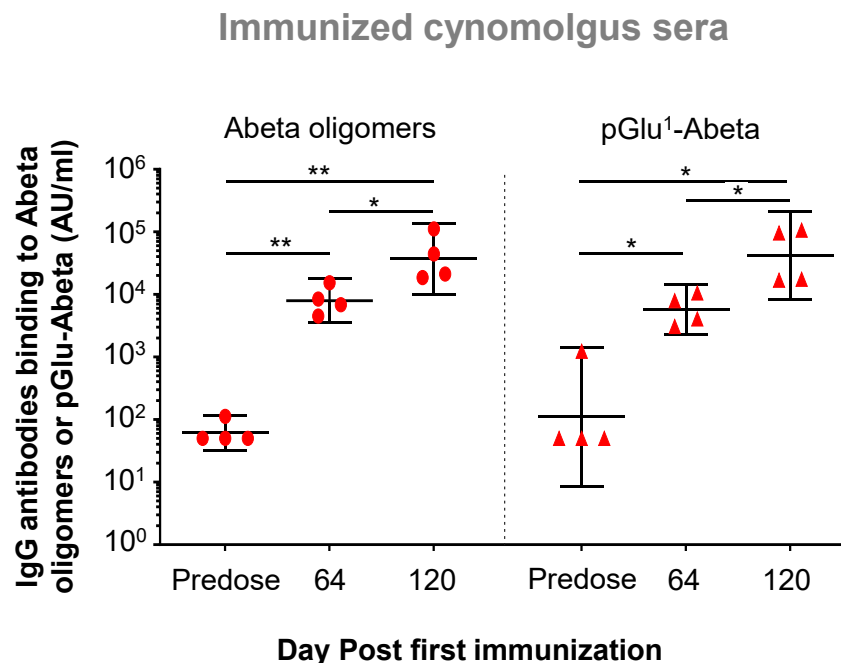
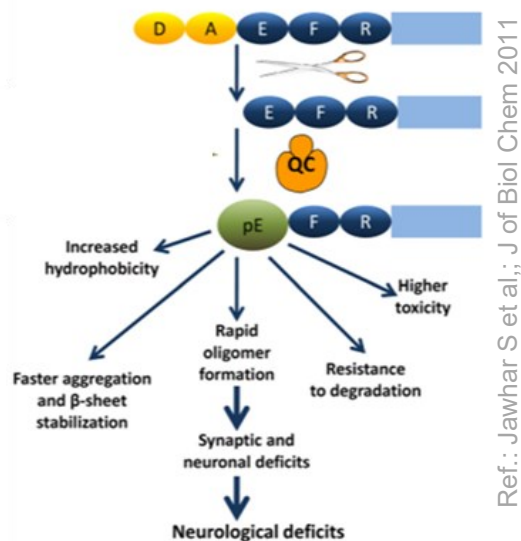
Encouraging immunogenicity: generated anti-Abeta antibodies in patients with AD & individuals with DS

4

Safe and well tolerated with no treatment-related SAEs⁸ in clinical trials in AD⁹ and DS¹⁰

(1) Pyroglutamate Abeta; (2) Alzheimer disease; (3) Down syndrome; (4) Positron emission tomography; (5) Standardized Uptake Value Ratio-Mean Cerebellar Gray; (6) Autosomal dominant Alzheimer's disease; (7) Phase 1b/2 clinical trial in AD (trial ACI-0701); (8) Serious adverse events; (9) Phase 2 clinical trial in AD (trial ACI-1801); (10) Phase 1b clinical trial in DS (trial ACI-1301)

Optimized anti-Abeta ACI-24: Strong immune response against pyroglutamate Abeta



- Sustained and enhanced IgG response that binds Abeta(1-42) and pyroglutamate Abeta, the highly neurotoxic, truncated form of pathological Abeta
- The optimized vaccine represents a potential breakthrough compared to previous anti-Abeta vaccines

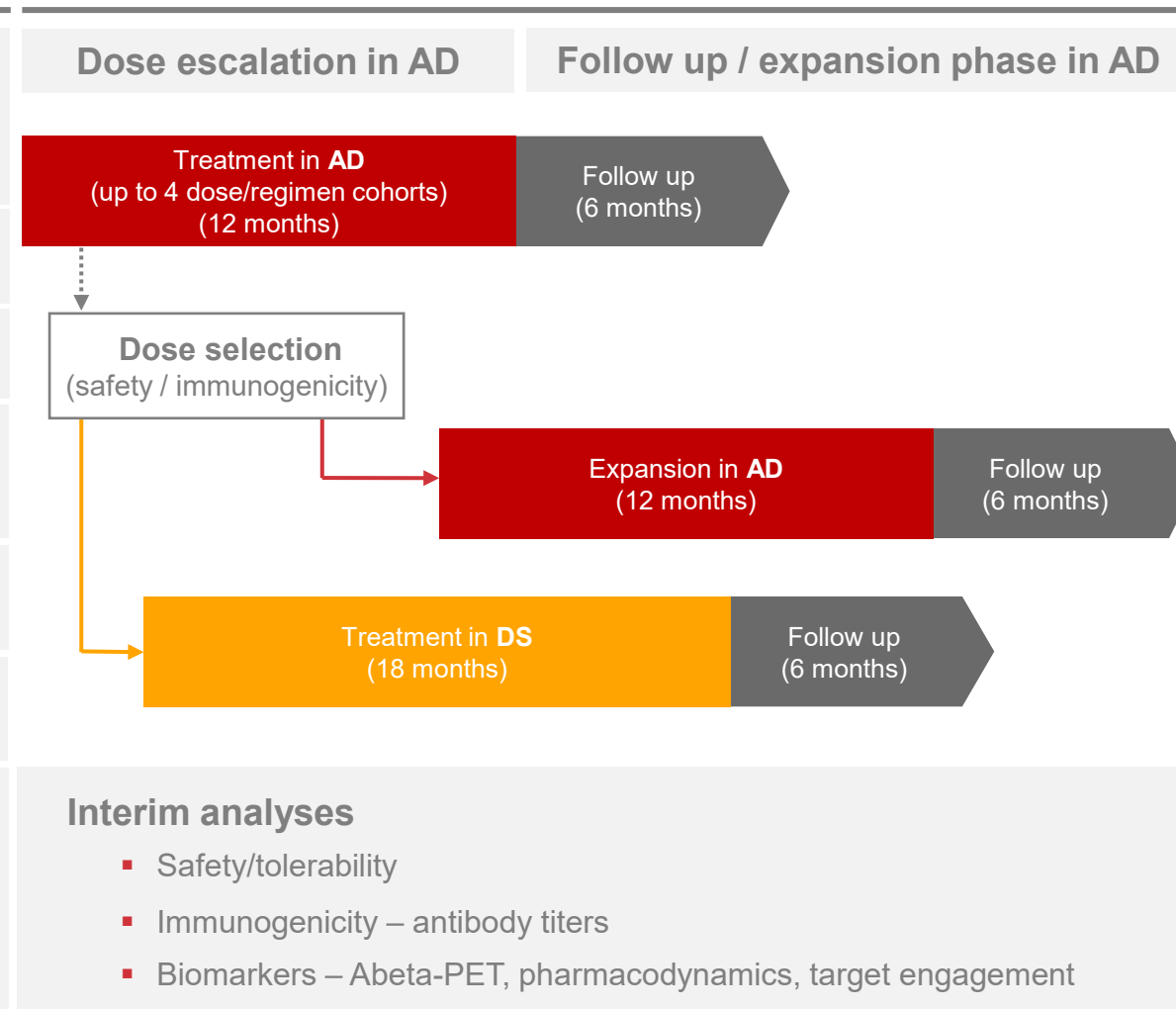
(1) Pyroglutamate * p<0.05, ** p<0.01

ACI-24.060: Biomarker-based development in AD¹ and AD in DS²

Placebo-controlled Phase 1b/2 Study Overview

Inclusion criteria	Both	Multicenter, adaptive, placebo-controlled, dose-escalation, double-blind, randomized Phase 1b/2 study in people with: <ul style="list-style-type: none"> Abeta pathology confirmed by PET³ scan
	AD	<ul style="list-style-type: none"> Prodromal AD (CDR⁴-Global Score 0.5; age 50-75 years)
	DS	<ul style="list-style-type: none"> Non-demented people living with DS (age 35–50 years)
Study design	Both	<ul style="list-style-type: none"> IA⁵ of safety/tolerability and immunogenicity Biomarker analyses including Abeta PET and others
	AD	<ul style="list-style-type: none"> Up to 4 different doses and/or dose regimens Expansion of one cohort to assess effect on Abeta PET
	DS	<ul style="list-style-type: none"> Initiation using selected dose identified in AD (based on safety/tolerability and immunogenicity)
Outcome measures	Both	<ul style="list-style-type: none"> Safety/tolerability Pharmacodynamics: Serum anti-Abeta antibody titers Exploratory biomarkers and clinical endpoints

Trial Schematic



(1) Alzheimer's disease; (2) Down syndrome-related AD; (3) Positron emission tomography; (4) Clinical Dementia Rating; (5) Interim analyses



Clinical-stage monoclonal antibodies targeting neurodegenerative diseases

Semorinemab: Anti-Tau monoclonal antibody being developed for AD¹

New Phase 2 biomarker and open-label extension data expected in H2 2022

Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD treatment						Janssen
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²					data H2	Genentech A Member of the Roche Group
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						Life Molecular Imaging
		PSP ⁴ diagnostic						Life Molecular Imaging
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						Genentech A Member of the Roche Group
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)						
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ⁹)						

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Multiple system atrophy

Lauriet study evaluating the mAb¹ semorinemab in mild-to-moderate AD²

One co-primary endpoint met: first positive cognitive results for an anti-Tau mAb therapy in AD

1

Observed a statistically significant 2.89 point (42.2%) reduction in cognitive decline vs. placebo as measured by ADAS-Cog11³ at week 49 (p=0.0008)

2

ADCS-ADL⁴ co-primary endpoint and secondary efficacy endpoints (MMSE⁵; CDR-SB⁶) were not met; treatment effect on Tau PET⁷ signal was not observed

3

Semorinemab was well tolerated with an acceptable safety profile and no unanticipated safety signals

4

ADAS-Cog11 findings were consistent at week 61⁹

5

Lauriet open label extension continues and biomarker analyses of semorinemab's effect on soluble forms of pathological Tau are ongoing

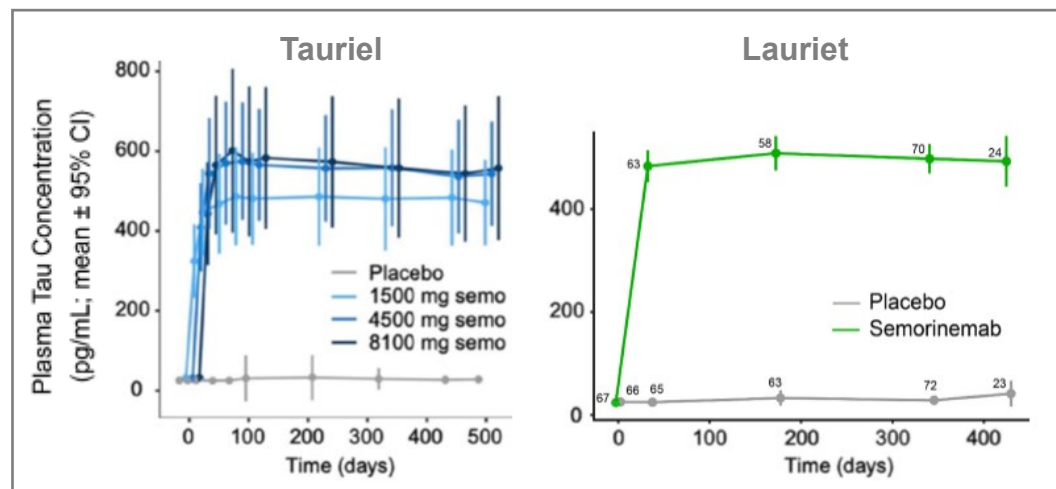
First evidence of therapeutic impact on cognition for a disease-modifying anti-Tau mAb in mild-to-moderate AD patients⁸

(1) Monoclonal antibody; (2) Alzheimer's disease; (3) Alzheimer's Disease Assessment Scale, Cognitive Subscale, 11-item Version; (4) Alzheimer's Disease Cooperative Study - Activities of Daily Living; (5) Mini-mental state exam; (6) Clinical Dementia Rating-Sum of the Boxes; (7) Positron emission tomography; (8) MMSE of 16-21; (9) In the subset of patients for whom the double-blind treatment period was extended to 60 weeks.

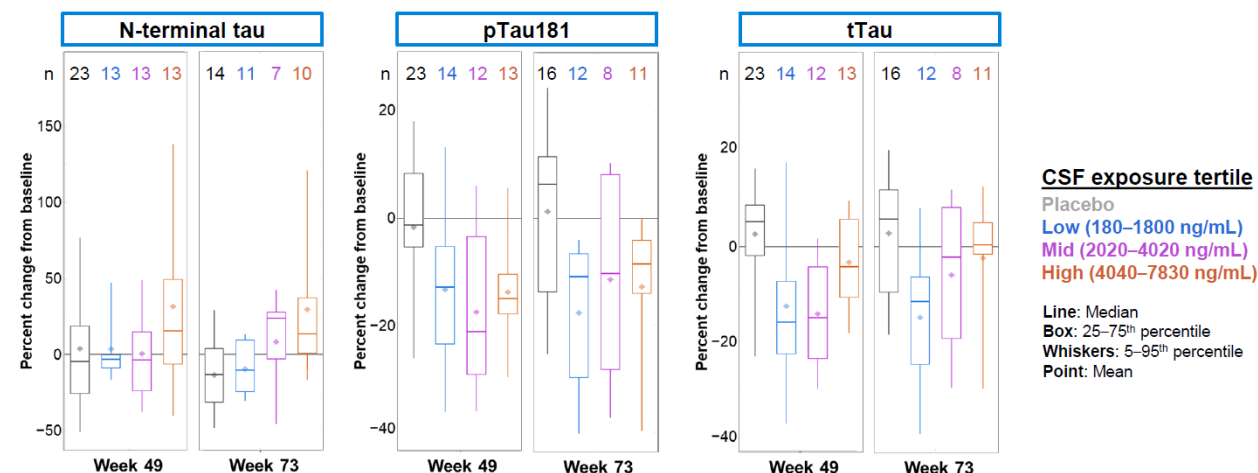
Key findings from Phase 2 trials of semorinemab in AD¹

Data provide further support for Tau as a target in AD

Plasma Tau Pharmacodynamic Data²



Tauriel Trial (prodromal-to-mild AD): Target Engagement Data



1

Significant semorinemab treatment effect on cognition in a patient population where limited or no effect of anti-Abeta mAbs is observed

2

Semorinemab treatment effect observed in Lauriet was consistent across prespecified subgroups

3

Tauriel's CSF³ biomarker analyses confirm target engagement despite lack of clinical effect in prodromal to mild AD. Lauriet's CSF analyses are ongoing

4

Data from Lauriet study support the importance of soluble forms of pathological Tau in driving cognitive decline and warrant further analysis

(1) Alzheimer's disease; (2) Plasma pharmacodynamics are similar between studies; (3) Cerebrospinal fluid

Crenezumab: Monoclonal anti-Abeta antibody being developed for AD¹

Top line results from foremost Alzheimer prevention trial expected in H1 2022

Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD ¹ treatment						Janssen <small>Research Triangle Institute a Johnson & Johnson</small>
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						Lilly
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						Life Molecular Imaging
		PSP ⁴ diagnostic						
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵					reported H1	Genentech <small>A Member of the Roche Group</small>
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)						
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ⁹)						

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Multiple system atrophy

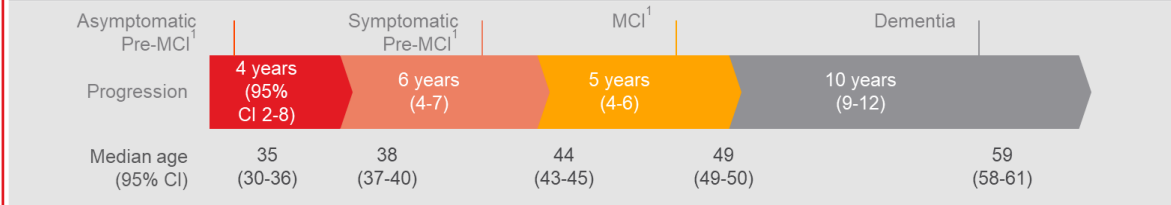
Crenezumab: Alzheimer Prevention Initiative (API-ADAD¹) trial

Landmark Alzheimer prevention trial

Patient population

- Colombian family clan with Paises mutation leading to Abeta accumulation and early onset AD²
- Largest autosomal-dominant AD cohort
- Nearly 100% certainty of disease development due to a PSEN-1³ gene mutation
- Unique opportunity to study prevention and treatment in defined population

Importance of population

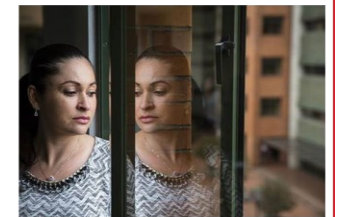


nature
International journal of science

NEWS • 27 MARCH 2018

Pioneering Alzheimer's study in Colombia zeroes in on enigmatic protein

Researchers tracking a genetic mutation that causes an early-onset form of the disease hope to uncover new drug targets.

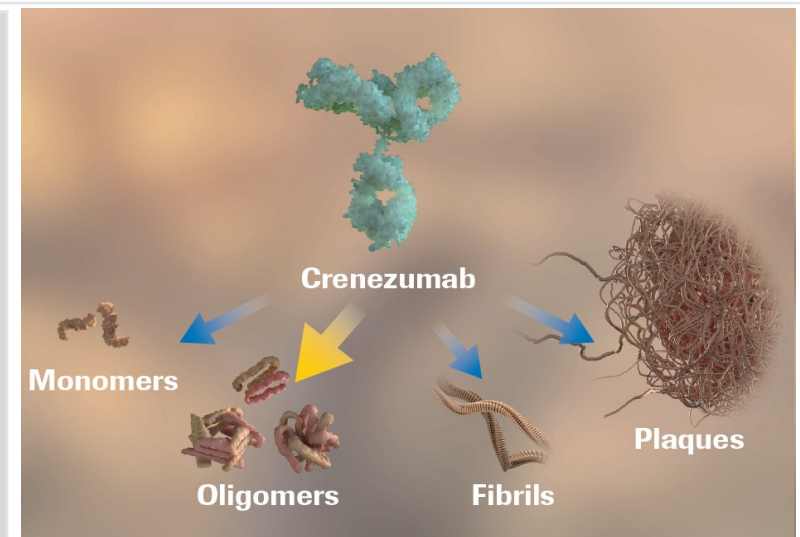


Study design

Phase 2 double-blind, placebo-controlled study

- 252 subjects were enrolled with MMSE $\geq 24^x$ or $>26^y$
- 169 mutation carriers randomized equally (1:1) to crenezumab or placebo; 83 non-carriers received a placebo
- Two primary cognitive endpoints measuring rate of change over at least 260 weeks (and up to approx. 416 weeks);
 - API-ADAD Composite Cognitive Test Total Score
 - Free and Cued Selective Reminding Test (FCSRT)
- Secondary endpoints: Safety, time to MCI⁴; biomarkers (Abeta PET⁵, FDG⁶ PET, Tau PET, CSF⁷, and blood-biomarkers)
- Study started December 2013

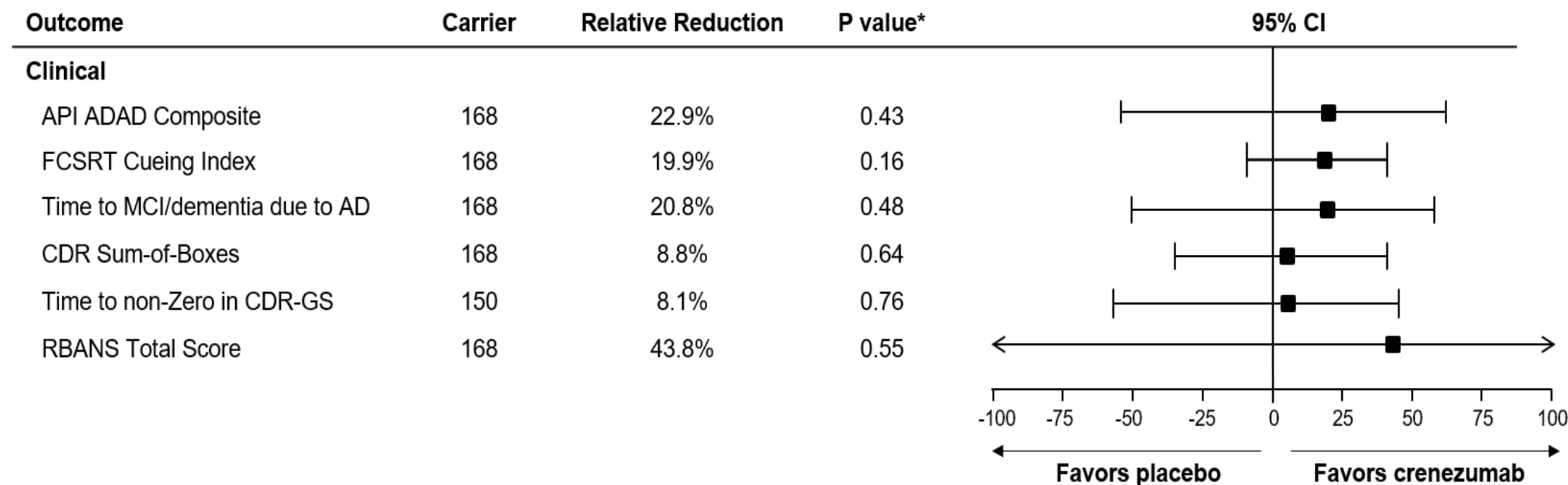
Mechanism targeting Abeta oligomers



Note: X: less than 9 years of education; Y: more than 9 years of education; (1) Alzheimer's Prevention Initiative – Autosomal-Dominant Alzheimer's disease; (2) Alzheimer's disease; (3) Presenilin-1; (4) Mild cognitive impairment; (5) Positron emission tomography; (6) Fluorodeoxyglucose; (7) Cerebrospinal fluid

API¹ study of crenezumab in familial AD²: clinical endpoints

Consistent numerical differences favor crenezumab vs. placebo, but are not statistically significant



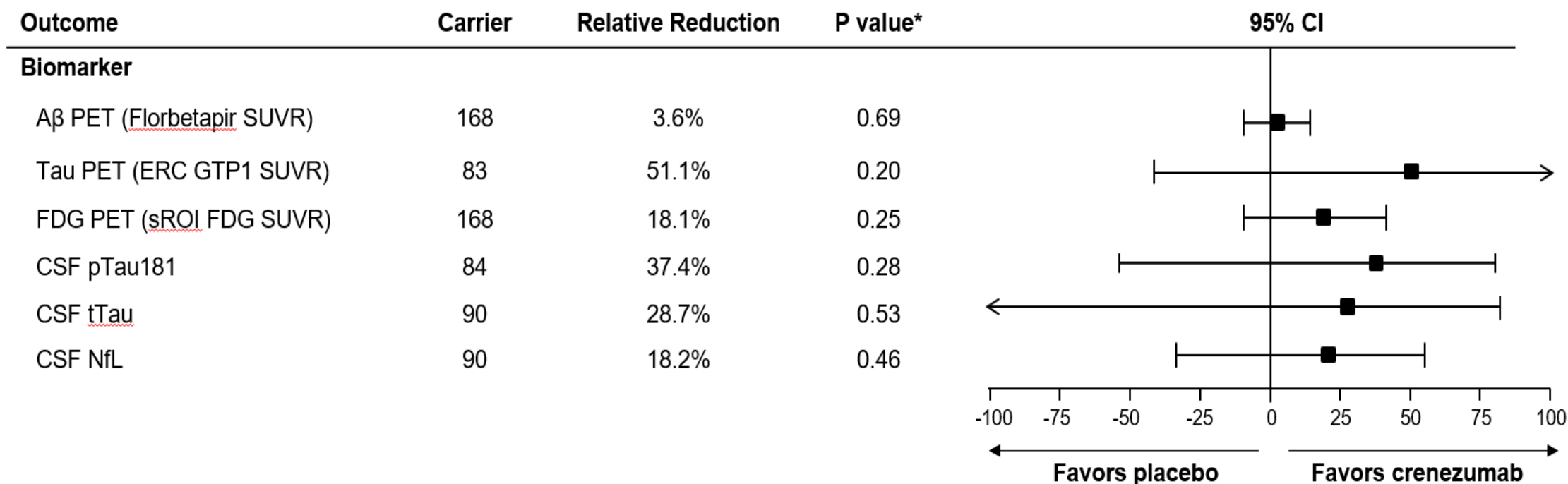
Presented at the 2022 Alzheimer's Association International Conference (AAIC)

■ The consistent direction of changes on all clinical outcomes supports an effect of crenezumab

(1) Alzheimer's Prevention Initiative; (2) Alzheimer's disease

API¹ study of crenezumab in familial AD²: biomarker endpoints

Consistent numerical differences favor crenezumab vs. placebo, but are not statistically significant



Presented at the 2022 Alzheimer's Association International Conference (AAIC)

- Consistent numerical differences on biomarker measures correlate with clinical endpoint observations
- Relative 51.1% reduction in Tau-PET (ERC³) is notable and aligned with all other Tau markers

(1) Alzheimer's Prevention Initiative; (2) Alzheimer's disease; (3) entorhinal cortex

API¹ study evaluating crenezumab in familial AD²

Numerical differences favoring crenezumab vs. placebo observed, which were not statistically significant

1

Crenezumab **did not statistically significantly slow or prevent cognitive decline** in the API study.

2

Numerical differences favoring crenezumab **observed** across co-primary, multiple secondary, and exploratory endpoints.

3

Crenezumab was **generally well tolerated**, with no new safety issues or cases of ARIA-E³ observed

4

Patients from the trial can **continue receiving crenezumab** in a blinded extension of the study while **Roche further analyzes data**.

5

Study had **limited statistical power** to determine if treatment with crenezumab at the optimal dose would have a clinical benefit



THE VANISHING MIND

Alzheimer's Stalks an Extended Family in Colombia

New York Times, June 2010

(1) Alzheimer's Prevention Initiative; (2) Alzheimer's disease; (3) Amyloid-related imaging abnormalities refers to cerebral edema; (4) Alzheimer's Association International Conference









Alpha-synuclein PET tracer

ACI-12589

ACI-12589: a-syn PET tracer

Positive clinical proof-of-concept

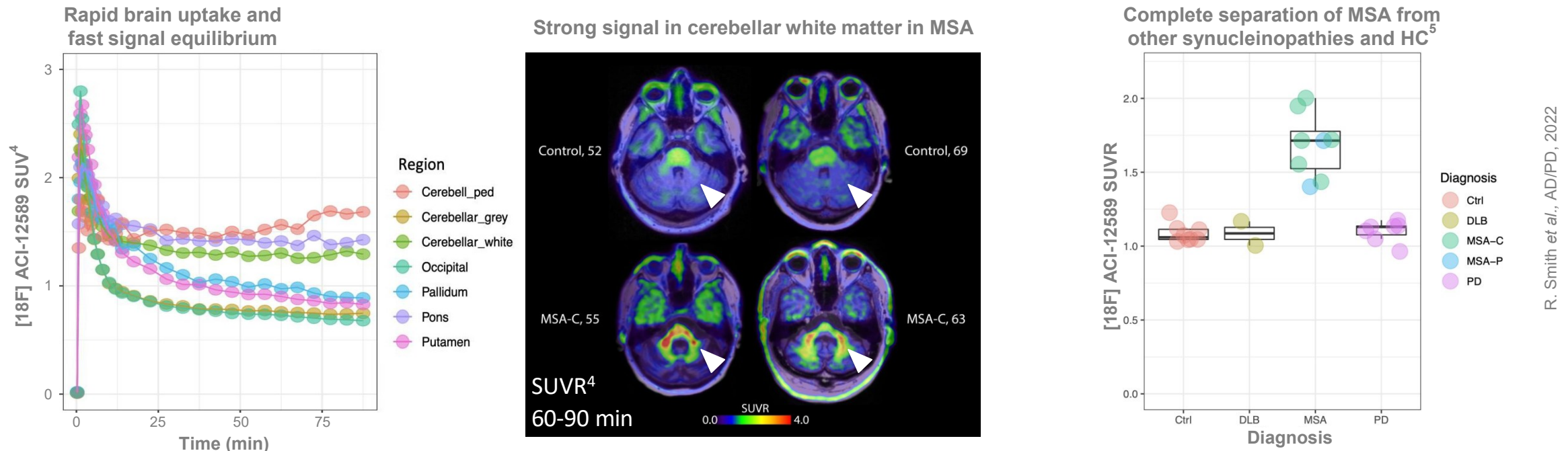
Clinical Stage Programs

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	ACI-35.030 (anti-pTau vaccine)	AD treatment						  <small>A Member of the Roche Group</small>
	Semorinemab (anti-Tau antibody)	AD treatment (mild-to-moderate) ²						
	Morphomer® Tau aggregation inhibitor	Rare Tauopathies (ACI-3024)						
		AD treatment						
	Tau-PET ³ tracer	AD diagnostic						 
		PSP ⁴ diagnostic						
Abeta	Crenezumab (anti-Abeta antibody)	AD prevention ⁵						 <small>A Member of the Roche Group</small>
	ACI-24 (anti-Abeta vaccine)	AD treatment (Down syndrome ⁶)						
		AD treatment						
a-syn ⁷	ACI-7104 (anti-a-syn vaccine)	PD ⁸ , a-synucleinopathies						
	A-syn-PET tracer	a-synucleinopathies (e.g. MSA ⁹)						

(1) Alzheimer's disease; (2) Open label extension study is ongoing; (3) Positron emission tomography; (4) Progressive supranuclear palsy; (5) Prevention trial API-ADAD in Colombia; (6) Down syndrome-related Alzheimer's disease; (7) alpha-synuclein; (8) Parkinson's disease; (9) Multiple system atrophy

ACI-12589 - positive clinical proof-of-concept for an a-syn¹-PET² tracer

First-in-class diagnostic for MSA³ and monitoring a-syn drug target engagement



R. Smith et al., AD/PD, 2022

(1) alpha-synuclein; (2) Positron emission tomography; (3) Multiple system atrophy; (4) Standardized uptake value; (5) Healthy controls; (6) Monoamine oxidase B; (7) Parkinson's disease

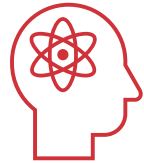
Clinical catalysts to drive further value creation

Seven clinical data readouts expected in 2022

2022				
		H1	H2	
Tau	ACI-35.030 (anti-pTau vaccine)	✓		Phase 1b/2a interim analysis (highest dose) of ACI-35.030
			●	Decision to enter into late-stage development
	Semorinemab (anti-Tau antibody)		●	Report new Phase 2 Lauriet data (biomarkers)
	Tau-PET ¹ Tracer (PI-2620)		●	Clinical PET study readout in orphan indication
			✓	Phase 2 results in AD ²
Abeta	ACI-24.060 (anti-Abeta vaccine)	✓		Phase 1b/2 First-Patient-In (AD)
			●	Phase 1b in AD readout and decision to move into DS ³
	Crenezumab (anti-Abeta antibody)	✓		Top line results of Phase 2 Alzheimer's prevention trial
a-syn ⁴	ACI-7104 (anti-a-syn vaccine)		●	Phase 2 First-Patient-In
	a-syn-PET tracer	✓		First clinical proof of concept in alpha-synucleinopathies (e.g. MSA ⁵)

(1) Positron emission tomography; (2) Alzheimer's disease; (3) Down syndrome-related AD; (4) alpha-synuclein; (5) Multiple system atrophy

Acceleration of value creation in 2022 and beyond



Leading with Science

First- or best-in-class candidates



Precision Medicine

Developing integrated diagnostics and therapeutics for single or combination therapies



Enabling Platforms

Fuel development pipeline & create growth opportunities



Execution Strategy

Partnerships for late-stage AD¹ assets; retain program lead until Ph 3 or further in other programs




Financial Strength

Substantial partnership revenues & vision to become a fully integrated commercial company

Advancing world-class science to develop breakthrough therapies for neurodegenerative diseases

(1) Alzheimer's disease

AC Immune: pioneering science and precision medicine



Shifting the treatment paradigm¹ for
neurodegenerative disease towards
precision medicine and disease prevention

(1) By pairing cutting-edge diagnostics with highly selective therapeutic agents










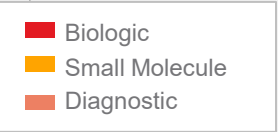
Supplementary information

Broad and robust pipeline in neurodegenerative diseases

Diversification into non-AD¹ and non-CNS² diseases

Novel Targets Pipeline

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2
a-synuclein (a-syn)	Anti-a-syn antibody	PD, NeuroOrphan				
	Morphomer® a-syn (a-syn inhibitor)	PD, a-synucleinopathies				
TDP-43	Anti-TDP-43 ⁵ antibody	LATE ⁶ , NeuroOrphan				
	TDP-43-PET tracer	TDP-43-opathies				
Inflammasome	Anti-NLRP3 ⁷ -ASC ⁸ antibody	NeuroOrphan				
	Morphomer® NLRP3-ASC	Non-CNS				
	Morphomer® NLRP3-ASC	NeuroOrphan; non-CNS				



■ Biologic
■ Small Molecule
■ Diagnostic

(1) Alzheimer's disease; (2) Central nervous system; (3) Parkinson's disease; (4) Positron emission tomography; (5) TAR DNA-binding protein 43; (6) Limbic-predominant age-related TDP-43 encephalopathy; (7) (NOD)-like receptor protein 3; (8) Apoptosis-associated speck-like protein containing a CARD, also PYCARD