

### **Investor Update**

NASDAQ: ACIU | Investor Presentation - March 2024



Version: 14.03.2024

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### AC Immune at a glance

Pioneering new ways to treat neurodegenerative diseases



#### Broad, diverse pipeline – 16 programs

1 Phase 3 program and 5 in Phase 2



Key differentiation: Precision Medicine Integrates therapeutics and diagnostics



#### Multiple global partnerships

>CHF 2.5 billion in potential milestones



#### Clinically validated technology platforms

Best-in-class small molecules and biologics



#### Cash reserves on Balance sheet

Funding into 2026<sup>3</sup>



- Based in Lausanne, Switzerland
- ~150 employees
- Listed September 2016 (NASDAQ: ACIU)
- 98.8 million shares outstanding¹
- Cash of CHF103 million<sup>2</sup>
  plus CHF15 million milestone (received Feb 1, 2024)

(1) As of December 31, 2023; excluding treasury shares; (2) as of December 31, 2023; (3) assumes second ACI-35-related milestone payment of CHF25 million received in 2025 and no other milestones



### Neurodegenerative diseases represent a large and growing market

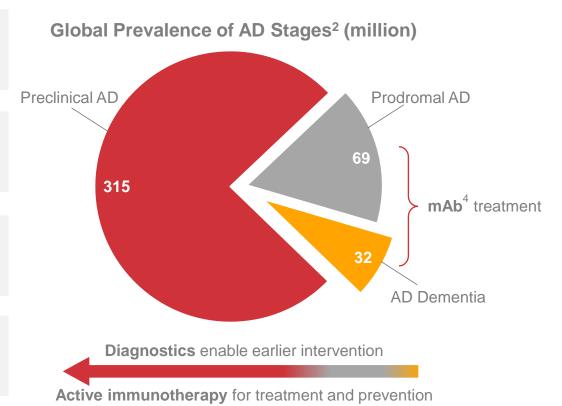
Prevention the best avenue to long-term preservation of cognition and function.

>\$1 Trillion global annual cost of dementia1

>90 million with Alzheimer's disease globally<sup>2</sup>

>300 million with preclinical AD3 at risk of disease

>400 million people addressable by active immunotherapy



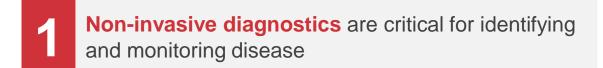
- AD prevention through combination of earlier diagnosis with early active immunotherapy
- Global disease prevention market potentially over 300 million people

(1) Alzheimer's Disease International 2019; (2) Gustavsson et al. Alzheimer's and Dement. 2023 19:658-670. https://doi.org/10.1002/alz.12694; (3) Alzheimer's disease; (4) Monoclonal antibody

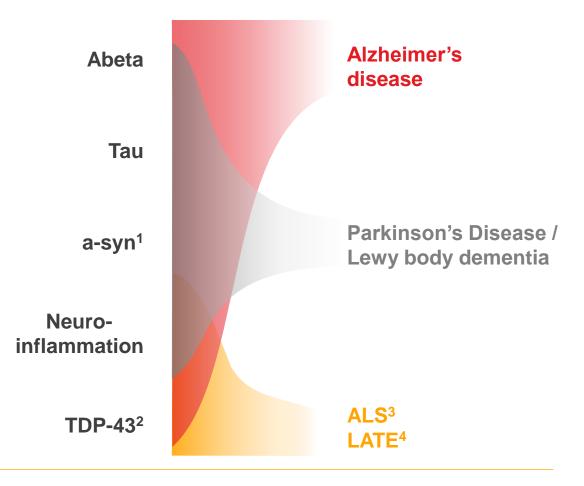


### Successfully treating neurodegeneration requires precision medicine

From a mono- to a multi-target combination approach



- Earlier, more reliable diagnosis may eventually lead to disease prevention
- Different therapies at different stages
- Patients selected and treated according to their underlying pathologies
- 5 Combination therapy may be required



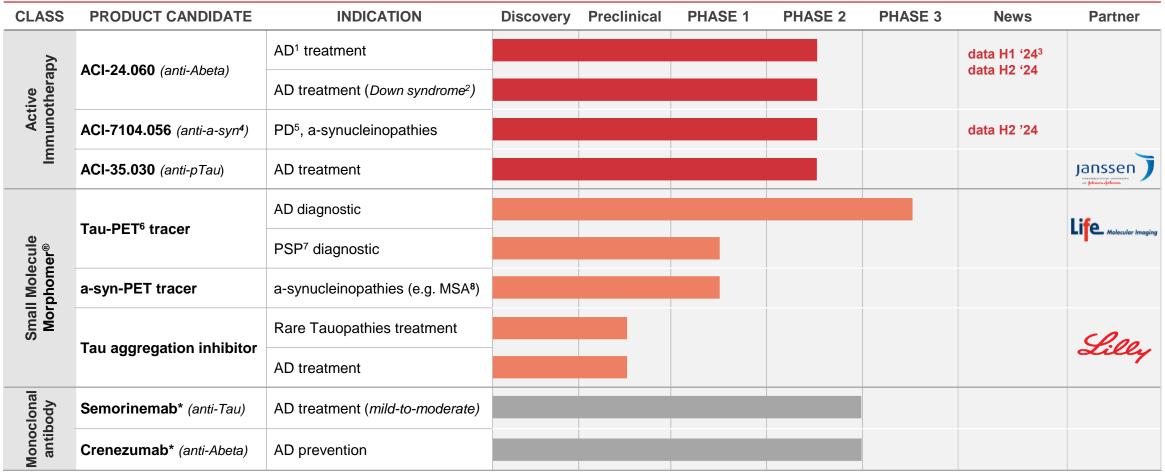
Treating the right proteinopathies, in the right patient, at the right time

(1) alpha-synuclein; (2) TAR DNA-binding protein 43; (3) Amyotrophic lateral sclerosis; (4) Limbic-predominant age-related TDP-43 encephalopathy

### Broad and robust pipeline in neurodegenerative diseases

Driven by validated proprietary technology platforms for sustained growth

#### **Clinical Stage Programs**



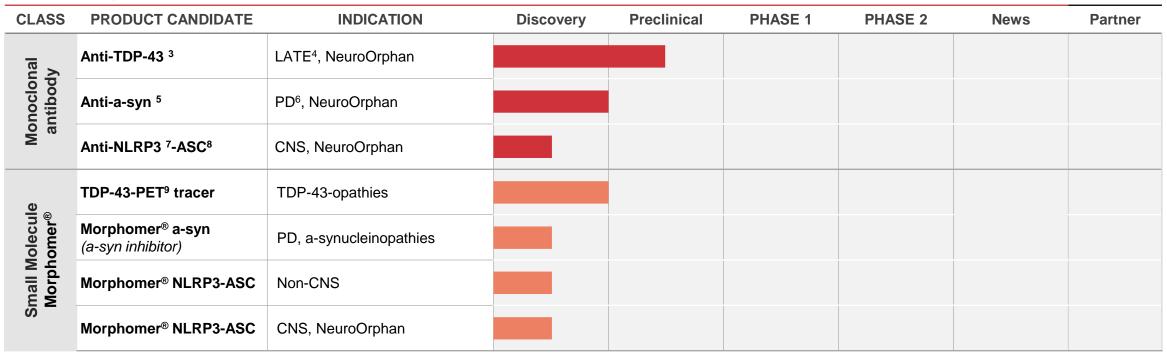
<sup>(1)</sup> Alzheimer's disease; (2) Down syndrome-related Alzheimer's disease; (3) Refers to expected readouts from the ABATE Phase 1b/2 trial of ACI-24.060 in patients with AD; (4) alpha-synuclein; (5) Parkinson's disease; (6) Positron emission tomography; (7) Progressive supranuclear palsy; (8) Multiple system atrophy; \* licensed to Genentech (a member of the Roche Group) until April 19, 2024



### Broad and robust pipeline in neurodegenerative diseases

Diversification into non-AD<sup>1</sup> and non-CNS<sup>2</sup> diseases

#### **Novel Targets Pipeline**



<sup>(1)</sup> Alzheimer's disease; (2) Central nervous system; (3) TAR DNA-binding protein 43; (4) Limbic-predominant age-related TDP-43 encephalopathy; (5) alpha-synuclein; (6) Parkinson's disease; (7) (NOD)-like receptor protein 3; (8) Apoptosis-associated speck-like protein containing a CARD, also PYCARD; (9) Positron emission tomography



### AC Immune financial position

Value-driven cash management



Year end cash of CHF 103 million<sup>1</sup>

Plus CHF 15 million milestone received Feb 1, 2024



2024 annual cash burn guidance

CHF 65m - 75m



Cash runway<sup>2</sup>

Into Q1 2026, capturing multiple clinical catalysts

Prudent
investment
strategy focused
on major value
drivers and nearterm catalysts

(1) Cash at December 31, 2023; (2) Assumes second ACI-35.030 milestone payment of CHF 25m received in 2025, no other milestones or deals included.



### Key milestones for value creation in 2024

#### Multiple catalysts across pipeline

Clinical readouts
Other development events

Active immunotherapies		H1	H2			
				ABATE: Initial 6-month amyloid plaque data in AD <sup>1</sup> (PET <sup>2</sup> imaging)		
ACI-24.060	Abeta			ABATE: Interim DS <sup>3</sup> data on safety and immunogenicity	Amyloid-PET Ded	
				ABATE: 12-month amyloid plaque data in AD (PET imaging)	Amyloid-PET Dat in H1 and H2 2024	
ACI-35.030 (Janssen)	pTau	0		First Patient In Phase 2b clinical trial (ReTain)		
ACI-7104.056	a-syn <sup>4</sup>			Interim safety and immunogenicity Phase 2 VacSYn clinical trial in PD <sup>5</sup>		
Monoclonal antibodies and	small molecule dru	ıgs				
Monoclonal antibody	TDP-43 <sup>6</sup>	0		Completion of regulatory tox studies		
Morphomer-NLRP3	NLRP3 <sup>7</sup>		0	Clinical candidate declaration		
Morphomer-a-syn	a-syn		0	Lead candidate declaration		
Diagnostics						
TDP-43-PET tracer	TDP-43	0		CTA <sup>8</sup> submission		
TDP-43-PET tracer	TDP-43		0	Phase 1 initiation		
a-syn-PET tracer (ACI-15916)	a-syn		0	PD candidate, IND9-enabling studies completed		

<sup>(1)</sup> Alzheimer's disease; (2) Positron emission tomography; (3) Down syndrome; (4) alpha-synuclein; (5) Parkinson's disease; (6) TAR DNA-binding protein 43; (7) (NOD)-like receptor protein; (8) Clinical trial application; (9) Investigational new drug





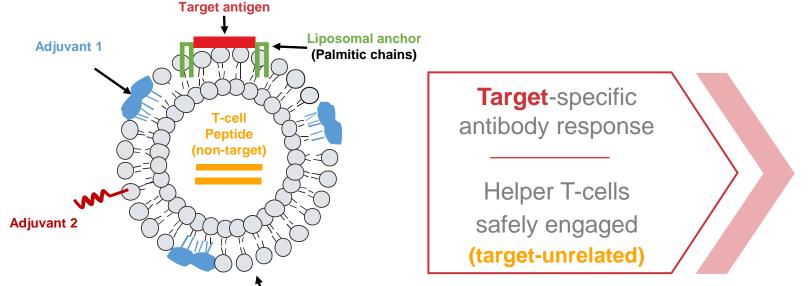


targeting neurodegenerative diseases



### Disruptive potential of SupraAntigen®

Active immunotherapies delivering superior results in neurodegenerative diseases



# **Unprecedented Clinical Performance**

Immunogenicity	~
Target & conformation specificity	<b>~</b>
Avidity increase over time	~
Sustainable response	~
Boostable response	<b>~</b>



■ Evidence for lasting immune response supporting a disease prevention approach

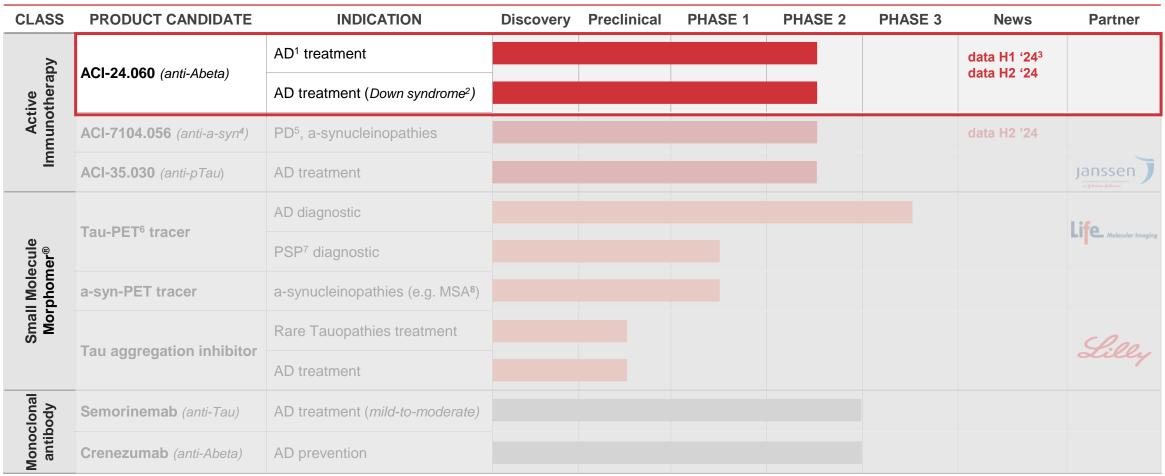
For ACI-35.030: (1) 100% response after 1st injection; (2) Increases over time

Liposomal bilayer (Cholesterol and phospholipids)

### ACI-24.060: Active immunotherapy to clear Abeta plaques to treat AD1

ACI-24.060 targets pyroGlu- and oligomeric Abeta, which are believed to drive AD progression

#### **Clinical Stage Programs**



<sup>(1)</sup> Alzheimer's disease; (2) Down syndrome-related Alzheimer's disease; (3) Refers to expected readouts from the ABATE Phase 1b/2 trial of ACI-24.060 in patients with AD; (4) alpha-synuclein; (5) Parkinson's disease; (6) Positron emission tomography; (7) Progressive supranuclear palsy; (8) Multiple system atrophy



# ABATE: Biomarker-based Phase 1b/2 study of ACI-24.060 in AD¹ and DS²

#### Placebo-controlled Phase 1b/2 Study Overview

#### **Trial Schematic**

#### **Adaptive Study Design**

Both

- Interim analyses of safety/tolerability & immunogenicity
- Biomarker analyses including Abeta PET<sup>3</sup> and others

AD

- Up to 4 different doses and/or dose regimens
- Expansion of one cohort to assess effect on Abeta PET

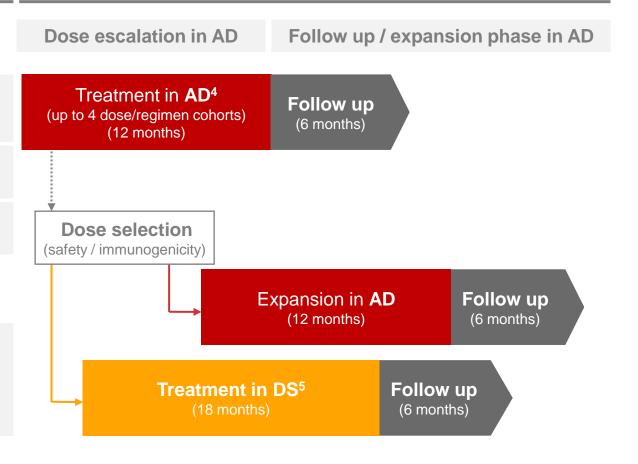
DS

 Initiation using selected dose identified in AD (based on safety/tolerability and immunogenicity)

#### **Outcome measures**

Soth

- Safety/tolerability
- Pharmacodynamics: Serum anti-Abeta antibody titers
- Abeta-PET imaging
- Exploratory biomarkers and clinical endpoints

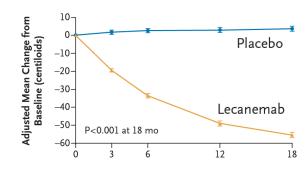


(1) Alzheimer's disease; (2) Down syndrome-related AD; (3) Positron emission tomography; (4) AD participants must between 50 – 85 years of age and have prodromal AD with Clinical Dementia Rating Global Score of 0.5 and Abeta pathology confirmed by PET scan; (5) Cohort comprised of non-demented people living with DS (age 35 – 50 years) and Abeta pathology confirmed by PET scan

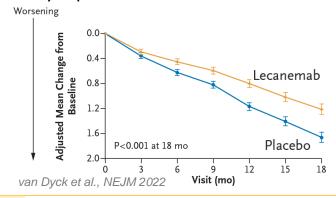
### Lowering Amyloid PET<sup>1</sup> is a valid biomarker for clinical effect

Lecanemab & donanemab trials established PET imaging as surrogate for clinical effect

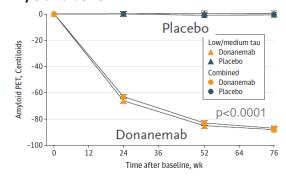
#### **Amyloid Burden on PET**



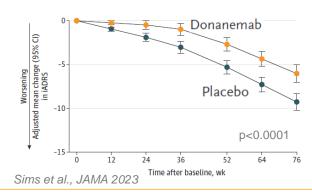
#### Primary endpoint: CDR-SB<sup>2</sup>



#### **Amyloid Burden on PET**



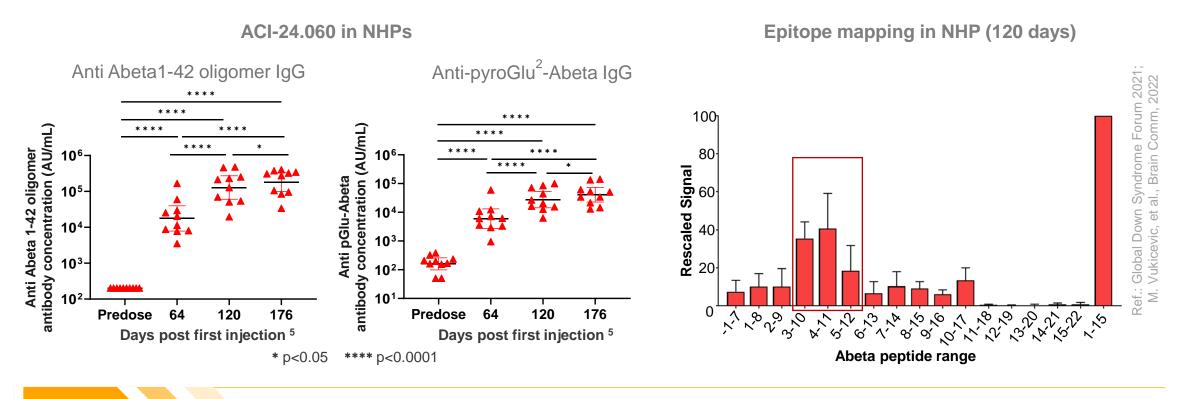
#### Primary endpoint: iADRS<sup>3</sup>



- Targeting soluble oligomers and pyroglutamate (N3pG) has demonstrated clinical utility
- Reductions in Abeta plaques can be detected as early as 3 months after the start of treatment

### ACI-24.060: Potent immune response against toxic Abeta species

Strong antibody response against targets of lecanemab and donanemab (NHP¹)

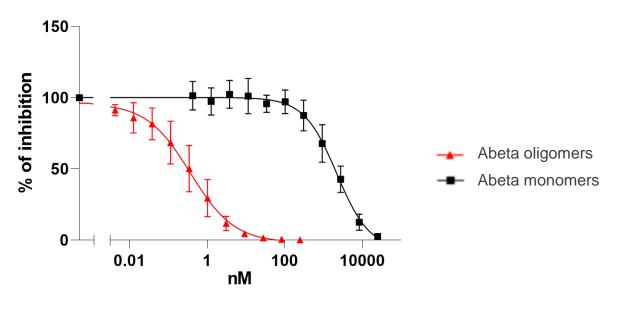


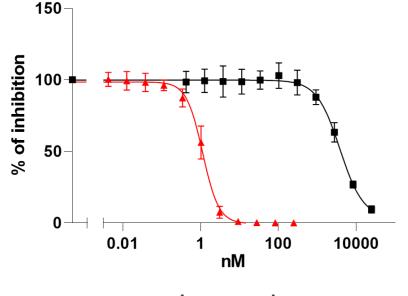
- Sustained, boostable IgG response against Abeta oligomers<sup>3</sup> and pyroglutamate<sup>4</sup> Abeta
- ACI-24.060 represents a potential breakthrough compared to previous anti-Abeta therapeutics



### ACI-24.060: antibodies highly specific for pathologic oligomeric Abeta

Antibodies in NHP¹ immune sera have >1000-fold preference for oligomers over monomers





NHP immunized with ACI-24.060

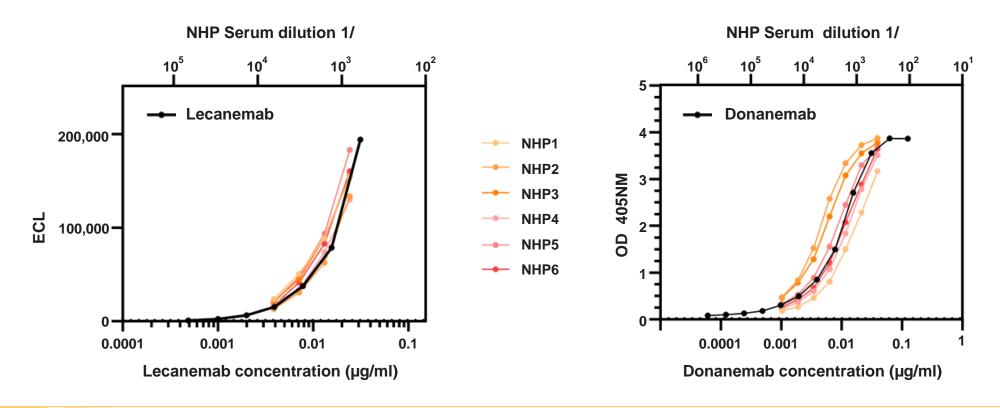
Lecanemab

■ ACI-24.060 induced antibodies in NHPs: >1000-fold stronger recognition of Abeta oligomers than monomers, similar to lecanemab

(1) Non-human primates

### ACI-24.060 generates antibodies highly specific for pathologic Abeta species

Antibodies in NHP<sup>1</sup> immune sera similar specific activity to lecanemab and donanemab



Immunization of NHPs with ACI-24.060 generates IgGs in quantities which recognize:

- Abeta oligomers equivalent to the range of 18 26 μg/mL of lecanemab
- pyroglu-Abeta equivalent to in the range of 11 48 μg/mL of donanemab

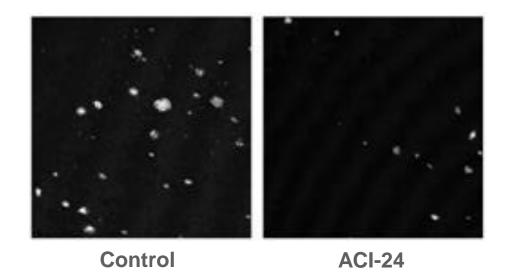




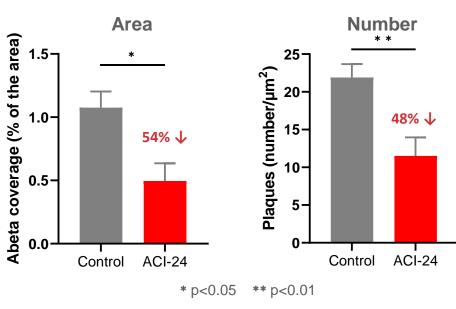
### ACI-24 active immunotherapy reduces Abeta plaque burden

Significant Abeta plaque reduction in vivo in preclinical APPxPS1 model<sup>1</sup>

# Abeta Plaque Staining in Control and ACI-24-treated Mice



#### **Quantification of Abeta Plaques**



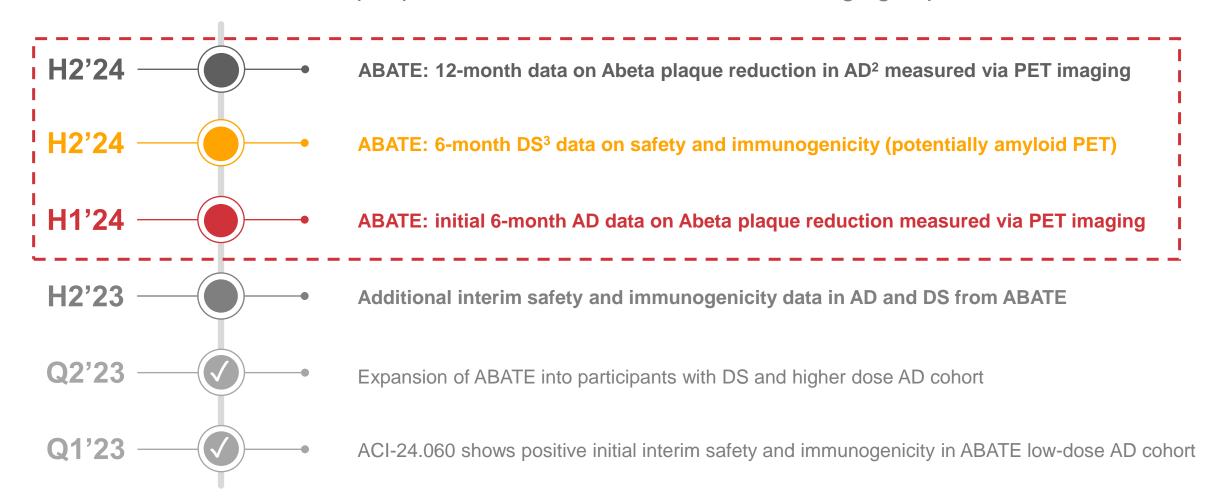
Ref: Njavro, et al., Cells 2023

- ACI-24 treatment significantly reduces Abeta plaque burden in aggressive APPxPS1 model
- Similar plaque reductions seen with lecanemab and donanemab in less aggressive APP models

(1) Alzheimer's disease mouse model: APPxPS-1 double transgenic mice; (2) Alzheimer's disease; (3) Antibodies

### ACI-24.060 program: Anticipated milestones

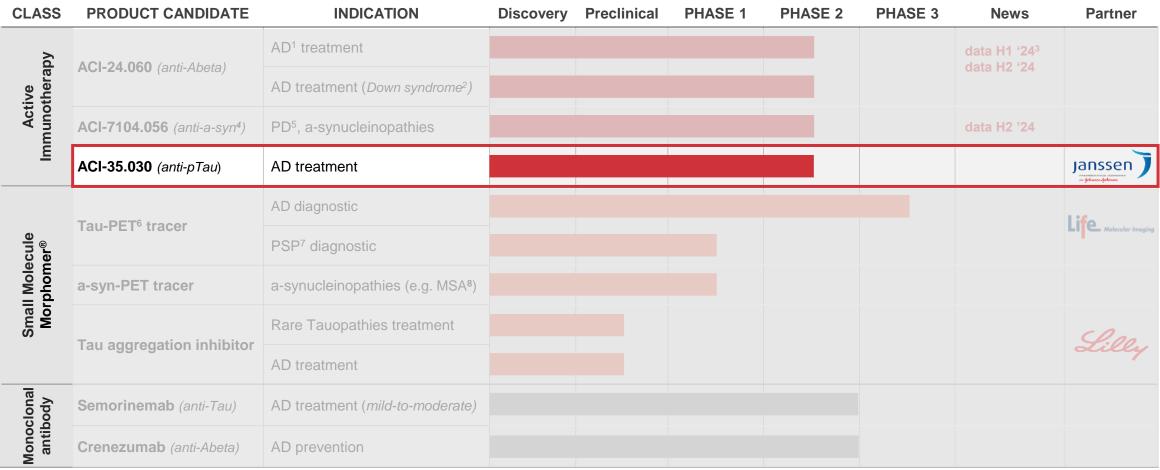
ABATE Ph 1b/2 trial: Abeta plaque reduction measured via PET1 imaging expected in H1 2024



### ACI-35.030: Anti-pTau active immunotherapy developed for preclinical AD1

#### Phase 2b ReTain trial in preclinical AD

#### **Clinical Stage Programs**

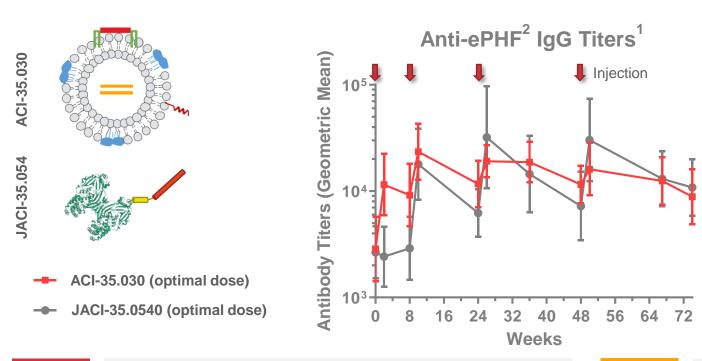


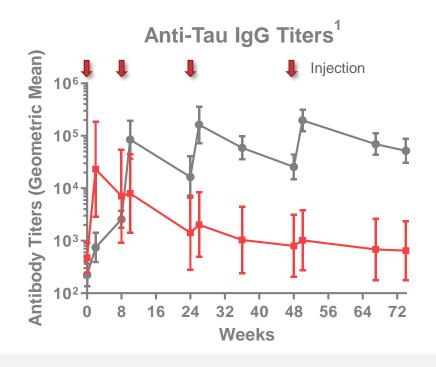
<sup>(1)</sup> Alzheimer's disease; (2) Down syndrome-related Alzheimer's disease; (3) Refers to expected readouts from the ABATE Phase 1b/2 trial of ACI-24.060 in patients with AD; (4) alpha-synuclein; (5) Parkinson's disease; (6) Positron emission tomography; (7) Progressive supranuclear palsy; (8) Multiple system atrophy



### ACI-35.030 selected for further development by partner Janssen

Follows data showing ACI-35.030's superior specificity for pathological Tau vs. JACI-35.054





- 1
- JACI-35.054 is a protein conjugate active immunotherapy utilizing the same pTau<sup>3</sup> epitope as ACI-35.030
- 4

2

ACI-35.050 and JACI-35.054 were evaluated in parallel in the Phase 1b/2a trial in AD<sup>4</sup> patients

ACI-35.030 induced Ab<sup>5</sup> responses in 100% of patients after 1<sup>st</sup> injection compared to 50% with JACI-35.054

ACI-35.030-induced anti-ePHF Abs: longer apparent half-lives, less variability, lower peak-to-trough ratios

(1) ACI-35.030 original sub-cohort 1.2 data; (2) Enriched paired helical filaments; (3) Phosphorylated Tau; (4) Alzheimer's disease; (5) Antibody

### Reτain: a Phase 2b study of ACI-35.030 in preclinical AD1

A randomized, multicenter, double-blind, placebo-controlled Phase 2b study

#### **Study population**

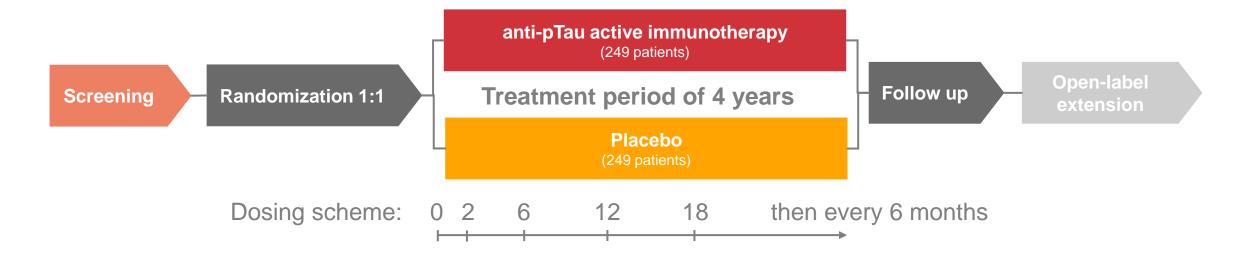
- ~500 participants with preclinical AD:
  - Cognitively normal
  - Tau PET positive
  - Amyloid positive<sup>2</sup>
- Prior to appearance of clinical symptoms

#### **Biomarker readouts**

- Tau pathology compared with placebo:
  - Tau-PET imaging<sup>3</sup>
  - Baseline and annually for 4 years
- Potential BLA filing and accelerated approval

#### **Primary cognitive endpoint**

- Preclinical AD Cognitive Composite 5<sup>4</sup>:
  - Episodic memory
  - Timed executive function
  - Global cognition
- Potential traditional approval



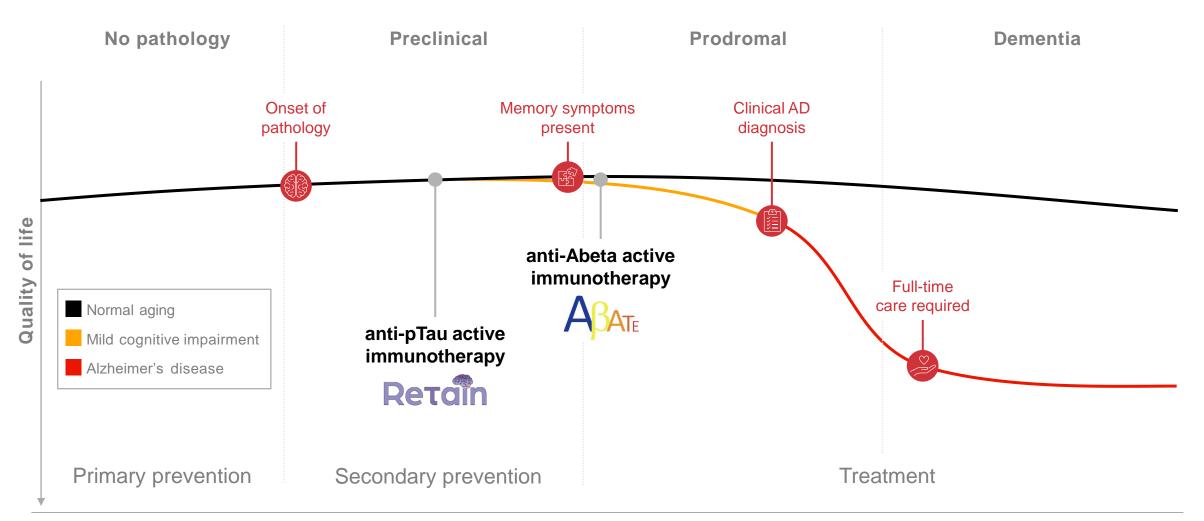
(1) Alzheimer's disease; (2) Implied Abeta positivity (A+) because of Tau positivity (T+), but not part of the inclusion criteria; (3) Tau-PET measured in the Tau-naïve composite region; (4) PACC-5



### Modifying the course of Alzheimer's disease...



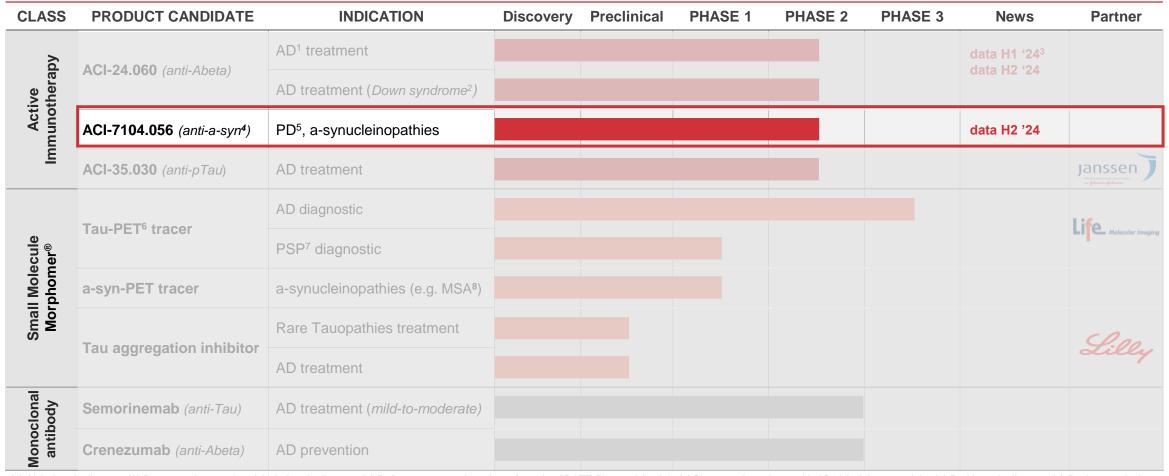
...from slowing progression to prevention



### ACI-7104: Anti-a-syn<sup>1</sup> active immunotherapy for Parkinson's disease

#### Update on Phase 2 VacSYn trial in H2

#### **Clinical Stage Programs**



<sup>(1)</sup> Alzheimer's disease; (2) Down syndrome-related Alzheimer's disease; (3) Refers to expected readouts from the ABATE Phase 1b/2 trial of ACI-24.060 in patients with AD; (4) alpha-synuclein; (5) Parkinson's disease; (6) Positron emission tomography; (7) Progressive supranuclear palsy; (8) Multiple system atrophy

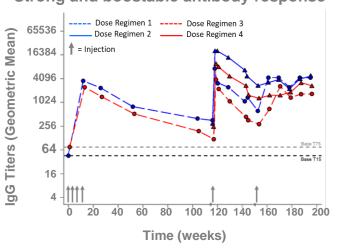


# Clinically validated<sup>1</sup> anti-a-syn<sup>2</sup> active immunotherapy in PD<sup>3</sup>

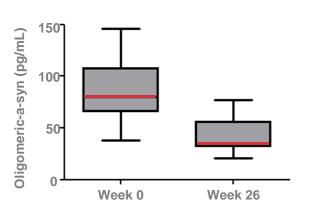
Phase 1 results in *The Lancet Neurology* support best-in-class profile

# THE LANCET Neurology

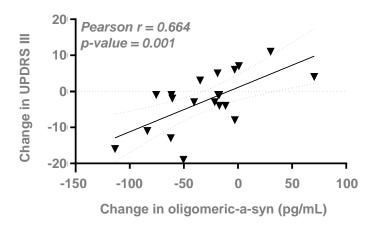




50% reduction<sup>4</sup> of pathological a-syn in CSF<sup>5</sup>



Changes<sup>6</sup> in oligo-a-syn and UPDRS III correlate



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



Signal of clinical efficacy: stabilization of UPDRS<sup>7</sup> III scores correlated with reductions in oligomeric a-syn

(1) Volc et al., Lancet Neurol. 2020; (2) alpha-synuclein; (3) Parkinson's disease; (4) Data from 75 µg dose group; (5) Cerebrospinal fluid; (6) Change in oligomeric a-syn calculated at week 26, change in UPDRS III calculated at week 100; (7) Unified Parkinson's Disease Rating Scale

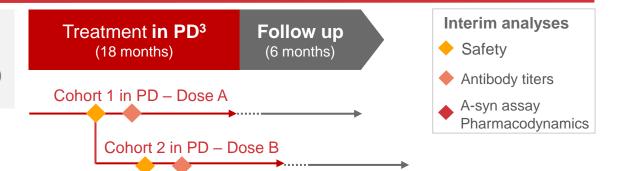
# VacSYn: an adaptive biomarker-based Phase 2 study of ACI-7104 in early PD1

#### Placebo-controlled Phase 2 Study Overview

- Seamless transition
  - All participants from Part 1 will contribute to final analysis
- Biomarker based interim analyses
  - Early immunogenicity to tailor dose and/or dose regimen
  - Apply disease-relevant biomarkers for early transition to filing

#### Part 1: Safety & PK/PD<sup>2</sup>

- Key immunogenicity measures
- Measures of pathological a-syn<sup>4</sup> (a-syn oligomers and aggregates)



#### Part 2: PoC<sup>5</sup> in early PD

- Motor and Non-Motor Functioning (UPDRS<sup>6</sup> based)
- Degeneration of dopaminergic terminals (DaT SPECT<sup>7</sup> imaging)
- Advanced MRI (including ASL<sup>8</sup> and DTI<sup>9</sup>)
- Digital biomarkers of motor and non-motor function
- Functional and patient reported outcomes

Expansion cohort (up to 150 subjects)
Dose previously tested in Part 1

Treatment in PD
(18 months)

Follow up
(6 months)

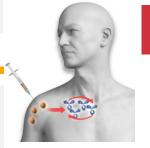
(1) Parkinson's disease; (2) Pharmacokinetics and Pharmacodynamics; (3) Participants must have idiopathic PD and be stable on up to 300 mg of L-Dopa treatment and dopaminergic deficit determined by Dopamine Transporter Single Photon Emission Computed Tomography; (4) alpha-synuclein; (5) Proof-of-concept; (6) Unified Parkinson's disease rating scale; (7) Dopamine Transporter Single Photon Emission Computed Tomography; (8) Arterial spin labeling; (9) Diffusion tensor imaging



### Active immunotherapy: clear advantages for long-term use

Provides opportunity to prevent AND treat neurodegenerative diseases globally





**Active immunotherapy** 

Vaccines stimulate the patient's immune system to produce antibodies

- Long-lasting specific immunity for pathological target, consistent, boostable, durable
- Limited annual dosing (once or twice) after priming year
- No observed ARIA-E<sup>1</sup> to date (safety profile well suited to long-term use)
- Cost-effective (attractive healthcare economics across global populations)
- ✓ Improved access (ease of administration, simple logistics)

Passive immunotherapy

Externally generated monoclonal antibodies require administration every two to four weeks

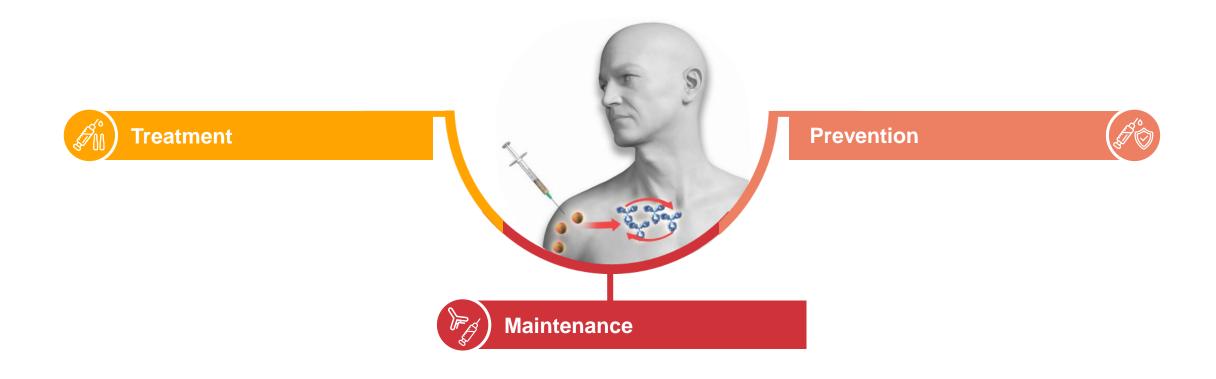


Active immunotherapy is potentially the only option for global prevention of NDDs<sup>2</sup>

(1) Amyloid-related imaging abnormalities; (2) Neurodegenerative diseases

#### Active immunotherapy: a new class of treatment for neurodegenerative disease

Potential for profound social and economic impact



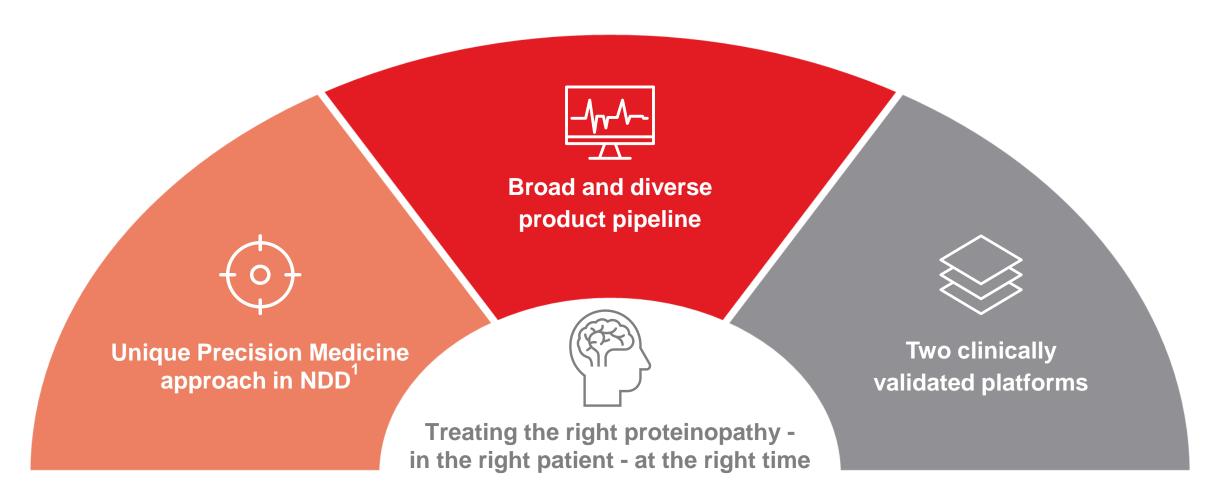


for global treatment and prevention of neurodegenerative diseases



# Today's strengths predict future success

Precision Medicine for mono- and combination therapy





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### AC Immune: Pioneering science and precision medicine

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





Supplementary information

### External validation and cash generated by 5 partnering<sup>1</sup> deals

Managing risk and retaining significant upside

Р	roduct	Dev. phase	Total value <sup>2</sup>	Upfront <sup>2</sup>	Milestones received to date <sup>2</sup>	Royalties	Partners
	enezumab peta antibody)	Phase 2	USD 65 <sup>3</sup>	USD 25	USD 40		*
77	norinemab au antibody)	Phase 2	CHF 59 <sup>3</sup>	CHF 17	CHF 42		*
(anti-	CI-35.030 pTau active unotherapy)	Phase 1b/2a	CHF 500	CHF 26	CHF 20	Low-double digits to mid-teens	Janssen PRESENCE CONSUMER OF SCHOOL SPRINGER
Tau PET	imaging agent	Phase 3 <sup>5</sup>	EUR 160	EUR 0.5	EUR 7	Mid-single digits to low-teens	Life Molecular Imaging
	florphomer® Il molecules	Phase 1 <sup>6</sup>	CHF 1,860	CHF 80 +USD 50 <sup>7</sup>	CHF 40	Low-double digits to mid-teens	Lilly
Total	(millions) <sup>8</sup>		CHF ~2,600	CHF 155.2 <sup>9</sup>	CHF 147.4		

■ Outstanding potential milestone payments exceed CHF ~2.5 billion

<sup>(1)</sup> Disclosure limited due to confidentiality agreements with collaboration partners; (2) In millions; (3) Total payments received from partner until termination of agreement; (4) Positron emission tomography; (5) In Alzheimer's disease; (6) Phase 1 completed; (7) Equity investment; (8) Converted to CHF on date of receipt; (9) Excludes convertible note agreement of USD 50 million; \* licensed to Genentech (a member of the Roche Group) until April 19, 2024