PIONEERING PRECISION MEDICINE

TARGETED THERAPEUTICS FOR NEURODEGENERATIVE DISEASES

Corporate presentation

NASDAQ: ACIU | December 2024



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AC Immune today – an overview

Pioneering next generation Precision Medicine for neurodegenerative diseases



Diverse and balanced pipeline with a large number of wholly-owned assets



Key differentiation: Precision Medicine

Enabled by leadership in Active Immunotherapy



New breakthroughs, e.g. morADC³: our platforms have repeatedly created potentially transformative innovations



Partnering: strategic, risk-mitigating, timely, monetization with >CHF 4 billion in potential milestones



Cash reserves on Balance sheet Funding into 2027

- Based in Lausanne, Switzerland
- ~150 employees
- Listed September 2016 (NASDAQ: ACIU)
- 100 million shares outstanding¹
- Cash of CHF 182.5 million²



(1) As of Sep 30, 2024, 99.986 million shares outstanding; excluding treasury shares; (2) including CHF157.9 million as of Sep 30, 2024 and CHF24.6 m milestone payment received from J&J mid-October; (3) Morphomer-antibody drug conjugate



Neurodegenerative diseases

Prevention as the best approach to long-term preservation of neurological health



AD prevention through combination of advanced diagnosis and early active immunotherapy
 Global disease prevention market potentially over 300 million people

(1) Alzheimer's disease; (2) Gustavsson et al. Alzheimer's and Dement. 2023 19:658-670. <u>https://doi.org/10.1002/alz.12694;</u> (3) Monoclonal antibody; (4) Neurodegenerative disease; (5) alpha-synuclein; (6) TAR DNA-binding protein 43; (7) Amyotrophic lateral sclerosis; (8) Limbic-predominant age-related TDP-43 encephalopathy



Diverse and balanced pipeline in neurodegenerative diseases

Driven by validated proprietary technology platforms for sustained growth

	Indication	Candidate	Partner	Modality	Discovery	Preclinical	Phase 1	Phase 2	Phase 3
/-owned	Parkinson's disease	ACI-7104.056		anti-a-syn ¹ active immunotherapy					
		Morphomer [®] a-syn		anti-a-syn small molecule					
	Neuro- inflammation	ACI-19764		anti-NLRP3 ³ small molecule inhibitor					
		Anti-NLRP3-ASC ⁴		anti-ASC monoclonal antibody					
≥ 	ALS ⁵	ACI-5891.9		anti-TDP-43 ⁶ monoclonal antibody					
	NDDs ⁷	morADC		Morphomer-antibody drug conjugate					
Partnered —	Alzheimer's disease	ACI-24.060	Takeda	anti-Abeta active immunotherapy	AD ⁸		FDA Fast	Frack	
					DS ⁹				
		ACI-35.030	Janssen 	anti-pTau active immunotherapy			FDA Fast	Frack	
		Morphomer Tau	Lilly	anti-Tau small molecule inhibitor					

small molecule

(1) alpha-synuclein; (2) Parkinson's disease; (3) (NOD)-like receptor protein 3; (4) Apoptosis-associated speck-like protein containing a CARD, also PYCARD; (5) Amyotrophic lateral sclerosis; (6) TAR DNAbinding protein 43; (7) Neurodegenerative diseases; (8) Alzheimer's disease; (9) Down syndrome



Key milestones

Multiple catalysts across pipeline including selected 2025 milestones

Readouts

Other development events

Active immunotherapies			H2'24	2025				
	Abeta		\bigcirc		ABATE Phase 2 trial to complete enrolment of cohort 3 in AD ¹			
ACI-24.060 (Takeda)					ABATE: First DS ² data on safety and immunogenicity			
					ABATE Phase 2 trial: interim results (AD; DS)			
ACI-35.030 (Janssen)	pTau		\bigotimes		First patient in Phase 2b clinical trial (ReTain)			
			\bigcirc		Phase 2 VacSYn trial in PD ⁴ : Part 1 interim safety and immunogenicity			
ACI-7104.056	a-syn ³				Phase 2 VacSYn trial in PD: Part 1 interim results, pharmacodynamics, biomarkers			
				\bigcirc	Phase 2 VacSYn trial in PD: Part 2 Initiation ⁵			
Monoclonal antibodies and	l small molecul	e drugs						
Monoclonal antibody	TDP-43 ⁶	\bigotimes		\bigcirc	Reg. tox studies completed; validated pharmacodynamic assay for clinical readout			
Morphomor NI DD2 (ACI 10764)	NLRP3 ⁷		\bigotimes		Lead candidate declaration; In vivo PoC			
Morphomer-NERF3 (ACI-19764)				\bigcirc	IND ⁹ /CTA ¹⁰ filing			
Morphomer-Tau	Tau				In vivo PoC study and initiation of IND-enabling studies			
morADC	Platform (a-syn)				In vivo PoC study of proprietary brain delivery platforms			
Diagnostics								
TDP-43-PET ¹¹ tracer	TDP-43		\bigotimes		Phase 1 initiation; initial readout in genetic FTD			
a cyp BET tracer (ACI 15016)	0.01/0		\bigotimes		PD candidate, IND-enabling studies completed			
a-Syli-FET lidder (AGF13910)	a-syll				Phase 1 readout			

(1) Alzheimer's disease; (2) Down syndrome; (3) alpha-synuclein; (4) Parkinson's disease; (5) IND/CTA approval; (6) TAR DNA-binding protein 43; (7) (NOD)-like receptor protein; (8) Central nervous system; (9) Investigational new drug; (10) Clinical Trial Application; (11) Positron emission tomography



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AC Immune strong Balance Sheet

Operations well-funded into 2027



Cash of CHF 182.5 million¹



2024 annual cash burn guidance CHF 65m – 75m



Strong Balance Sheet² Cash runway into 2027 Astute investment strategy focused on major value drivers and nearterm catalysts



(1) Includes CHF157.9 million as of Sep 30, 2024 and CHF24.6 m milestone payment received from J&J mid-October; (2) Assumes no other milestones or deals included

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Creating the Future of Precision Medicine in Neurodegeneration

The Foundation for Early Detection and Treatment



Cash runway into 2027 permits achievement of key milestones & execution of value-generating innovation

(1) Phase 2; (2) Phase 1b/2; (3) Phase 2b; (4) Alpha-synuclein; (5) TAR DNA-binding protein 43; (6) Positron emission tomography; (7) (NOD)-like receptor protein 3; (8) Central nervous system



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Alpha-synuclein Targeted Programs for Parkinson's Disease



Pioneering a-syn¹ modalities to address Parkinson's disease

Unique pipeline assets: 3 therapeutics and 2 diagnostics



- Parkinson's disease affects over 6 million people worldwide
- Challenges remain in accurate diagnosis and effective therapeutic interventions

(1) alpha-synuclein; (2) Parkinson's disease; (3) Antibody drug conjugate; (4) Small molecule entity; (5) Monoclonal antibody; (6) Positron emission tomography; (7) First-in-human



ACTIVE Targeting Neurodegenerative Diseases

Major advantages

Solution Long-lasting specific immunity for pathological target, consistent, boostable

Sumited annual dosing (once or twice) after priming year

 \bigcirc No observed ARIA-E¹ to date (safety profile well suited to long-term use)

Sease of administration and simple logistics for global access

Cost-effective (attractive healthcare economics across global populations)



Stimulates the patient's immune system to produce their own antibodies

Passive immunotherapy

Externally generated

administration every two to four weeks

mAb requires



(1) Amyloid-related imaging abnormalities-edema

Clinically-validated anti-a-syn Active Immunotherapy in PD

Phase 1 Results in *The Lancet Neurology*¹ Support Best-in-Class Profile

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



50% reduction² of pathological a-syn in CSF³



Changes⁴ in oligo-a-syn and UPDRS III correlate

THE LANCET

Neurology



Strong and boostable antibody responses

Target engagement evidence: 50% reduction in pathological (oligomeric) a-syn in the CSF Signal of clinical efficacy: stabilization of UPDRS⁵ III scores correlated with reductions in oligomeric a-syn

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



VacSYn: Adaptive Biomarker-based Phase 2 Study of ACI-7104 in Early PD

Placebo-controlled Phase 2 Study Overview – Interim data in H2 '24

- 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

- Key immunogenicity measures
- Measures of pathological a-syn (a-syn oligomers and aggregates)

Treatment in PD1 (18 months) Cohort 1 in PD – Dose A Cohort 2 in PD – Dose B

Part 2: Proof of Concept in Early PD

- Motor and Non-Motor Functioning (UPDRS² based)
- Degeneration of dopaminergic terminals (DaT SPECT³ imaging)
- Advanced MRI (including ASL⁴ and DTI⁵)
- Digital biomarkers of motor and non-motor function
- Functional and patient reported outcomes



(1) 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; (2) Unified Parkinson's disease rating scale; (3) Dopamine Transporter Single Photon Emission Computed Tomography; (4) Arterial spin labeling; (5) Diffusion tensor imaging

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VacSYn: Patient baseline characteristics and interim safety/tolerability findings

Placebo-controlled Phase 2 Study: No safety concerns raised by DSMB

Baseline profile	Unit	Total ¹
Total number of patients	n	34
Age	Years mean (std)	62.1 (6.7)
Sex Male Female	n (%) n (%)	22 (65%) 12 (35%)
Hoehn and Yahr stage Stage I Stage II	n (%) n (%)	16 (47%) 18 (53%)
MDS-UPDRS scores Part 1: Non-motor experiences of daily living Part 2: Non-motor experiences of daily living Part 3: Motor examination	mean (std) mean (std) mean (std)	4.09 (3.1) 4.09 (3.2) 21.09 (9.8)
PD Treatment treatment-naïve on L-Dopa 300mg/day	n (%) n (%)	11 (32%) 23 (68%)

Overall good safety/tolerability to date

To date, no death, no serious adverse event and no severe adverse event

One AE leading to discontinuation from the 3 study² unrelated to study drug



Most common AEs are transient: Injection Site Reactions (49%) and headaches (18%)

No MRI, lab, ECG abnormalities

(1) cut-off date September 22, 2024; (2) Worsening of generalized anxiety disorder unrelated to study drug;



ACI-7104.056 VacSYn Phase 2 trial Interim results



Strong increase in anti-a-syn antibodies

(after third immunization)

Key results

- Antibody titers against a-syn peptide evident after
 2 immunizations
- ACI-7104.056-treated patients showed an average
 16-fold increase² above placebo in anti-a-syn antibodies after 3 immunizations
- No anti-a-syn antibody responses were observed in placebo-treated subjects
- To date, no clinically relevant safety issue reported

(1) alpha-synuclein (peptide aa 115-121); (2) assay background level defined by signal in the placebo group



morADC platform offers enhanced targeting of brain proteinopathies

Synergistic inhibition of aggregation and seeding and increased brain penetration

a-syn a-syn a-syn Control | Control Enables **single** or **dual targeting** strategies to deliver **combination therapy** in a single agent nhibiti Seedi S **Single targeted morADC** (a-syn/a-syn) shows up to **80x** higher anti-aggregation effects than parental molecules 100 A-syn ThT filuorescence (% of vehicle control) **80** Aggregatior **Dual targeted morADC** (Abeta/Tau) shows **3x** and **15x** higher inhibition 60anti-aggregation effects than parental molecules 40 20 Additionally, enhanced brain exposure (up to 8x higher) was observed for the monoclonal antibody within the morADC 0 3 1.5 10 5 1.5 3 3 1.5

morADCs: important synergistic effects on targeted proteinopathies

Morphomer

Antibody



morADC

10 5

Compound mixture

Multiple Assets in Pipeline Targeting NLRP3

For neuroinflammatory conditions like Parkinson's disease and obesity



NLRP3¹ Inflammasome is a promising therapeutic target

Key disease driver in multiple CNS and other diseases



Mechanism of action can be applied across a broad range of neuroinflammatory and other diseases

Pharmacological inhibition of NLRP3 lowers aberrant cytokine release and reduces disease pathology ^{13,14,15}

(1) Nod-Like Receptor protein containing Pyrin 3; (2) Apoptosis-associated speck-like protein containing a CARD, also called PYCARD; (3) monoclonal antibody; (4) TAR DNA binding protein-43; (5) Venegas *et al.*, 2017; (6) phosphorylated Tau; (7) alpha-synuclein; (8) Interleukin-1 beta; (9) Interleukin-18; (10) Central nervous system; (11) neurodegenerative diseases; (12) Inflammatory bowel disease; (13) Stancu *et al.*, 2019; (14) Dempsey *et al.*, 2018; (15) Gordon *et al.*, 2018



ACI-19764 Small Molecule Candidate Targeting NLRP3

Preclinical data highlights competitive profile



ACI-19764 small molecule candidate targeting NLRP3¹

Preclinical efficacy demonstrated in mouse models of neuroinflammation



 Mechanism of action can be applied across a broad range of neuroinflammatory diseases including: AD⁴, PD⁵, ALS⁶, FTD⁷, MS⁸ and traumatic brain and spinal cord injury

(1) (NOD)-like receptor protein 3; (2) Experimental autoimmune encephalomyelitis; (3) Kp,uu – unbound partition coefficient; (4) Alzheimer's disease; (5) Parkinson's disease; (6) Amyotrophic lateral sclerosis; (7) Frontotemporal dementia; (8) Multiple sclerosis

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ACI-19764 small molecule candidate targeting NLRP3

Excellent brain penetrance, safety and efficacy (preclinical tox / PK data)

Optimal brain PK and developability

- Mouse brain Kp,uu¹: 0.3
- Rat brain Kp,uu : 0.7
- Dog CSF² Kp,uu : 1
- BCS³ class 1
- Predicted human oral dose below 100mg/day

High potency and selectivity

- Strong IL-1β⁴ inhibition
 - Human macrophages IC₅₀ : 2nM
 - Human WB⁵ IC₅₀ : 20.5nM
 - Mouse WB IC₅₀: 84.4nM
 - Mouse microglia IC₅₀ : 5.6nM
- In vivo (EAE⁶ model) inhibition of inflammation (IL-1β; caspase-1; GFAP⁷; CD4⁸)
- No inhibition of other types of inflammasome⁹

Excellent safety and tolerability

- No adverse findings up to 400 mg/kg in short toxicology rat study
- No adverse effects upon chronic treatment in several *in vivo* studies
 - Tg83 mice (3 months)
 - EAE mice (30 days)
 - DIO mice (28 days)

- ACI-19764 shows excellent brain penetration, efficacy, safety, and developability profile
 - IND-enabling studies to be completed in 2025

(1) Optimal brain to plasma ration (Kp,uu) = 1.0; (2) cerebrospinal fluid; (3) Biopharmaceutics Classification System; class 1 defines high soluble and high permeable drugs (4) interleukin-1 beta; (5) whole blood;
 (6) Experimental autoimmune encephalomyelitis; (7) Glial fibrillary acidic protein; (8) cluster of differentiation 4, marker of T helper cells; (9) AIM2, NLRP1, NLRC4



ACTIVE ACI-24.060: Anti-Abeta for Alzheimer's Disease Immune Therapy Partnered with Takeda



ACI-24 Active Immunotherapy Reduces Abeta Plaque Burden

Significant Abeta Plaque Reduction in vivo in Preclinical APPxPS1 Model¹



Quantification of Abeta Plagues

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

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



(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

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ACTIVE ACI-35.030: Anti-pTau for Alzheimer's Disease Immune Therapy Partnered with Janssen

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

ACI-35.030 and JACI-35.054 utilized the same pTau¹ epitope – compared head-to-head in Phase 1b/2a trial in AD² patients

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

Retain: Phase 2b Study of ACI-35.030 in Preclinical AD¹

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

(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

Tracers from the Morphomer[®] platform

Precision medicine approach enabled by the Morphomer® platform

Developing a suite of tracers against emerging targets in neurodegenerative diseases

	Indication	Candidate	Partner	Modality	Discovery	Preclinical	Phase 1	Phase 2	Phase 3
	Parkinson's disease	ACI-15916		a-syn-PET ³ tracer (diagnostic)					
Wholly- owned	MSA ⁴	ACI-12589		a-syn-PET tracer (diagnostic)					
	ALS ⁵	ACI-19626		TDP-43-PET tracer (diagnostic)					
Partnered	Alzheimer's disease	PI-2620	Life Molecular Imaging	Tau-PET tracer (diagnostic)				FDA Fas	t Track

(1) alpha-synuclein; (2) TAR DNA-binding protein 43; (3) Positron emission tomography; (4) Multiple system atrophy; (5) Amyotrophic lateral sclerosis; (6) Alzheimer's disease

AC Immune's leadership in Precision Medicine

Scientific excellence drives landmark partnering deals and shareholder value

Confirmed leadership in active immunotherapies in NDD¹

Multiple unpartnered high-value assets

Strong Balance Sheet with cash runway into 2027²

(1) Neurodegenerative disease; (2) assumes no other milestones

AC Immune: Pioneering science and precision medicine

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

Supplementary Information

Landmark Deal for ACI-24.060 in Alzheimer's Disease

Supports Promise of Active Immunization for Neurodegenerative Diseases

 The deal with Takeda covers AC Immune's unique, class-leading Abeta targeted active immunotherapy ACI-24.060

Deal terms:

- \$100 million upfront payment received for exclusive option to license global rights
- Option exercise fee in the low-to-mid nine-figure range linked to ABATE clinical data
- Up to approximately \$2.1 billion in potential payments including option exercise fee and development, commercial and sales-based milestones
- Royalties in the mid-to-high teens on global sales

 Combines AC Immune's leadership in developing products for NDDs¹ with Takeda's clinical development expertise and history of driving neuroscience innovation

(1) Neurodegenerative diseases

AC Immune strong track record in deals¹ with leading pharma companies

Strategy: optimize value to risk ratio and retain significant upside

Program	Phase	Total value ²	Upfront ²	Milestones received ²	Royalties	Partner
ACI-24.060 (anti-Abeta active immunotherapy)	Phase 1b/2	>USD 2,100	USD 100		Mid-to-high teens	Takeda
ACI-35.030 (anti-pTau active immunotherapy)	Phase 2b	CHF 500	CHF 26	CHF 45	Low-double digits to mid-teens	
Tau Morphomer [®] drugs	Phase 1 ⁶	CHF 1,860	CHF 80 +USD 50 ⁷	CHF 40	Low-double digits to mid-teens	Lilly
PI-2620 (Tau PET ⁴ tracer)	Phase 3 ⁵	EUR 160	EUR 0.5	EUR 7	Mid-single digits to low-teens	Life Molecular Imaging
Crenezumab (anti-Abeta antibody)	Phase 2	USD 65 ³	USD 25	USD 40		*
Semorinemab (anti-Tau antibody)	Phase 2	CHF 59 ³	CHF 17	CHF 42		*
Total (millions) ⁸		CHF ~4,750	CHF 255.2 ⁹	CHF 172		

Outstanding potential milestone payments exceed ~CHF 4.3 billion

(1) 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; * previously licensed to Genentech (a member of the Roche Group)

Technology Platforms Driving Value-Creating Pharma Deals

Strategy: Optimize Value to Risk Ratio and Retain Significant Upside

(1) Monoclonal antibody

