



# Pioneering Precision Medicine for Neurodegeneration

NASDAQ: ACIU | Annual General Meeting | June 26, 2020



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# Agenda

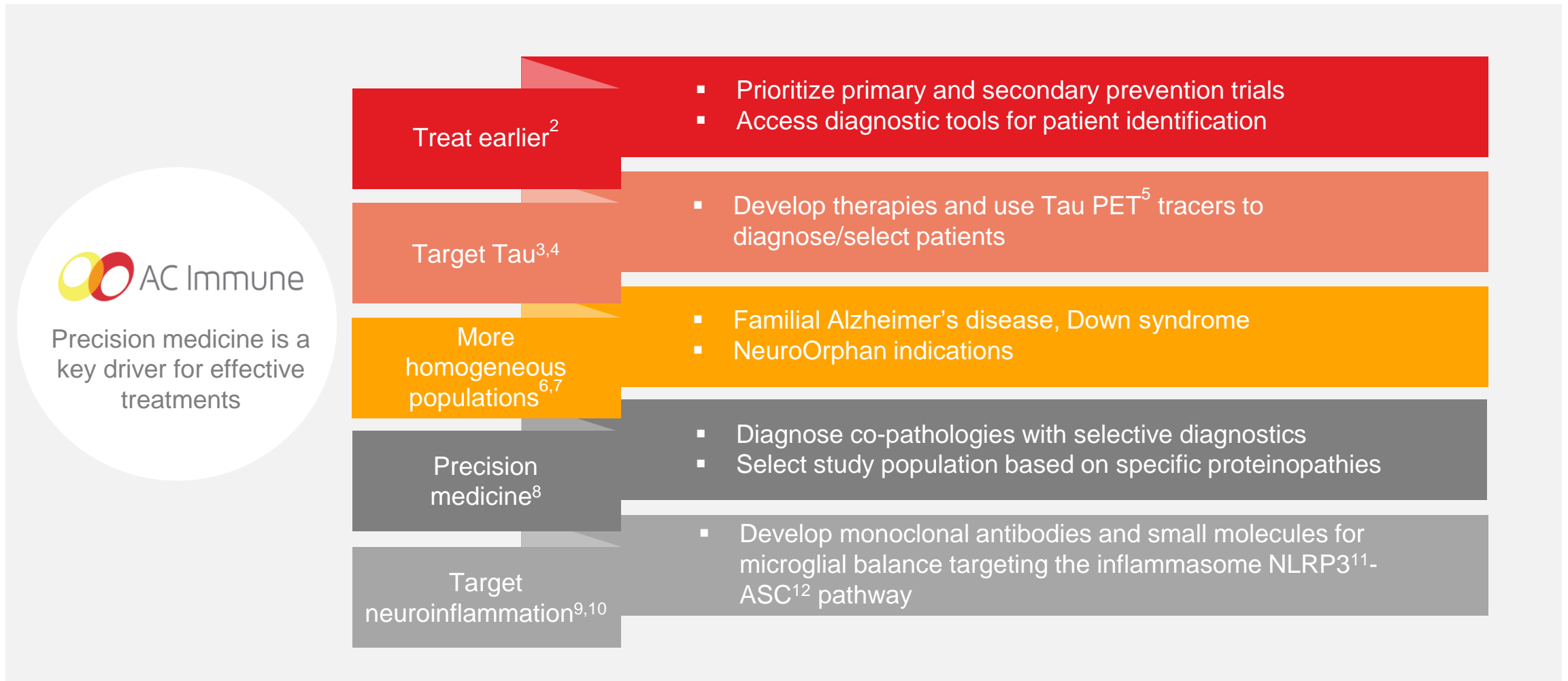
1. AC Immune's leadership in neurodegenerative diseases
2. Achievements 2019/20
3. AC Immune's business strategy
4. Pipeline update
5. Novel drug targets for neurodegenerative diseases
6. Near-term inflection points
7. Financial figures
8. Strategic outlook



# 1. AC Immune's leadership in neurodegenerative diseases

Andrea Pfeifer, CEO

# Roadmap to successful therapies for NDDs<sup>1</sup>

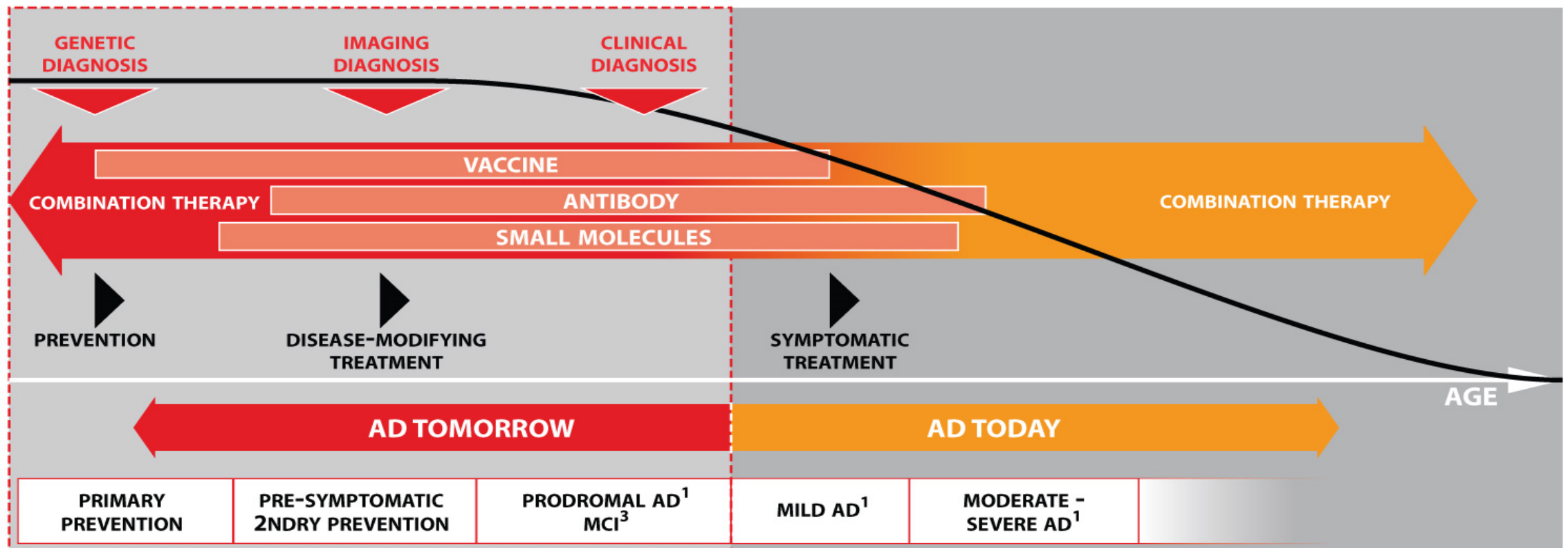


(1) Neurodegenerative diseases; (2) Reardon S, Nature 2018; (3) Pontecorvo MJ, *et al.*, Brain 2019; (4) Gordon BA, *et al.*, Brain 2019; (5) Positron emission tomography; (6) Strydom A, *et al.*, Alzheimers Dement (NY) 2018; (7) Lott IT and Head E., Nat Rev Neurol. 2019; (8) Robinson JL, *et al.*, Brain 2018; (9) Heneka MT *et al.*, Nat Rev Neurosci. 2018; (10) Wang S *et al.*, Int Immunopharmacol. 2019; (11) (NOD)-like receptor protein 3; (12) Apoptosis-associated speck protein containing a CARD

# AC Immune is focused on precision medicine in AD<sup>1</sup> and NDD<sup>2</sup>

Multiple targets and approaches enable mono- and combination therapies

## HEALTH INDEX



(1) Alzheimer's disease; (2) Neurodegenerative diseases; (3) Mild cognitive impairment



- Future treatment paradigms for NDD may involve different combinations of disease modifiers at various stages of a disease
- Combination therapies may include combinations of immunotherapies or combinations of small and large molecules targeting proteinopathies and neuroinflammation



## 2. Achievements 2019/20

# Covid-19: minimal anticipated impact on milestone achievement

Not modifying guidance: remain on track to deliver five clinical readouts in 2020

Executing  
robust business  
continuity plan

- Making every provision to protect the health of patients, staff, and investigators
- In continuous coordination with partners and important stakeholders including the Swiss government, trial investigators and contractors
- Maintaining productivity and integrity of our clinical development

On track to deliver  
2020 milestones

- Many key trials are already fully enrolled
- Patient follow up continuing virtually

Additional  
considerations

- ACI-24 in AD<sup>1</sup>: Phase 2, 12-month interim data analysis will proceed as planned on a reduced patient data-set
- ACI-24 in DS<sup>2</sup>: Plans to initiate Phase 2 in H2 2020 are progressing; to be initiated in line with public health guidance at that time
- Crenezumab: Phase 2 (API) study: Dosing temporarily interrupted due to country-wide order; patients dosed for >5 years as part of prevention study and data still anticipated in 2022

(1) Alzheimer's disease; (2) Down syndrome



# 2019: Strong pipeline progress and further improved balance sheet

Building on our track record of successful execution

## Achieving partnership milestones

- ✓ CHF 110 million from Lilly for small molecule Tau inhibitor and \$50 million in exchange for a note, convertible to equity at a premium
- ✓ Milestone payment for Tau PET tracer entering Phase 2
- ✓ New grant from MJFF for a-synuclein PET tracer

## Advancing/expanding clinical pipeline

- ✓ Second Phase 2 trial of semorinemab in moderate AD
- ✓ Phase 1b/2a trial of anti-phospho-Tau vaccine
- ✓ Phase 1 trial of small molecule Tau inhibitor
- ✓ Tau imaging substudy in ongoing API study of crenezumab

## Delivering program readouts

- ✓ a-synuclein and TDP-43 Proof of Concept (PoC) studies in Q3 2019
- ✓ Interim Phase 1b data for anti-Abeta vaccine in Down syndrome
- ✓ Interim Phase 1b of anti-pTau vaccine ACI-35
- ✓ Phase 1 SAD results for small molecule Tau inhibitor

## Establishing thought leadership

- ✓ Key opinion leader (KOL) event on “untangling Tau pathology”
- ✓ KOL event on treated AD in people with Down syndrome

## Unlocking platform potential

- ✓ Novel biparatopic antibodies against a-synuclein



### 3. AC Immune's business strategy

# AC Immune strengths

A leader in neurodegenerative diseases

- 1 ■ Addressing the largest market opportunity in healthcare
  - Pioneering precision medicine in neurodegenerative diseases
- 2 ■ Highly productive validated discovery platforms for sustained growth to address misfolded proteins applicable across multiple diseases
  - SupraAntigen™: vaccines and antibodies specific to disease-causing conformations
  - Morphomer™: conformation-sensitive small molecules
- 3 ■ Broad pipeline with four therapeutic candidates in Phase 2
  - Multiple near-term value inflection points
  - Partnerships with Roche, Janssen Pharmaceuticals and Eli Lilly and Company
- 4 ■ Complementary diagnostics in clinical development
  - Highly-valued preclinical assets in Tau, a-syn and TDP-43
- 5 ■ CHF 277.9 million in cash<sup>1</sup>; sufficiently funded to reach multiple value inflection points through at least Q1 2024
  - Increasing investment into key areas of NeuroOrphan and neuroinflammation

(1) As of March 31, 2020

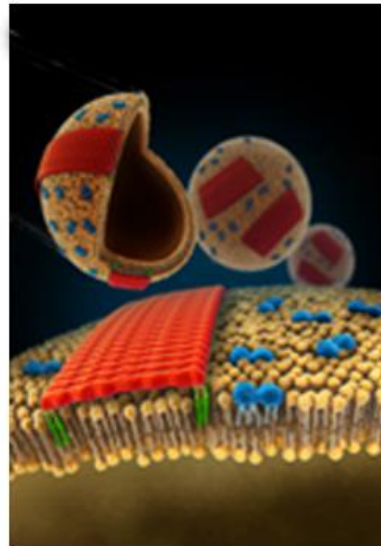
# Vision

*To become a global leader in **precision medicine**<sup>1</sup> for neurodegenerative diseases leveraging dual proprietary technology platforms to develop breakthrough mono- and combination therapies*

## Clinically Validated Technology Platforms

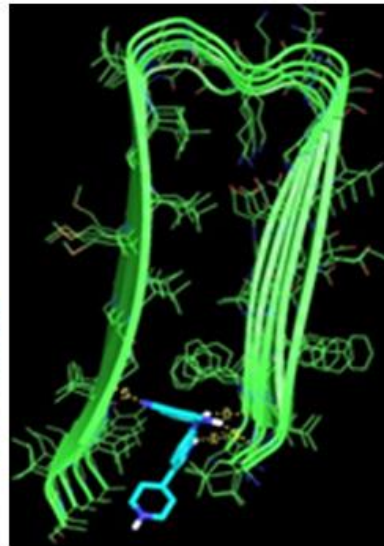
### SupraAntigen™

Vaccines and antibodies specific to disease causing conformations



### Morphomer™

Conformation-sensitive small molecules

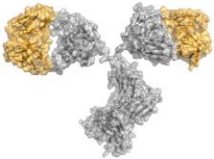
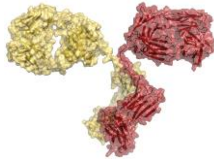
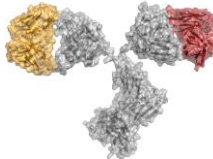

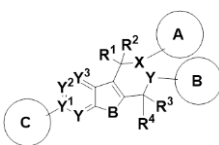
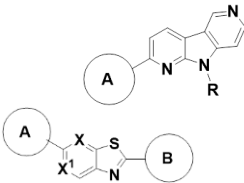







Images: Hickman et al., JBC 2011; Kroth et al., JBC 2012

(1) The goal of precision medicine is to deliver optimally targeted and timed interventions tailored to the individual disease drivers

# Unlocking platform potential for next generation of innovations

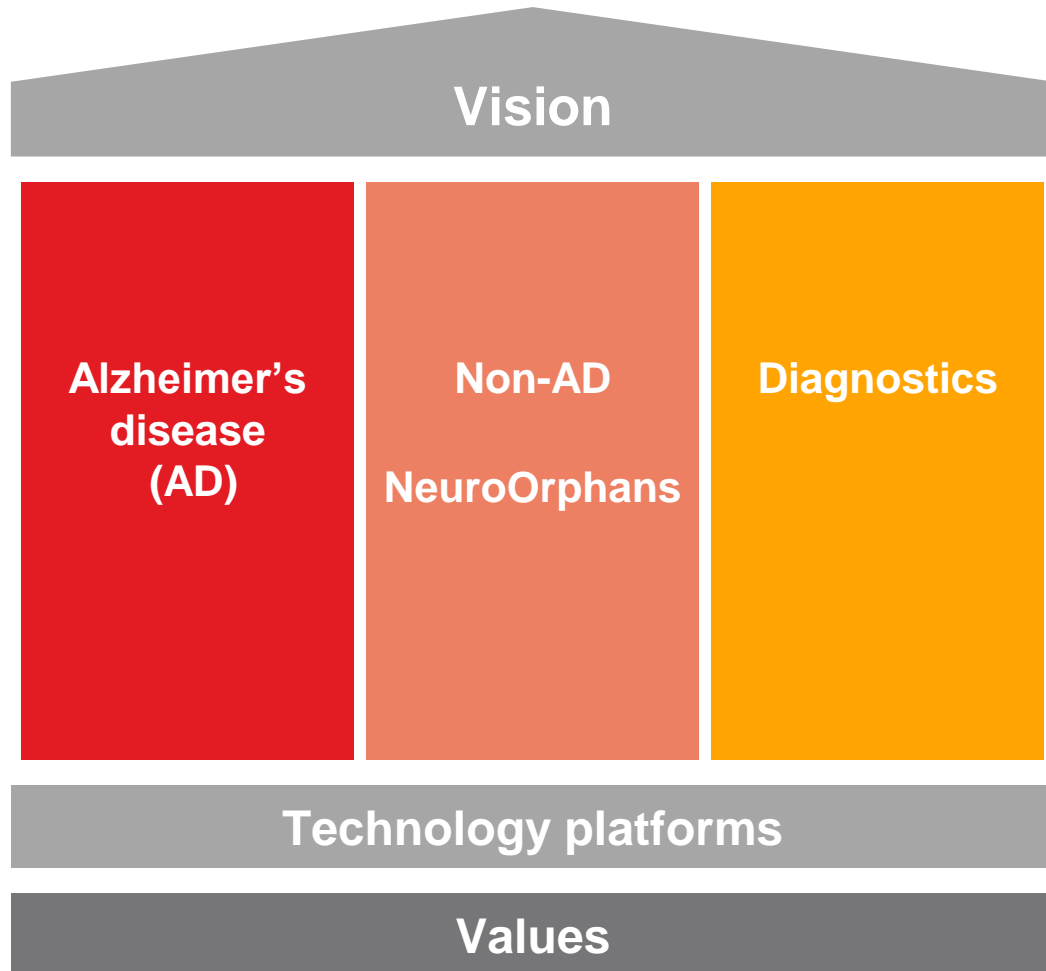
Multiple opportunities for value creation and future partnership

Monoclonal antibodies	Bispecific antibodies	Biparatopic antibodies	Conformational liposomal vaccines	Small molecule therapeutics	PET <sup>1</sup> tracers diagnostics
					
<b>SupraAntigen™</b>				<b>Morphomer™</b>	
<ul style="list-style-type: none"> <li>▪ <b>semorinemab</b> (anti-Tau)  <small>A Member of the Roche Group</small></li> <li>▪ <b>crenezumab</b> (anti-Abeta)  <small>A Member of the Roche Group</small></li> <li>▪ <b>anti-a-syn</b></li> <li>▪ <b>anti-TDP-43</b></li> <li>▪ <b>anti-ASC<sup>3</sup></b> (NI<sup>4</sup>)</li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>undisclosed</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>a-syn</b></li> <li>▪ <b>undisclosed</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>ACI-35</b> (anti-pTau vaccine) </li> <li>▪ <b>ACI-24</b> (anti-Abeta vaccine)</li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>ACI-3024</b> (Tau inhibitor) </li> <li>▪ <b>a-syn inhibitor</b></li> <li>▪ <b>NLRP3<sup>2</sup> inhibitor</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>PI-2620</b> (Tau tracer) </li> <li>▪ <b>a-syn tracer</b></li> <li>▪ <b>TDP-43 tracer</b></li> </ul>

(1) Positron emission tomography; (2) (NOD)-like receptor protein 3; (3) Apoptosis-associated speck protein containing a CARD; (4) Neuroinflammation

# Business strategy: three-pillar approach

Precision medicine ultimately creates differentiation



## Alzheimer's disease (AD)

- Develop best-in-class late stage assets in partnership
- Develop preventive/therapeutic vaccines as fully owned assets (ACI-24)
- Establish a pipeline of disease-modifying small molecules

## Non-AD, NeuroOrphans

- Discover therapeutics in Parkinson's disease
- Leverage AD therapeutics in Down syndrome, PSP<sup>1</sup> and other NeuroOrphan diseases
- Target neuroinflammation for NDD<sup>2</sup> as mono- and/or combination therapy

## Diagnostics

- Accelerate diagnostic pipeline to late stage development
- Use diagnostics for improved clinical trials and external partnerships

(1) Progressive supranuclear palsy; (2) Neurodegenerative diseases



## 4. Pipeline update

# Broad and robust pipeline in neurodegenerative diseases

Driven by validated proprietary technology platforms for sustained growth



## Clinical-stage pipeline (★ data readout expected in 2020)

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	PARTNER
Tau	<b>semorinemab</b> (anti-Tau antibody)	AD <sup>1</sup> treatment ( <i>prodromal / mild</i> )	[Red arrow]				★	Genentech <small>A Member of the Roche Group</small>
		AD treatment ( <i>moderate</i> )	[Red arrow]					
	<b>ACI-35.030</b> (anti-pTau vaccine)	AD treatment	[Red arrow]				★	Janssen <small>PHARMACEUTICAL DIVISION OF Schering-Plough</small>
	<b>ACI-3024</b> (Tau inhibitor)	AD treatment	[Yellow arrow]				★	Lilly
	<b>Tau-PET<sup>2</sup> tracer</b>	AD and PSP <sup>3</sup>	[Orange arrow]					Life Molecular Imaging
Abeta	<b>crenezumab</b> (anti-Abeta antibody)	AD prevention <sup>4</sup>	[Red arrow]					Genentech <small>A Member of the Roche Group</small>
	<b>ACI-24</b> (anti-Abeta vaccine)	AD treatment ( <i>Down syndrome<sup>5</sup></i> )	[Red arrow]				★	<div style="border: 1px solid black; padding: 5px;"> <span style="color: red;">■</span> Biologic  <span style="color: orange;">■</span> Small Molecule  <span style="color: lightcoral;">■</span> Diagnostic                 </div>
AD treatment		[Red arrow]					★	

(1) Alzheimer's disease; (2) Positron emission tomography; (3) Progressive supranuclear palsy; (4) Prevention trial API-ADAD in Colombia; (5) AD-like cognitive impairment associated with Down syndrome



# Broad and robust pipeline in neurodegenerative diseases

Driven by validated proprietary technology platforms for sustained growth

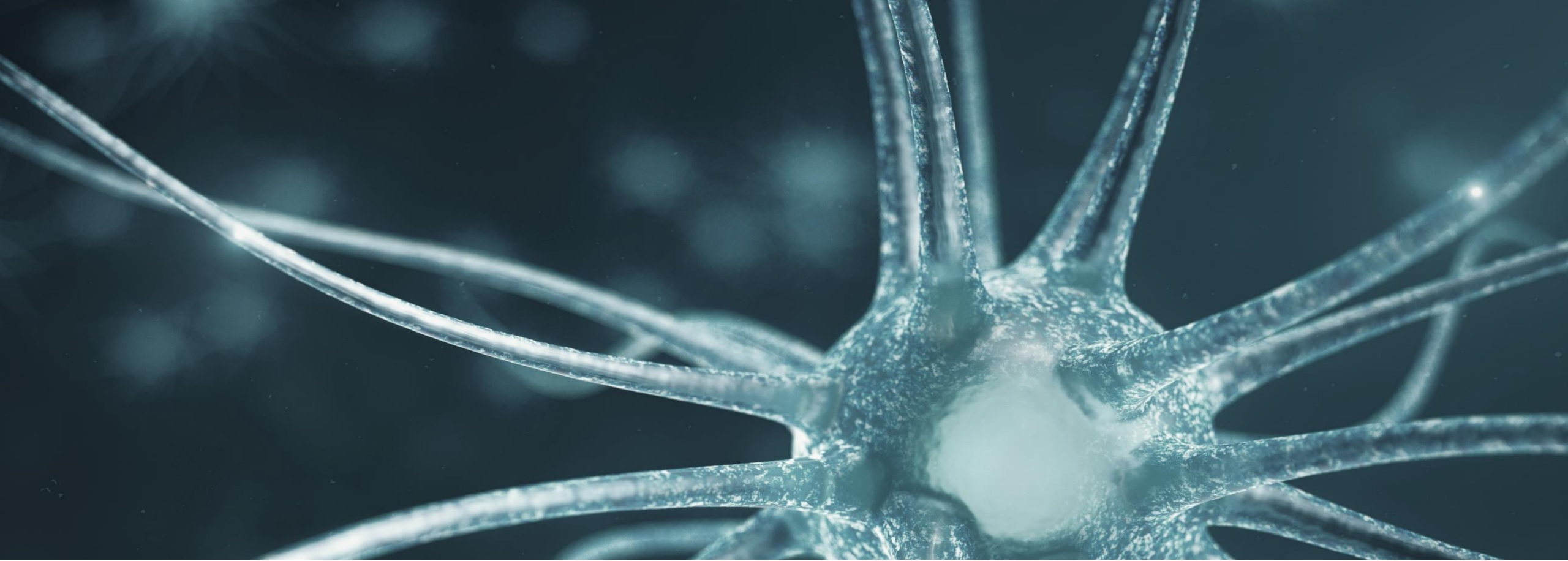


## Early-stage pipeline (★ key milestone in 2020)

TARGET	PRODUCT CANDIDATE	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1
a-synuclein (a-syn)	a-syn-PET <sup>1</sup> tracer	PD <sup>2</sup> , a-synucleinopathies			★
	anti-a-syn antibody	PD, NeuroOrphan		★	
	Morphomer a-syn (a-syn inhibitor)	PD, a-synucleinopathies		★	
TDP-43 <sup>3</sup>	anti-TDP-43 antibody	NeuroOrphan		★	
	TDP-43-PET tracer	TDP-43-opathies			
Inflammasome	anti-NLRP3 <sup>4</sup> -ASC <sup>5</sup> antibody	NeuroOrphan		★	
	Morphomer-NLRP3-ASC	Non-CNS <sup>6</sup>		★	
	Morphomer-NLRP3-ASC	NeuroOrphan			

- Biologic
- Small Molecule
- Diagnostic

(1) Positron emission tomography; (2) Parkinson's disease (3) TAR DNA-binding protein 43; (4) (NOD)-like receptor protein 3; (5) Apoptosis-associated speck protein containing a CARD; (6) Central nervous system



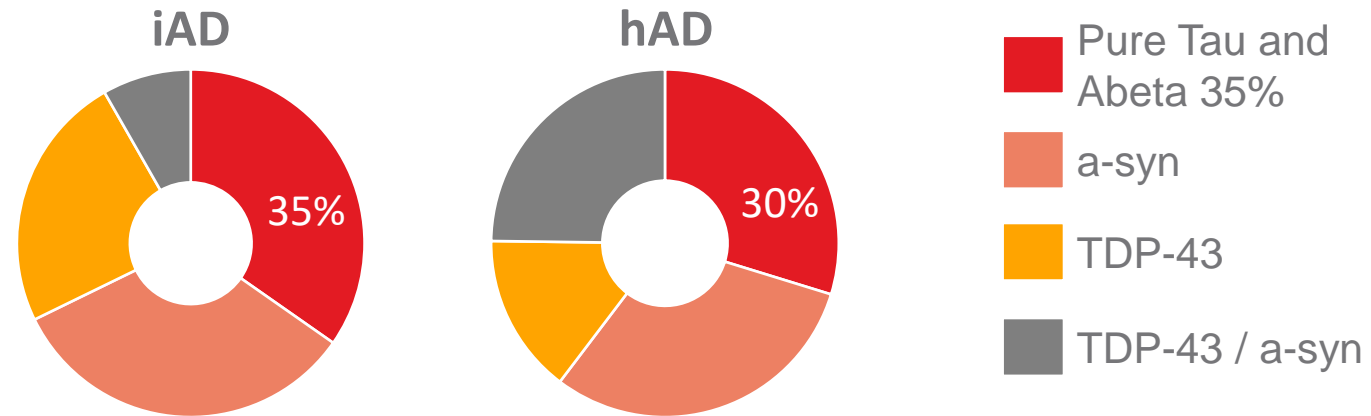
## 5. Novel drug targets for neurodegenerative diseases

# Why do we need precision medicine in AD<sup>1</sup>?

High level of other proteinopathies and co-pathologies in AD

hAD<sup>2</sup> (iAD<sup>3</sup>) shows high levels of co-pathologies:

- 55% (41%) a-syn;
- 40% (33%) TDP-43 with an overall prevalence of 70% (65%) of co-pathologies



iAD<sup>3</sup>; intermediate; hAD<sup>2</sup>, high levels of co-pathologies

Adapted from Robinson et al, Brain, 2018

- The prevalence of co-pathologies in AD<sup>1</sup> and other NDD<sup>4</sup> may indicate a need for different therapies at different stages
- Clinical trial participants may be better defined by their various proteinopathies
- Patient sub-classification may lead to improved clinical outcome
- Combination therapy may be the ultimate requirement

(1) Alzheimer's disease; (2) High level of Alzheimer's disease neuropathological change; (3) Intermediate level of Alzheimer's disease neuropathological change; (4) Neurodegenerative diseases

# TDP-43<sup>1</sup> and alpha-synuclein: drivers of value creation in 2020 and beyond

Broad applications in NDD and AD

Established  
hallmarks in NDD

Including NeuroOrphan indications and Parkinson's disease

Novel therapeutic targets  
in Alzheimer's disease

High levels of a-syn and/or TDP-43 co-pathology

Highlights the need for  
precision medicine

For faster and more accurate diagnosis, treatment and  
monitoring of disease progression

Significant market  
opportunity

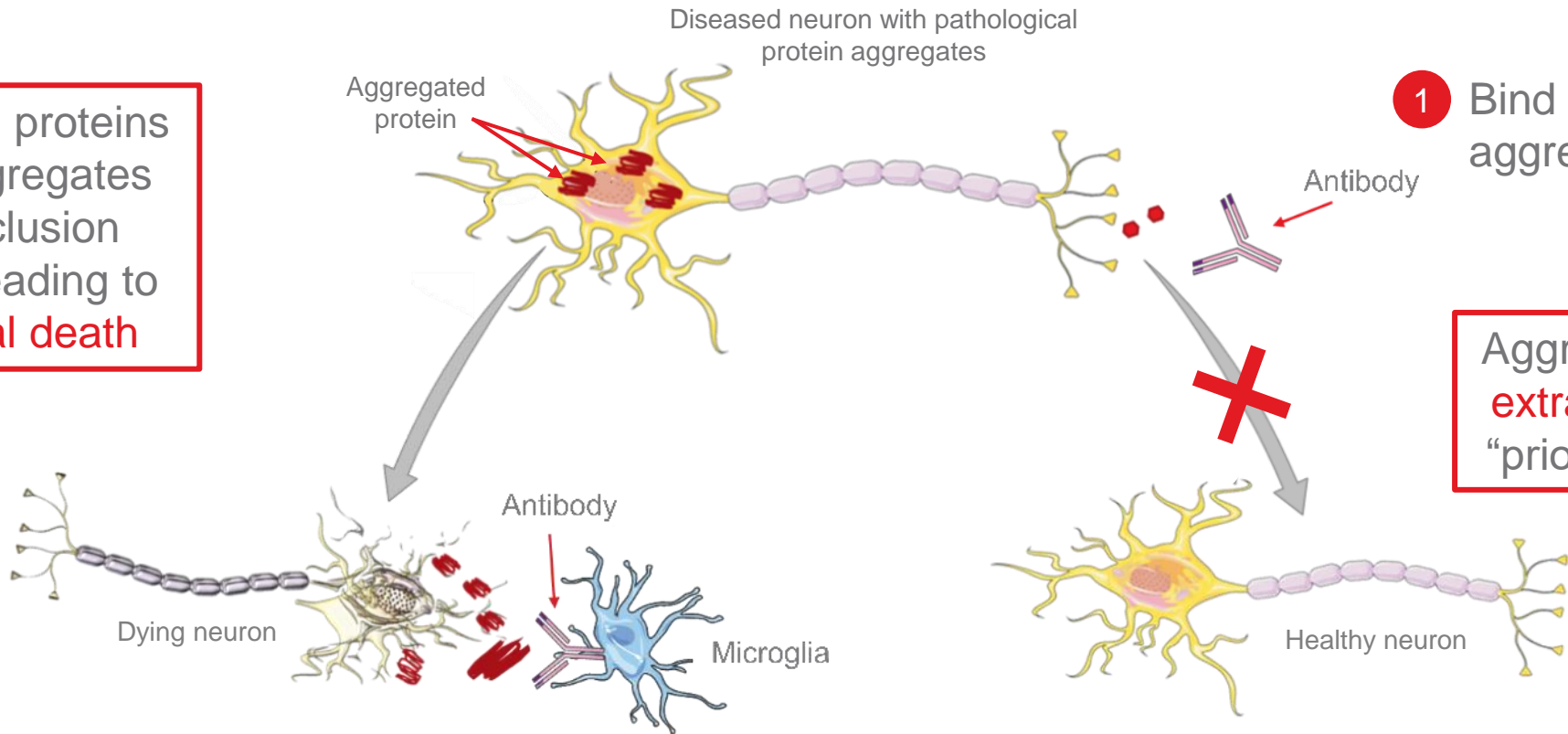
AC Immune's therapeutic and diagnostic programs are  
amongst the most comprehensive in the field

(1) TAR DNA-binding protein 43

# Emerging targets in neurodegenerative disease

Antibodies targeting TDP-43<sup>1</sup> and a-syn<sup>2</sup>

Misfolded proteins form aggregates and inclusion bodies leading to neuronal death



(1) TAR DNA-binding protein 43; (2) Alpha-synuclein; (3) Neurodegenerative diseases; (4) Alzheimer's disease

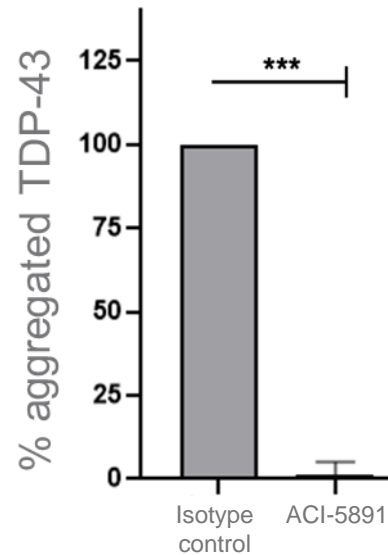
# Only anti-TDP-43 antibody reported with demonstrated *in vivo* activity



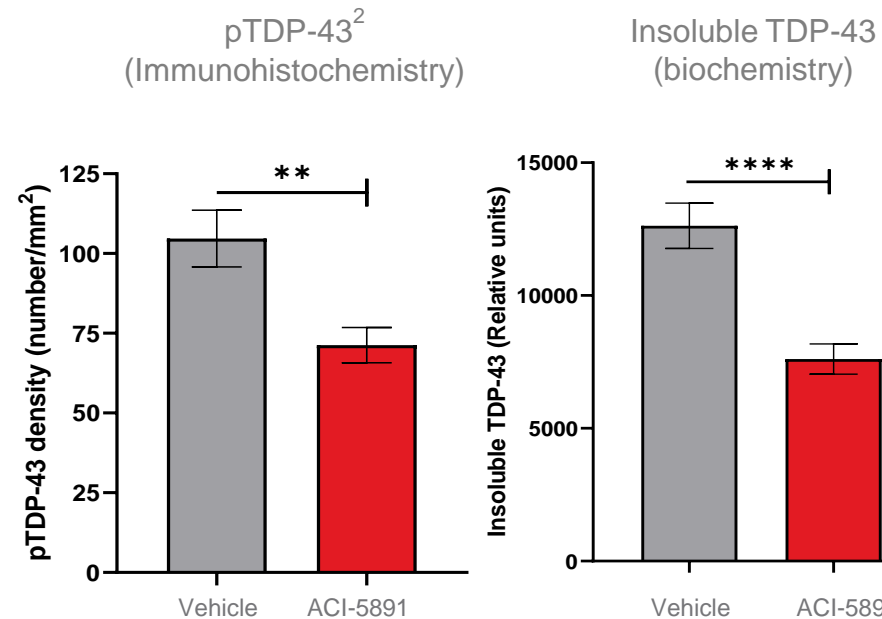
Established preclinical proof-of-concept

## Inhibition of TDP-43 aggregation *in vitro*

Recombinant TDP-43 aggregation assay



## Reduction of pathological TDP-43 *in vivo*<sup>1</sup>



Ref: AC Immune unpublished data

### Key results

- *In vitro*, 98% inhibition of TDP-43 aggregation
- *In vivo*, significant reduction in TDP-43 neuro-pathology

### Next steps

- Complete humanization of lead candidate; start IND<sup>3</sup>-enabling studies in **Q2 2020**

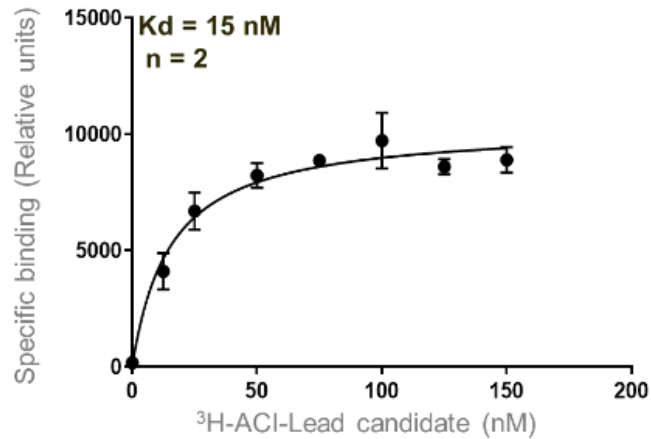
(1) rNLS8 TDP-43 transgenic mouse model; Walker *et al.*, Acta Neuropathol., 2015; (2) Phosphorylated TDP-43; (3) Investigational new drug



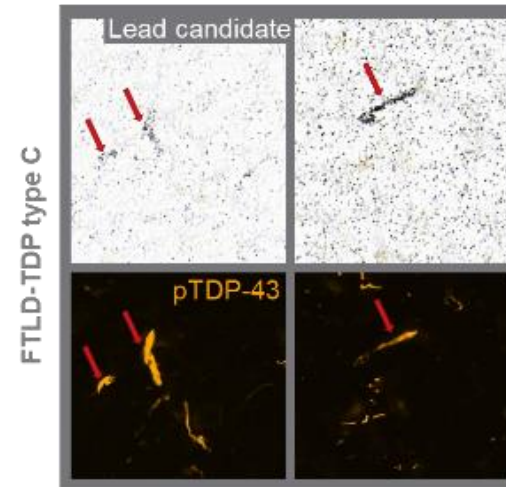
# First-in-class TDP-43 PET<sup>1</sup> imaging tracer – Discovery Phase

Designed to facilitate clinical development and enable precision medicine

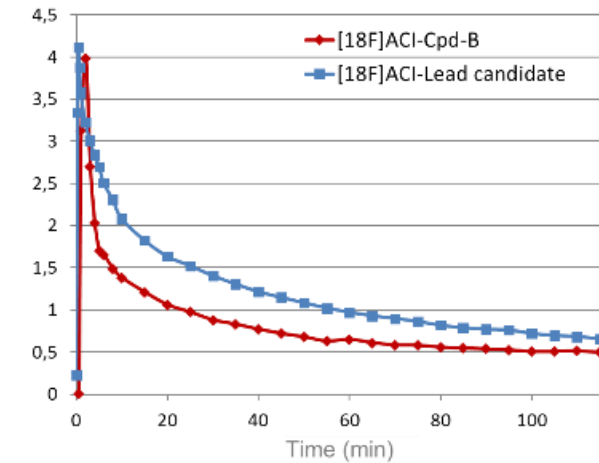
Binding affinity on FTD type-C brain-derived TDP-43 aggregates



Target engagement by micro-autoradiography



Brain PK<sup>2</sup> profile



Ref: AC Immune unpublished data

## Key results

- Lead candidate shows selective TDP-43 binding
- Target engagement confirmed by micro-autoradiography
- PK study confirmed good, rapid brain uptake (4.11%)

## Next steps

- Further optimize target affinity and PK profile; declare clinical lead candidate

(1) Positron emission tomography; (2) Pharmacokinetic

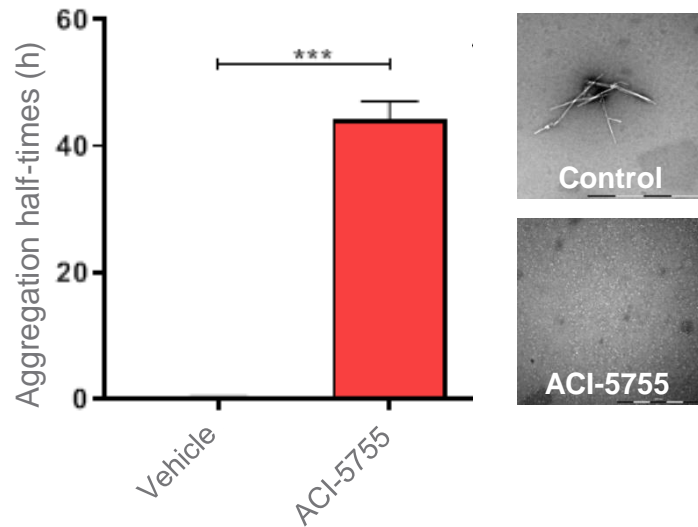


# Lead candidate ACI-5755 currently in IND<sup>1</sup>-enabling studies in PD<sup>2</sup>

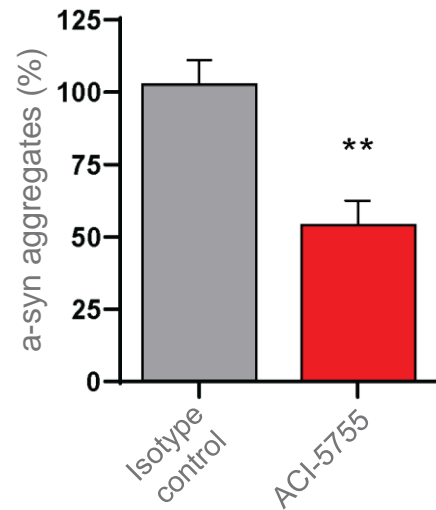
## Targeting spreading of pathological a-syn with selective antibody

### Inhibition of a-syn aggregation *in vitro*

Recombinant a-syn aggregation assay

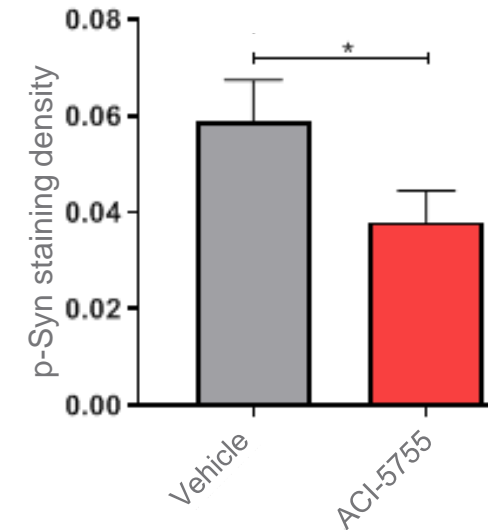


Cellular spreading assay<sup>4</sup>



### Reduction of pathological a-syn *in vivo*<sup>3</sup>

Phosphorylated S129 a-syn (p-Syn<sup>5</sup>) cortex immunohistochemistry



Ref: AC Immune data presented at AD/PD 2020

### Key results

- *In vitro*, ACI-5755 significantly inhibits a-syn aggregation and inhibits uptake and seeding capacity of a-syn aggregates in cells
- *In vivo*, ACI-5755 significantly decreases a-syn spreading

### Next steps

- Advance towards IND filing

(1) Investigational new drug; (2) Parkinson's disease; (3) M83 transgenic mice inoculated with human a-syn preformed fibrils; (4) Human cell line susceptible to a-syn seeding; (5) p-syn antibody (pSer129; Abcam, UK)

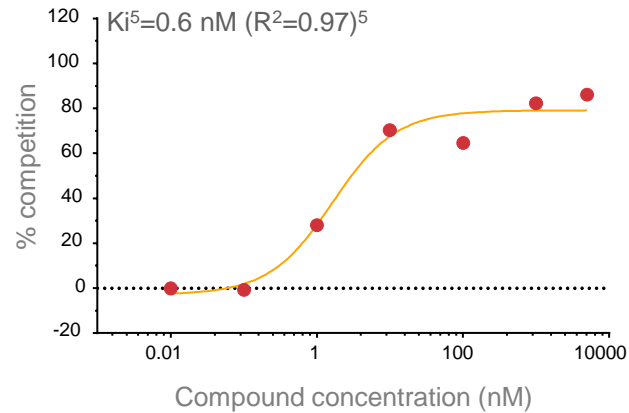


# A-syn PET<sup>1</sup> imaging tracer – First-in-Human

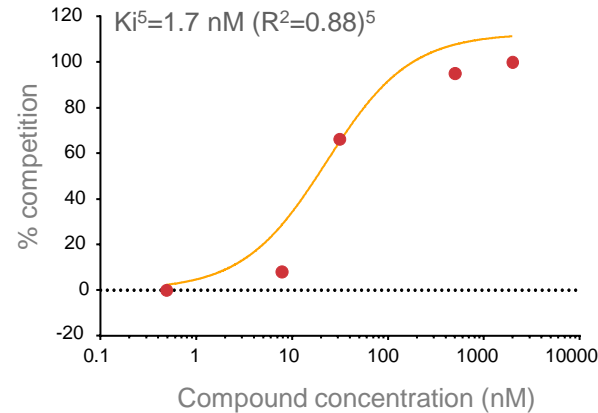
Potentially the first selective diagnostic agent for PD<sup>2</sup>

## Biochemical and histological radiography assays

Binding to Lewy bodies  
in PD brains

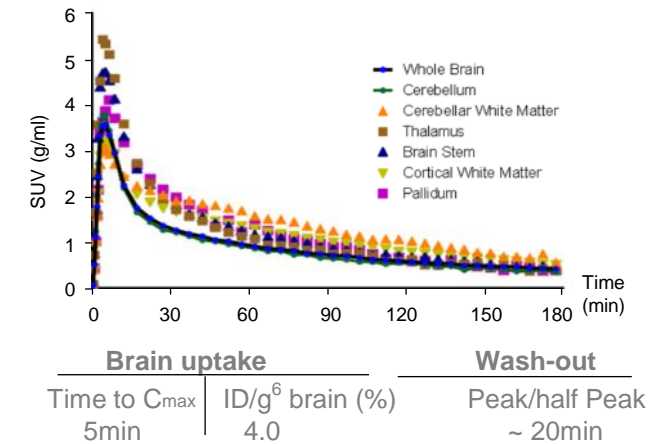


Binding to PD-derived a-syn  
aggregates



## Pharmacokinetic (PK) profile in NHP<sup>3</sup>

18F-PK profile in different brain regions<sup>4</sup>



Capotosti, AD/PD Conference, Lisbon 2019

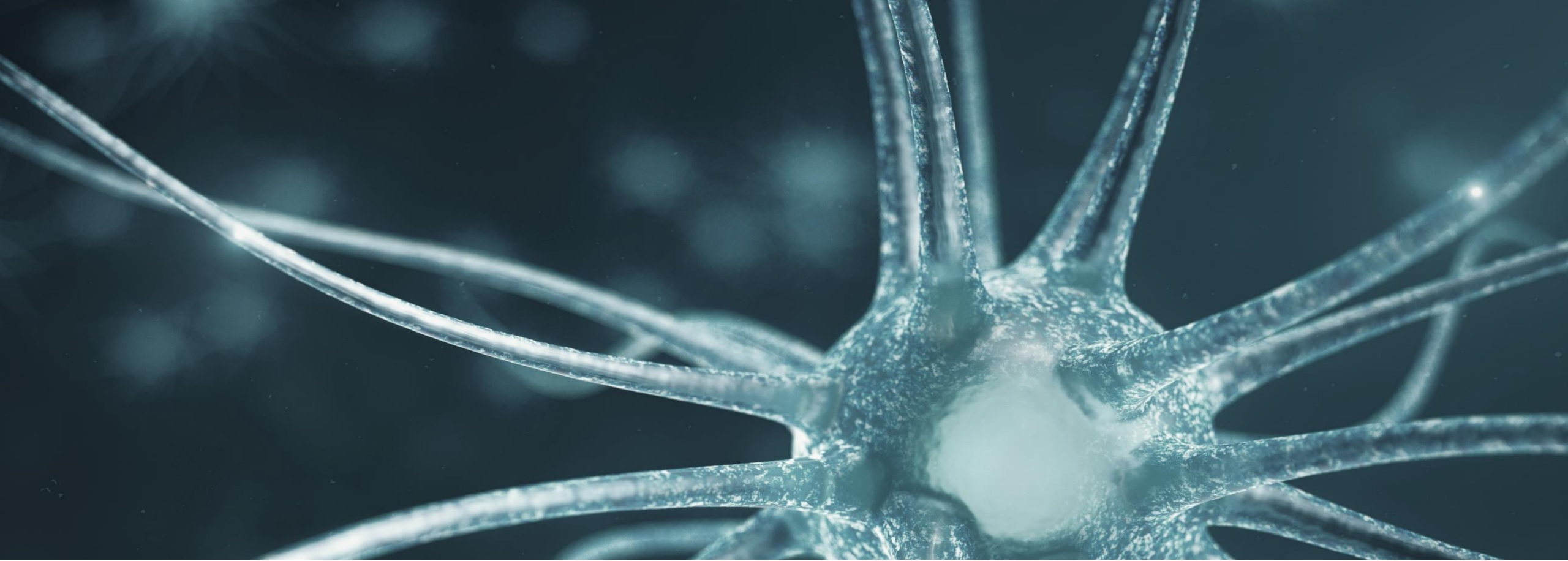
## Key results

- Highly specific, low nanomolar binding in human PD, DLB<sup>7</sup> and MSA<sup>8</sup> brains
- Between 500 to 1000-fold selectivity over potential Abeta co-pathologies
- Favorable PK profile in NHPs and mice

## Next steps

- 2<sup>nd</sup>-gen study in genetic populations, i.e. MSA and SNCA<sup>9</sup>
- Advance 3<sup>rd</sup>-gen candidate to clinical stage in **Q4 2020**

(1) Positron emission tomography; (2) Parkinson's disease; (3) Non-human primates; (4) Data shown for 18F-labeled ACI-3710 by positron emission tomography (PET); (5) Square of the coefficient of multiple correlation; (6) Injected dose per gram of brain; (7) Dementia with Lewy bodies; (8) Multiple system atrophy; (9) Alpha-synuclein gene mutation



## 6. Near-term inflection points

# Multiple upcoming clinical catalysts to drive value in 2020

**1<sup>st</sup>**

**Tau antibody  
Phase 2 data expected**

**3**

**Tau programs reporting  
clinical data**

**5**

**clinical readouts  
expected this year**

## Phase 2 readouts

**semorinemab**  
mild / prodromal AD

**ACI-24**  
AD (interim data)

## Phase 1b readouts

**ACI-35.030<sup>1</sup>**  
AD (interim data)

**ACI-24**  
Down syndrome

## Phase 1 readouts

**ACI-3024**  
healthy volunteers

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## Initiation

**ACI-24**  
Phase 2 – Down syndrome

(1) Phase 1b/2a study

# Multiple upcoming catalysts to drive value in 2020

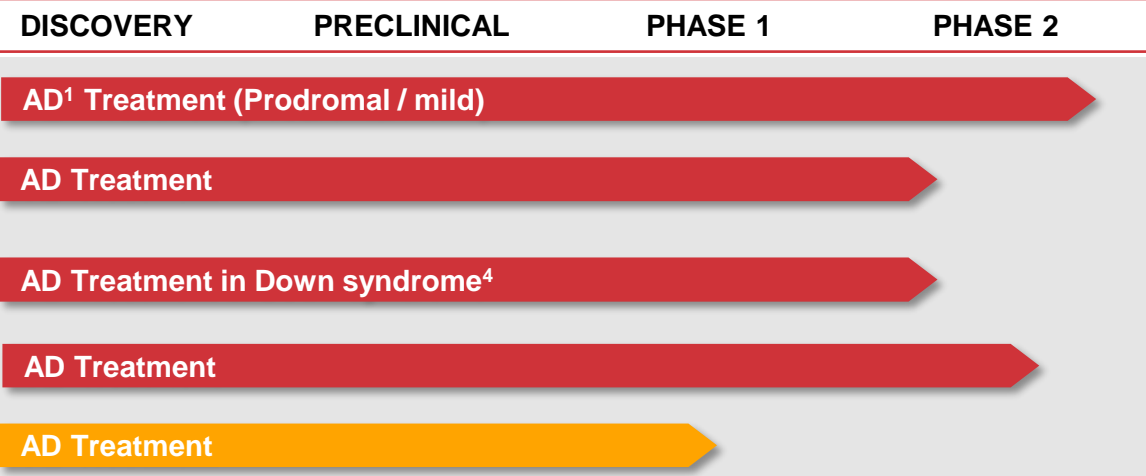
## Clinical

Q2

<b>semorinemab</b> (anti-Tau antibody)	Phase 2 primary completion (estimated; last patient, last visit)
<b>ACI-35.030</b> (anti-pTau vaccine)	Phase 1b/2a in AD interim analysis <sup>2</sup>

H2

<b>ACI-24</b> (anti-Abeta vaccine)	Phase 1b full study reporting in Down syndrome <sup>3</sup>
<b>ACI-24</b> (anti-Abeta vaccine)	Phase 2 12-month interim analysis in AD
<b>ACI-3024</b> (Tau inhibitor)	Phase 1 results (healthy volunteers) disclosed by partner (expected) <sup>5</sup>



## Preclinical

Q1

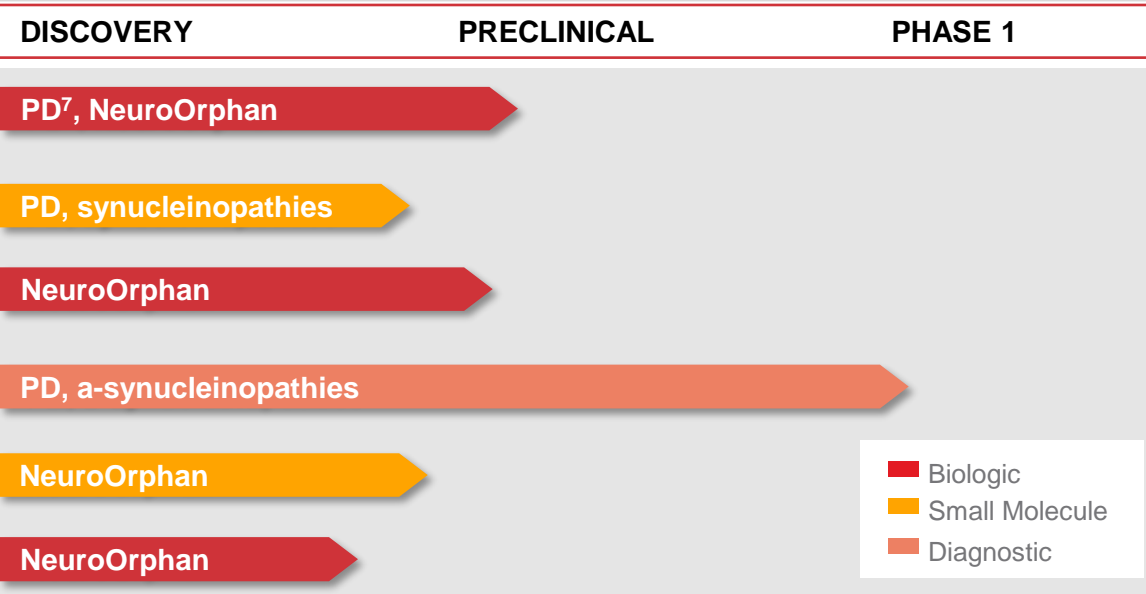
<b>anti-a-syn antibody</b>	Start IND <sup>6</sup> -enabling studies for lead candidate (achieved <input checked="" type="checkbox"/> )
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Q2

<b>Morphomer a-syn</b> (a-syn inhibitor)	Identify first biologically active small molecule
<b>anti-TDP-43<sup>8</sup> antibody</b>	Declare clinical lead; start IND-enabling studies

Q4

<b>a-syn PET tracer</b>	Advance 3 <sup>rd</sup> -gen candidate to clinical stage
<b>Morphomer-NLRP3<sup>9</sup>-ASC<sup>10</sup></b>	Declare lead (non-CNS <sup>11</sup> )
<b>anti-NLRP3-ASC antibody</b>	Declare pre-lead



■ Biologic  
■ Small Molecule  
■ Diagnostic

(1) Alzheimer's disease; (2) Cohort 1; safety/tolerability; immunogenicity; (3) Phase 1b completion expected in Q2; (4) AD-like cognitive impairment associated with Down syndrome; (5) Phase 1 completion expected in Q2; (6) Investigational new drug; (7) Parkinson's disease; (8) TAR DNA-binding protein 43; (9) (NOD)-like receptor protein 3; (10) Apoptosis-associated speck protein containing a CARD; (11) Central nervous system



## 7. Financial figures

# Substantial funds from partnerships complement equity investments

## Distinguished institutional investors<sup>1</sup>



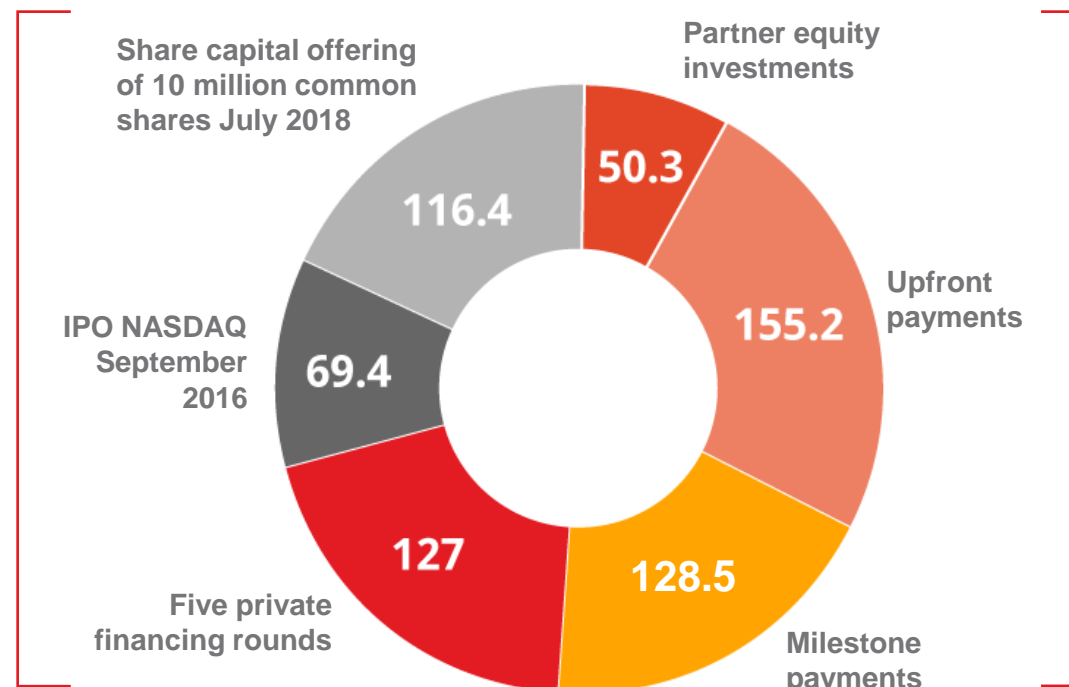
Prosight Capital



TEMASEK

## Corporate funding to date<sup>2</sup> (in CHF millions)

**CHF 313 million**



**CHF 334 million**



- CHF 313 million from investor funds
- CHF 334 million in partnering related funds<sup>3,4</sup>
- CHF 3 billion in total potential payments plus potential royalties outstanding

(1) Based on latest schedule 13G and 13F filings; (2) Converted to CHF based on exchange rates at times of receipt; (3) Milestone payments as of March 31, 2020; (4) With Lilly convertible loan

# 2019 Financial update

Strong  
cash position

- CHF 288.6 million compared to CHF 186.5 million at December 31, 2018

Substantial  
partnership revenues

- Received CHF 111.0 million in 2019, an increase of CHF 103.8 million compared to 2018

R&D expenses

- Increased by CHF 6.2 million year-over-year to CHF 50.4 million in 2019

G&A expenses

- Increased by CHF 3.6 million year-over-year to CHF 16.1 million in 2019

IFRS income/(loss)

- Net income after taxes of CHF 45.4 million in 2019, compared with net loss of CHF 50.9 million in 2018

**Sufficiently funded to reach multiple value inflection points  
through at least Q1 2024<sup>1</sup>**

(1) Excluding potential future milestone payments



## 8. Strategic outlook



# Drivers of value creation in 2020 and beyond

## Ongoing strong financial position

CHF 277.9 million in cash<sup>1</sup>, ensuring the Company is fully financed through Q1 2024

## Pipeline progression

Industry-leading molecules against multiple key targets; i.e. anti-a-syn and anti-TDP-43 antibodies advancing to preclinical development

## 5 clinical data readouts in 2020

Multiple near-term value inflection points, including the 1<sup>st</sup> Phase 2 readout of an anti-Tau antibody in Alzheimer's disease

## Pioneering precision medicine

Addressing large market opportunity with differentiated, patient-focused approach

(1) As of March 31, 2020

We continue to shape the future of neurodegeneration by discovering and developing breakthrough therapies through pioneering science and precision medicine