



TARGETING ALZHEIMER'S AND OTHER NEURODEGENERATIVE DISEASES WITH NOVEL THERAPEUTICS AND DIAGNOSTICS



Disclaimer

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About AC Immune

Based at the EPFL campus in Lausanne, Switzerland

Nasdaq listed in September, 2016 with net proceeds of \$70.5m

Ticker symbol: Nasdaq: ACIU

Approximately \$650m market cap, 56.8 million shares outstanding

80 full-time employees



Vision

*To become a global leader in **precision medicine**¹ of neurodegenerative diseases leveraging dual proprietary technology platforms to develop breakthrough therapies*

SupraAntigen™

Vaccines and antibodies specific to disease causing conformations



Morphomer™

Conformation-sensitive small molecules

(1) The goal of precision medicine is to deliver optimally targeted and timed interventions tailored to an individual's molecular drivers of disease.

Investment highlights

AC Immune: a leader in neurodegenerative diseases

6

Multiple high-profile strategic alliances with leading industry partners

1

Large and growing neurodegenerative disease market driven by significant unmet medical need

2

Proprietary technology platforms (SupraAntigen, Morphomer) as engines for sustained growth

5

Well-positioned financially with CHF 117.2 m in cash, enough through min. Q1 2019. Increasing investment into key areas of neuro-orphan and neuro-inflammation

4

Lead product, crenezumab, in Phase 3 development with compelling Phase 2 data and favorable safety profile

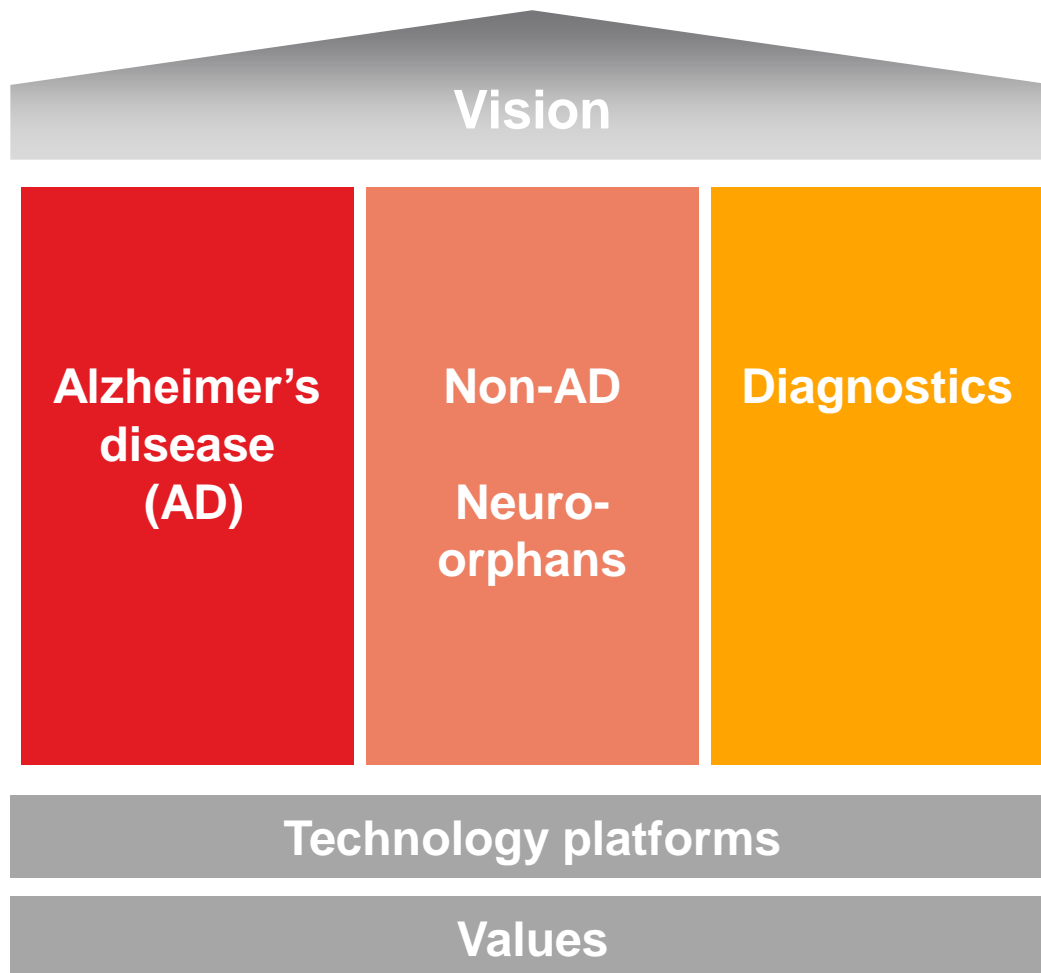
3

Diverse product pipeline with complementary diagnostic agents in clinical development



Business strategy: 3-pillar approach

Precision medicine creates ultimate differentiation



Alzheimer's disease

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

Non-AD, neuro-orphans

- Discover therapeutics in Parkinson's disease
- Leverage AD therapeutics in Down syndrome (DS), PSP¹ and other neuro-orphan diseases

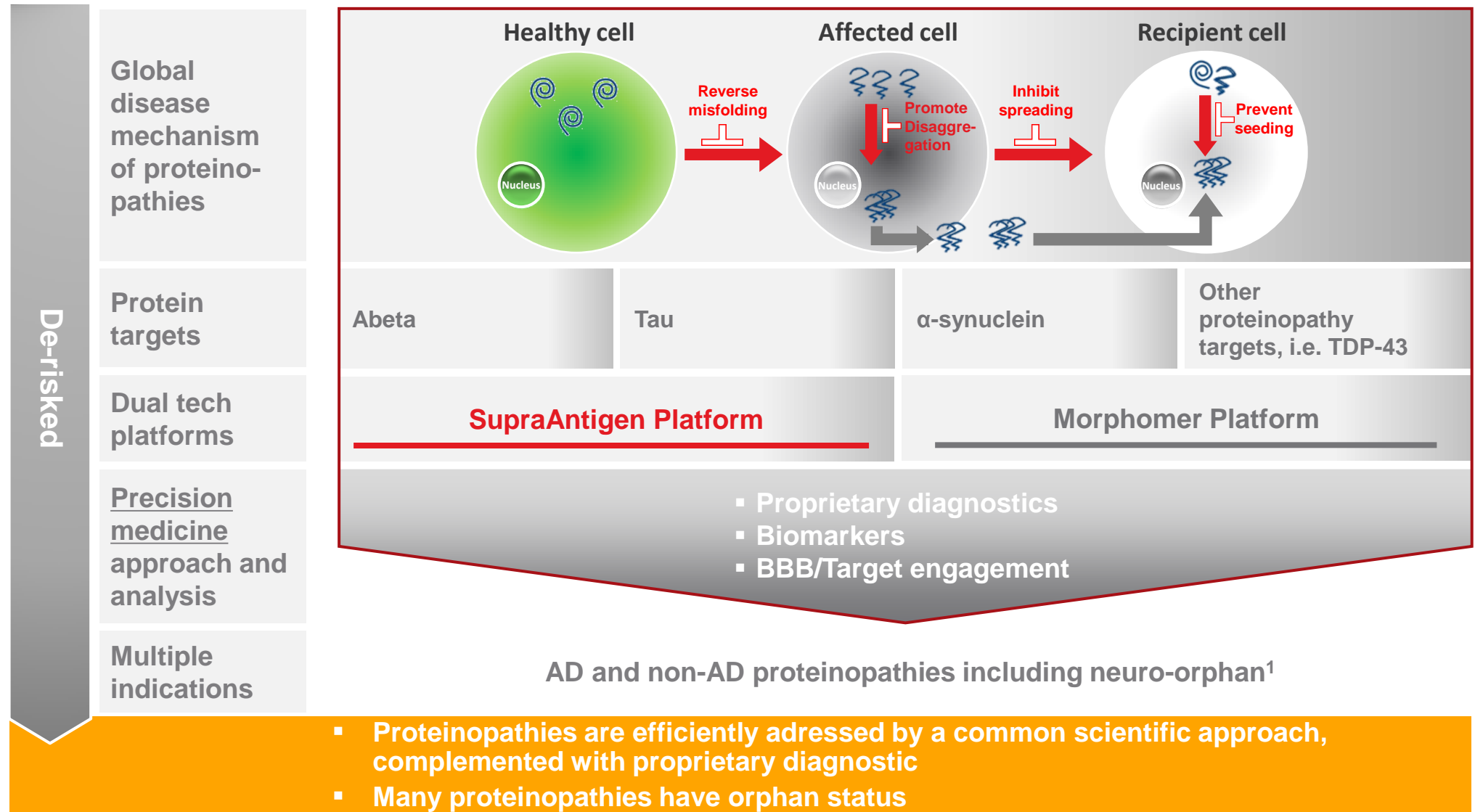
Diagnostics

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

(1) Progressive supranuclear palsy

High-Science approach to proteinopathies

Dual platforms enable discovery and opportunity for synergistic development



(1) non-AD proteinopathies: Parkinson's disease; Down syndrome, progressive supranuclear palsy (PSP); Frontotemporal dementia (FTD); Dementia with Lewy Bodies; cerebral amyloid angiopathy; myotonic dystrophy; corticobasal degeneration; Pick's disease; amyotrophic lateral sclerosis; chronic traumatic encephalopathy

Technology platforms

Product-focused and highly versatile platforms drive growth

SupraAntigen™

Vaccines and antibodies specific to disease causing conformations



Immunotherapy against conformation-specific targets



- Highly selective conformation-specific immunotherapy
- Antibodies and vaccines
- Rapid antibody response
- Favorable safety (T-cell independent)

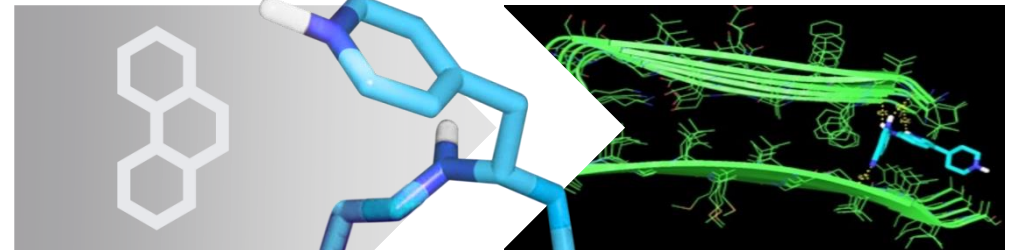
- **Crenezumab¹** in AD (Ph 3)
- **ACI-24¹** in AD (Ph 1/2a) and DS (Ph1b)
- **ACI-35²** in AD (Ph 1b)
- **Anti-Tau antibody²** in AD (Ph 1)
- **α -synuclein³/TDP-43⁴ antibodies** in PD and neuro-orphan indications (pre-clinical)

(1) Abeta (2) Tau (3) α -synuclein (4) TDP-43

Morphomer™

Conformation sensitive small molecules

Generation of conformation-specific small molecules

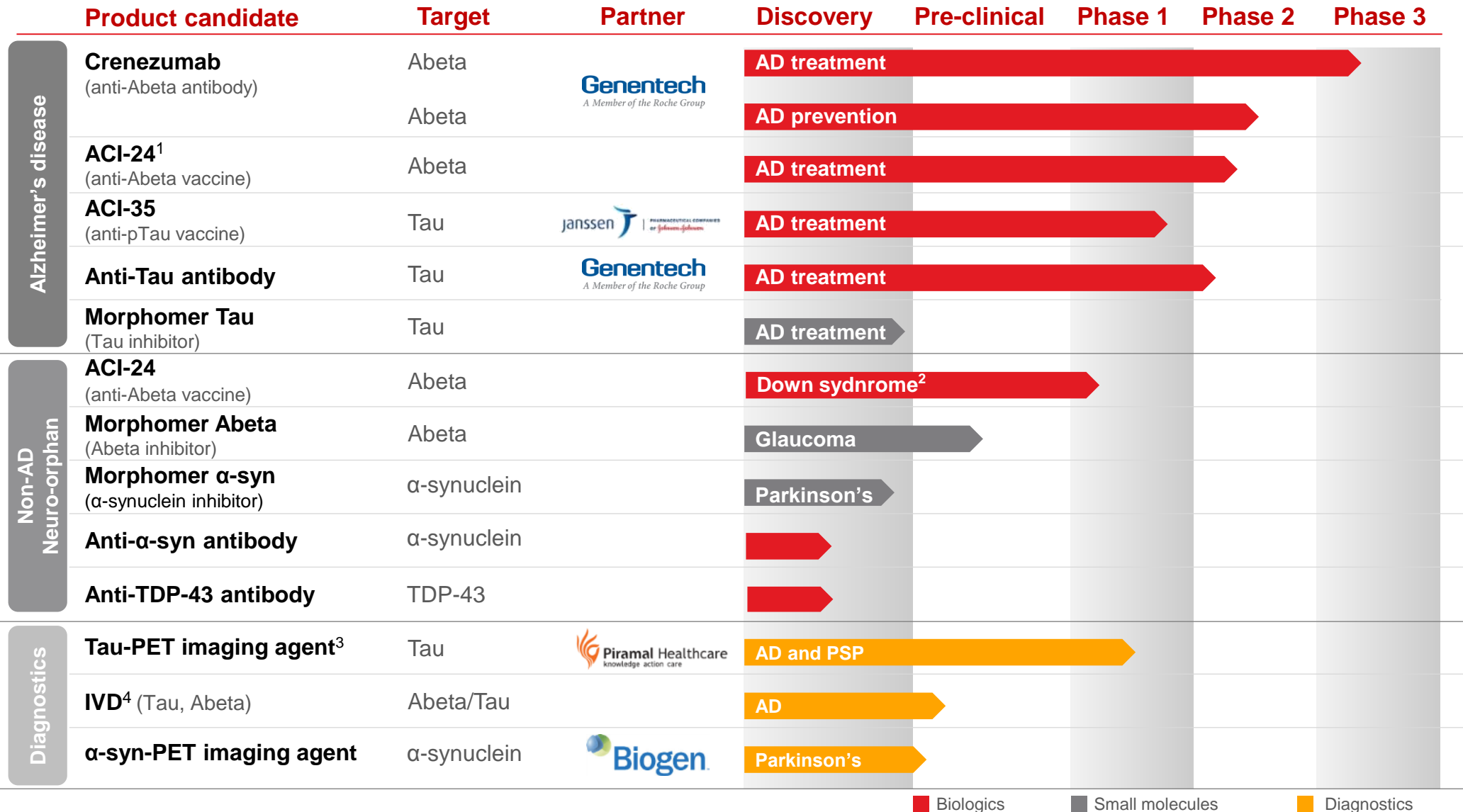


- Conformation specific small molecules through rational design
- Robust library of small molecules
- Protein propagation inhibitors

- **Tau-PET imaging agent²** in AD and PSP (Ph 1)
- **Morphomers for different targets^{1,2,3}** in AD and PD (discovery / pre-clinical)
- **α -syn-PET imaging agent³** in PD (pre-clinical)

AC Immune's robust pipeline

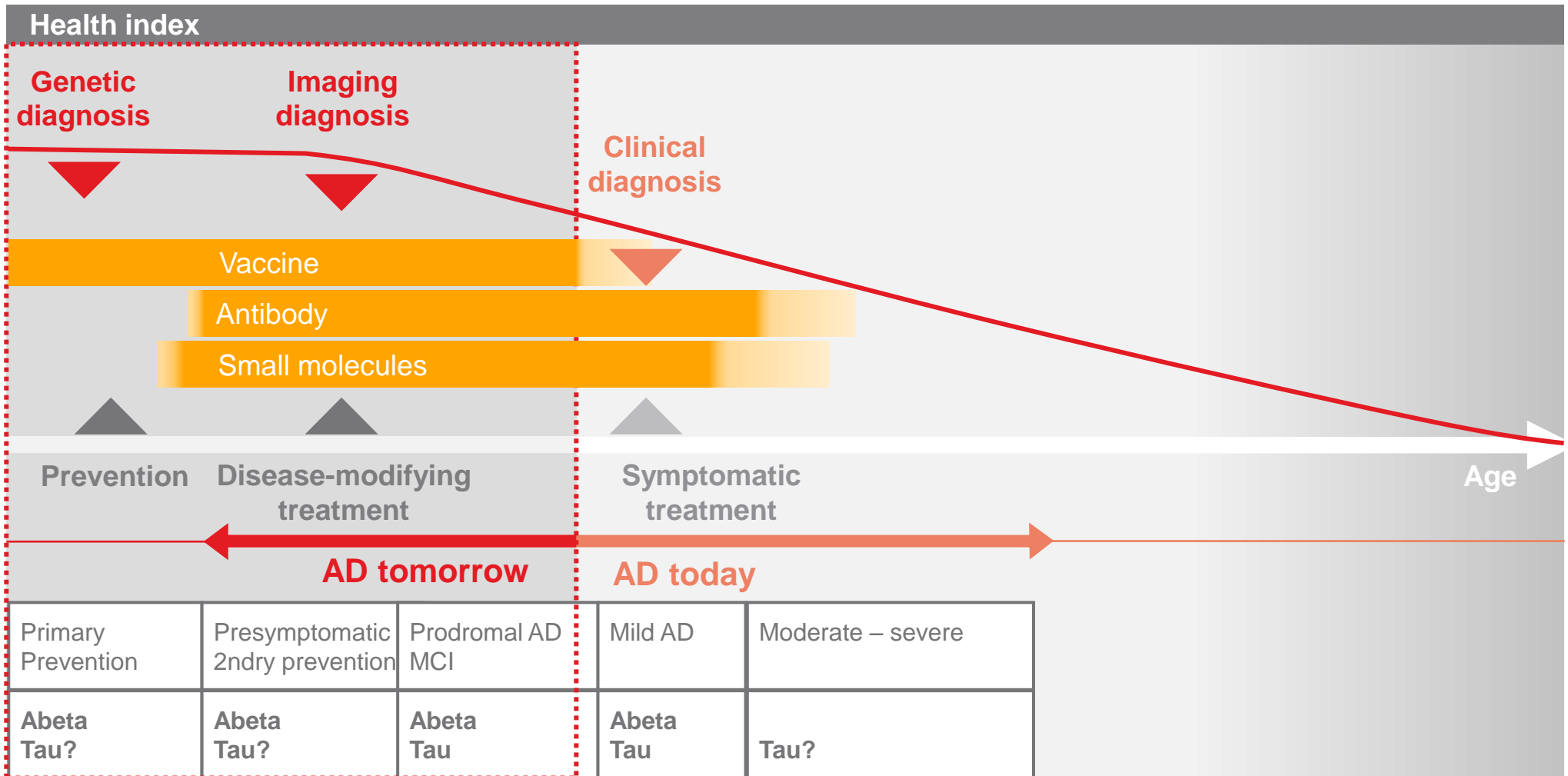
Driven by proprietary technology platforms



(1) In process of completing a Phase 1/2a study; (2) AD and cognitive impairment associated with Down syndrome; (3) Positron emission tomography; (4) *in-vitro* diagnostic

Alzheimer's disease treatment

Early diagnosis translates into earlier treatment and better outcome




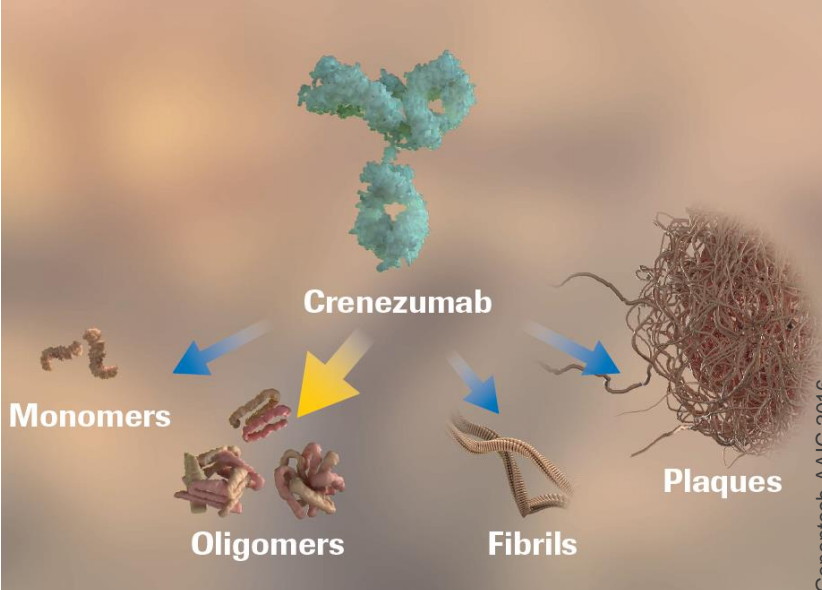
- The future treatment paradigm for neurodegenerative diseases may involve **different disease-modifying treatments used at various points in the progression of the disease**

- Possible **combination** therapies:
 - Passive immunization targeting Abeta (e.g., crenezumab) together with anti-Tau antibodies
 - Immunotherapies and small molecules targeting Abeta or Tau

Clinical pipeline

Crenezumab – Phase 3 in AD



Target	Misfolded Abeta	
Licensed to	 <i>A Member of the Roche Group</i>	
Key results in pre-clinical studies	<ul style="list-style-type: none"> ▪ Unique epitope, breaks up Abeta aggregation and prevents assembly ▪ Binds to monomers, oligomers (10x higher affinity) and fibrils of Abeta ▪ IgG4 antibody designed to reduce effector function on microglia translating to superior safety profile <ul style="list-style-type: none"> ▪ Clears excess of Abeta while limiting inflammatory cytokines to avoid ARIA-E¹ behavioral deficits 	
Development status	<ul style="list-style-type: none"> ▪ Phase 3 commenced in 2016 (CREAD 1) and 2017 (CREAD 2), fast-track designation ▪ Encouraging Phase 2 data in mild patients ▪ First-in-class drug in AD prevention trial (Phase 2) 	

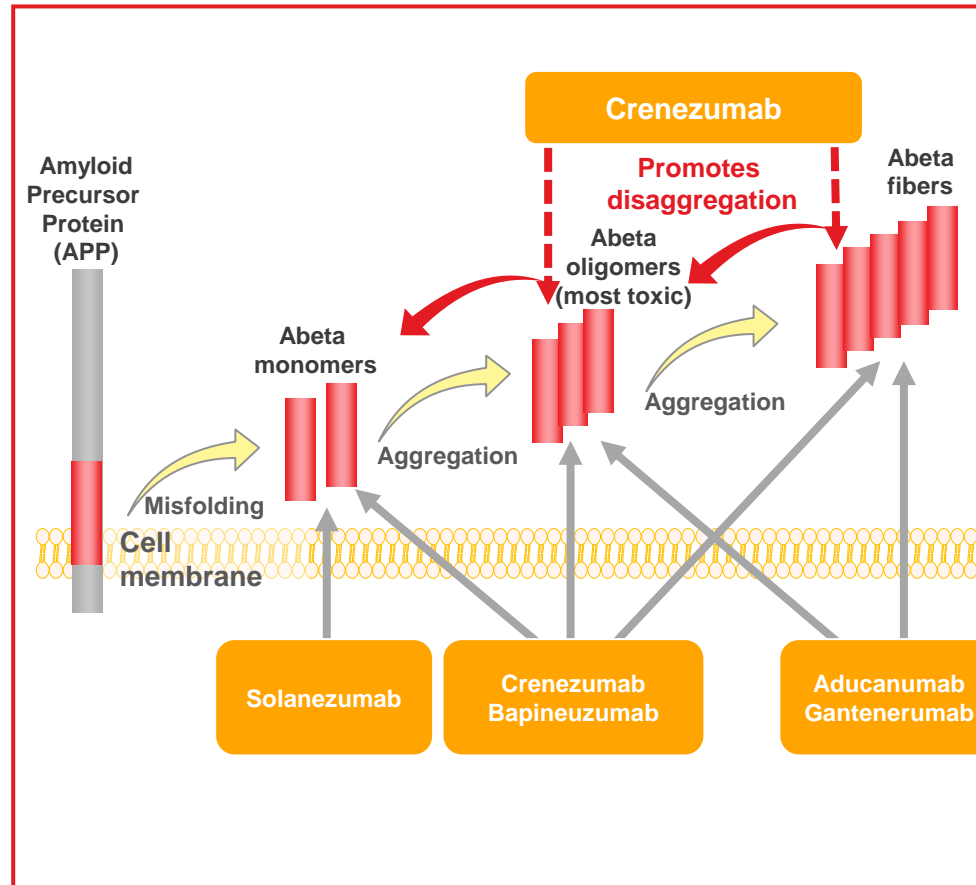
(1) ARIA-E = Amyloid Related Imaging Abnormality-Edema

Crenezumab

Compelling binding characteristics with unique disaggregation and safety profile



Multiple neuroprotective mechanisms of action



Uniquely differentiated binding profile with favorable preliminary safety profile

Antibody	Binding profile	Stage	Phase 3 dosage Clinicaltrials.gov	Iso-type	ARIA-E (safety)
Crenezumab (GNE/Roche/AC Immune)	Monomers + Oligomers +++ Fibrils ++	Ph 3	60mg/kg	IgG4	< 0.2% in Ph2 ¹
Aducanumab (Biogen/Eisai)	Oligomers +++ Fibrils +++	Ph 3	ApoE4+: 3 or 10 mg/kg ApoE4-: 6 or 10mg/kg	IgG1	41% , 37% and 35% in Ph1b (DB) ²
Gantenerumab (Roche/Morphosys)	Oligomers ++ Fibrils +++	Ph 3	Double blind (DB): 1.5 or 3.2mg/kg Open Label (OLE): up to 17.1mg/kg	IgG1	10% in DB 22.9% in OLE ³
Solanezumab (Eli Lilly)	Monomers +++	Ph 3 failed	5.7 mg/kg	IgG1	1% in Ph3 ⁴
BAN2401 (Eisai/Biogen)	Soluble Protofibrils +++ Fibrils +	Ph 2	2.5mg/kg 5 mg/kg 10mg/kg	IgG1	0% in Ph1 ⁵
Bapineuzumab (Elan/Pfizer/J&J)	Monomers ++ Oligomers +++ Fibrils ++	Ph 3 failed	0.5mg/kg 1 mg/kg	IgG1	~10% in Ph3 ⁶

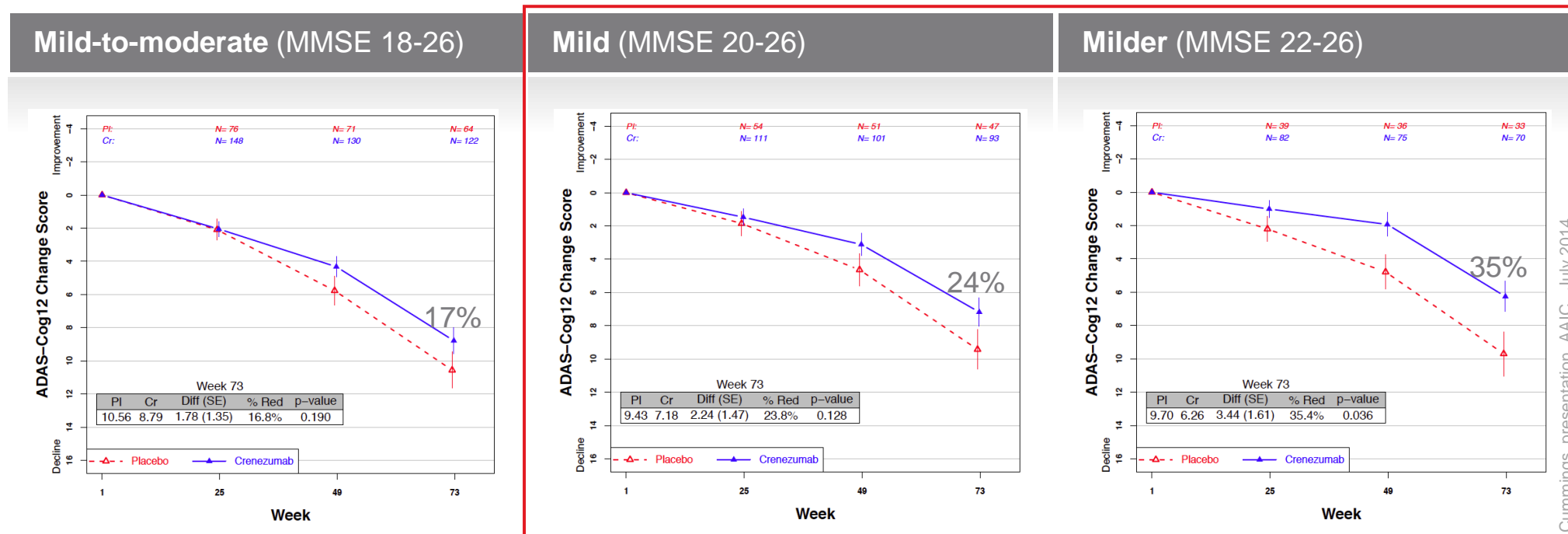
Crenezumab's multiple neuroprotective mechanisms of action, in particular direct binding and inhibition of toxic Abeta oligomers, may differentiate crenezumab's clinical benefit

(1) Lin et al, CTAD 2017; (2) Budd-Heaberlein, JPAD 2017; (3) Anelkovic, CTAD 2017; (4) Siemers et al, Alzheimer's & Dementia 2016; (5) Logovinsky et al, Alzheimer's Research & Therapy 2016; (6) Salloway et al, New Engl J Med 2014

Crenezumab – Phase 2 results

ABBY cognition study high dose IV cohort

Stronger performance in milder patients (ADAS-cog 12)



Mild (MMSE 20-26): pre-specified analysis of data

Milder (MMSE 22-26): non-prespecified exploratory analysis of data

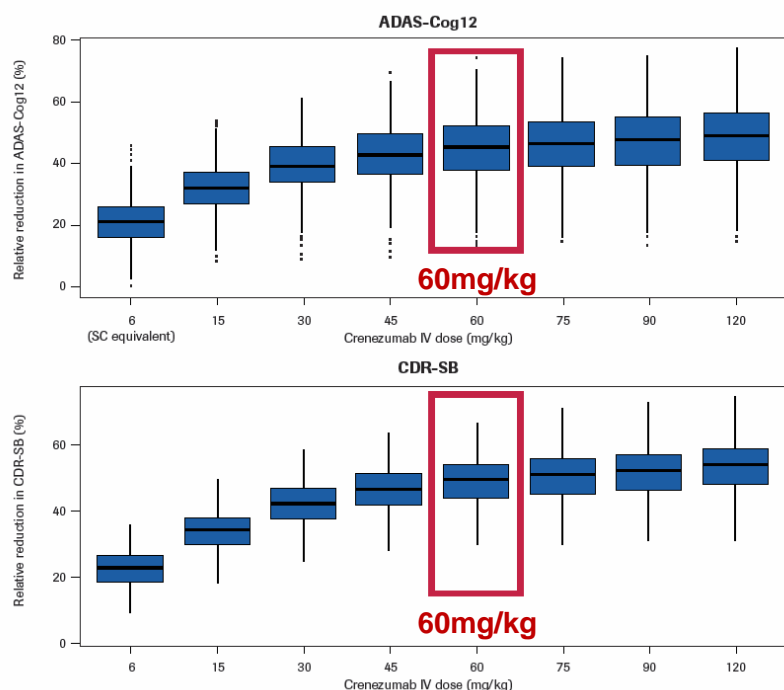
- Significant 35% reduction in cognitive decline in milder patients (p=0.036)
- In the mild and moderate patient population, a positive trend in cognition was observed although statistical significance was not achieved
- Consistent effects increasing over time

Crenezumab – Phase 3

Anti-Abeta antibody with potential to become best-in-class disease modifying treatment for AD



Dose-response simulation on cognitive endpoints in patients with mild AD (MMSE 22-26)



- Choice of the dose for Phase 3 based on modelling of results from the Phase 2 in a drug-disease model
- Antibody exposure needed for maximal cognitive and clinical effect reached at 60mg/kg
- Phase 1 safety results support use of 60mg/kg in Phase 3

Key ongoing clinical studies

Pivotal CREAD 1 and CREAD 2 trial design builds on ABBY/BLAZE findings and latest Abeta understanding

Study design

- 750 patients with prodromal to mild AD per study
- 60mg/kg every four weeks (4x higher than Phase 2 ABBY)

Key Eligibility

- MMSE 22+ and CDR-GS 0.5/1.0
- Brain amyloid positivity
- 50-80 years of age

Endpoints

- Primary endpoint: CDR-SB at 105 weeks
- Key secondary endpoint: ADAS-cog 13 at 105 weeks
- Other endpoints: safety, biomarkers and economic

Study timelines

- CREAD 1 started in Q1 2016 – expected data 2020
- CREAD 2 started in Q1 2017 – expected data 2021

API-ADAD prevention trial in Colombian population

- 300 cognitively healthy individuals of whom 200 are genetically predisposed to develop early AD
- Study started in Q4 2013

Polhamus et al., poster CTAD, 2016

www.clinicaltrials.gov

ACI-24 – Phase 1/2a in AD and Phase 1b in DS



Anti-Abeta therapeutic vaccine


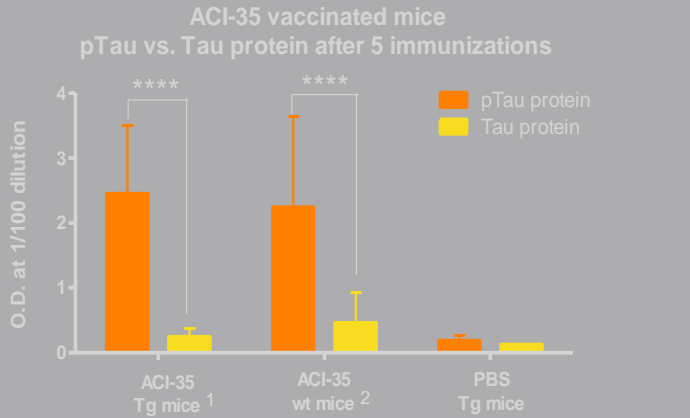
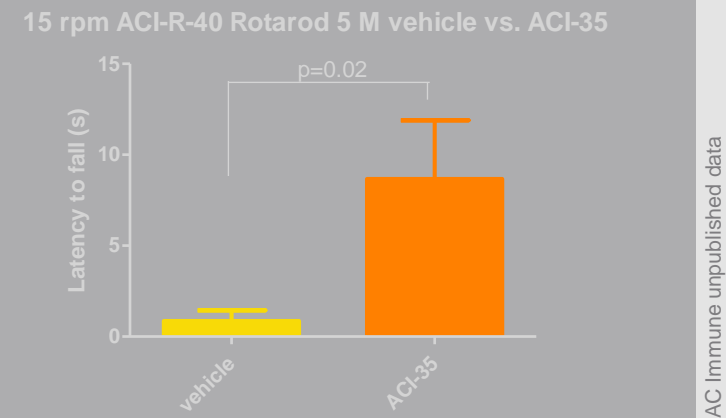
Target	Misfolded Abeta
Key results in pre-clinical studies	<ul style="list-style-type: none"> Strong and robust antibody response¹ specific for oligos and fibrils Favorable safety profile with lack of local inflammation and T-cell independent mode-of-action¹ Significant reduction of Abeta levels in brain and compelling memory enhancement (AD and DS models) <div style="display: flex; justify-content: space-around;"> <div data-bbox="539 528 1227 970"> <p>Memory restoration (ORT³) in AD model</p> <p>Muhs et al., PNAS 2007</p> </div> <div data-bbox="1240 528 2002 970"> <p>Memory restoration (ORT³) in DS model</p> <p>Belinchenko et al., PLOS ONE 2016</p> </div> </div>
AD development status	<ul style="list-style-type: none"> Clinical Phase 1/2a (in-house) with interim data <ul style="list-style-type: none"> Positive safety and tolerability Cohort 3 showed trend of reduction of accumulation of brain amyloid (PET imaging) Cohort 3 showed trend of reduction of clinical decline (CDR-SB)
DS development status	<p>Clinical Phase 1b with interim data expected in 2018</p> <ul style="list-style-type: none"> World first clinical trial for vaccine targeting AD in people with Down syndrome Dose escalation study in up to 24 adults with Down syndrome (25-45 years) Endpoints: safety and tolerability, effect on induction of anti-Abeta antibodies, biomarkers for Abeta brain and CSF load Recruitment of low-dose cohort completed in Q3 2017

(1) Pihlgren et al., Blood 2013; (2) ELISA = Enzyme Linked Immunosorbent Assay; (3) ORT = Object Recognition Test

ACI-35 - Phase 1b in AD

Anti-pTau therapeutic vaccine



Target	Aggregated pTau																		
Licensed to	 PHARMACEUTICAL COMPANIES or Johnson & Johnson																		
Key results in pre-clinical studies	<ul style="list-style-type: none"> High specific antibody response to pathogenic Tau Improvement of cognition, physical performance, behavior and prolongation of survival Favorable safety profile with T-cell independent mode-of-action <div style="display: flex; justify-content: space-around;"> <div data-bbox="533 662 1283 1204"> <p>Immune response highly specific to phosphorylated-Tau</p> <p>ACI-35 vaccinated mice pTau vs. Tau protein after 5 immunizations</p>  <table border="1"> <caption>Immune response highly specific to phosphorylated-Tau</caption> <thead> <tr> <th>Group</th> <th>pTau protein (O.D. at 1/100 dilution)</th> <th>Tau protein (O.D. at 1/100 dilution)</th> </tr> </thead> <tbody> <tr> <td>ACI-35 Tg mice 1</td> <td>~2.5</td> <td>~0.2</td> </tr> <tr> <td>ACI-35 wt mice 2</td> <td>~2.3</td> <td>~0.5</td> </tr> <tr> <td>PBS Tg mice</td> <td>~0.2</td> <td>~0.1</td> </tr> </tbody> </table> </div> <div data-bbox="1317 662 2107 1204"> <p>Highly significant improvement of behavior (P301S)</p> <p>15 rpm ACI-R-40 Rotarod 5 M vehicle vs. ACI-35</p>  <table border="1"> <caption>Highly significant improvement of behavior (P301S)</caption> <thead> <tr> <th>Group</th> <th>Latency to fall (s)</th> </tr> </thead> <tbody> <tr> <td>vehicle</td> <td>~1.0</td> </tr> <tr> <td>ACI-35</td> <td>~8.5</td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;">AC Immune unpublished data</p> </div> </div>	Group	pTau protein (O.D. at 1/100 dilution)	Tau protein (O.D. at 1/100 dilution)	ACI-35 Tg mice 1	~2.5	~0.2	ACI-35 wt mice 2	~2.3	~0.5	PBS Tg mice	~0.2	~0.1	Group	Latency to fall (s)	vehicle	~1.0	ACI-35	~8.5
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Group	Latency to fall (s)																		
vehicle	~1.0																		
ACI-35	~8.5																		
Development status	<ul style="list-style-type: none"> Clinical Phase 1b with interim data <ul style="list-style-type: none"> Acceptable safety and tolerability Dose-dependent and target-specific antibody response to pTau 																		

(1) Tg = Transgenic; (2) wt = wild type

Anti-Tau antibody - Phase 2 in AD

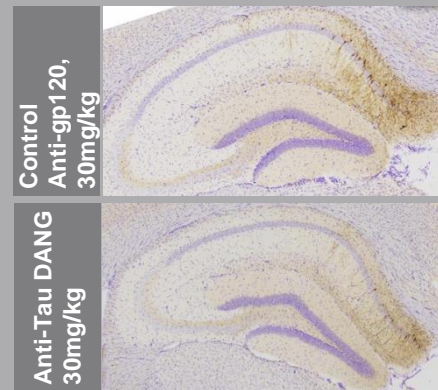
Anti-Tau antibody (RO7105705)



Target	Designed to intercept the cell-to-cell spread of pathological tau in extracellular space of brain
Licensed to	Genentech <i>A Member of the Roche Group</i>
Key pre-clinical results	<ul style="list-style-type: none"> Tau pathological spread is dose dependently reduced independent of effector function Proven target engagement through dose-dependent rise of plasma Tau (mice, cynos)

Pre-clinical results

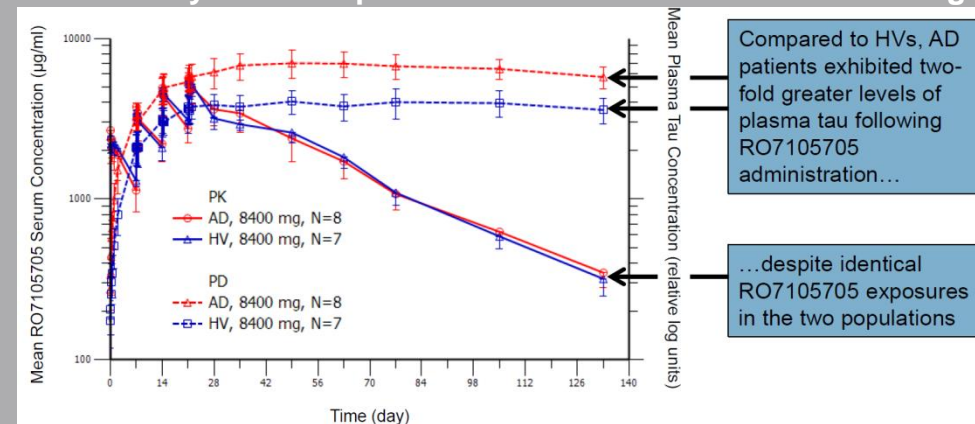
Dose dependent reduction of Tau pathology



AD/PD conference, Vienna, April 2017

Clinical results

Pharmacodynamic response: Plasma Tau concentration 2x higher in AD than in HV¹



Kerchner et al., CTAD 2017

Development status

(1) Healthy volunteers

Phase 1 data

- No dose-limiting toxicities up to high doses
- Dose-proportional PK with median half-life of 32.3 days
- Detectable in CSF, indicating CNS exposure
- Pharmacodynamic response: 2x greater plasma Tau concentrations observed in patients with AD than in HVs


Phase 2 design

- 360 prodromal-to-mild AD patients (MMSE 20-30, CDR-GS 0.5 or 1)
- 3 active doses or placebo for 72 weeks, followed by 96 week open label study
- Primary endpoints: safety measures and CDR-SB

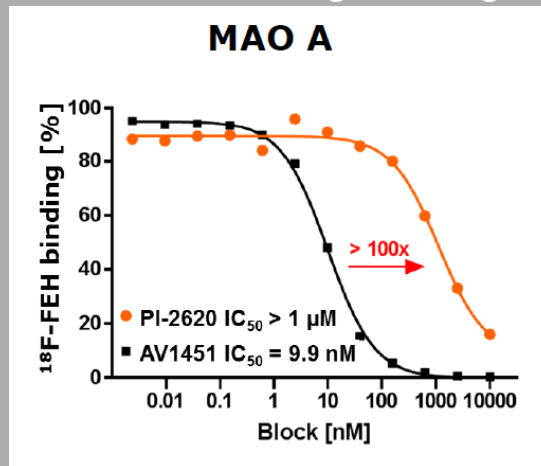
Tau-PET imaging – Phase 1 in AD and PSP



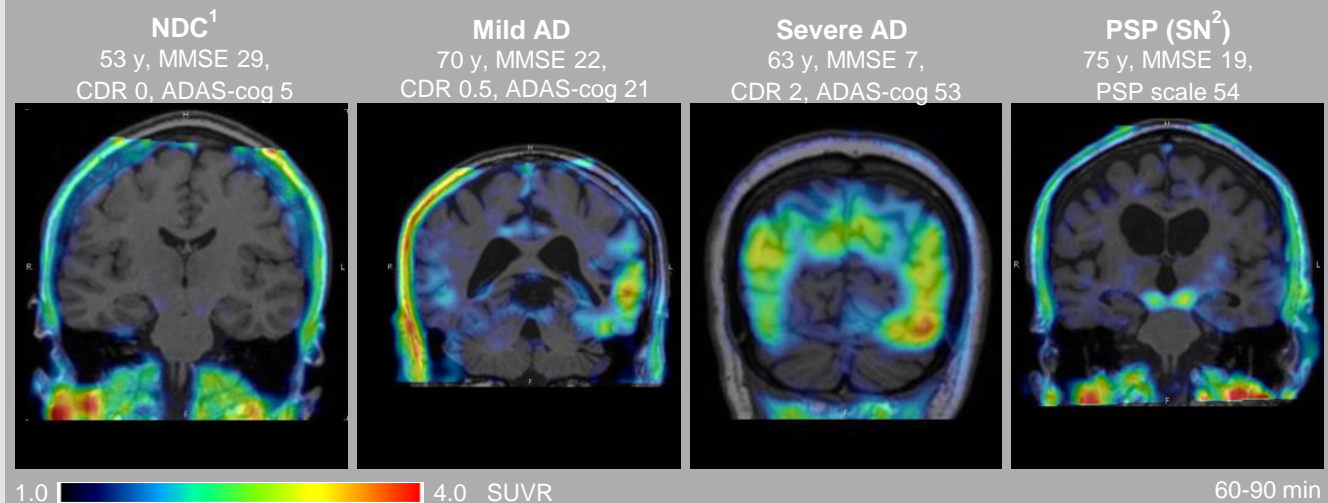
Morphomer Tau PI-2620

Target	Misfolded Tau (4R and 3R)
Licensed to	Piramal Imaging  Piramal Life Sciences knowledge action care
Key results	<ul style="list-style-type: none"> High specificity for pathological forms of human Tau in AD and other tauopathies Outstanding PET tracer-profile – excellent brain penetration and high selectivity even in early disease stage

Pre-clinic: High selectivity and absence of off-target binding



Phase 1 clinical study: distinct, specific Tau distribution pattern in AD and PSP



Stephens, AD/PD conference, Vienna, April 2017

Development status

- Clinical Phase with interim data
 - Fast kinetics with robust brain uptake, fast wash-out in non-target regions and low off-target uptake
 - Distinct and specific Tau distribution pattern in AD and PSP subjects
 - Good reproducibility of PET-scans confirmed by test-retest study

(1) NDC = non-demented control; (2) SN = substantia nigra

Financial overview and catalyst timeline

Financial highlights



- Cash position CHF 117.2 million
- Quarterly burn-rate: CHF 13.5 to 15 million
- Cash runway: Fully funded through 2019
- Pre-IPO financing rounds raised approx. \$130 million¹
- Net proceeds from September 2016 IPO: \$70.5m
- Funding through partnering activities including potential payments of more than \$1.4 billion; \$1.24 billion outstanding
- Analyst coverage: Credit Suisse, Leerink, Jefferies

(1) exchange rate fixed as of closing date of last financing round

Successful execution of strategy with supportive near-term milestones

Achievements since IPO

Key milestones for H2 2017–18

	Achievements since IPO	Key milestones for H2 2017–18
Data read-outs	<ul style="list-style-type: none"> ✓ Q1 2017: Encouraging pre-clinical and early Phase 1 data of Tau-PET imaging agent in AD ✓ Q1 2017: Encouraging interim data of Phase 1/2a of ACI-24 and Phase 1b of ACI-35 ✓ Q4 2016: Crenezumab Phase 1b safety data and exposure-response model supporting dosage of 60mg/kg (4x higher vs. Phase 2) 	<ul style="list-style-type: none"> ▪ 2017: ACI-24 in AD Phase 1/2a (safety-only data) ▪ 2017: ACI-35 in AD Phase 1b results ▪ 2018: ACI-24 Phase 1b in DS interim data
Study initiations	<ul style="list-style-type: none"> ✓ Q4 2016: Tau-PET imaging agent start of Phase 1 clinical study in PSP (milestone from Piramal Imaging) ✓ Q1 2017: Second pivotal Phase 3 trial of Crenezumab CREAD 2 started by Genentech ✓ Q4 2017: Phase 2 of anti-Tau antibody based on Phase 1 data started by Genentech 	<ul style="list-style-type: none"> ▪ 2017: ACI-24 in AD Phase 2 ▪ 2017: ACI-35 next phase of clinical development based on Phase 1b data ▪ 2017: Tau-PET imaging agent Phase 2 ▪ 2017: α-synuclein-PET imaging agent development ▪ 2017 / 2018: Morphomer Tau development
Partnerships	<ul style="list-style-type: none"> ✓ Q1 2017: Research collaboration with Essex Bio-Technology neuroprotective agent for treatment of AD and frontotemporal dementia (FTD) ✓ Q4 2017: Continuation of MJFF grant for α-synuclein PET tracer for Parkinson's disease 	<ul style="list-style-type: none"> ▪ Potential future strategic collaboration(s)

Strategy for value creation

