

BIOARCTIC AB (PUBL)
NASDAQ STOCKHOLM: BIOA B

Handelsbanken Nordic Small & Mid Cap Seminar 2023

Stockholm, June 7, 2023

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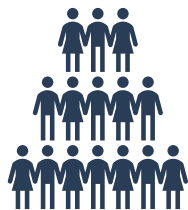


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BioArctic will, through world-leading innovative research, create drugs that improve the lives of patients with neurodegenerative diseases.

BioArctic – a unique Swedish biopharma company

Improving life for patients with neurodegenerative disorders



Work with disease-modifying treatments for Alzheimer's disease and other **neurodegenerative diseases** where there is a high unmet need



World-class research and development driven organization with basis in founder's breakthrough discoveries and fruitful collaborations with leading **academic researchers** and **pharma companies such as Eisai** generating and developing **innovative projects**



Attractive and well-balanced project portfolio with projects from discovery through Phase III, regulatory and on the market. A combination of both proprietary projects with substantial marketing and out-licensing potential and partnered projects generating income



Well-financed with more than BSEK 1.1 (MUSD ~110) in cash and **valuable collaboration agreements**

Attractive and well-balanced project portfolio

	Project	Partner	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	Regulatory & Market	
ALZHEIMER'S DISEASE	Lecanemab (BAN2401) (<i>Clarity AD</i>)	Eisai ¹	Early Alzheimer's disease ²						
	Lecanemab (BAN2401) (<i>AHEAD 3-45</i>)	Eisai ¹	Preclinical (asymptomatic) Alzheimer's disease ³						
	BAN2401 back-up	Eisai							
	BAN1503 (Trunc Abeta)								
	AD-BT2802								
	AD-BT2803 (Trunc Abeta with BT)								
	AD2603								
PARKINSON'S DISEASE	BAN0805 (alpha-synuclein)								
	PD1601 (alpha-synuclein)								
	PD1602 (alpha-synuclein)								
	PD-BT2238 (alpha-synuclein with BT)								
OTHER CNS DISORDERS	Lecanemab (BAN2401)		Down's syndrome ⁴ , Traumatic brain injury ⁴						
	ND3014 (TDP-43)		ALS						
	ND-BT3814 (TDP-43 with BT)		ALS						
	GD-BT6822 (GCase with BT)		Gaucher disease						
BLOOD BRAIN BARRIER	Brain Transporter (BT) technology platform								


1) Partner with Eisai for lecanemab for treatment of Alzheimer's disease since 2007. Eisai entered partnership with Biogen regarding BAN2401 (lecanemab) in 2014

2) Mild cognitive impairment due to Alzheimer's disease and mild Alzheimer's disease


3) Normal cognitive function with intermediate or elevated levels of amyloid in the brain

4) Dementia and cognitive impairment associated with Down's syndrome and with traumatic brain injury

Partnership model to de-risk clinical development and optimize commercialization opportunity


Alzheimer's disease 

Partner track record



Discovered and developed world's best-selling medicine for symptoms in Alzheimer's disease

Industry-leading pipeline in dementia area



Used to treat confusion (dementia) related to Alzheimer's disease

Collaboration and license

Milestones of up to

MEUR 101

remains to be received

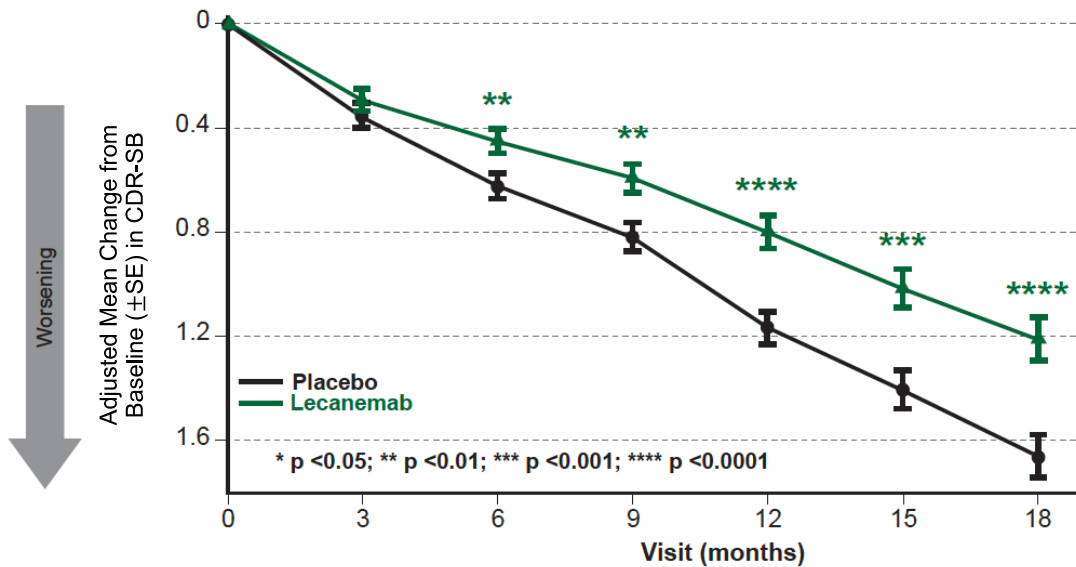
Royalties High single digit %

BioArctic retains rights to lecanemab in other indications and option to market in the Nordics

In 2023, BioArctic has received milestones of MEUR 35 from Eisai based on the approval in the US and submissions in the EU and Japan

Clarity AD: lecanemab demonstrates Clinically Meaningful Effect

Lecanemab met primary and all key secondary endpoints in Phase 3 Clarity AD study in 1795 early AD subjects with highly statistically significant results, reducing disease progression by 27% as measured by the primary endpoint CDR-SB* with relatively low frequency of the side effect ARIA



Clarity AD shows consistent highly statistically significant effects and confirms Phase 2b results

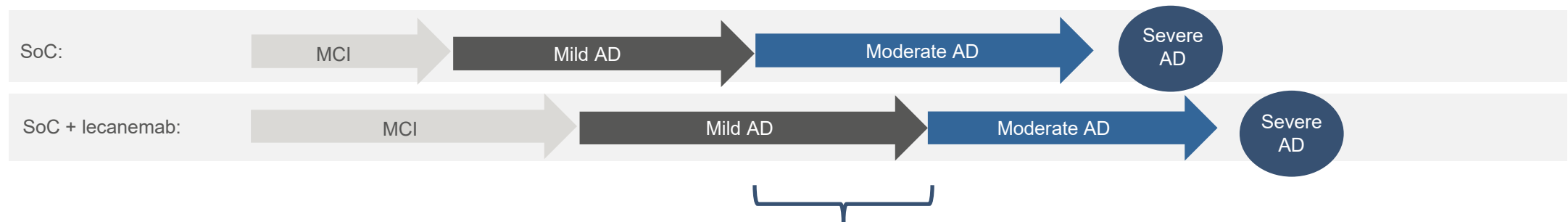
Safety profile confirmed in Phase 3 with low rates of ARIA, despite no titration and full dose from day 1

Slowing down disease progression means more time in less severe stages of Alzheimer's disease¹

Lecanemab modifies the underlying disease pathology²

Modeling study shows that lecanemab could delay progression to later stages of disease with 2-3 years

Estimated progression time to moderate Alzheimer's Disease (AD) for patients completing the full lecanemab dosing regime compared with patients subject to standard of care (SOC) only



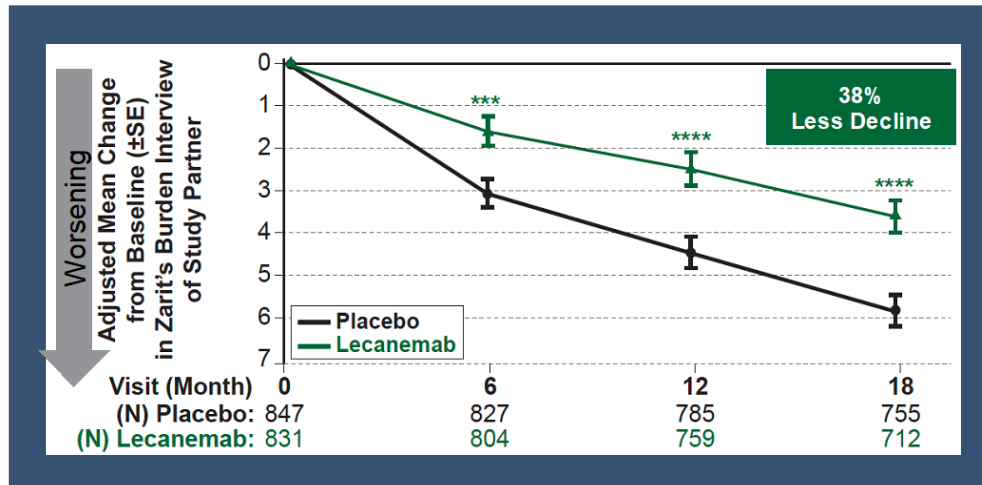
Estimated time gained before reaching moderate AD: + 2-3 years

The results from the modeling show the potential clinical value of lecanemab for patients with early Alzheimer's disease and how it can slow the rate of disease progression, delay progression to moderate Alzheimer's dementia with several years and consequently reduce the need for institutionalized care

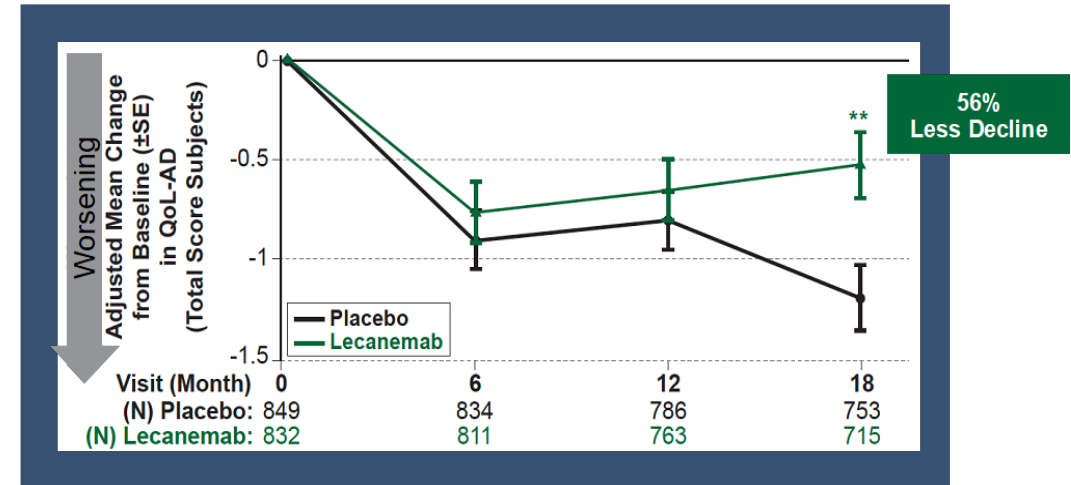
1. Tahami Monfared, A.A., Ye, W., Sardesai, A. *et al.* A Path to Improved Alzheimer's Care: Simulating Long-Term Health Outcomes of Lecanemab in Early Alzheimer's Disease from the CLARITY AD Trial. *Neurol Ther* (2023). <https://doi.org/10.1007/s40120-023-00473-w>

Tangible differences in daily life activities for subjects with Alzheimer disease achieved with lecanemab treatment

Study Partner Burden (total score)



QOL-AD (Total Score Subject)



Consistent benefits seen on quality-of-life and caregiver burden scales, showing 38% to 56% less decline

Leqembi™ (lecanemab) has the potential to become the first anti-A β antibody to receive full approval globally

USA

Granted accelerated approval Jan 6, 2023

Submission for full approval Jan 6, 2023.
Priority review granted with PDUFA July 6, 2023

Veterans' Health Administration provided coverage for Leqembi March 13, 2023

Eisai plans to submit s.c. formulation and maintenance dosing applications by Q1 2024

Japan

Marketing authorization application submitted on January 16, 2023.

Granted priority review on January 30, 2023

Expected PMDA decision H2 2023

EU

Marketing authorization application submitted on January 9, 2023

Accepted for a standard review on January 26, 2023

Expected EMA decision Q1 2024

China

Initiated Biologics License Application in December 2022.

Granted priority review on February 28, 2023

Expected NMPA decision Q1 2024

RoW

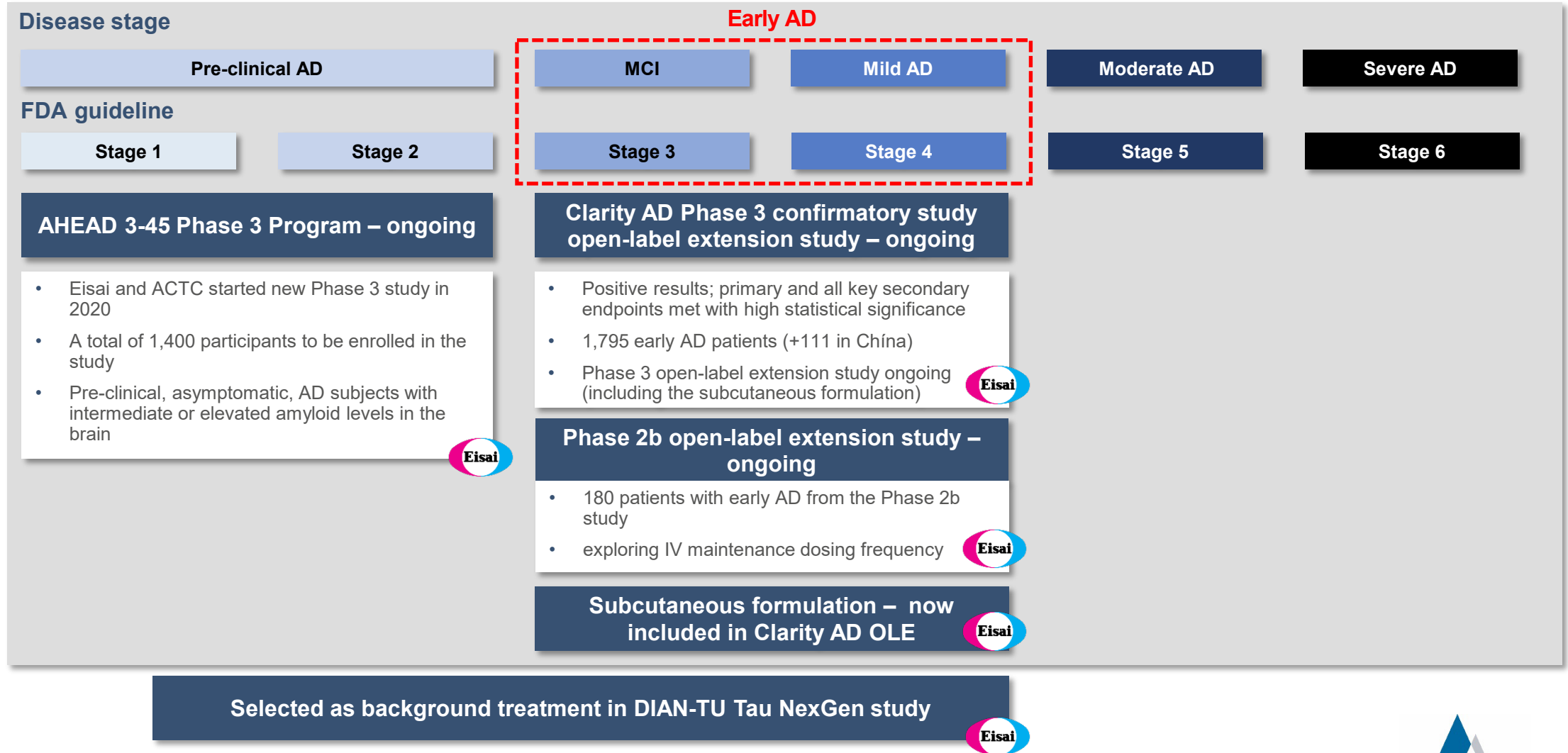
Canada: New Drug Submission accepted May 14, 2023

Great Britain: Market Authorization Application submitted May 19, 2023.
ILAP designation

PDUFA – Prescription Drug User Fee Act
PMDA – Pharmaceuticals and Medical Devices Agency
EMA – European Medicines Agency
NMPA – National Medical Products Administration
s.c. – subcutaneous
ILAP - Innovative Licensing and Access Pathway



Lecanemab – broad late-stage clinical program



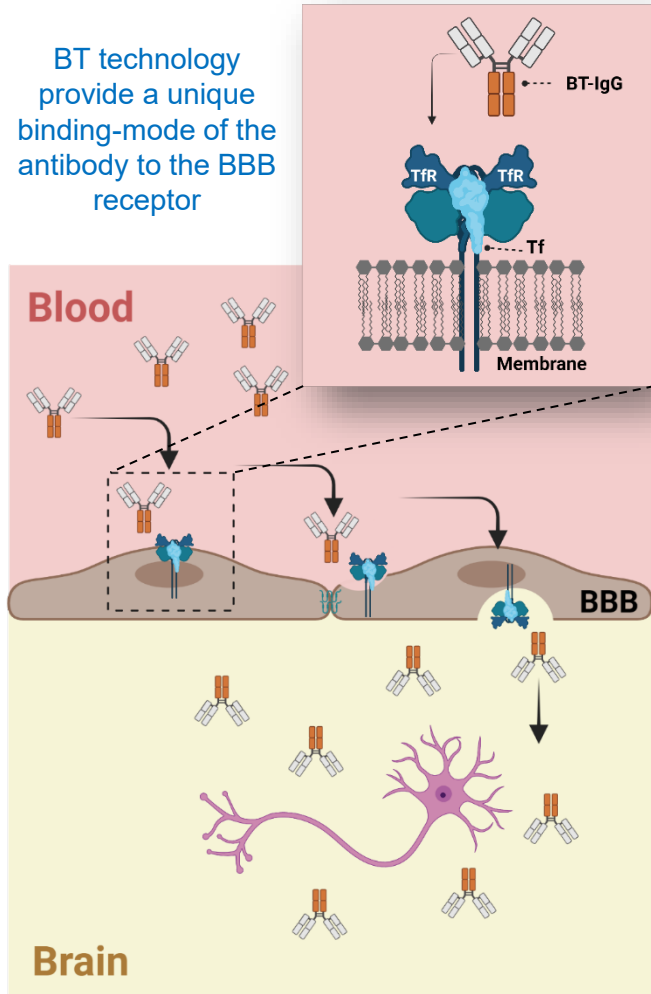
Our view on current developments in the Alzheimer's disease field



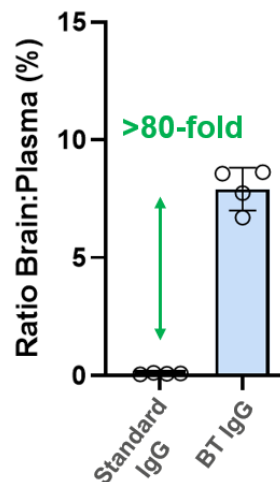
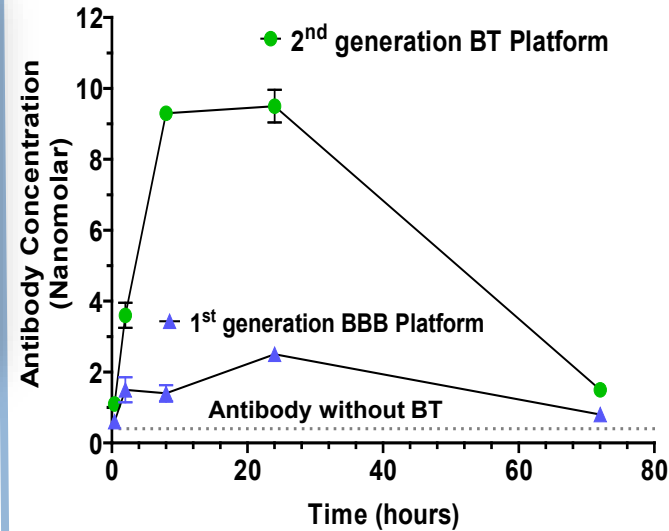
Brain Transporter (BT) technology delivers biotherapeutics to the brain

Novel platform achieves high exposure and broad brain distribution

Brain Transporter technology mediate transport across the BBB

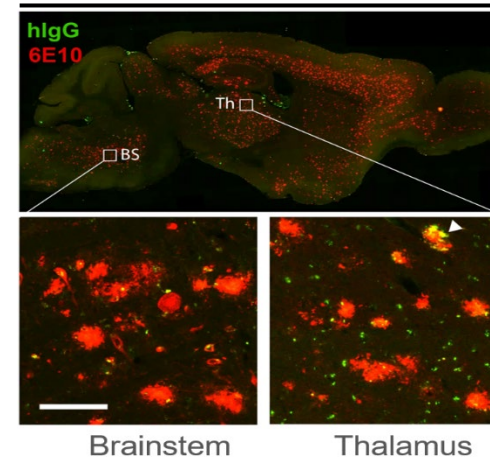


2nd – generation technology provide superior brain exposure

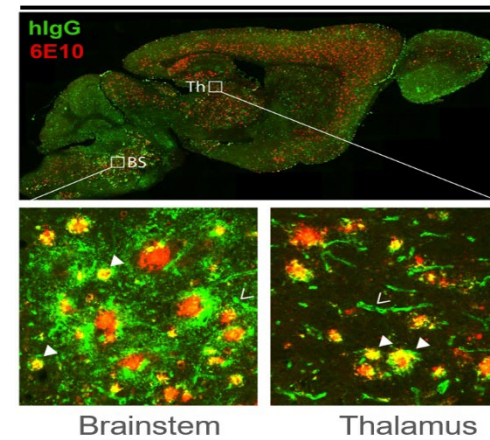


Rapid and global brain distribution

mAb158



BT-mAb158



Red: Amyloid-β plaque in the brain
Green: Antibody in the brain at the Amyloid-β target
8-hour post-dose

Short summary

- BT technology based on a novel approach using the Transferrin receptor (TfR) at the blood-brain barrier (BBB) (patent submitted)
- BT technology currently utilized in five portfolio projects (AD-BT2802, AD-BT2803, PD-BT2238, ND-BT3814, GD-BT6822)

Opportunity

- Drug delivery across the BBB remains a key obstacle for the development of efficient neurological disease therapies
- Opportunity to combine BT technology with internal projects as well as external antibodies or proteins through several non-exclusive license deals

TDP-43 – opportunity for ALS and other neurodegenerative disorders

Amyotrophic lateral sclerosis (ALS) – a debilitating rare disease

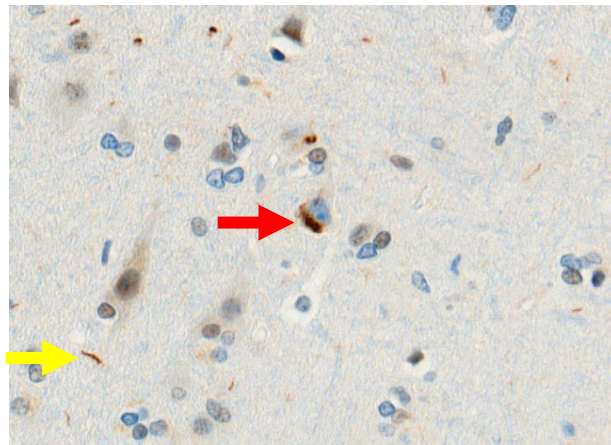
- Progressive neurodegenerative disease characterized by motor neuron degeneration

TDP-43 a promising target for ALS – an orphan disease indication

Several mutations in TARDBP (encoding TDP-43) are linked to familial ALS¹⁾ and FTD²⁾

Pathological aggregation of TDP-43 is found in multiple neurodegenerative diseases

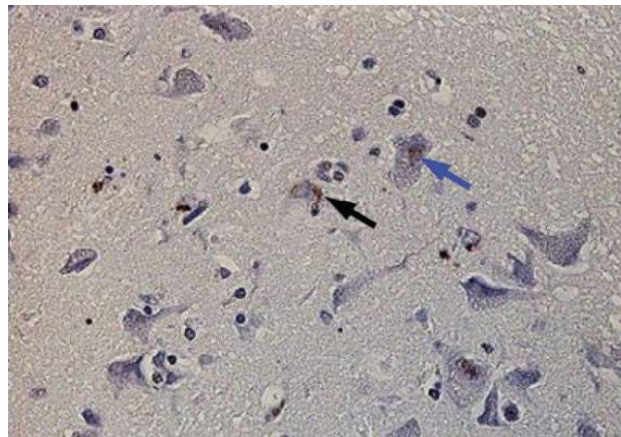
- 97% of **ALS**¹⁾ cases (orphan drug indication)
- 50% **AD**²⁾ cases
- 45% **FTD**³⁾ cases



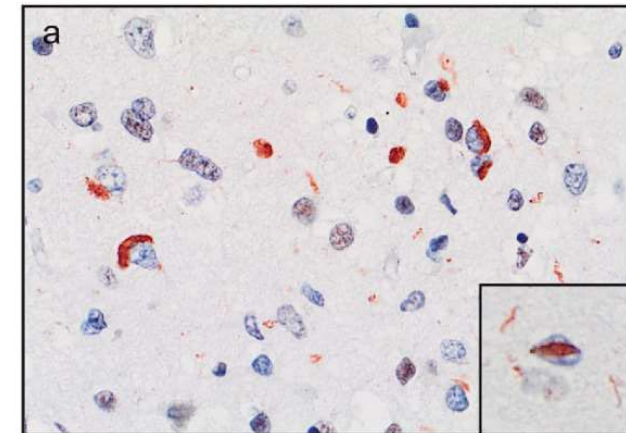
TDP-43 pathology very common in **ALS**¹⁾

Source: Ling et. al. 2013

Note: 1) Amyotrophic lateral sclerosis, 2) Alzheimer's disease, 3) Fronto temporal dementia

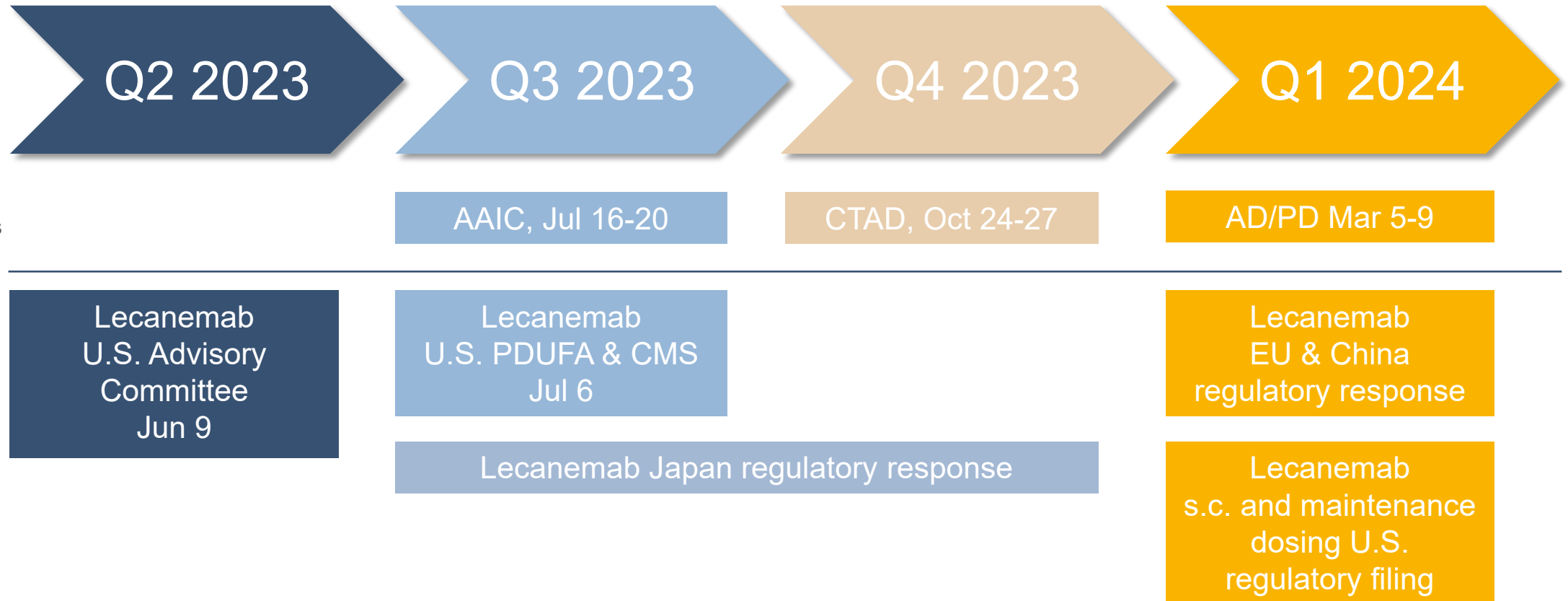


Abnormal TDP-43 immunoreactivity is common in **AD**²⁾



Abnormal TDP-43 immunoreactivity is common in **FTD**³⁾

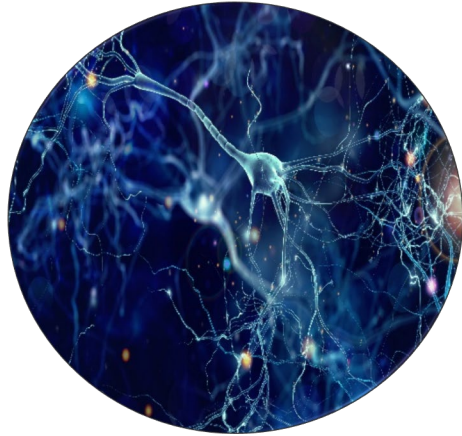
Upcoming news flow



PDUFA – Prescription Drug User Fee Act
 CMS – Centers for Medicare & Medicaid Services
 s.c. – subcutaneous

BioArctic: With Patients in Mind

Great science



Great projects



Great partners



Great people



IR team

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