

BioArctic AB

Gunilla Osswald, PhD, CEO

Company Presentation

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Snapshot of BioArctic

Company overview

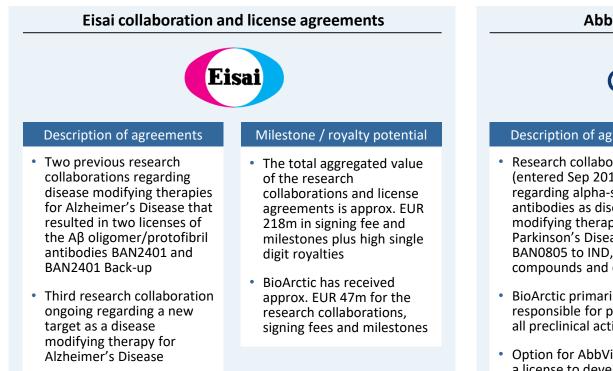
- Research oriented biopharma company focusing on development of drugs in areas with a large unmet medical need, such as Alzheimer's and Parkinson's Disease, and Complete Spinal Cord Injury
- Founded in 2003 by Prof. Lars Lannfelt and Dr. Pär Gellerfors
- Flexible organization with approx. 30 FTEs complemented with consultants and close collaborations with external partners
- Headquartered in Stockholm, Sweden
- Listed on Nasdaq Stockholm Mid Cap since October 2017

Investment highlights

- Highly educated organization with proven track record of bringing drugs from idea to market
- Innovative portfolio of differentiated firstgeneration disease modifying agents in Alzheimer's and Parkinson's Disease, diagnostics and pioneering Complete Spinal Cord Injury treatment
- Strategic collaborations with Eisai and AbbVie validating highly innovative research organization and unique product candidates
- Attractive combination of fully financed partner projects and cutting-edge, well funded, proprietary R&D pipeline with substantial market and out-licensing potential



Long-standing and Extensive Partnerships



AbbVie collaboration agreement

obbvie

Description of agreements

- Research collaboration (entered Sep 2016) regarding alpha-synuclein antibodies as disease modifying therapies for Parkinson's Disease incl. BAN0805 to IND. follow-up compounds and diagnostic
- **BioArctic primarily** responsible for performing all preclinical activities
- Option for AbbVie for a license to develop and commercialize the antibodies

Milestone / royalty potential

- Total potential value of the agreement is up to USD 755m incl. an up-front fee, option exercise fee, and success-based milestones plus tiered royalties
- BioArctic has received an USD 80m up-front payment for the research collaboration

Strategic collaborations with pharmaceutical industry validating potential value and commercialization potential for BioArctic with proven track record of delivering on research collaborations



Strategic Partnerships and Cutting-Edge Proprietary R&D

	PRODUCT CANDIDATE	INDICATION	PARTNER	DISCOVERY	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3
NEURODEGENERATIVE DISEASES	BAN2401 (anti-Aβ antibody)	Alzheimer's Disease	Eisai Biogen . ¹⁾					
	BAN2401 (anti-Aβ antibody)	Down's Syndrome ²⁾ Traumatic Brain Injury						
	BAN2401 Back-up (anti-Aβ antibody)	Alzheimer's Disease	Eisai					
	AE1501 (undisclosed information)	Alzheimer's Disease	Eisai					
	AD1502 (undisclosed information)	Alzheimer's Disease						
	AD1503 (undisclosed information)	Alzheimer's Disease						
	BAN0805 (anti-alpha-synuclein antibody)	Parkinson's Disease	abbvie					
DIAGNOSTICS & TECHNOLOGY	Imaging and biochemical biomarkers (Aβ)	Alzheimer's Disease						
	Imaging and biochemical biomarkers (alpha-synuclein)	Parkinson's Disease	abbvie					
	BBB-technology (blood-brain barrier)	Multiple application areas						
SPINE	SC0806 (FGF1/medical device)	Complete Spinal Cord Injury						

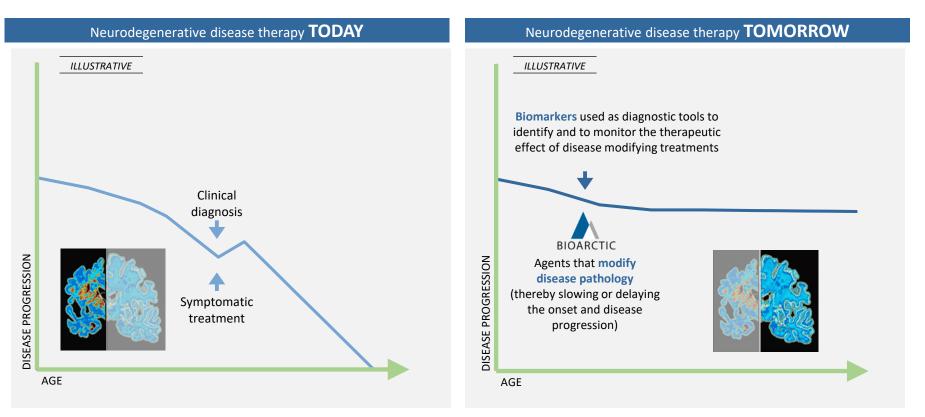
¹⁾ Partner with Eisai on BAN2401 for treatment of AD. Since 2014, Eisai partnered with Biogen in AD ²⁾ Dementia and cognitive impairment associated with Down's syndrome and Traumatic Brain Injury

Source: Company data



Disease Modifying Agents and Reliable Diagnostics/Biomarkers for Neurodegenerative Diseases

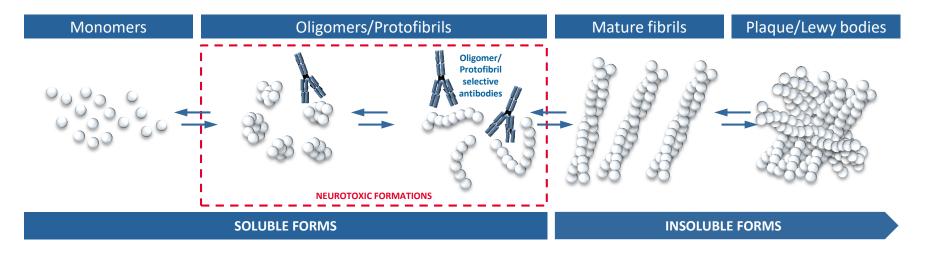
New therapy focus on disease pathogenesis – efforts to delay the neurodegenerative process

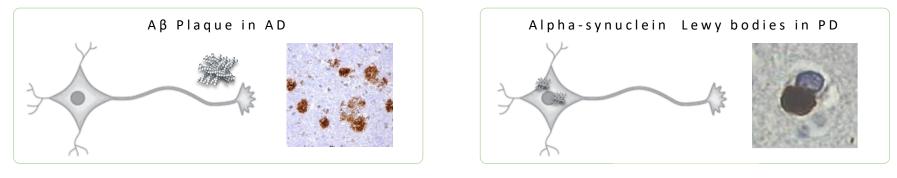


Significant unmet medical need to be addressed by disease modifying agents and reliable diagnostics/biomarkers



Protein Misfolding is Disease Causing in a Number of Neurodegenerative Diseases Including AD and PD

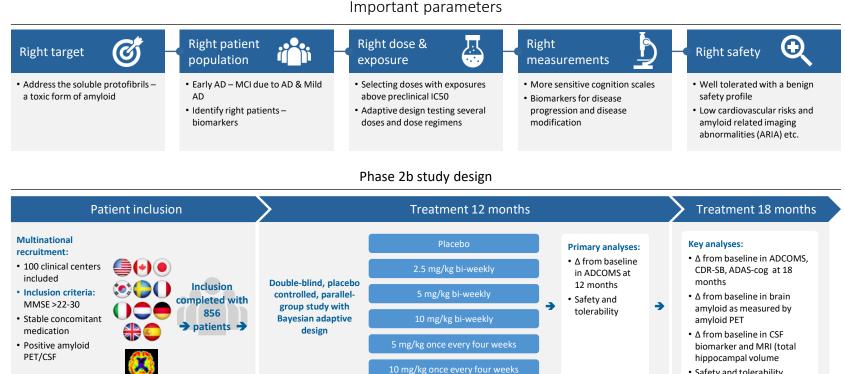




Source: Company information



BAN2401 – Learnings from Previous Clinical Trials in AD Incorporated in Phase 2b Study Design Final Results in H2 2018



Safety and tolerability

Top line results after 18 months treatment incl. biomarker and cognition - Q3 2018 Full read-out of study after 18 months treatment and 3 months follow-up - Q4 2018 A positive scenario includes an effect on both a biomarker and cognition

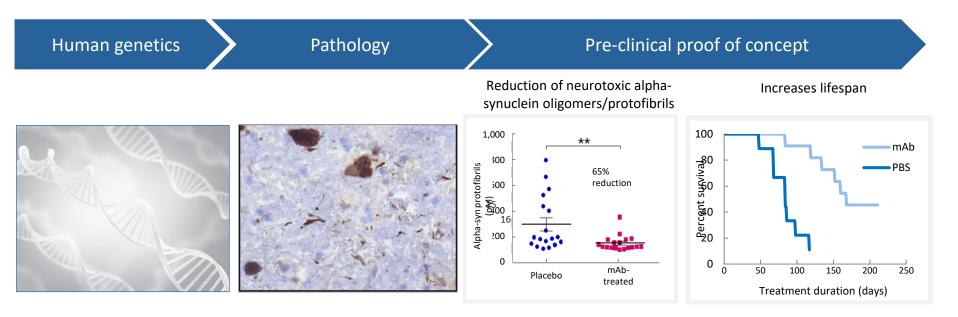
Source: Company information

Note: ADCOMS = Alzheimer's Disease Composite Score, an evaluation tool developed by Eisai



BAN0805 – Groundbreaking Disease Modifying Drug in PD with Rationale for Selective Targeting of Alpha-synuclein Oligomers/Protofibrils

Rationale for targeting alpha-synuclein



Alpha-synuclein deposition

is a hallmark of PD pathophysiology and alphasynuclein oligomers/protofibrils are elevated in PD

Oligomer/ protofibril selective antibody

reduces neurotoxic alpha-synuclein oligomer/protofibril levels, delays disease progression and increases life-span in a PD mice model



Alpha-synuclein mutations

lead to PD or Dementia with

Lewy Bodies and are associated

with increased

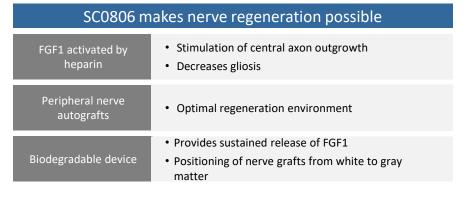
oligomer/protofibril formation

SC0806 – Unique Regenerative Treatment of Complete SCI

SC0806 – Regenerative Treatment of Complete SCI



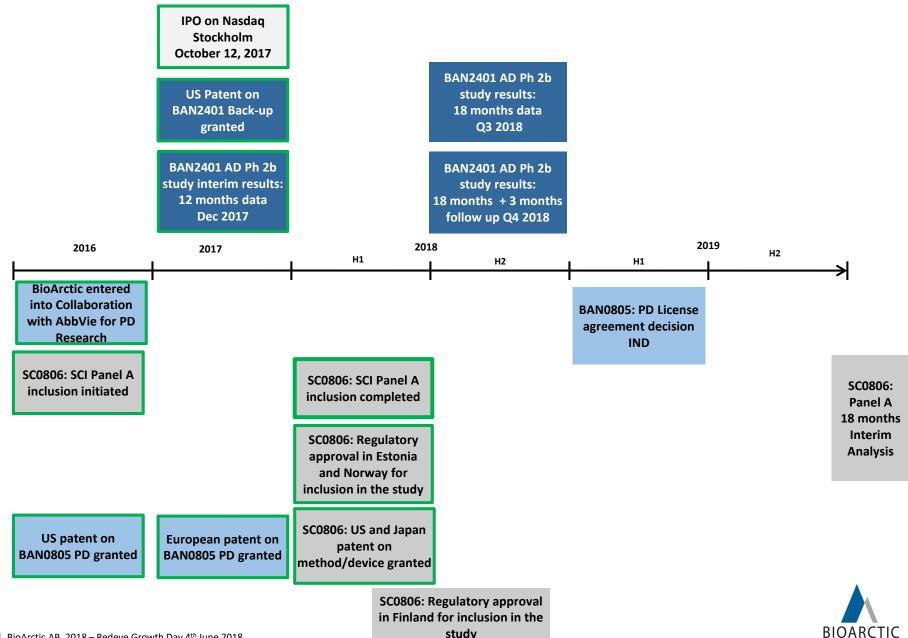
Treatment rationale and project status



- Surgical implantation of biodegradable SCI device with recombinant Fibroblast Growth Factor 1 (FGF1) and nerve grafts
 - Combination of medical device and new drug from a regulatory perspective
 - Orphan Drug designation in US and EU granting 7 and 10 years exclusivity, respectively
- Preclinical Proof of concept shown in rats
 - Rat experiments demonstrate nerve regeneration, restored electrophysiology and motor function
 - The motor evoked potential (MEP) has been restored in rats with resected spinal cords
- Clinical Phase 1/2 trial ongoing with SC0806 in patients with complete spinal cord injury
 - Surgery at Karolinska University Hospital in Sweden
 - Rehabilitation for 18 months with Lokomat in Sweden and preparations to include patients in Norway, Estonia and Finland
 - Patients receiving SC0806 treatment are given the option of 12 months additional rehabilitation in an extension study
 - 9 patients included (6 treated with SC0806 and 3 control patients)



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