BIOARCTIC AB (PUBL) NASDAQ STOCKHOLM: BIOA B

## Interim Report January-September 2019 Stockholm, October 24, 2019

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## **BioArctic – a unique Swedish biopharma company**



**High unmet need** for disease-modifying treatments for Alzheimer's and Parkinson's diseases creates **large commercial opportunity** 



World-class research and development driven organization with basis in founder's breakthrough discoveries and fruitful collaborations with leading academic researchers generating innovative projects



Attractive and well-balanced project portfolio with projects from discovery through Phase 3 and combination of both proprietary projects with substantial marketing and out-licensing potential and partnered projects generating income



Well-financed with BSEK >1 (MUSD >100) in cash, positive financial results during the last six years and valuable collaboration agreements totaling BSEK 9.3 (BUSD ~1) plus royalties



## Significant progress in all areas 2019 year to date

ALZHEIMER'S DISEASE

#### **BAN2401**

- Phase 3 confirmatory study in early Alzheimer's disease started by Eisai (milestone received MEUR 15)
- Phase 2b open label extension study ongoing
- ACTC and Eisai prepare for secondary prevention study
- Data presented at AAIC July 2019

#### **Discovery stage programs**

Progressed according to plan

ABBV-0805 (BAN0805)

approved by FDA

AbbVie

IND produced by BioArctic

• Phase 1 study started by

**Discovery stage projects** 

in AbbVie collaboration

Progressed according to plan

PARKINSON'S DISEASE

#### COMPLETE SPINAL CORD INJURY



#### SC0806

 Phase 1 safety evaluated and Phase 2 started

#### DIAGNOSTICS AND TECHNOLOGY



#### Blood Brain Barrier Technology Platform

- Vinnova grant of MSEK 10 received together with Uppsala University
- Internationally renowned scientist recruited



## Attractive and well-balanced project portfolio combines fullyfinanced partner projects and cutting-edge proprietary projects

	Product candidate	Indication	Partner	Discovery	Preclinical	Phase 1	Phase 2	Phase 3
Neurodegenerative Diseases	BAN2401: anti-Aβ antibody	Alzheimer's Disease	Biogen <sup>1</sup>					•
	BAN2401: anti-Aβ antibody	Down's Syndrome <sup>2</sup> Traumatic Brain Injury <sup>2</sup>			$\rightarrow$			
	BAN2401 BACK-UP: anti-Aβ antibody	Alzheimer's Disease	Eisal					
	AD1801: Undisclosed information	Alzheimer's Disease						
	AD1502: Undisclosed information	Alzheimer's Disease						
	AD1503: Undisclosed information	Alzheimer's Disease		$\longrightarrow$				
	ABBV-0805 <sup>3</sup> : anti-α-synuclein antibody	Parkinson's Disease	abbvie					
	PD1601: anti-α-synuclein antibody	Parkinson's Disease	abbvie	$\longrightarrow$				
	PD1602: anti-α-synuclein antibody	Parkinson's Disease	abbvie	$\rightarrow$				
Diagnostics & Technology	IMAGING AND BIOCHEMICAL BIOMARKERS: Aβ	Alzheimer's Disease			•			
	IMAGING AND BIOCHEMICAL BIOMARKERS: α-synuclein	Parkinson's Disease	abbvie					
	BBB-TECHNOLOGY: blood-brain barrier	Multiple application areas						
Spine	SC0806: FGF1/medical device	Complete Spinal Cord Injury						

as of September 30, 2019

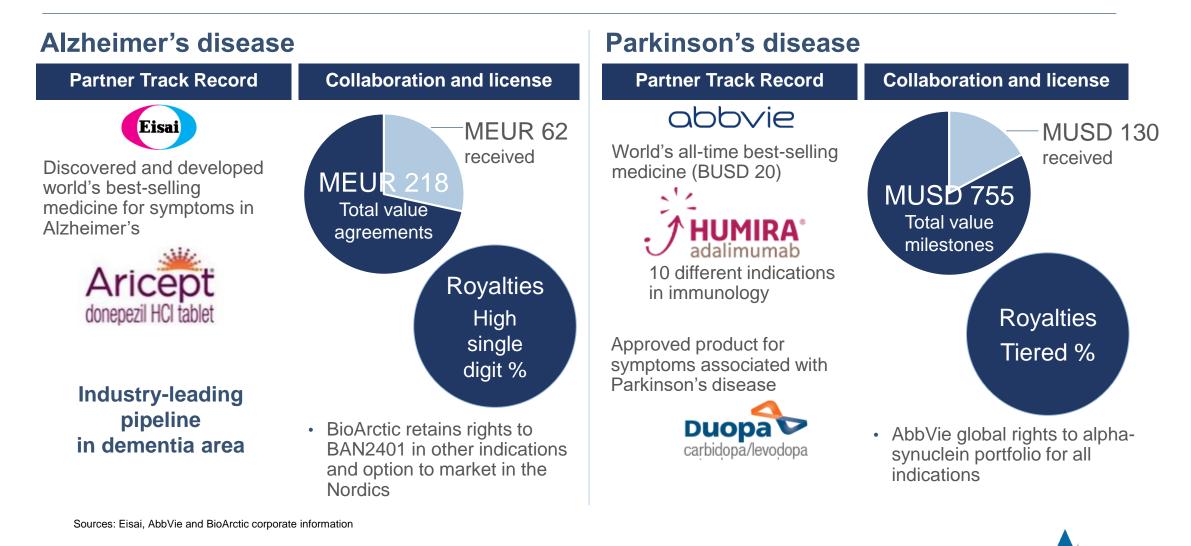
1) Eisai is BioArctic's partner for BAN2401 for treatment of Alzheimer's disease. Eisai partnered with Biogen for BAN2401 in 2014

2) Dementia and cognitive impairment associated with Down's syndrome and Traumatic Brain Injury

3) AbbVie in-licensed BAN0805 in late 2018 and will continue to develop BAN0805, now with the designation ABBV-0805

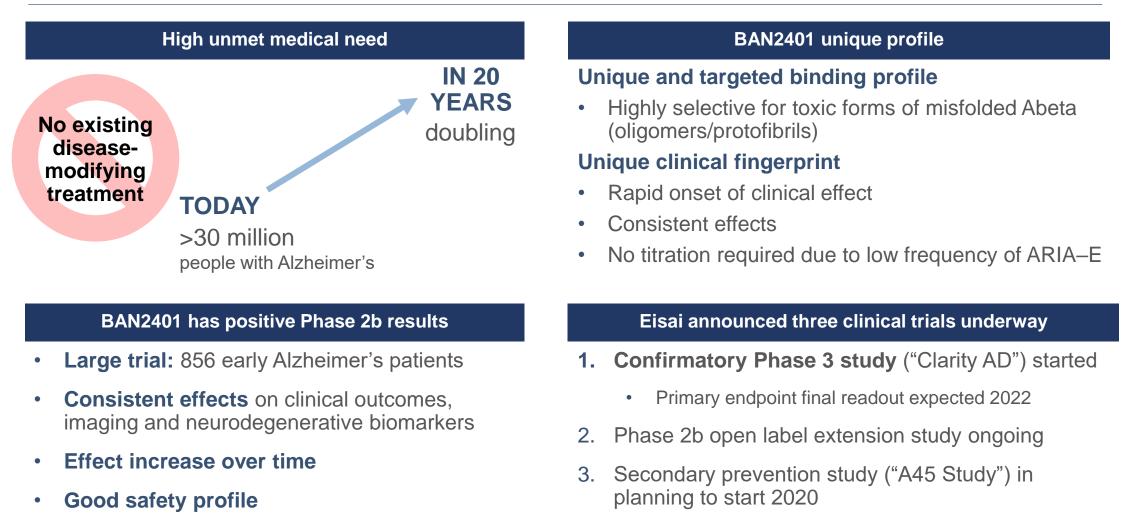


## Long-standing and extensive partnerships



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## BAN2401: potential disease modifying antibody for Alzheimer's disease with positive Phase 2b results now in Phase 3





## BAN2401 distinctive binding profile compared with aducanumab

#### BAN2401 specifically designed and generated to bind to toxic soluble aggregated forms of amyloid-beta

- · Selectivity for protofibrils
  - More than 1000-fold selectivity versus monomers
  - About 10-fold selectivity versus fibrils
- BAN2401 binding profile distinctive from aducanumab
  - BAN2401 preferential binding to protofibrils and oligomers versus aducanumab preferential binding to fibrils
  - BAN2401 up to 100-fold stronger binding to protofibrils and oligomers versus aducanumab

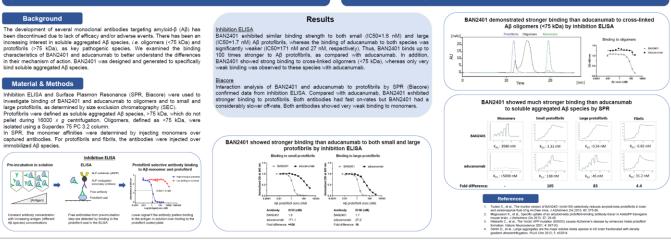


#### BAN2401 shows stronger binding to soluble aggregated amyloid-beta species than aducanumab



Lars Lannfelt<sup>1,2</sup>, Linda Söderberg<sup>2</sup>, Hanna Laudon<sup>2</sup>, Charlotte Sahlin<sup>1,2</sup>, Malin Johannesson<sup>2</sup>, Patrik Nygren<sup>2</sup>, Christer Möller<sup>2</sup> <sup>1</sup>Department of Public Health/Geriatrics, Uppsala University, Sweden, <sup>2</sup>BioArctic AB, Warfvinges väg 35, 112 51 Stockholm, Sweden

Objectives: To examine if there are differences in binding characteristics between BAN2401, an antibody continuing in development in phase 3, and aducanumab, an antibody which met futility in phase 3, to better understand the differences in mechanism of action. Conclusion: Compared to aducanumab, BAN2401 showed up to 100 times stronger *in vitro* binding to Aß protofibrils. The stronger binding of BAN2401 to these toxic Aß species may mediate the differences in clinical responses observed between the two antibodies.



As presented at Alzheimer's Association International Conference July 2019 Full poster available on BioArctic website www.bioarctic.com



# BAN2401 additional data accepted for oral presentation at Clinical Trials on Alzheimer's Disease (CTAD) in December 2019

## **BioArctic oral presentation**

Additional data on the binding profile of BAN2401

*"Binding profiles of BAN2401 and aducanumab to different amyloid-beta species"* 

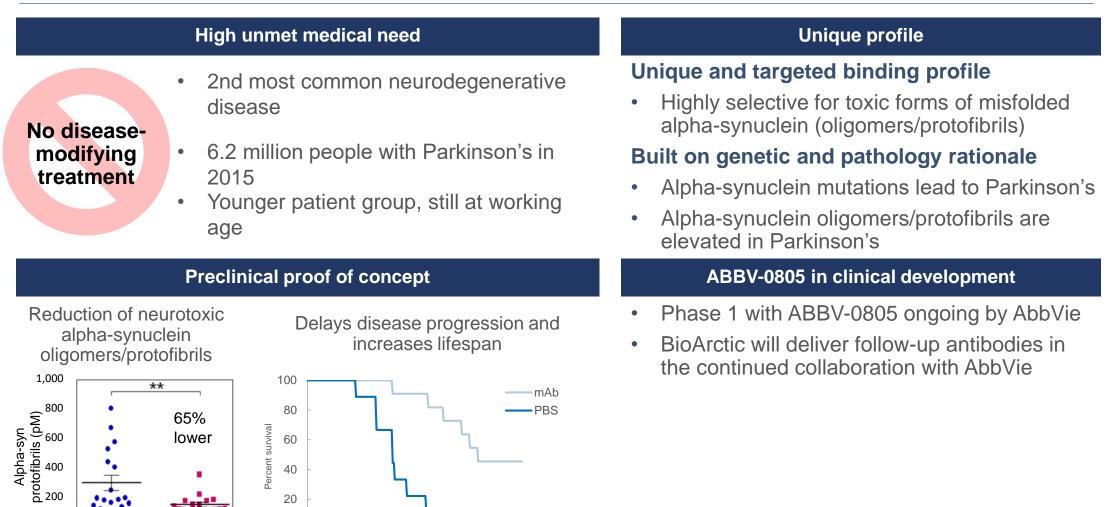
## Eisai late-breaking oral presentation

Additional data from Phase 2b study with BAN2401

"Persistence of BAN2401-Mediated Amyloid Reductions Post-Treatment: A Preliminary Comparison of Amyloid Status Between the Core Phase of BAN2401-G000-201 and Baseline of the Open-Label Extension Phase in Subjects with Early Alzheimer's Disease"



## ABBV-0805: potential disease modifying antibody for Parkinson's disease with strong preclinical results now in Phase 1





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Placebo

0

lower

mAb-treated

Percent survival

60

40

20

0 0

50

100

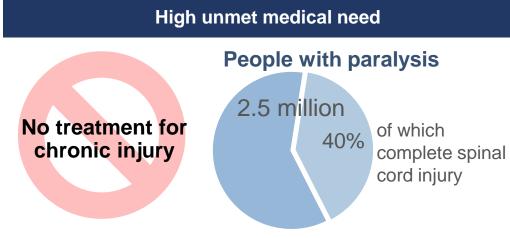
Treatment duration (days)

150

200

250

## SC0806: potential regenerative treatment for Complete Spinal Cord Injury in Phase 2



- Significant qualify of life issues
- More common among younger men
- Orphan Drug designation in US and EU for SC0806

## Preclinical proof of concept and initial clinical safety

Preclinical model showed <sup>1)</sup>:

- Nerve regeneration
- Electrophysiology restored

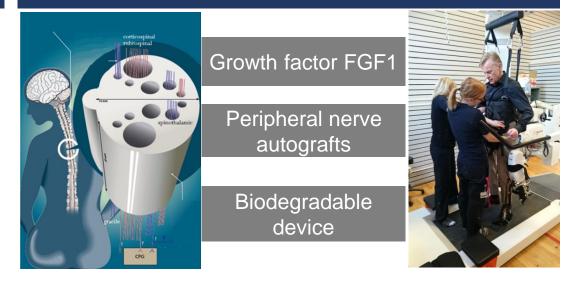
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Motor function improved

Phase 1 in patients:

 Safety evaluation supported progression into Phase 2

### SC0806 makes nerve regeneration possible



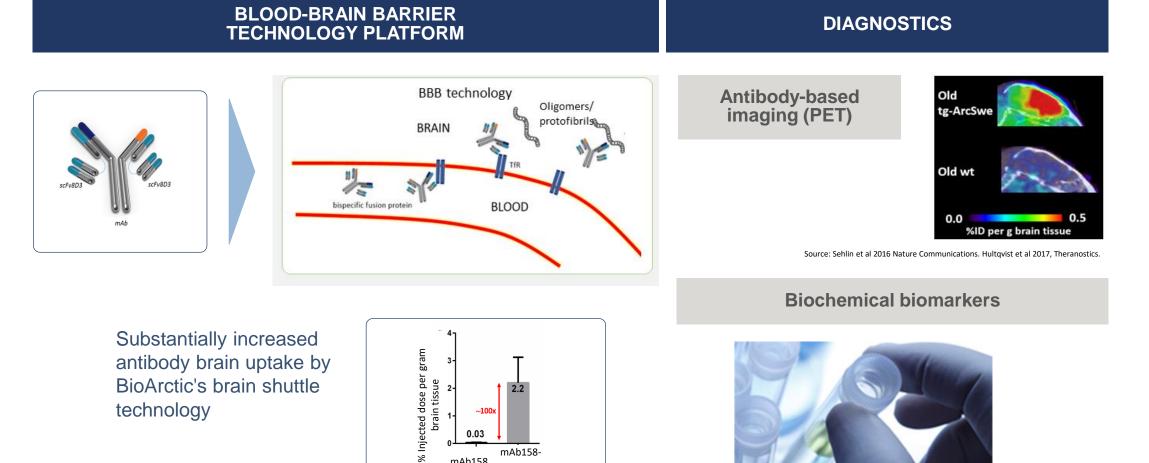
## SC0806 in Phase 2

- Phase 2 ongoing in patients with Complete Spinal Cord Injury
  - Interim analysis expected 4Q 2019/1Q 2020
- EU Horizon 2020 research and innovative program <sup>2)</sup>



1) Nordblom et al. Restorative Neurology and Neuroscience 30 (2012) 91-102

## Advancing technology platforms and diagnostics to fuel pipeline



mAb158

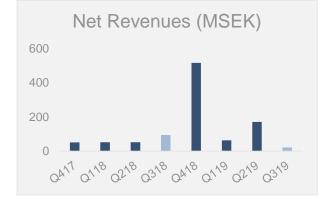
scFv8D3







## **Revenues and operating profit Q3 2019**



- Net revenues decreased to 20.6 MSEK (94.0)
- The Parkinson's project has progressed into clinical phase resulting in lower revenues from the research collaboration with AbbVie versus previous year



- Project expenses decreased to 13.5 MSEK (42.7) due to lower external expenses in the Parkinson's project versus previous year
- Other operating expenses increased to 5.5 MSEK (0.4) and relates to exchange rate losses



 Operating profit decreased to -10.5 MSEK (33.1)

Operating expenses are expected to be in the range of 190 - 210 MSEK for the fiscal year January - December 2019



## Cash related and net profit Q3 2019

400

300

200

100

-100

0

0118

0218



 Cash balance amounted to 1,170.2 MSEK (1,008.5) at the end of the quarter  Operating cash flow amounted to -49.4 MSEK (-31.5) during Q3

0418

0318

0119

0219

Q319

**Cash Flow From Operating** 

Activities (MSEK)



- Profit for the period decreased to -8.3 MSEK (25.9) during Q3
- The decrease of net result is attributable to lower revenues from the research collaboration in the Parkinson's project

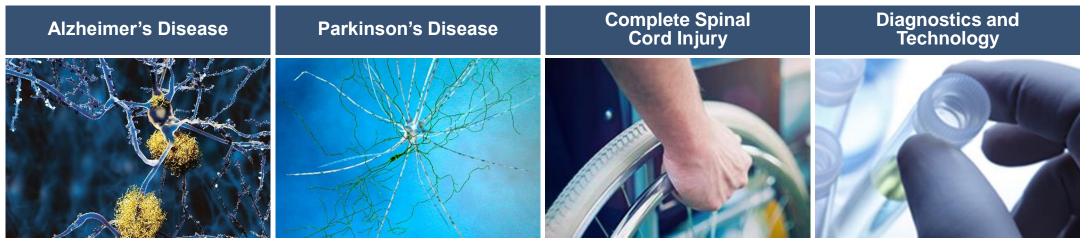
To sum up, BioArctic continues to have a strong financial position







## **Upcoming news flow**



#### BAN2401 (Eisai)

- To present data at international congresses incl. CTAD December 2019
- Phase 3 confirmatory study results 2022
- Phase 2b open label extension study results
- Secondary prevention study start 2020

### **Discovery stage programs**

Advance into preclinical development

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## ABBV-0805 (AbbVie)

Complete Phase 1 study

#### **Discovery stage projects**

 Continue development in AbbVie collaboration

### SC0806

 Phase 1/2 study interim analyses of safety and efficacy 4Q 2019/1Q 2020

### Blood-Brain Barrier Technology Platform

• Expansion and continued development



## **NEXT REPORT & IR CONTACT GUNILLA OSSWALD, CEO** JAN MATTSSON, CFO **Next Report:** • Full Year Report 2019 on February 6, 2020 **Contact:** +46 8 695 69 30 ir@bioarctic.se

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