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Investment Highlights

Key player in advanced protein sciences, with deep pipeline of novel vaccines addressing highvalue markets



High-potential pipeline of key focus within infections diseases and oncology, backed up by strong intellectual property rights



Vaccine development platform with track record and partner validation. Now clinical Phase III-stage. +500 proteins produced while posting +90% success rate



Global vaccine market rapidly growing, from USD 33bn (2019) to USD 187bn (2021), corresponding to 460% growth



ExpreS²ion is advancing towards key catalysts during 2022-23, further de-risking the company's pipeline. COVID-19 vaccine clinical Phase III initiation in Q3 2022



Management Team

>200 years of professional skills and experience from the life sciences industry



- Bent U. Frandsen, Chief Executive Officer
- Keith Alexander, Chief Financial Officer
- Dr. Max Soegaard, VP R&D and Technology
- Dr. Mette Thorn, VP Preclinical Development
- Dr. Mattis F. Ranthe, Chief Medical Officer



- Dr. Martin R. Jensen, Chairman & Co-founder
- Jakob Knudsen, Member of the Board
- Dr. Karin Garre, Member of the Board
- Sara Sande, Member of the Board

Proteins for Life



adaptAC

Technology Platforms

ExpreS²ion's ExpreS² and AdaptVac's cVLP platform

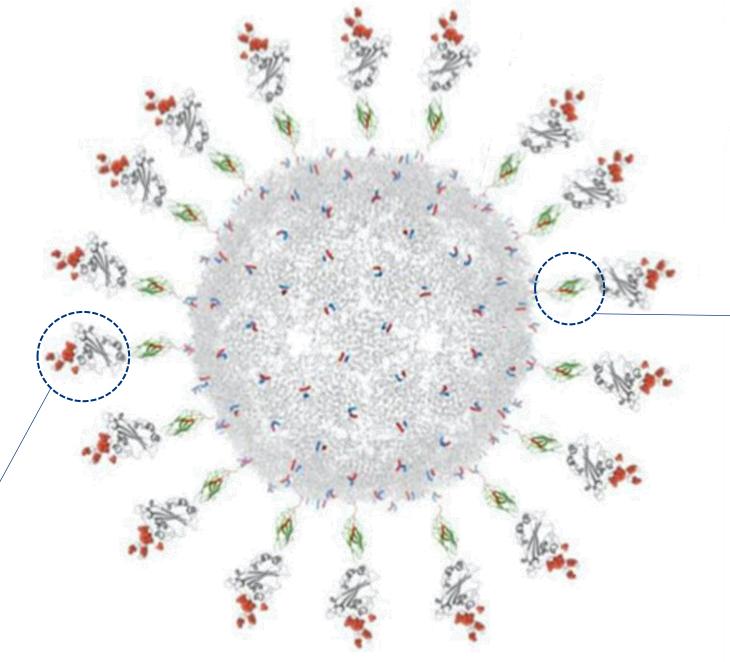


Cell line derived from Drosophila melanogaster (fruit fly) S2 cells¹

ExpreS² platform

Combines S2 cells with patented expression vectors (add a specific gene into a target cell and command the cell to produce the gene encoded protein), adapted culture agents and reagents (stimulating cell growth)

100% ownership



ExpreS² protein (antigen) combined with AdaptVac's cVLP containing no viral genetic material causing an immune reaction

Particle (VLP) technology

AdaptVac's proprietary virus-like particles (VLP) technology securely attaches our proteins to the surface of a capsid (outer protein protective shell of a virus), mimicking a virus to elicit an immune response

34% ownership



2022 Publications Support the Platform

ORI A Francis







Article

Prevention and Therapy of Metastatic HER-2+ Mammary Carcinoma with a Human Candidate HER-2 Virus-like **Particle Vaccine**

Francesca Ruzzi 1,4, Arianna Palladini 1,2,4, Stine Clemmensen 3, Anette Strøbæk 3, Nicolaas Buijs 3, Tanja Domeyer 3, Jerzy Dorosz 3, Vladislav Soroka 3, Dagmara Grzadziela 3, Christina Jo Rasmussen 3, Ida Busch Nielsen 3, Max Soegaard 3, Maria Sofia Semprini 1, Laura Scalambra 1, Stefania Angelicola 1, Lorena Landuzzi 4, Pier-Luigi Lollini 1,8,4 and Mette Thorn 3,4

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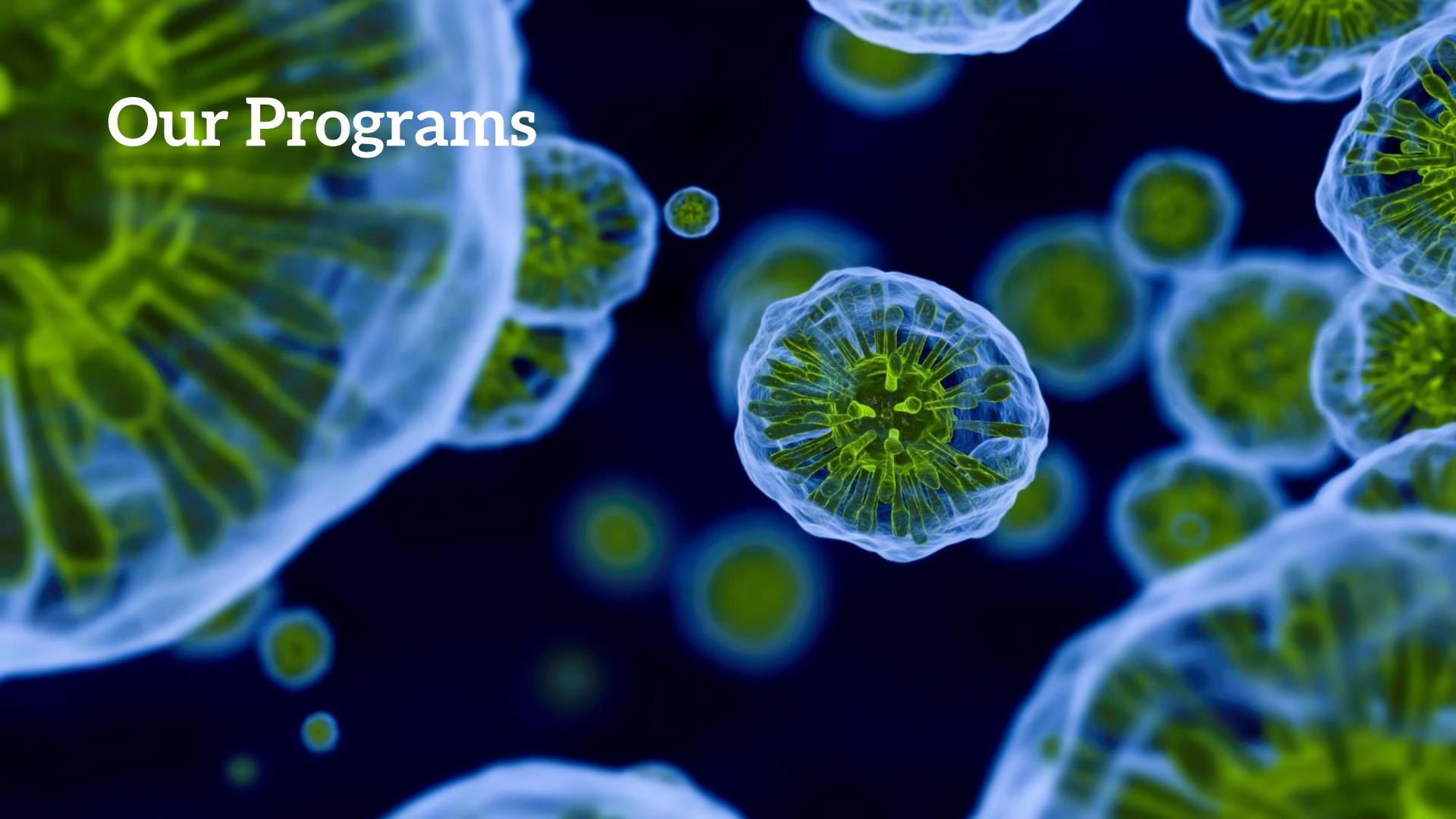
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- † These authors contributed equally to this work.
- ‡ Pier-Luigi Lollini and Mette Thorn jointly supervised this work.

Abstract: Vaccines are a promising therapeutic alternative to monoclonal antibodies against HER-2* breast cancer. We present the preclinical activity of an ES2B-C001, a VLP-based vaccine being developed for human breast cancer therapy. FVB mice challenged with HER-2+ mammary carcinoma cells QD developed progressive tumors, whereas all mice vaccinated with ES2B-C001+Montanide ISA 51, and 70% of mice vaccinated without adjuvant, remained tumor-free. ES2B-C001 completely inhibited lung metastases in mice challenged intravenously. HER-2 transgenic Delta16 mice developed mammary carcinomas by 4-8 months of age: two administrations of ES2B-C001+Monta-

Proteins for Life

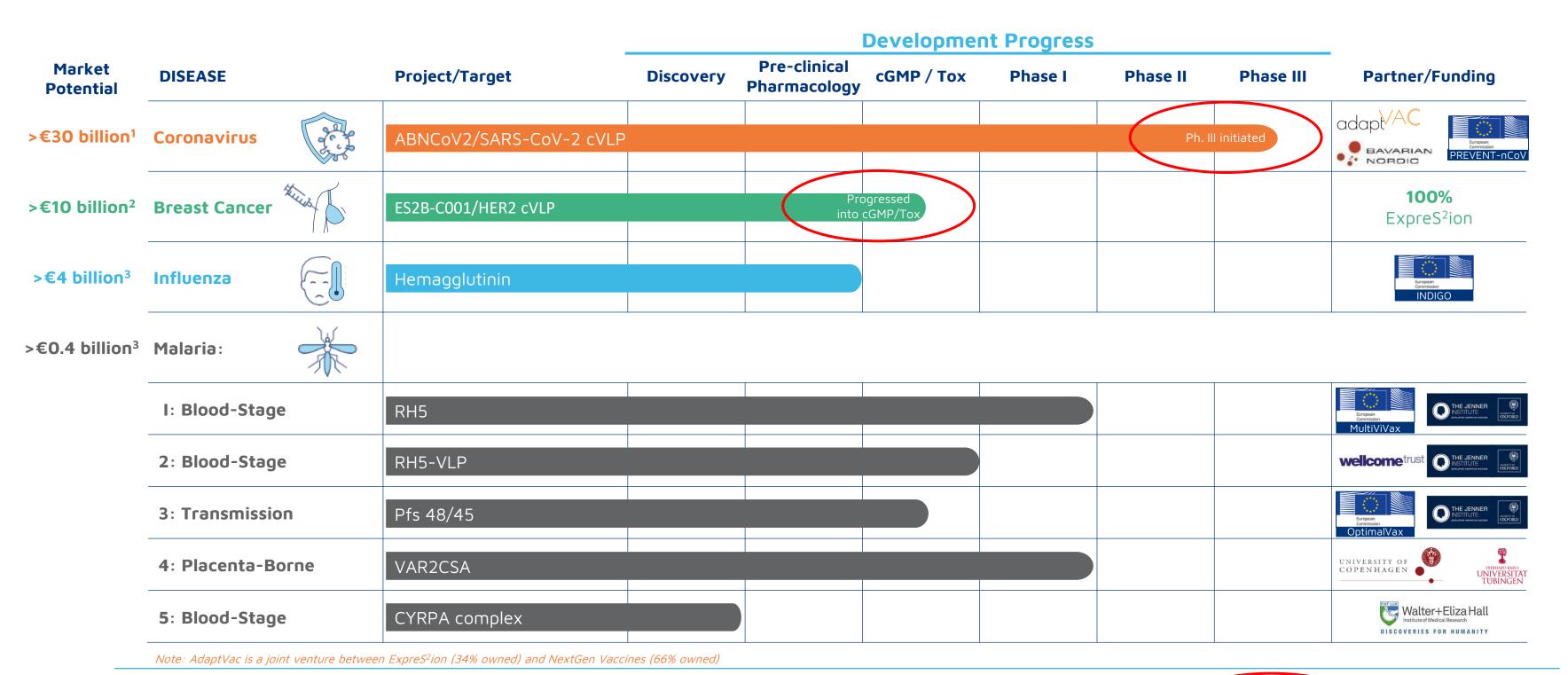


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Deep Pipeline for Value Creation



¹ 2024 estimate from Evaluate Pharma for top 10 products and other, as of 9 June 2022

² Global Data, 2022, for HER2+ breast cancer

³ Company estimate





The Most Common Cancer

1 in 8

women will be diagnosed with invasive breast cancer in her lifetime

~25%

have overexpression of HER2 receptors, associated with more aggressive tumors and reduced survival²

685,000

deaths worldwide in 2020 due to breast cancer¹





Breast Cancer Overview

The ES2B-C001 vaccine can offer significant benefits compared to current treatment options

Monoclonal antibodies are the cornerstone of treatment for HER2+ breast cancer (>USD 11bn sales)¹

 Target the HER2 receptor on tumor cells to reduce proliferation and induce tumor cell destruction





Serious drawbacks exist with these therapies²

- **Resistance** to monoclonal antibodies may develop
- Potential for cardiac toxicity
- **Repeated administration required**: 28-day half-life requires administration every 3rd week until remission or resistance develops, costs USD 30-50k



ExpreS²ion's vaccine-like approach offers potential to overcome drawbacks through *internal antibody production*





ES2B-C001 Preclinical Proof-of-Concept (I)

ES2B-C001 has demonstrated in vivo proof-of-concept

Effectively inhibited tumor development

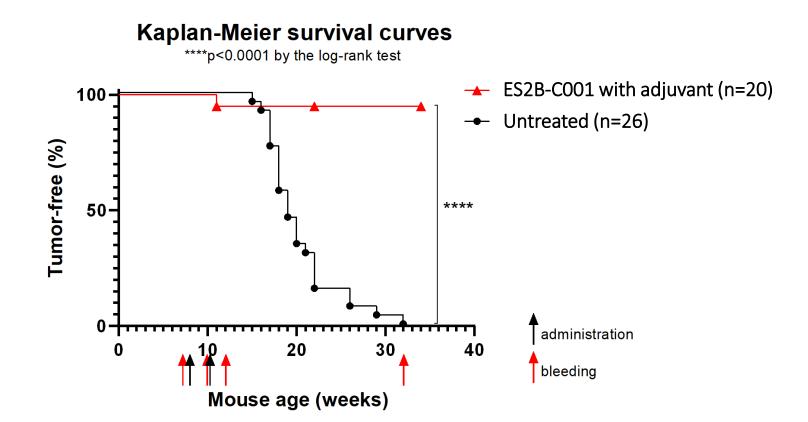
Tumor growth in FVB mice (HER2-intolerant) Control (n = 10) ES2B-C001 w/o adjuvant (n=10) ES2B-C001 with adjuvant (n=9)

• Two weeks after the inoculation of tumor cells, the first vaccine administration was given. Repeated every 2nd week during the study

Days after cell injection

• ES2B-C001 formulated in an adjuvant totally blocks tumor development. ES2B-C001 without adjuvant partly blocks tumor development and if tumors develop, growth is significantly inhibited

Prevented tumor development with 95% efficiency



- At mouse age 6-8 weeks, 2 vaccinations with 2 weeks interval were administered to Delta16 mice
- Two vaccinations prevented tumor development with 95% efficiency as compared to a control group, where all mice spontaneously developed tumors



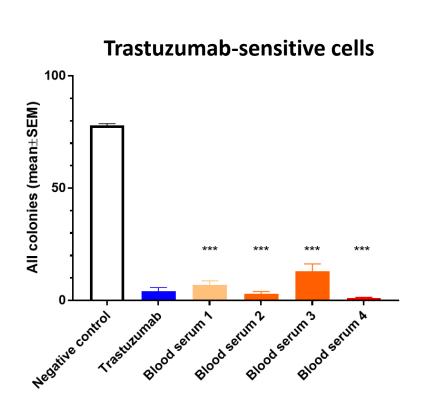


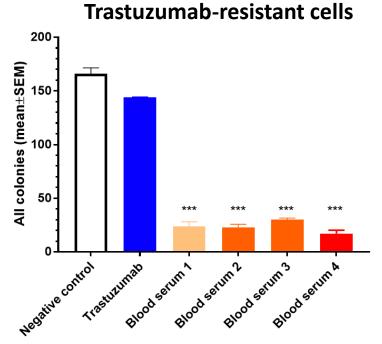
ES2B-C001 Preclinical Proof-of-Concept (II)

ES2B-C001 has demonstrated further animal proof-of-concept

Overcomes trastuzumab-resistance of tumors in vitro

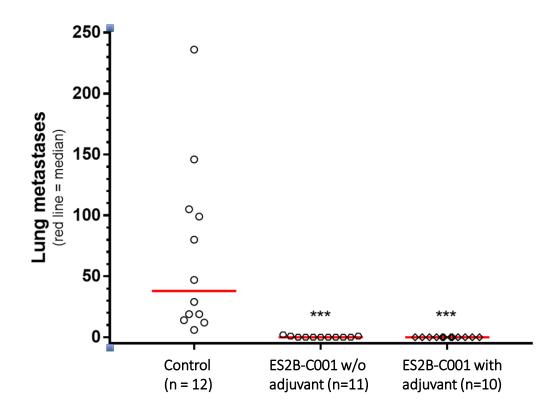
Inhibited tumor development in delta16 HER2 tg mice





In vitro PoC data in a growth inhibition assay: Blood serum from ES2B-C001vaccinated mice significantly inhibited the growth of HER2+ trastuzumabsensitive as well as trastuzumab-resistant human tumor breast cancer cells

Lung metastasis development in Delta 16 mice



- One week after the intravenous (i.v.) injection of HER2+ tumor cells, the first vaccine administration was given. Repeated every 2nd week during the study
- All mice vaccinated with E2SB-C001 with adjuvant were tumor-free
- 73% of mice (8/11) vaccinated with ES2B-C001 without adjuvant were tumorfree, the remaining had 1-2 tumor lung nodules





Progression as Planned

Important steps as ES2B-C001 is moving closer to the planned clinical Phase I trial in 2024

GMP Manufacturing

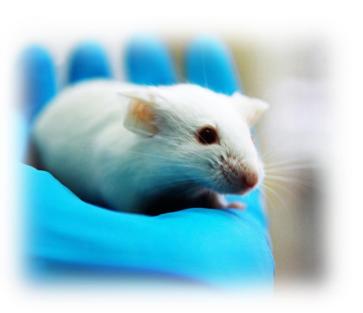
- GMP (Good Manufacturing Practice) Manufacturers selected and Work Order Statements executed
- ExpreS²ion's processes for manufacturing of material for HER2 antigen and VLP are transferred to the contract manufacturers
- Development of GMP manufacturing processes are progressing as planned

Preclinical Safety

- GLP (Good Laboratory Practice) CRO (Contract Research Organisation) selected and Master Service Agreement executed
- In accordance with feedback from DKMA (Danish Medicines Agency) preclinical safety studies have been planned in two species (1-month short-term testing in a rodent and nonrodent model) as well as long-term general GLP study in NHP (non-human primates)
- The *in vivo* part of the short-term rodent safety study has been carried out, and the final report of the study is expected towards the end of 2022







The 2nd Generation COVID-19 Vaccine

With **over 6.5 million deaths worldwide**¹, significant needs remain in the global long-term fight against the SARS-CoV-2 virus:



Uncertain duration of effect with current vaccines, expected to need repeated boosters



Storage and handling requirements for many vaccines create logistical constraints (requires storage of -20 to -80 degrees Celsius)



Potential mutated variants may require rapid development of new vaccines

Global market size of USD 137 billion for the COVID-19 vaccine (2021)2



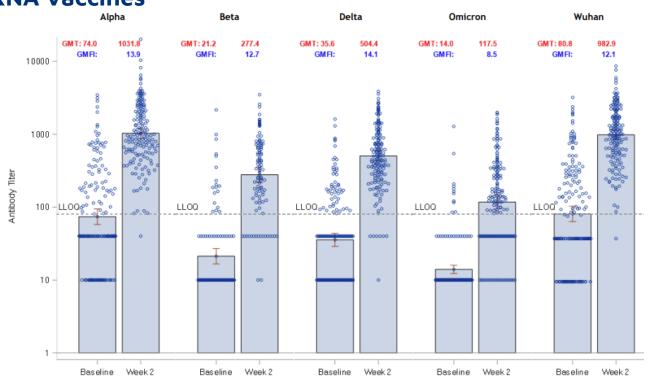


ABNCoV2 COVID-19 Vaccine

Bavarian Nordic completed the Phase II study, and initiated the Phase III study

Phase II results confirms ABNCoV2 as universal booster

- Evaluation as a booster vaccine in individuals with existing immunity. Study also assessed neutralizing immune responses against circulating variants and durability.
- Strong boosting effect across all variants of concern
- Level of neutralizing antibodies at levels reported to be associated with high level of protection (>90%)¹
- Level of neutralizing antibodies lowest for beta and omicron
- Potentially greater durability across variants of concern than mRNA vaccines



Phase III study 1st vaccination on 2nd Sept. 2022

- 4,000 previously vaccinated subjects who will receive a booster vaccination with ABNCoV2 or an mRNA-based vaccine, aiming to demonstrate non-inferiority of ABNCoV2 to the licensed mRNA vaccine
- Manufacturing of vaccine bulk for the trial has been completed, filling now ongoing at BN's own manufacturing line



Trial initiated 2nd September 2022 and with anticipated headline results towards end 2022

Bavarian Nordic plans a rolling submission and potential launch in 2023

1) P. B. Gilbert et al., Science 10.1126/science.abm3425 (2021)



Partnership with Bavarian Nordic

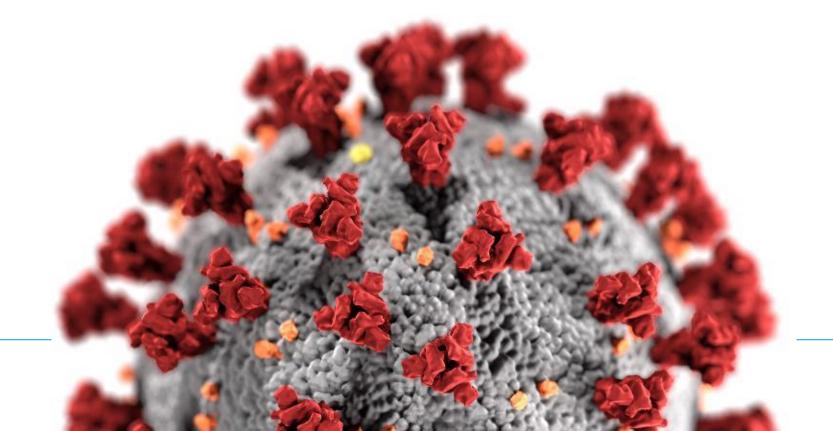
ABNCoV2 is already out-licensed with near-term revenue streams supporting ExpreS²ion

AdaptVac receive from Bavarian Nordic

- EUR 4 million upfront (paid in July 2020)
- Up to EUR 136 million in development and sales milestones
- Single- to double-digit-% royalties of Bavarian revenues

ExpreS²ion receive from AdaptVac

- 34% ownership of AdaptVac
- Up to EUR 2 million in commercial milestone payments
- Lower double-digit percentage of AdaptVac royalties

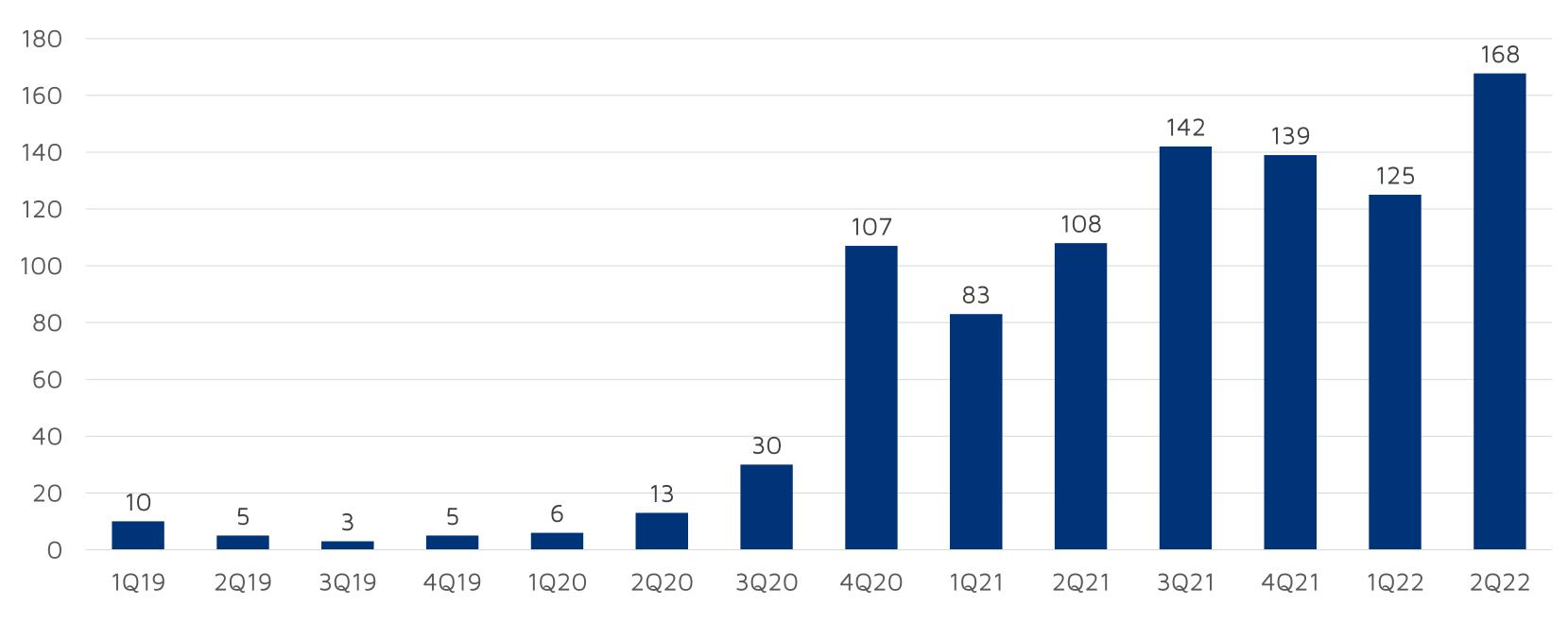






Cash Balance¹, 2019-2022 Quarterly

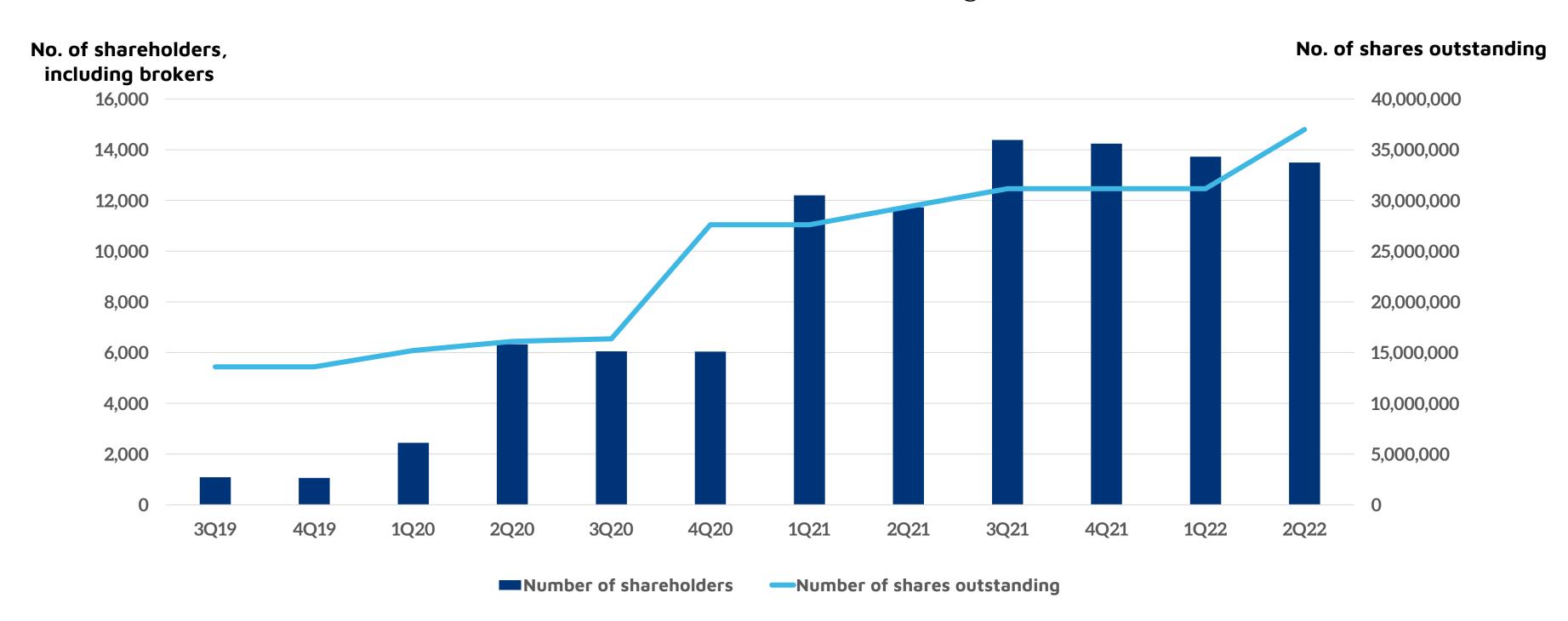
SEK millions





Shareholder Composition

No. of shareholders has increased to ~14,000, now holding ~37.6 million shares

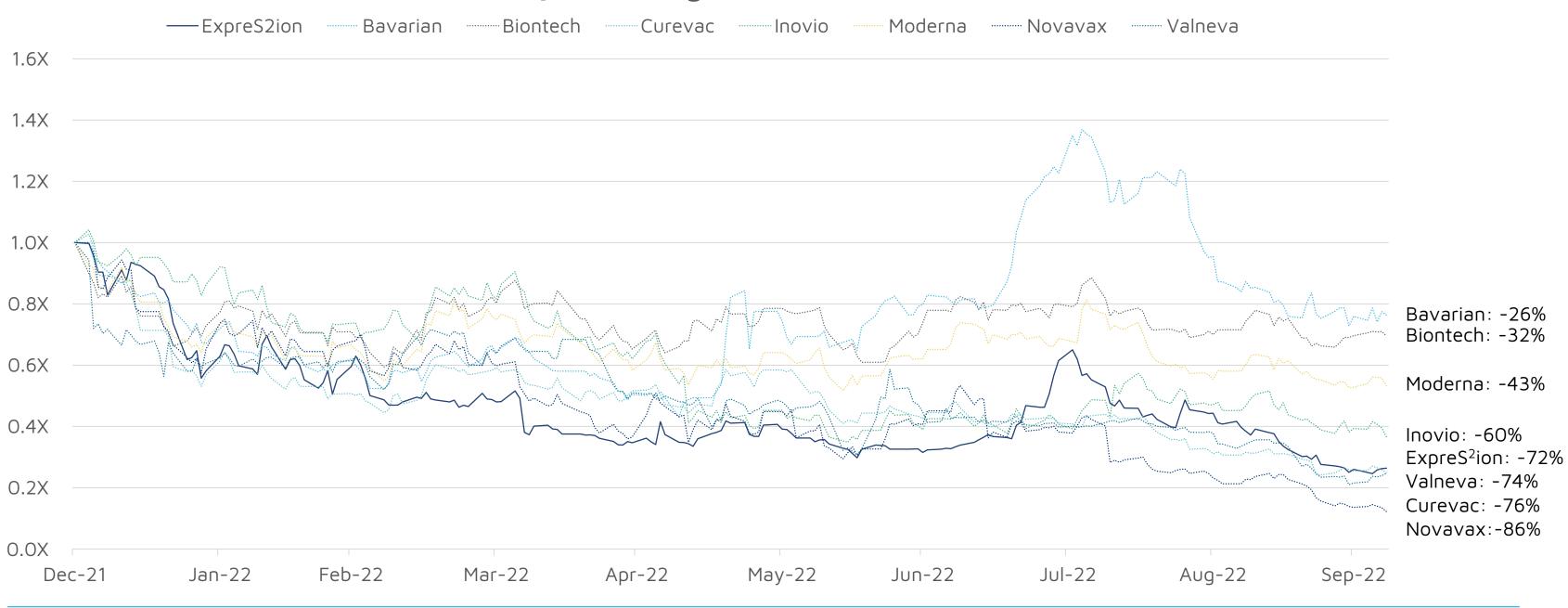




Peer Comparison Market Valuations

Lower sales estimates and systematic risk taking reducing COVID-19 vaccine valuations

Indexed share price change since 31 December 2021





Advancing Towards Key Catalysts

	20			2	2023		2024	
age of	CORONAVIRU	JS (ABNCoV2)						
№	ØBN Phase II study initiation Q3 21	Ø BN Phase II study readout H1 2022	Ø BN Phase III study initiation Q3 2022	BN Phase III initial trial results towards end of 2022	BN initiating rolling submission in H1 2023	BN ready for market launch (subject to regulatory approval)		
Huus	BREAST CANCER (ES2B-C001)							
1 //		in-licensing (Feb animal studies proof-of-concept		GMP manufacturing processing	Preclinical safety studies readout	Filing of clinical study application H2 2023	Initiation of first human clinical study 2024	Outlicensing window opens pending human data
	INFLUENZA							
				cGMP/Preclinical safety studies initiation (subject to new grant funding)				
	MALARIA							
V V V	ØPhase IIa results Rh5 vaccine pub 2021	olished in malaria launched	ditional phase I study in a endemic region in Africa during 2021, with every adjuvant	Pfs 48/45 phase I study initiation 2022	RH5-VLP initiation 2023	phase I RH5 phase I study readout H2 2023		

