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Proteins for Life 12



Investment Highlights

Key player in advanced protein sciences with novel pipeline addressing 45B EUR markets



Leader in production of complex proteins with the advantageous ExpreS² technology



Co-Founder of AdaptVac ApS, owner of a unique Virus Like Particle (VLP) technology



Pipeline of therapeutics/vaccines, addressing high-need and attractive markets



Revenue of 15M SEK / ~1.5M EUR with >10% growth from legacy service contract business



NASDAQ First North GM Stockholm [EXPRS2]. >12x increase* in share price since 01/2020

Market Cap: >1.5B SEK / >140M EUR

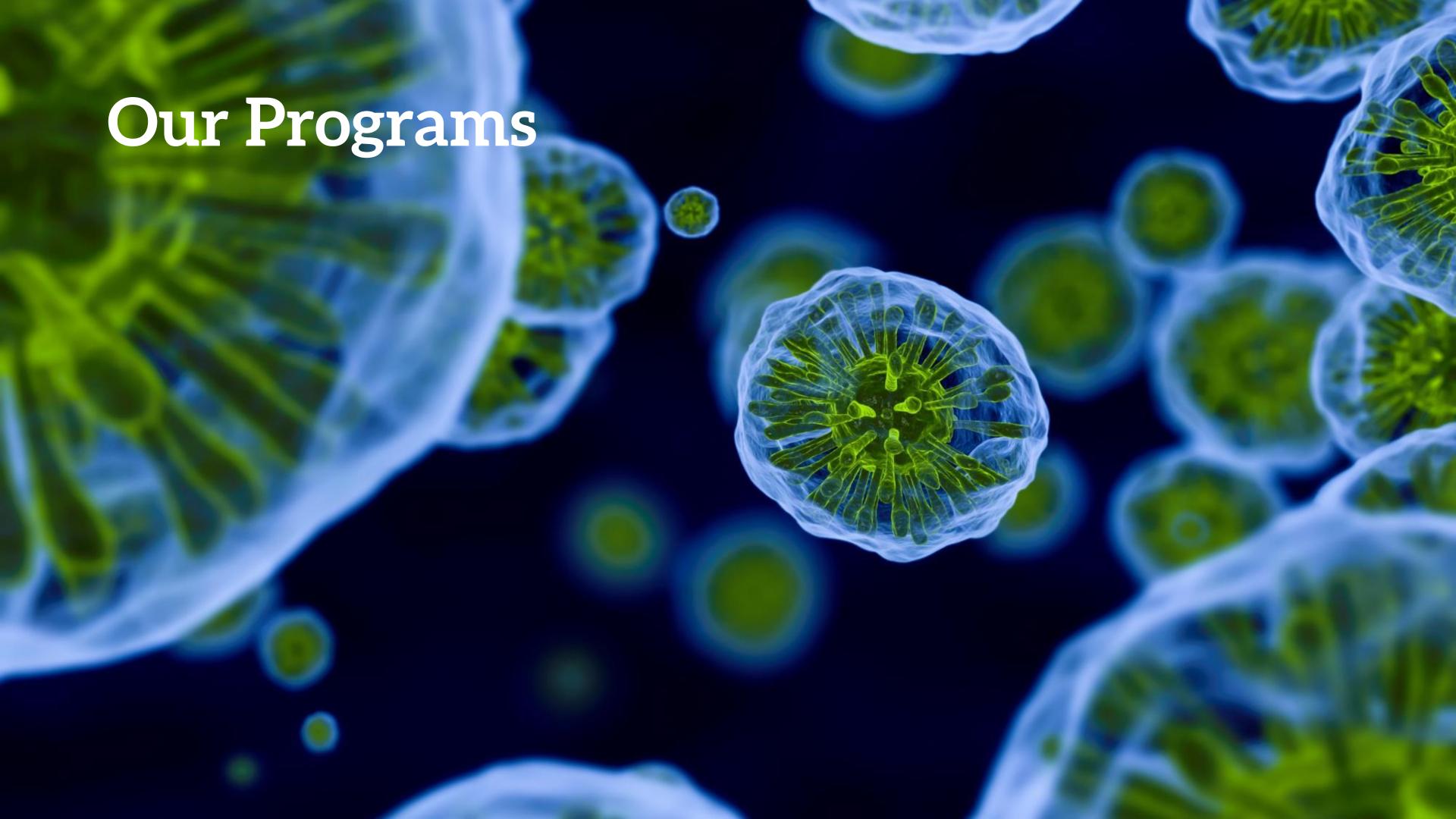


Deep Pipeline for Value Creation

Development Progress

| DISEASE | Project/Target | Discovery | Pre-clinical Pharmacology | cGMP / Tox | Phase 1 | Phase 2 | Phase 3 | Market Potential | Partner/Funding |
|-------------------|-------------------------|-----------|------------------------------|------------|---------|---------|---------|----------------------------|--|
| Coronavirus | ABNCoV2/SARS-CoV-2 cVLP | | | | I/IIa | BN: II | | > 30 billion EUR | adapt Europan Europan PREVENT-nCoV |
| Breast Cancer | ES2B-C001/HER2 cVLP | | | | | | | > 10 billion EUR | 100% ExpreS ² ion |
| Influenza | Hemagglutinin | | | | | | | > 4 billion EUR | European Commission INDIGO |
| Malaria: | | | | | | | | > 0.4 billion EUR | |
| I: Blood-Stage | RH5 | | | | | I/IIa | | | European MultiViVax UNIVERSITY OF OXFORD |
| 2: Blood-Stage | RH5-VLP | | | | | | | | wellcometrust THE JENNER INSTITUTE |
| 3: Transmission | Pfs 48/45 | | | | | | | | European Commission OptimalVax |
| 4: Placenta-Borne | VAR2CSA | | | la / Ib | | | | | UNIVERSITY OF COPENHAGEN UNIVERSITAT TUBINGEN |
| 5: Blood-Stage | CYRPA complex | | | | | | | | Walter+Eliza Hall Institute of Medical Research DISCOVERIES FOR HUMANITY |

AdaptVac is a joint venture between ExpreS²ion (34% owned) and NextGen Vaccines (66% owned)





The 2nd Generation COVID-19 Vaccine

With **over 5 million deaths worldwide**, significant needs remain in the global long-term fight against the SARS-CoV-2 virus:



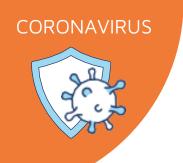
Uncertain duration of effect with current vaccines, expected to need repeated boosters



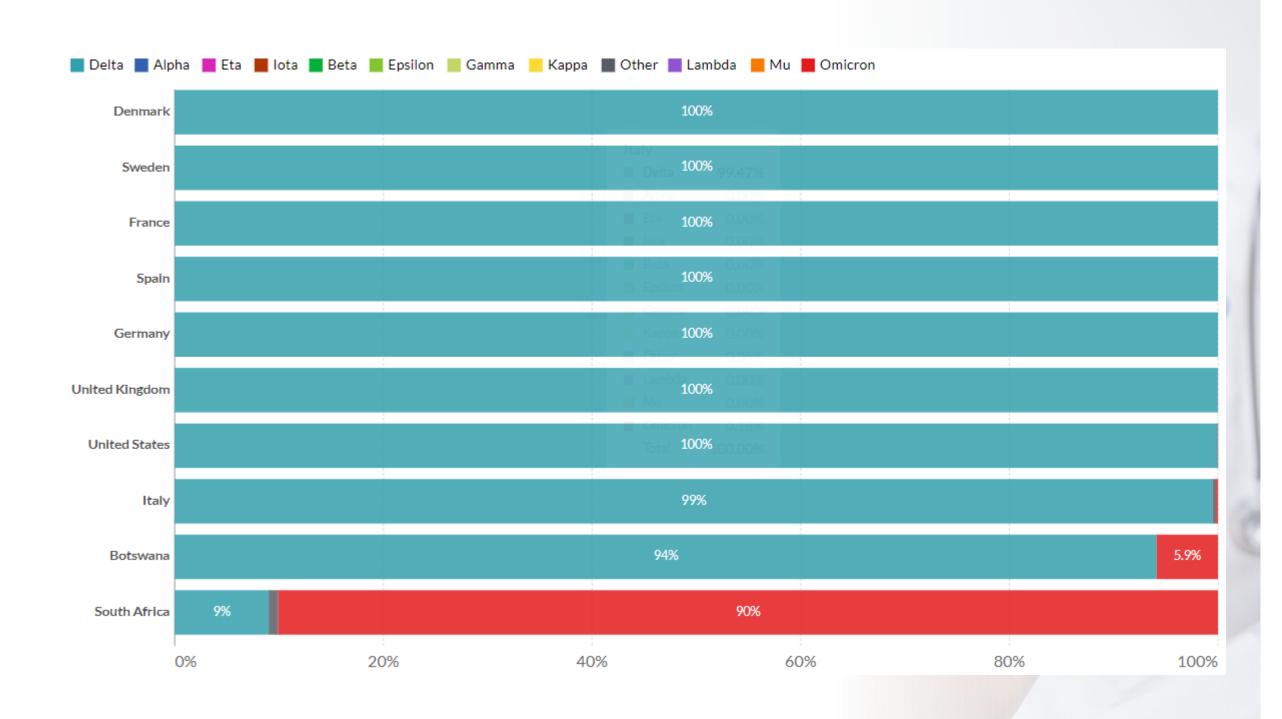
Storage and handling requirements for many vaccines create logistical constraints



Potential mutated variants may require rapid development of new vaccines



The 2nd Generation COVID-19 Vaccine II



Will the B.1.1.529 Omicron variant replace Delta?

Source: CoVariants.org and GSAID – Last Updated 30 November 2021, 21.00 CET



WHO COVID-19 Vaccines Research

Can booster doses contribute to control this pandemic: what research is needed?

13 August 2021, virtual consultation Geneva, Switzerland

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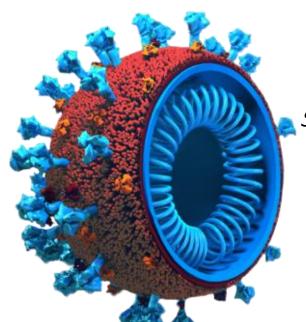






The Best COVID-19 Vaccine

ABNCoV2 has demonstrated superior preclinical proof-of-concept, and now promising human data

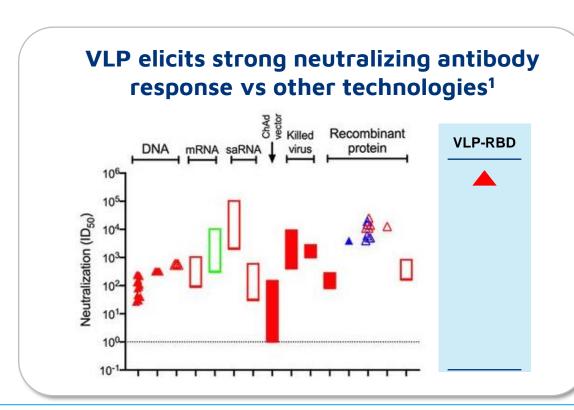


Virus

Spike proteins on surface of the coronavirus are primary target for vaccine development

Encouraging early findings:

- Durable immune response with single shot
- Strong immunogenicity vs. variants
- Well suited to rapid iteration for mutated variants if needed
- Stability at room temperature*



Phase I/II Study headline results:

- 45 humans dosed (6-70µg)
- Aug. `21: Safe and well tolerated
- High levels of neutralizing antibodies, also for Variants of Concern See data next slide

Bavarian Nordic holds the exclusive global license to ABNCoV2; sponsor of the on-going commercialisation



- Phase II readout within 2021
- Phase III initiation in 2022 with market launch estimated 2023



Spike proteins displayed on surface but contains no genetic material

Proteins for Life

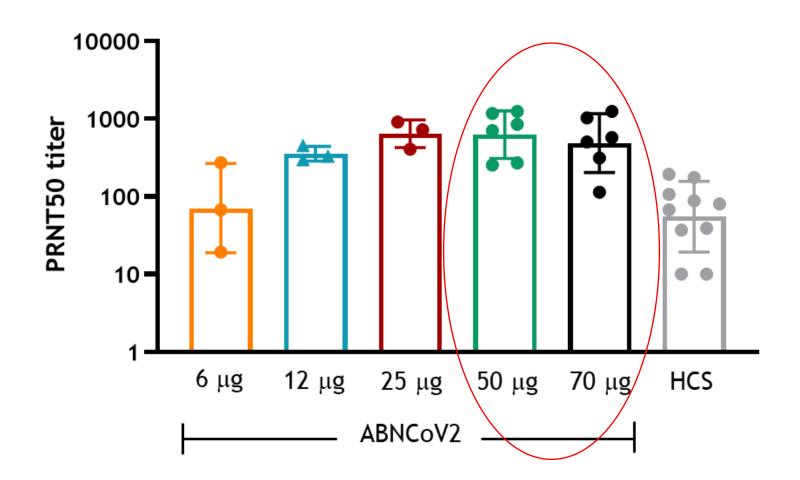
^{*}ABNCoV2 has been proven to endure storage at room temperature for 3 months and no changes were detected even after shorter incubation at 49 degrees Celsius.



ABNCoV2 COVID-19 Vaccine Update (I)

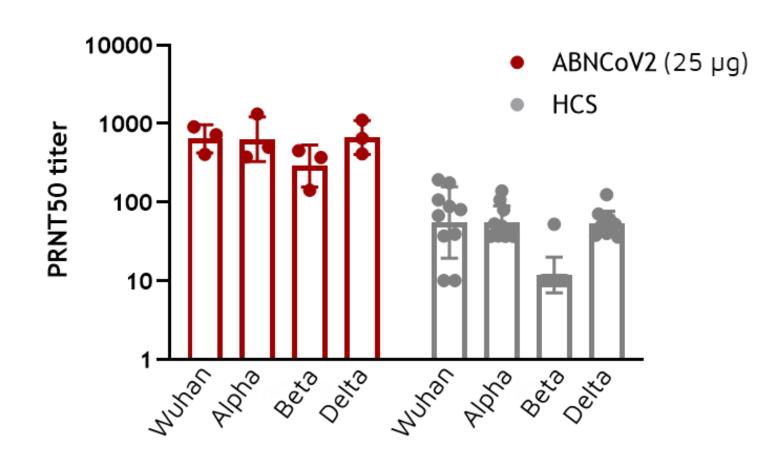
Update on Phase I/IIa trial confirms safety and tolerability and excellent efficacy profile

ABNCoV2 induces high neutralisation titers



- Dose response: increased titers with higher vaccine doses up to 25 mg, reaching a plateau at higher doses
- Up to 12-fold higher neutralizing antibody titers than seen in human convalescent samples (HCS)

Strong cross neutralization of variants



- No reduction in neutralization capacity against Alpha or Delta
- A 2.2-fold reduction is seen against Beta (compared to >10-fold reported for Comirnaty $^{\text{TM}}$)



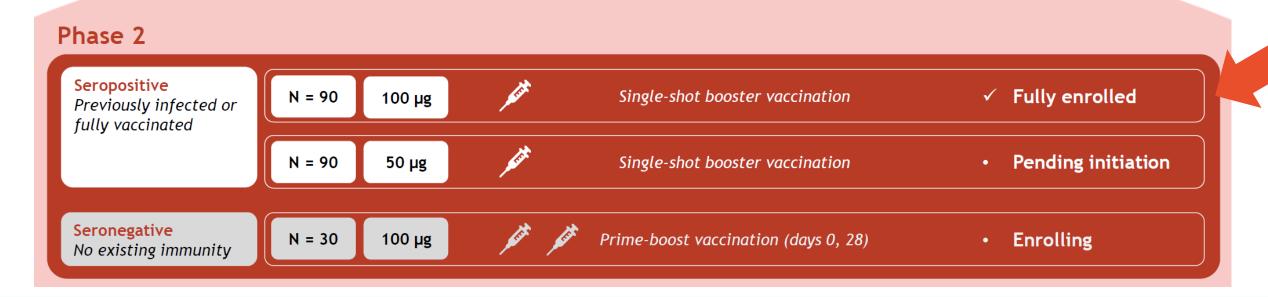
ABNCoV2 COVID-19 Vaccine Update (II)

Bavarian Nordic carries on with the Phase II trial, and granted 800 MDKK funding for Phase III

ABNCoV2 Phase 2

Ongoing trial with data anticipated in Q4 2021 - amended trial design to seek optimal dosing

- Multi-center trial in Germany to evaluate ABNCoV2 as a booster vaccine in individuals with existing immunity.
- Enrolling a total of up to 210 healthy adults.
- Individuals (n=180) with existing immunity against SARS-CoV-2, acquired through previous disease or from prior immunization with approved COVID-19 vaccines (mRNA and Adeno).
- Individuals (n=30) with no prior vaccination or disease.
- Trial will also assess neutralizing immune responses against circulating variants of SARS-CoV2.
- Initial results anticipated in Q4 2021 (seropositive group, 100 μg)



Data expected in Decemb



COVID-19 License and JV Economics

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

AdaptVac's Economics

Paid by Bavarian Nordic

- 4 MEUR upfront (paid in July 2020)
- Up to 136 MEUR in development and sales milestones

 Single- to double-digit-% royalties of Bavarian revenues

ExpreS²ion's Economics

Paid by AdaptVac

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

CORONAVIRUS



COVID-19 Value to ExpreS²ion

Institutional analysts have higher sales and approval assumptions



Pareto: SEK 68 target

COVID-19 + AdaptVac value: **SEK 1,322 mn** (60.9% of company valuation)



Institutional

Estimated COVID-19 + AdaptVac value¹

Nordea

SEK 1,942 mn

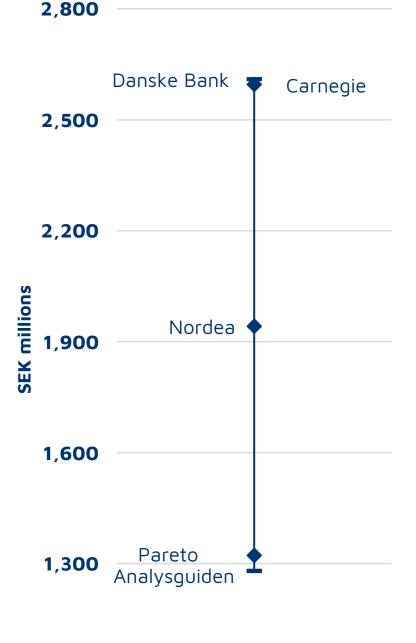
Danske Bank

SEK 2,610 mn



SEK 2,596 mn

Estimated COVID-19 + AdaptVac value¹



1,000



Analysquiden: SEK 60 target

COVID-19 + AdaptVac value: **SEK 1,291 mn** (64.4%)

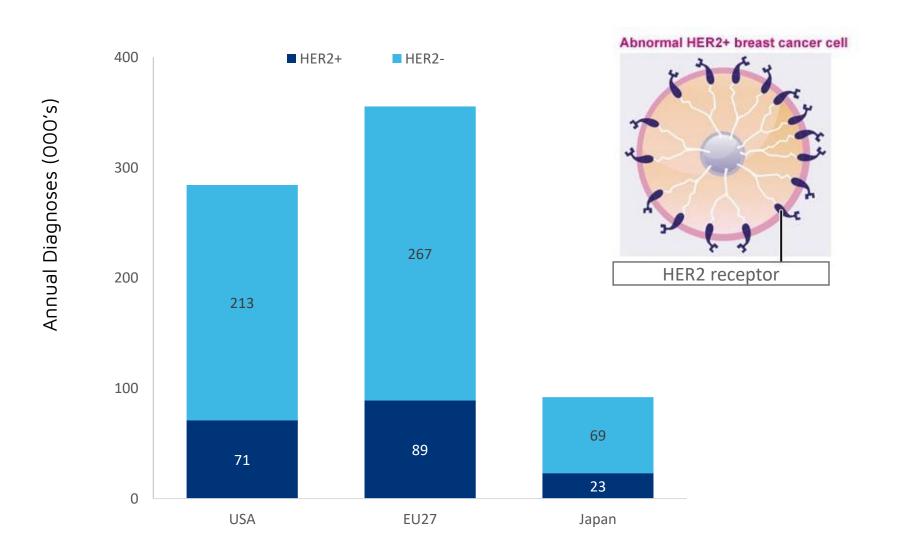




HER2+ Breast Cancer Overview

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

Over 180,000 people diagnosed with HER2+ breast cancer per year across US, EU, & Japan^{1,2}



Monoclonal antibodies are the cornerstone of treatment for HER2+ breast cancer (>\$7B USD sales)

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





However, serious drawbacks exist with these therapies

- **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 \$30-\$50k USD

Vaccine-like approach offers potential to overcome drawbacks through *internal antibody production*

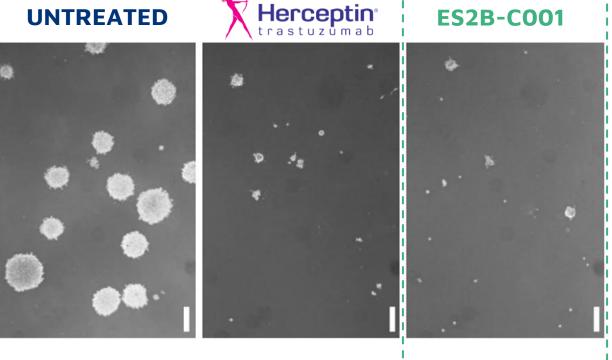




ES2B-C001 overcomes Herceptin resistance

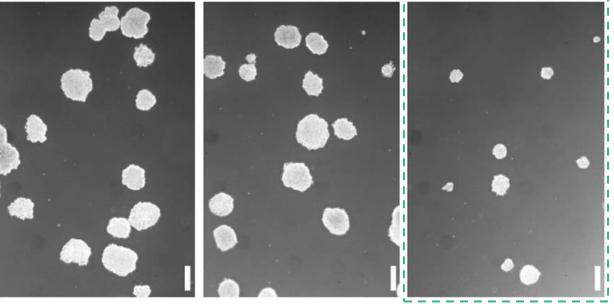
The soft agar human cancer cell growth inhibition assay provides in vitro evidence

Trastuzumabsensitive HER2+ human cancer cells¹



Both Herceptin (trastuzumab) and ES2B-C001 inhibited growth in the trastuzumab-sensitive cells

Trastuzumabresistant HER2+ human cancer cells



Only ES2B-C001 inhibited growth in the trastuzumab-resistant cells; cells were unresponsive to Herceptin





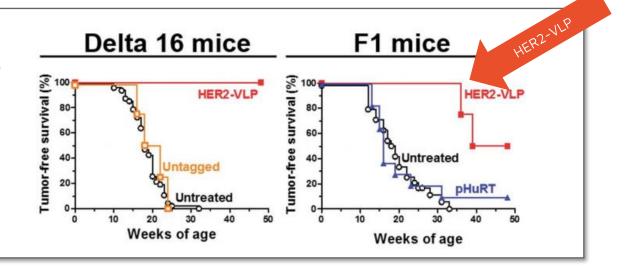
Strong Preclinical Data for VLP Approach

ES2B-C001 has demonstrated animal proof-of-concept, and on track to repeat in vivo PoC

- Prevention of 50-100% of spontaneous mammary carcinogenesis
- Strong tumor growth inhibition in therapeutic studies (mice transplanted with tumor cells/fragments)

Preventive studies

(mice with pre-disposition to spontaneous development of HER2+ tumors)



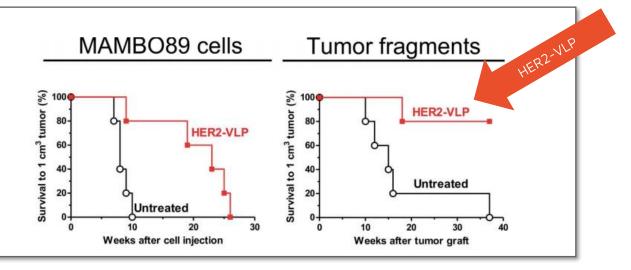
Preclinical *in vivo* studies are underway in collaboration with University of Bologna; proof-of-concept data expected primo 2022.

On path for clinical trial application submission before end of 2022.

Plan to engage with regulatory bodies to discuss path to clinical in early 2022.

Therapeutic studies

(mice transplanted with HER2+ tumor cells or larger tumor fragments prior to vaccination)







Influenza / Malaria Vaccines Update

Progression catching up again, after initial delay due to the COVID-19 pandemic



Influenza Vaccine

>4 billion EUR

The INDIGO consortium

- Led by University of Amsterdam
- Multiple research groups, incl. ExpreS²ion
- Funded by a 10 MEUR 2020 Horizon grant from the EU (0.6 MEUR awarded to ExpreS²ion)

Technologies

- Use of ExpreS² platform for antigen production
- Goal of >90% responder rate (vs <40% with current vaccines
- Patch-based delivery method (self-administration) is being explored by INDIGO partners and we are supplying proteins

Shipped first proteins to INDIGO for testing

• Both trimer (minor) and multimer (major) proteins and both have agglutination activity – a positive indication that ExpreS²ion's proteins are binding as intended



Malaria Vaccine

>0.4 billion EUR

5 vaccines candidates under development that target various stages of disease & transmission

Partners

Stage/Target

Blood stage (RH5.1)

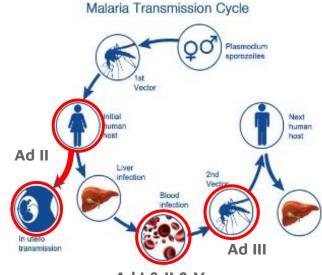
Blood stage (RH5.2)

Transmission (Pfs48/45)

IV. Placenta borne (VAR2CSA)

V. Blood-stage (PfRipr)





Ad I) 2021 news on RH5.1

- 04.21: Publication of Phase I/IIa data from the VAC063 study
- 07.21: The VAC080 study, a Phase Ib trial, is initiated in 60 healthy adults and infants in Tanzania to assess safety and immunogenicity

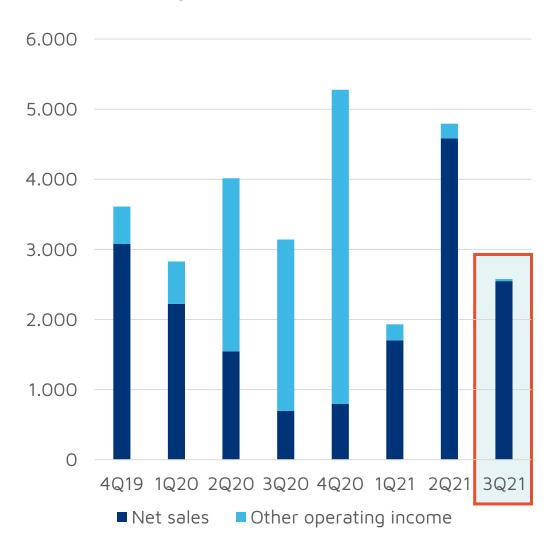
| 16 **Proteins** for Life



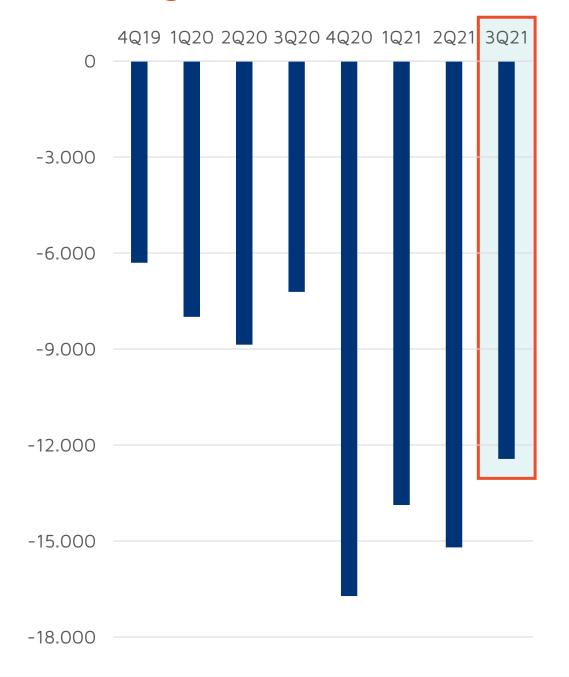


Financials – Fitting the New Strategy

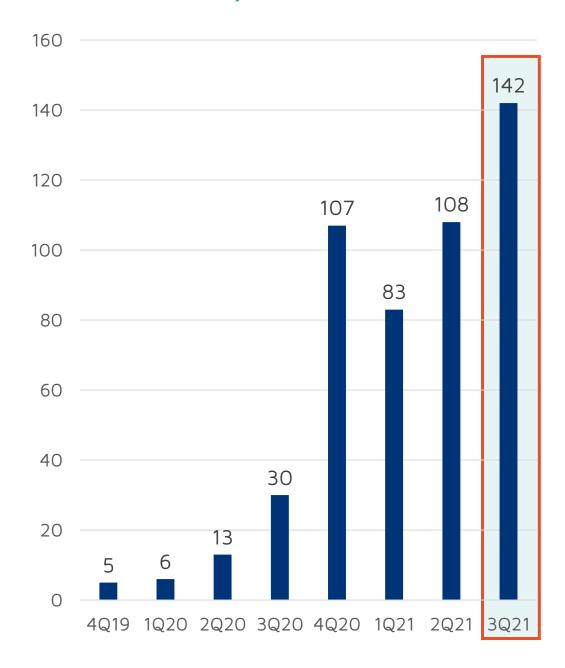
Revenues, SEK '000s



Operating costs, SEK '000s



Cash balance, SEK million

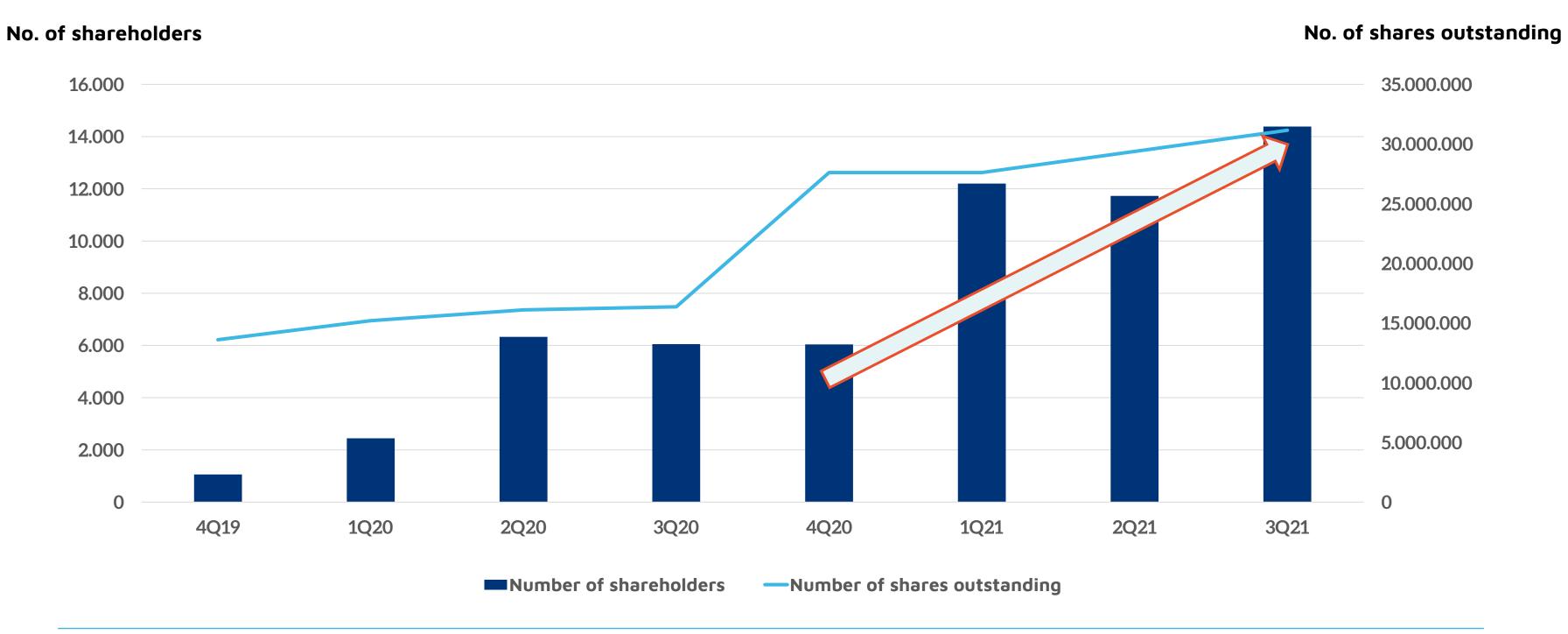


Proteins for Life



Shareholder Composition

During 2021 No. of shareholders grows from ~6,000 to ~14,000





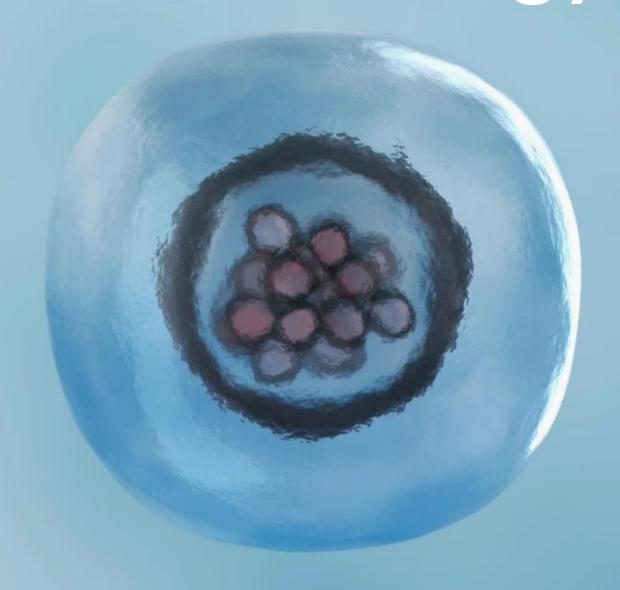
2021 – 2023 Outlook

On track to deliver shareholder value

| 2021 | | | | | | | 202 | 2023 | | |
|--|--|--|---|--|--|-------------------------------|-------------------------------------|---------------------------------------|---|--|
| ac. I | CORONAVIRU | S (ABNCoV | 2) | | | | | | | |
| - Set | ⊘Phase I/II trial, ⊘ COUGH-1 initiated | COUGH-1 initial safety results (Q2) | COUGH-1 full safety & efficacy results (Q3) | BN Phase II trial initiation (Q3) | BN Phase II trial readout | BN Phas trial initiatio | | BN Phase III initial readout | BN ready for market launch (subject to regulatory approval) | |
| The state of the s | BREAST CANO | CER (ES2B-C | COO1) | | | | | | | |
| 1 // | Executed (in-licensing (Feb 2021) | ♥ Preclinical animal studi initiated (Q2 | | | Preclinica proof-of- results | ! | GMP manufacturing batch & tox | Filing of clinic trial application | | Outlicensing window opens pending human data |
| | INFLUENZA | | | | | | | | | |
| | | | NDIGO progress nical animal in (H2) | developn | /support further ment of one or ndidates in 2021 | | | | | |
| | MALARIA | | | | | | | | | |
| / V \ | | | | | | | | | Rh5 phase I readout | trial |



Our Technology







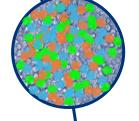
ExpreS² Platform for Complex Proteins

Enables unique non-viral approach to protein and vaccine production

Cell line derived from Drosophila melanogaster (fruit fly) S2 cells *

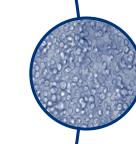


Transfection of desired gene into S2 cells, including secretion signal: *1 week*



Stable polyclonal pool

growth: 3 weeks



Uniform monoclonal pool growth: 9 weeks

Purify and extract target proteins
+ 12 weeks stability study



Reducing risks in discovery manufacturing

- √ Fast & high level protein expression
- ✓ Robust; high batch-to-batch consistency
- ✓ Superior success rates in early research

Proprietary process and expertise has established ExpreS²ion as the leader in specialty protein production

- √20+ years of experience
- ✓ Over 90% success rate, over 350 proteins expressed
- √Go-to source for challenging proteins
- ✓ Rapid delivery (3-6 months) of high-quality, uniform proteins with exceptional yields



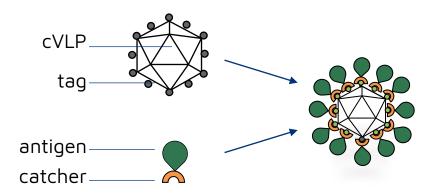
Virus Like Particle (VLP) Technology

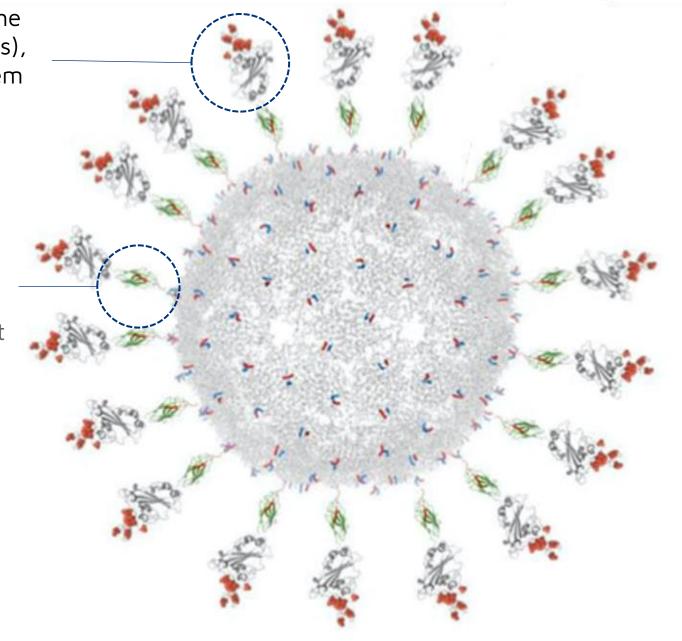
VLP technology has proven track record in cancer vaccine applications (HPV)

Our ExpreS² platform produces the complex surface proteins (antigens), which are critical to immune system recognition and response

AdaptVac's proprietary viruslike particles technology¹

securely attaches our proteins to the surface of a spherical shell (capsid), mimicking a virus to elicit an immune response

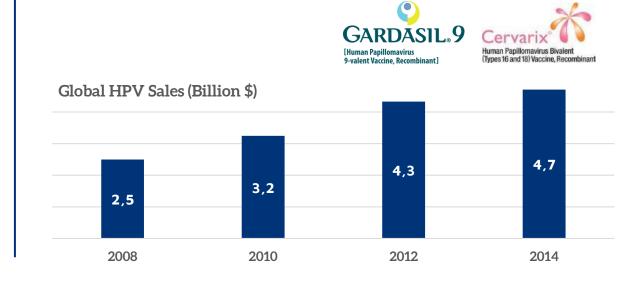




High immunogenic potential

- Full length proteins: Exceptionally strong attachments can hold entire complex proteins; other VLP approaches can only support fragments (single epitopes)
- **High density display** on surface (180 attachment sites): Increased, faster, focused immune response
- Directional attachment (vs random orientation in other systems)

VLPs have track record of success of commercial success in cancer







Board of Directors

Expanded the Board in 2021 in support of the transition to a pipeline-focused business



Dr. Martin Roland Jensen, Chairman



- PhD. in Molecular and Cell Biology, Univ. of Copenhagen, Denmark
- Born 1960, Danish citizen
- >35 years biotech industry management and co-founder experience, incl. scientific work in immunology and cancer vaccine development













Dr. Karin Garre, Board Member



- MD, from University of Copenhagen, Denmark
- Born 1957, Danish citizen
- >25 years bio-industry management and drug development experience from early to late-stage phases and registration















Dr. Allan Rosetzsky, Board Member



- Doctor of Medicine (MD), from University of Copenhagen, Denmark
- Born 1948, Danish citizen
- >40 years of healthcare and biopharma experience, including founding, running, and successfully selling the clinical CRO KLIFO



RHÔNE-POULENC







- MSc in Economics, from University of Copenhagen , Denmark
- Born 1975, Danish citizen
- 20 years leadership experience in high-tech B2B companies, incl. sales excellence, strategy and commercial development









CooperSurgical[®]



Jakob Knudsen, Board Member

- Law Degree from Univ. of Copenhagen, and MBA, Imperial College, UK
- Born 1968, Danish citizen
- >25 years commercial experience from international biotech industry







Board update and expansion at AGM May 2021

Combined more than 140 years of deep professional experience that supports ExpreS²ion's vision of leadership in the infectious diseases and cancer fields

1 26 **Proteins** for Life



Management Team

Expanded team in 2021 brings skills to build our pipeline-focused business



Bent U. Frandsen, CEO

- MSc. In Finance/Strategic Management, Copenhagen Business School, Denmark
- Born 1967, Danish citizen
- >25 years industry finance, business dev and management experience













Dr. Mette Thorn, VP Preclinical Development



- PhD in Immunology, and a MSc in Chem Eng., Tech. Univ of Denmark
- Born 1972, Danish citizen
- 20 years industrial research experience













Keith Alexander, CFO

- MBA, The Wharton School and the University of Pennsylvania, USA
- Born 1975, American citizen with Danish permanent residence
- >20 years of equity research, corporate strategy, asset management and consulting experience

Danske Bank J.P.Morgan accenture



Prof. Lars Petersen, Medical Dir., Oncology

Started in 2021

Started

- MD, DMSc in immuno-pharmacology, from Univ of Copenhagen, and CBA from AVT Business School
- Born 1960, Danish citizen
- >30 years academic and clinical development experience









Max Soegaard, VP of R&D and Technology

- PhD in Biochem., UCL, UK, and MSc in Molecular Biology; AU, Denmark
- Born 1970, Danish citizen
- 20 years academic and industrial research experience





Eske Rygaard-Hjalsted, VP Business Dev.

- MSc in Molecular Biology from Technical Univ. of Denmark (DTU)
- Born 1965, Danish citizen
- > 25 years across business dev, sales and marketing in life sciences





