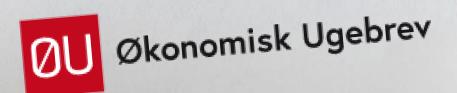
ExpreS²ion Biotech Holding AB Økonomisk Ugebrev / Investor Pitch April 2022

Proteins for the

Bent U. Frandsen, CEO

A prospectus has been prepared in connection with the Rights Issue, which is referred to in this Presentation, and has been reviewed and approved by the Swedish Financial Supervisory Authority. Such approval shall not be regarded as an approval of the Company or as support for the shares offered. The prospectus contains a description of the risks and rewards associated with an investment in the Company and potential investors are recommended to read the prospectus in its entirety before making an investment decision. The prospectus has been prepared in Swedish and English and is available on the Company's web page, www.expres2ionbio.com.



EXPRES²ION BIOTECHNOLOGIES

Disclaimer

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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, backed up by Contract Research Organization (CRO) business, that has generated SEK 60 million since IPO in 2016



Vaccine development platform with track record and partner validation. +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, further de-risking the company's pipeline. COVID-19 phase III initiation in H1 2022

Proteins for Life



Management Team

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







- Bent U. Frandsen, Chief Executive Officer • Dr. Martin R. Jensen, Chairman & Co-founder • Keith Alexander, Chief Financial Officer • Dr. Allan Rosetzsky, Member of the Board • **Dr. Max Soegaard**, VP R&D and Technology • Jakob Knudsen, Member of the Board • **Dr. Mette Thorn**, VP Preclinical Development • Dr. Karin Garre, Member of the Board • Dr. Mattis F. Ranthe, Chief Medical Officer • Sara Sande, Member of the Board



Rights Issue

De-risking the pipeline development



Maximum number of new shares to be issued: 5,841,273



Subscription price of SEK 12.50 per share



Three rights for every eight shares; Two rights entitles subscription for one new share



Subscription period: April 19, 2022 to May 3, 2022



Subscription commitments of 2.5% and guarantee undertakings of 97.5% of the Rights Issue

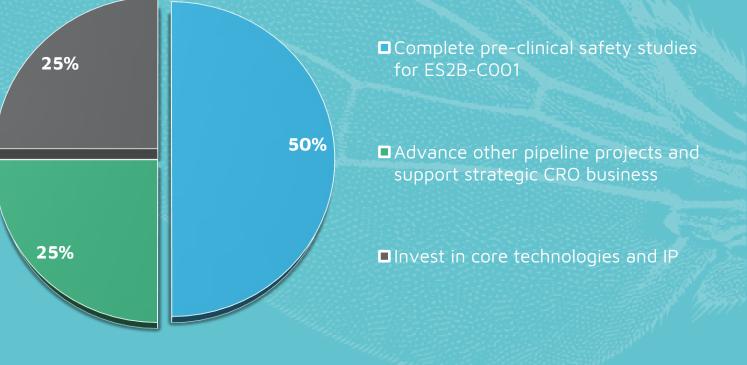
Proteins for Life VWAP = Volume-Weighted Average Share Price

A prospectus in relation to the Rights Issue has been published by the Company and is available on the Company's web page.



Raising approx. 73 million SEK in gross proceeds

Use of Proceeds



5

ExpreS²ion's Business Model

High-potential pipeline and revenue generating CRO business

ExpreS² Platform for Protein Expression +500 different proteins have been produced with the ExpreS² platform, while posting a success rate exceeding 90% across +100 clients and partners.

Novel Pipeline Development

Independent

- Fully-owned development • of novel protein therapeutics and vaccines
- After human PoC, targeting partner externally for further development

Collaboration

- Partner with leading research organizations to source and develop novel programs
- Potential to fully acquire programs for independent development

Significant upside potential: intermediate/long-term

- leading academic, organizations
- Protein feasibility, GMP production

Proteins for Life





Contract Research Organization (CRO)



Early-stage R&D for research, and biotech

delivery, and transfer to

Licensing & Kit Sales

- Fully out-license rights to ExpreS² technology
- Sell test kits and reagents for research or diagnostic applications

Revenue-generating business: current and long-term payments

Technology Platforms

ExpreS²ion's ExpreS² and AdaptVac's cVLP platform

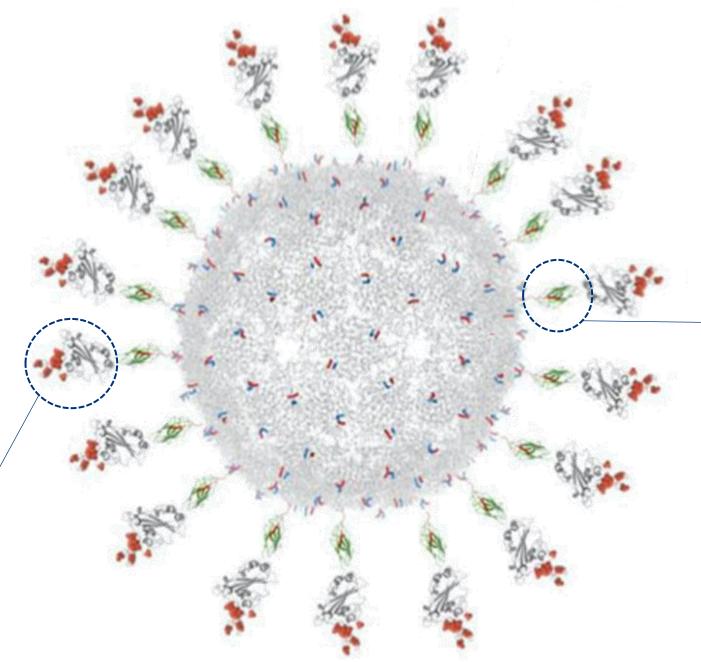


Cell line derived from Drosophila melanogaster (fruit fly) S2 cells¹

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

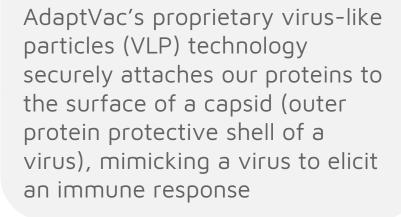


ExpreS² protein (antigen) combined with AdaptVac's cVLP containing no viral genetic material causing an immune reaction

¹ Schneider I (1972). "Cell Lines Derived from Late Embryonic Stages of *Drosophila melanogaster*". J. Embryol. Exp. Morphol. 27: 363–365. Proteins for Life Note: ExpreS²ion Biotech founders invented an Improved Vector System derived from S2 cells; granted patent until 2032 (US); glyco-engineered S2 cells pending patents until 2040.







Particle (VLP) technology

34% ownership



ExpreS² and AdaptVac's VLP

The platforms combined enable powerful vaccines to handle a wide range of diseases

ExpreS², advantages in discovery manufacturing

- Rapid delivery (3-6 months) of high-quality and uniform \checkmark proteins, important competitive advantage, considering time-tomarket and patent expiry
- **Higher yields**, i.e. amount of protein per manufacturing batch, \checkmark compared to competing systems
- Homogeneous manufacturing batches, high batch-to-batch \checkmark consistency, a requirement in pharmaceutical development

AdaptVac's cVLP platform, 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, \checkmark faster, focused immune response
- ✓ **Directional attachment** (vs random orientation in other systems)

Proprietary process and expertise has established ExpreS²ion as the leader in specialty protein production 20+ years of experience \checkmark

- Over 90% success rate, over 500 proteins expressed \checkmark
- ✓ Go-to source for challenging proteins







Deep Pipeline for Value Creation

| | Project/Target | Development Progress | | | | | _ | |
|-------------------|-------------------------|----------------------|------------------------------|-----------------------------------|--------------------------------|---------------------------------|-------------------------------------|---|
| DISEASE | | Discovery | Pre-clinical Pharmacology | cGMP / Tox | Phase I | Phase II | Phase III | Partner/Funding |
| Coronavirus | ABNCoV2/SARS-CoV-2 cVLP | | | | | | Phase III initiation: H1 2022 | adapt AC |
| Breast Cancer | ES2B-C001/HER2 cVLP | | | | Phase I initiation: 2024 | | | 100% ExpreS ² ion |
| Influenza | Hemagglutinin | | | Toxicology initiation: 2023 | | | | European INDIGO |
| Malaria: | | | | | | | | |
| I: Blood-Stage | RH5 | | | Phase Ib re | adout: H2 2023 | | | European European MultiViVax |
| 2: Blood-Stage | RH5-VLP | | | | Phase I initiation: 2023 | | | |
| 3: Transmission | Pfs 48/45 | | | | Phase I initiation: 2022 | | | European OptimalVax |
| 4: Placenta-Borne | VAR2CSA | | | | | Phase II initiation: 2023 | | UNIVERSITY OF COPENHAGEN UNIVERSITUBING |
| 5: Blood-Stage | CYRPA complex | | | | | | | DISCOVERIES FOR HUMANITY |
| | | | | | | | | |

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



Development Progress

Our Programs



Breast Cancer Overview

The ES2B-COO1 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

- •
- ٠
- •



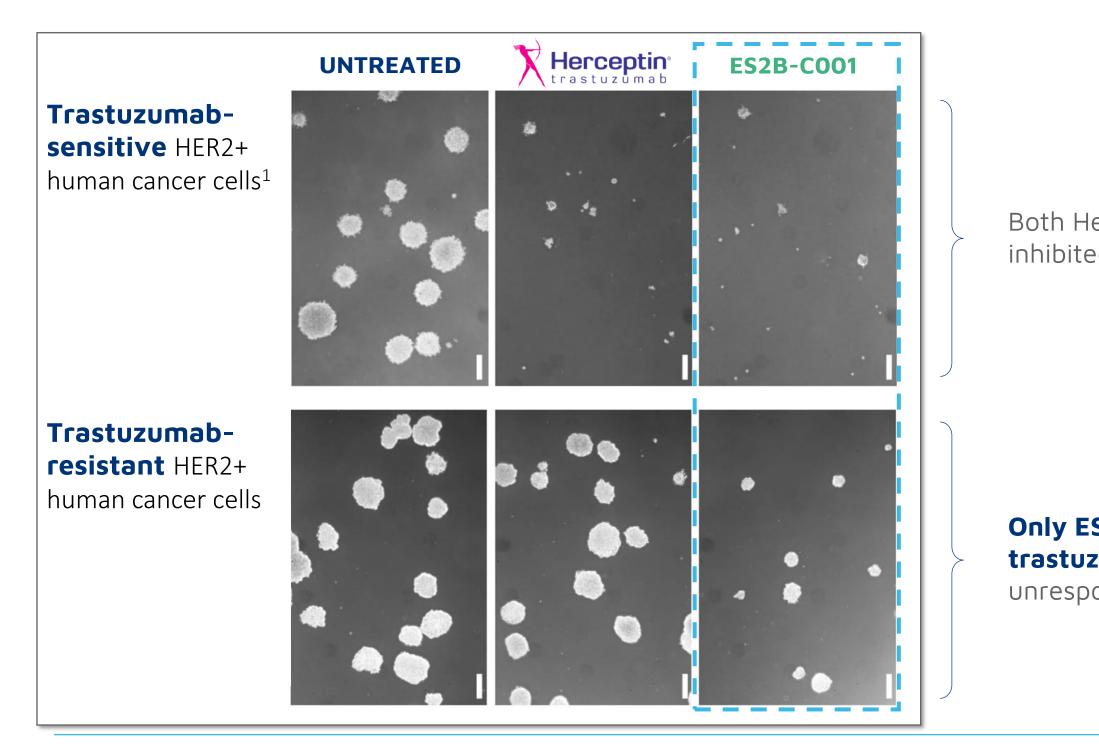
Resistance to monoclonal antibodies may develop

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



Proteins for Life

Note that this data was generated for AdaptVac's predecessor vaccine candidate (HER2-VLP very similar to ES2B-C001) Source: Palladini, A. et al. (2018), "Virus-like particle display of HER2 induces potent anti-cancer responses", Oncolmmunology, pub. Vol 7, no 3



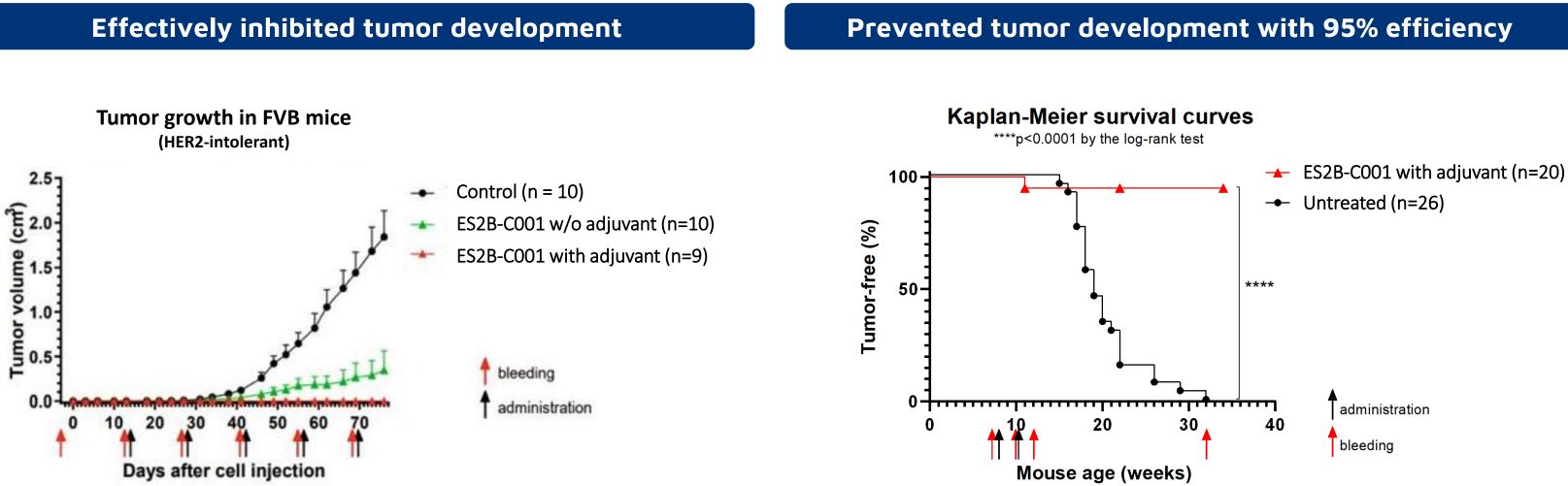
Both Herceptin (trastuzumab) and ES2B-COO1 inhibited growth in the trastuzumab-sensitive cells

Only ES2B-COO1 inhibited growth in the trastuzumab-resistant cells; cells were

unresponsive to Herceptin



ES2B-CO01 has demonstrated animal proof-of-concept



- Two weeks after the inoculation of tumor cells, the first vaccine • administration was given. Repeated every 2nd week during the study
- ES2B-CO01 formulated in an adjuvant totally blocks tumor development. • ES2B-C001 without adjuvant partly blocks tumor development and if tumors develop, growth is significantly inhibited
- administered to Delta16 mice
- tumors



At mouse age 6-8 weeks, 2 vaccinations with 2 weeks interval were

Two vaccinations prevented tumor development with 95% efficiency as compared to a control group, where all mice spontaneously developed



With over 6 million deaths worldwide¹, 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

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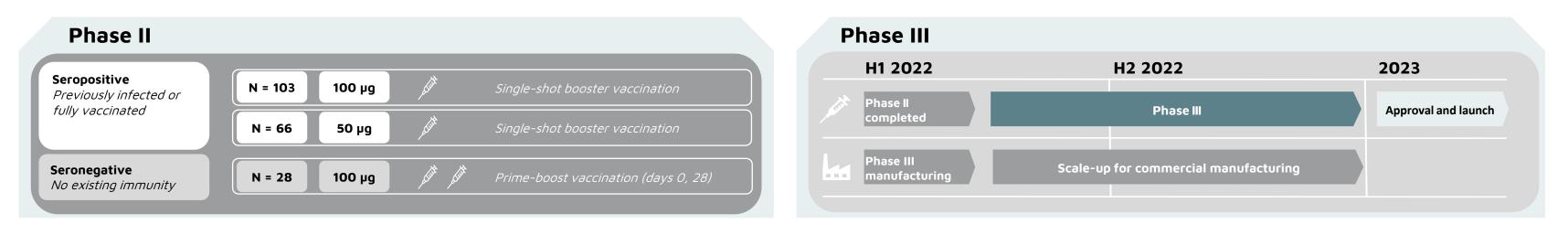


ABNCoV2 COVID-19 Vaccine Successful completion of Phase II study, and initiation of Phase III in H1 2022

Phase II: Safe & highly efficacious against SARS-CoV-2

- Favorable safety profile: Vaccine was generally well-tolerated, with no • related serious adverse events reported
- No relevant difference in the safety profile between subjects receiving the low (50 μ g) or high dose (100 μ g) of ABNCoV2
- Booster vaccination with ABNCoV2 found no difference in responses in • **variants of concern** (Wuhan, α , β and δ)
- Strong booster response for both 50µg and 100µg doses •
- Seronegative antibody titers >90% efficacy, confirms Phase I results ٠
- Phase I data documented up to 12 times higher compared to the levels achieved after COVID-19 infection - significantly higher than the virus neutralization levels reported for leading mRNA COVID-19 vaccines

- 800m funding
- design
- •
- before year-end



•

Proteins for Life





Phase III: Initiation of pivotal study in H1 2022

Bavarian Nordic plan Phase III study initiation H1 2022, granted DKK

An overall agreement has been made with regulatory authorities on the trial

Approx. 4,000 seropositive subjects who will receive a booster vaccination with 100µg ABNCoV2 or an mRNA-based vaccine, aiming to demonstrate non-inferiority of ABNCoV2 to the licensed mRNA vaccine

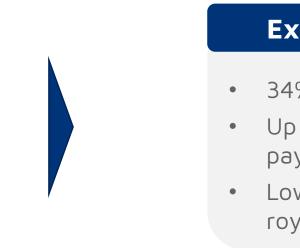
Manufacturing of vaccine bulk for the trial has been completed, filling now ongoing at BN's own manufacturing line

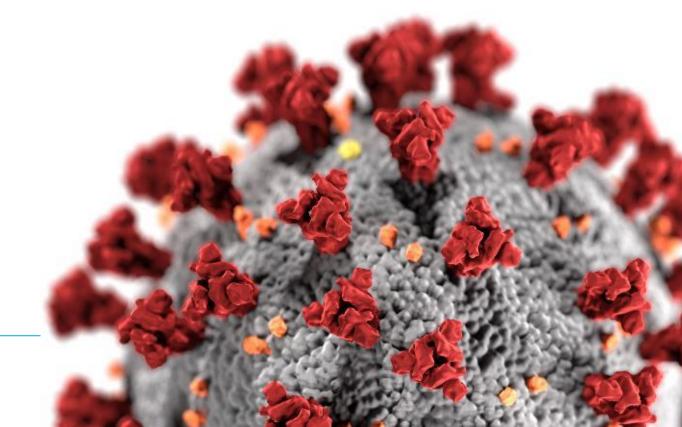
Trial planned for initiation in H1 2022 and with anticipated completion

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) ٠
- Up to EUR 136 million in development and sales milestones
- Single- to double-digit-% royalties of Bavarian revenues





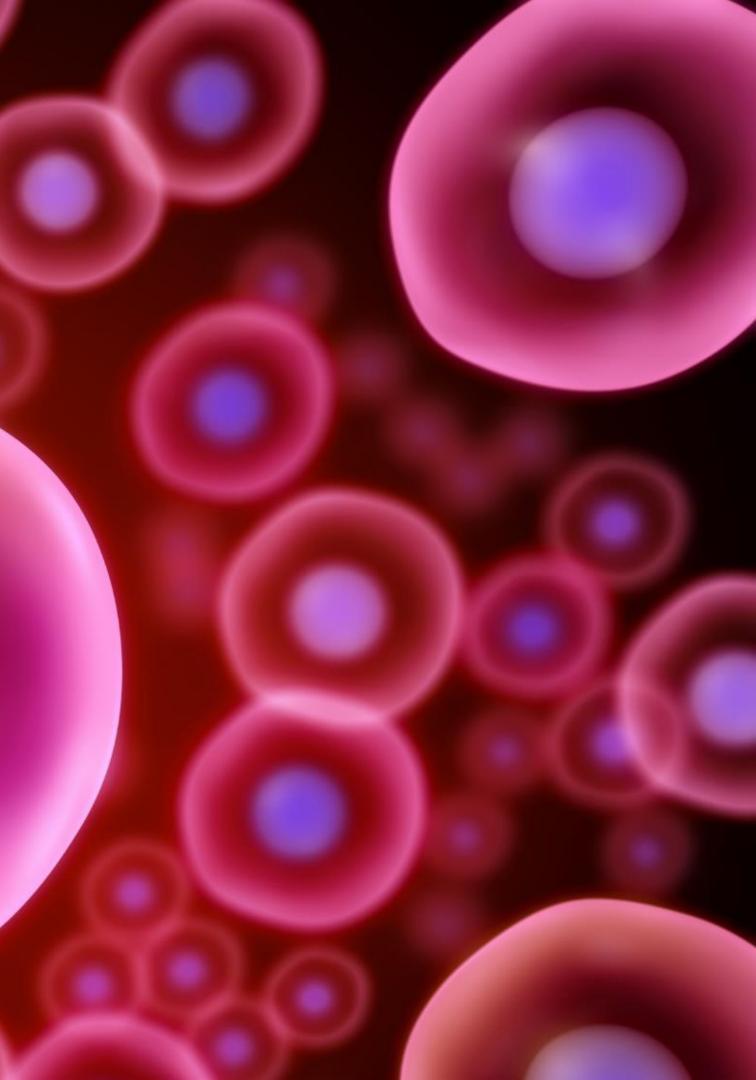
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ExpreS²ion receive from AdaptVac

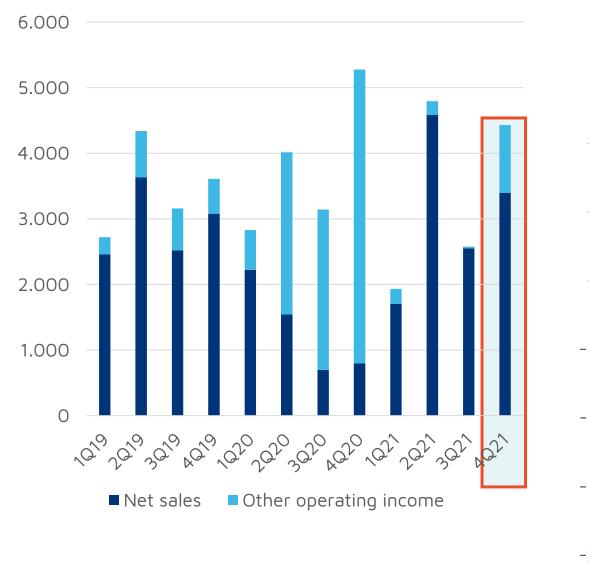
- 34% ownership of AdaptVac
- Up to EUR 2 million in commercial milestone payments
- Lower double-digit percentage of AdaptVac royalties

Financials and Outlook

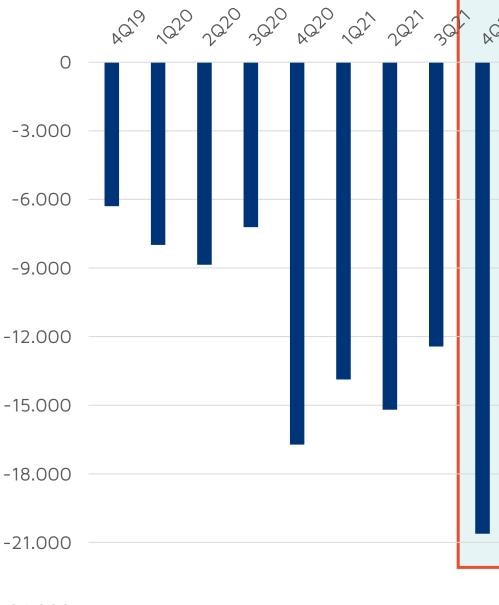


Financials – Fitting the New Strategy

Revenues, SEK '000s



Operating costs, SEK '000s



-24.000

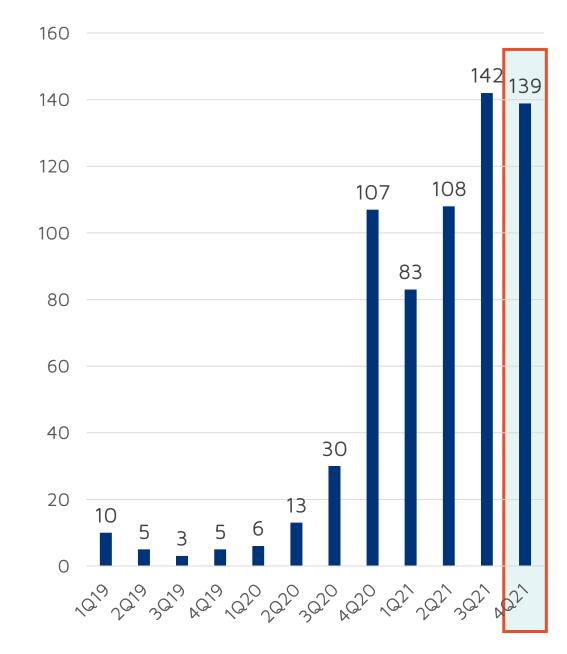
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¹ At the end of 2021, the Company had SEK 101.8 million in its SKAT account (interest-free tax asset with Denmark's tax authorities), shown in other short-term investments. When combined with cash and bank, the company had SEK 138.9 million available to fund operations. See page 14 of 2021 year-end report for more information..





Cash balance¹, SEK million



Rights Issue – what do I need to do?

Subscription in new shares

Investors with or without preferential rights can subscribe for new shares through their:

- 1. Own registered accounts where you either can register interest in new shares through:
 - a) Your bank respectively (etc. Avanza, Nordnet), where you will find a notice that a rights issue is ongoing in one of your stocks
 - b) Or by sending in an issue report with an attached notice of payment to Vator securities, the issue report can be found through Vator Securities webpage, under issuer services and current offerings, or through ExpreS²ion's webpage, under investor relations, IPO and Rights issues. The issue report can be sent to Vator Securities either by email at: emissioner@vatorsec.se or by regular mail to the address: Emissioner / ExpreS²ion, Kungsgatan 34, 111 35 Stockholm.

How to subscribe to new shares, with option b:

- 1. Download the issue report either on Vator securities or ExpreS²ion's homepage.
- 2. Fill in the necessary information, Bank, Account nr., number of shares interested, (and in case of preferential rights, the number of rights exercised). There are two types of form. (A) for existing shareholders (with preferential rights), and (B) for new shareholders (without preferential rights).
- 3. Submit the issue report either by mail or email.
- 2. Custody accounts where you as an investor need to register interest through your custody bank and follow their routines. (Danish investors who hold shares in Danish accounts must subscribe for shares through their custody accounts).



Timetable

| Event | Timing |
|---|--------------------------|
| Last day of trading in shares including right to receive subscription rights | 11 April 2022 |
| First day of trading in shares excluding right to receive Subscription rights | 12 April 2022 |
| Record date for participation in the Rights Issue | 13 April 2022 |
| Prospectus published | 13 April 2022 |
| Subscription period | 19 April - 3 May |
| Trading in Subscription rights | 19 April - 28 Apr |
| Trading in BTAs (Paid subscribed New shares) | 19 April 2022 ur SCRO |
| Announcement of final outcome in the Rights Issue | On or around 5 |
| | |





oril 2022

Intil the Rights Issue is registered with

May 2022

Advancing Towards Key Catalysts

| | | 202 | 2022 | | |
|--------|--|--|---|--|---------------|
| ale to | CORONAVIRUS (ABNCoV2) | | | | |
| | ØBN Phase II ØBN Phase II study initiation study readout (Q3'21) H1 2022 | BN Phase III study initiation H1 2022 | BN Phase III initial readout H2 2022 | BN ready for market launch (subject to regulatory approval) | |
| Hillis | BREAST CANCER (ES2B-CO | 01) | | | |
| | Executed in-licensing (Feb 2021) Preclinical animal studie initiated (Q2) | | GMP manufacturing batch | Preclinical safety studies readout | Fi st H |
| | INFLUENZA | | | | |
| Ú | | | | cGMP/Preclinical safety studies initiation 2023 | |
| - | MALARIA | | | | |
| × V × | 2021 laur | Additional phase I study in a aria endemic region in Africa ached during 2021, with rnative adjuvant | Pfs 48/45 phase I study initiation 2022 | RH5-VLP p initiation 2023 | hase |



| | | 2024 |
|--|---|--|
| | | |
| Filing of clinical study application H2 2023 | Initiation of first human clinical study 2024 | Outlicensing window opens pending human data |
| | | |
| e I RH5 phase I study readout H2 2023 | | |

Thank you!

Contact:

Proteins for Life

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