

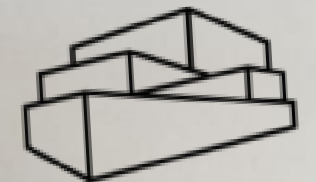
31st May 2022

Proteins for Life

Virtual Oncology Webinar

Keith Alexander, CFO

Mette Thorn, PhD, VP Preclinical Development



HC ANDERSEN CAPITAL

EXPRES²ION
BIOTECHNOLOGIES

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Investment Highlights

Key player in advanced protein sciences, with deep pipeline of novel vaccines addressing high-value 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

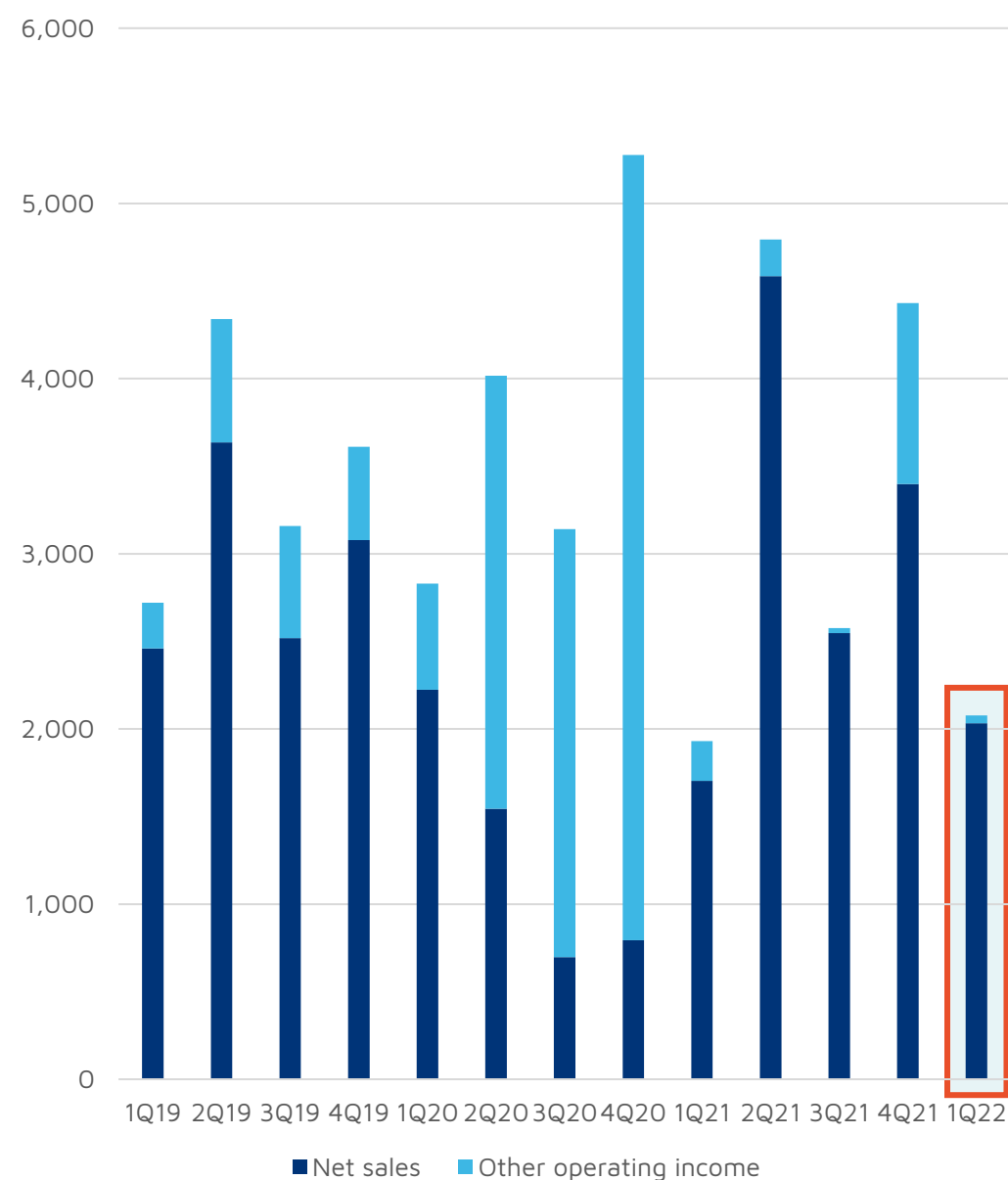


ExpreS²ion is advancing towards key catalysts during 2022, further de-risking the company's pipeline. COVID-19 phase III initiation in H1 2022

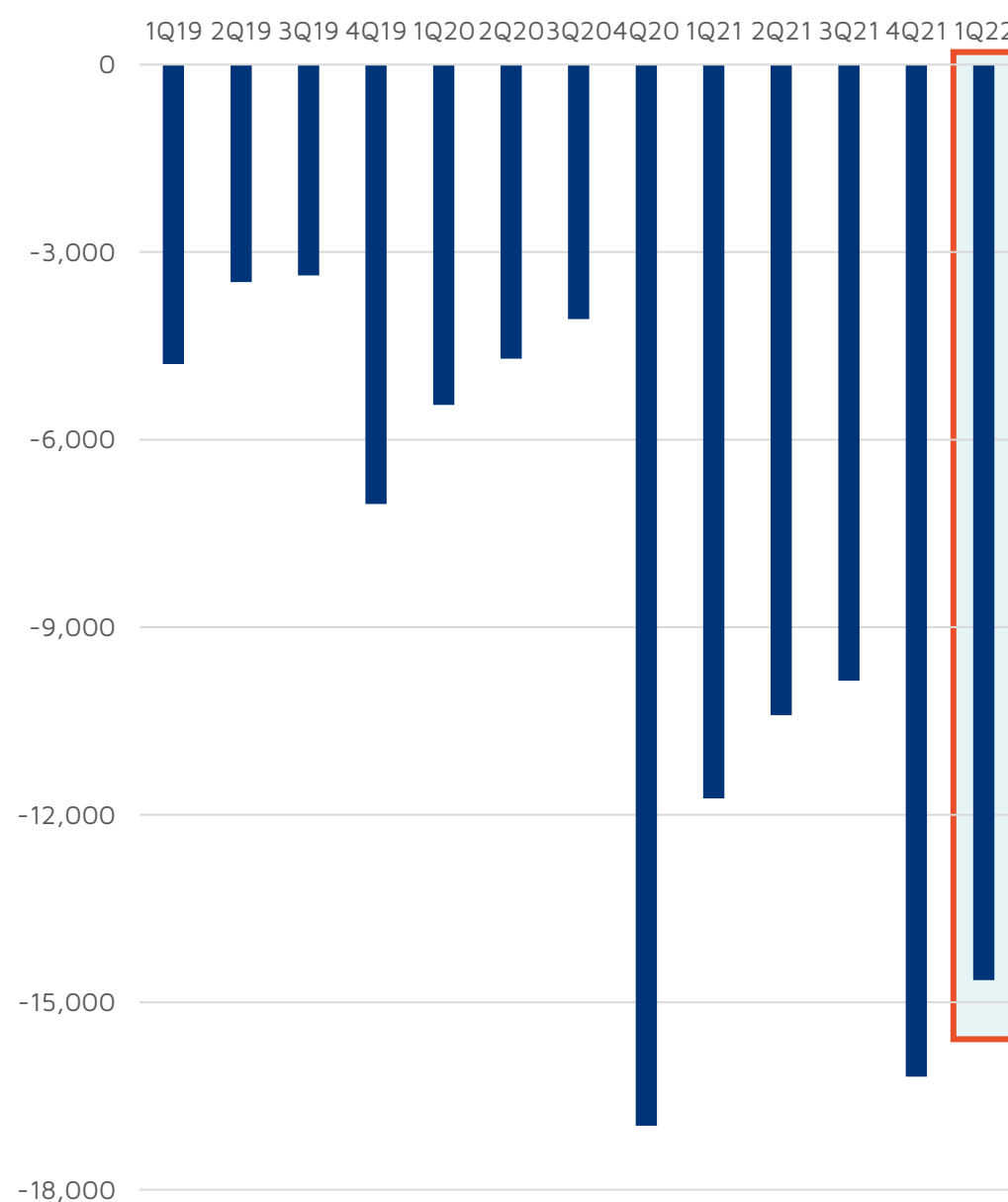
Financials as of March 31, 2022

- Fitting the New Strategy

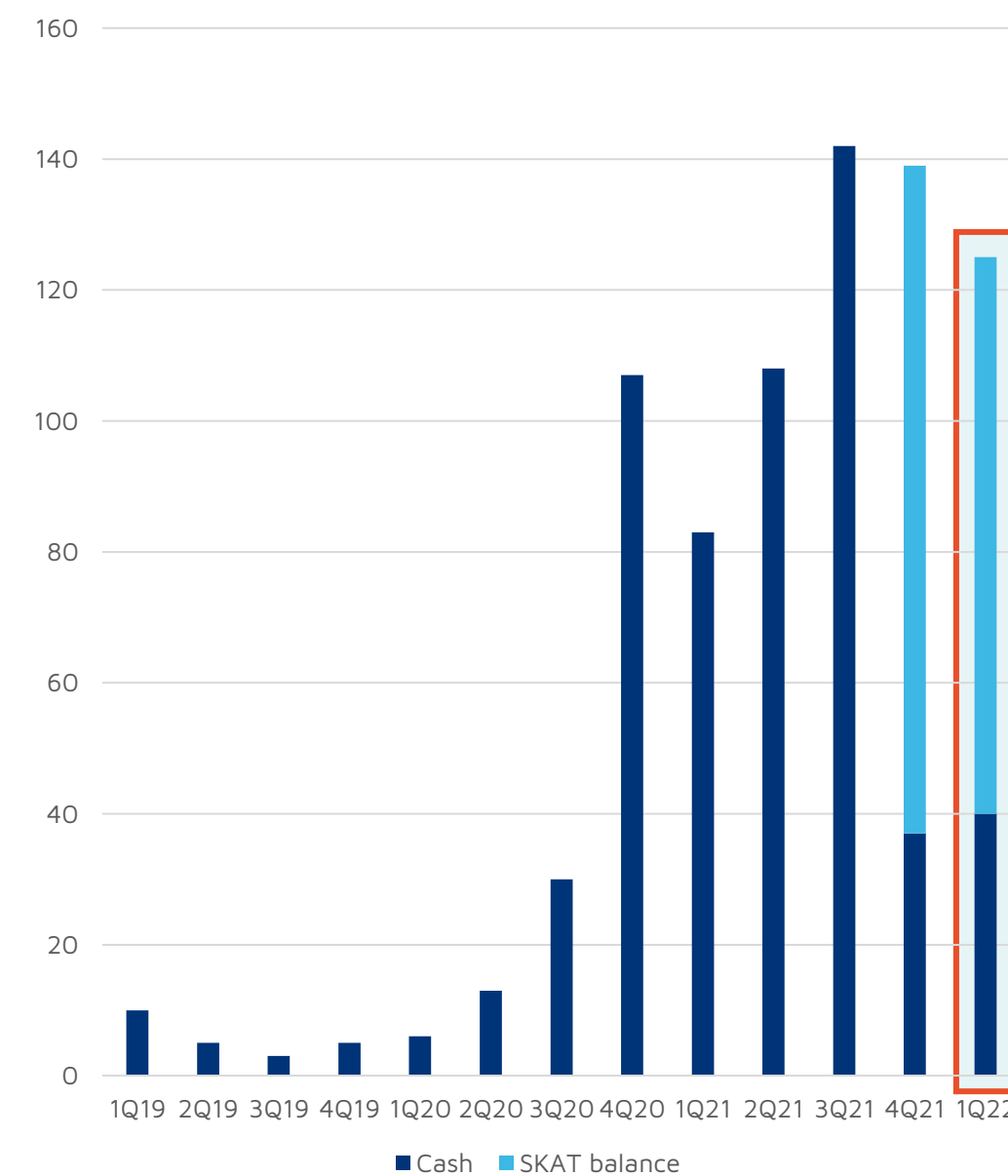
Revenues, SEK '000s



Operating costs, SEK '000s



Cash, including the company's SKAT balance¹, SEK million



¹ At the end of 1Q 2022, the Company had SEK 85.1 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 124.7 million available to fund operations. See page 15 of 1Q 2022 year-end report for more information. Since the end of the quarter, the Company raised an additional approximately SEK 73 million before transaction costs in a rights issue completed on May 5th, 2022.

Deep Pipeline for Value Creation

Development Progress

	DISEASE	Project/Target	Discovery	Pre-clinical Pharmacology	cGMP / Tox	Phase I	Phase II	Phase III	Partner/Funding	
Near term value	Coronavirus	ABNCoV2/SARS-CoV-2 cVLP						Phase III initiation: H1 2022	adaptVAC, BAVARIAN NORDIC, PREVENT-nCoV	
Oncology asset	Breast Cancer	ES2B-C001/HER2 cVLP					Phase I initiation: 2024		100% ExpreS ² ion	
	Influenza	Hemagglutinin			Toxicology initiation: 2023				INDIGO	
	Malaria:									
	1: Blood-Stage	RH5					Phase Ib readout: H2 2023			MultiVivax, THE JENNER INSTITUTE, OXFORD
	2: Blood-Stage	RH5-VLP					Phase I initiation: 2023			wellcome trust, THE JENNER INSTITUTE, OXFORD
	3: Transmission	Pfs 48/45					Phase I initiation: 2022			OptimalVax, THE JENNER INSTITUTE, OXFORD
	4: Placenta-Borne	VAR2CSA						Phase II initiation: 2023		UNIVERSITY OF COPENHAGEN, ERHARD KARLS UNIVERSITÄT TUBINGEN
	5: Blood-Stage	CYRPA complex								Walter+Eliza Hall Institute of Medical Research, DISCOVERIES FOR HUMANITY

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

Our Technology & Oncology Program



Technology Platforms

Expres²ion's Expres² and AdaptVac's cVLP are our COVID-19 and Cancer vaccine technologies

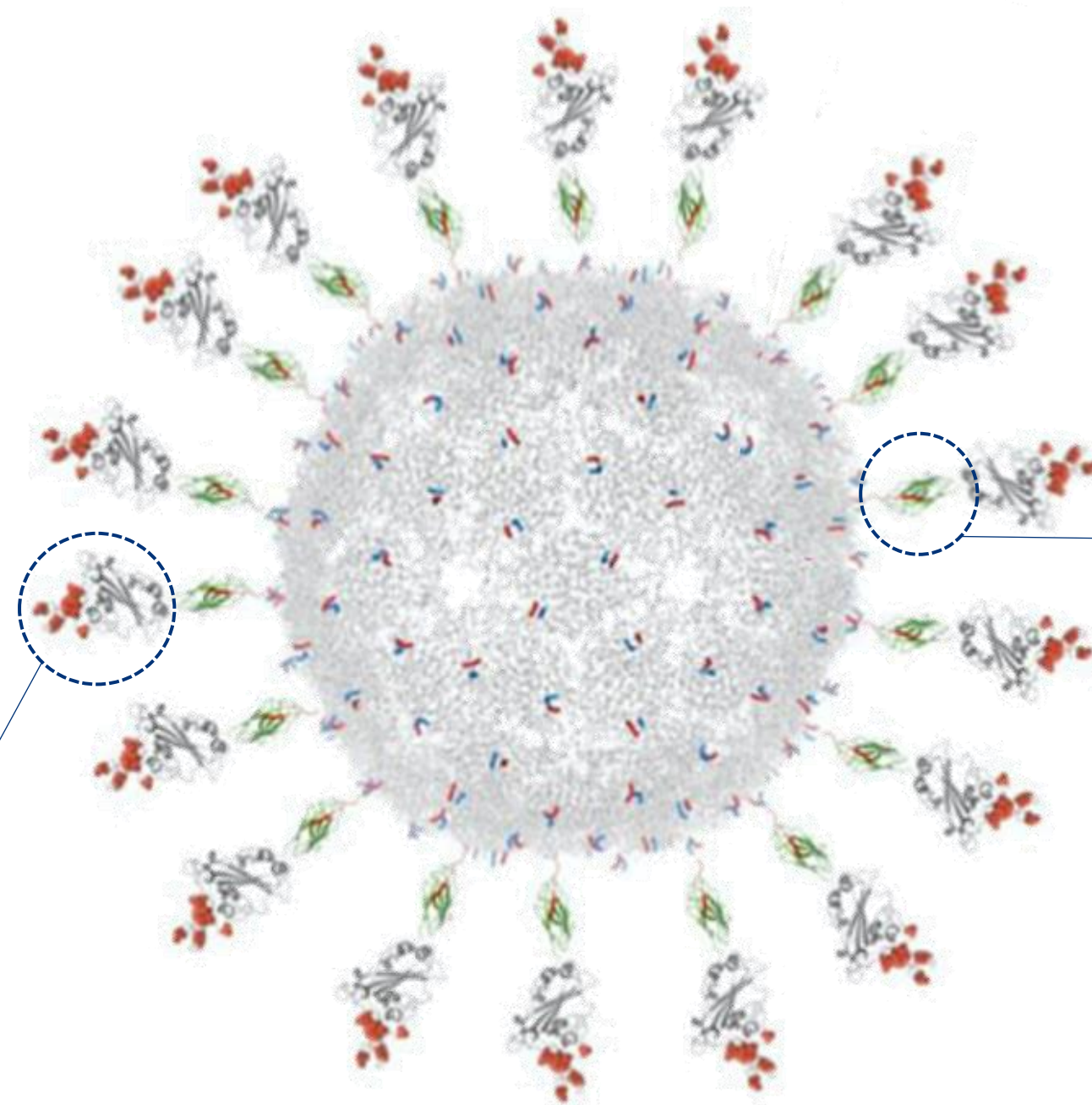


Cell line derived from *Drosophila melanogaster* (fruit fly) S2 cells¹

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

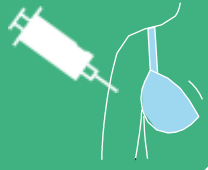


Expres² protein (antigen) combined with AdaptVac's cVLP containing no viral genetic material causing an immune reaction

Particle (VLP) technology

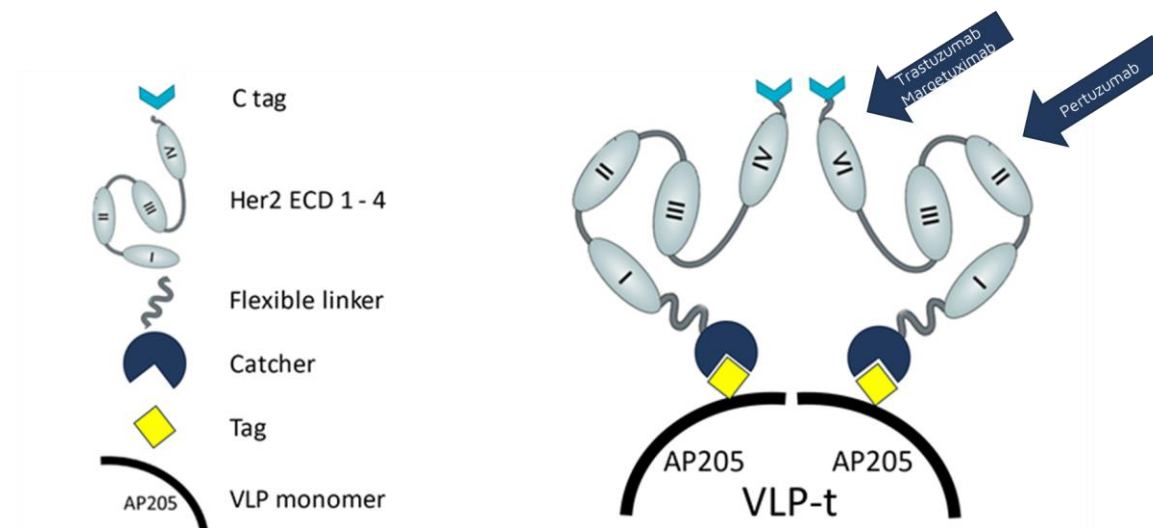
AdaptVac's proprietary virus-like particles (VLP) technology securely attaches our proteins to the surface of a capsid (outer protein protective shell of a virus), mimicking a virus to elicit an immune response

34% ownership



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

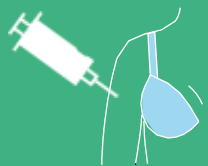
- Target the HER2 receptor on tumor cells to reduce proliferation and induce tumor cell destruction



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 HER2-cVLP vaccine approach offers potential to overcome drawbacks through *internal antibody production*



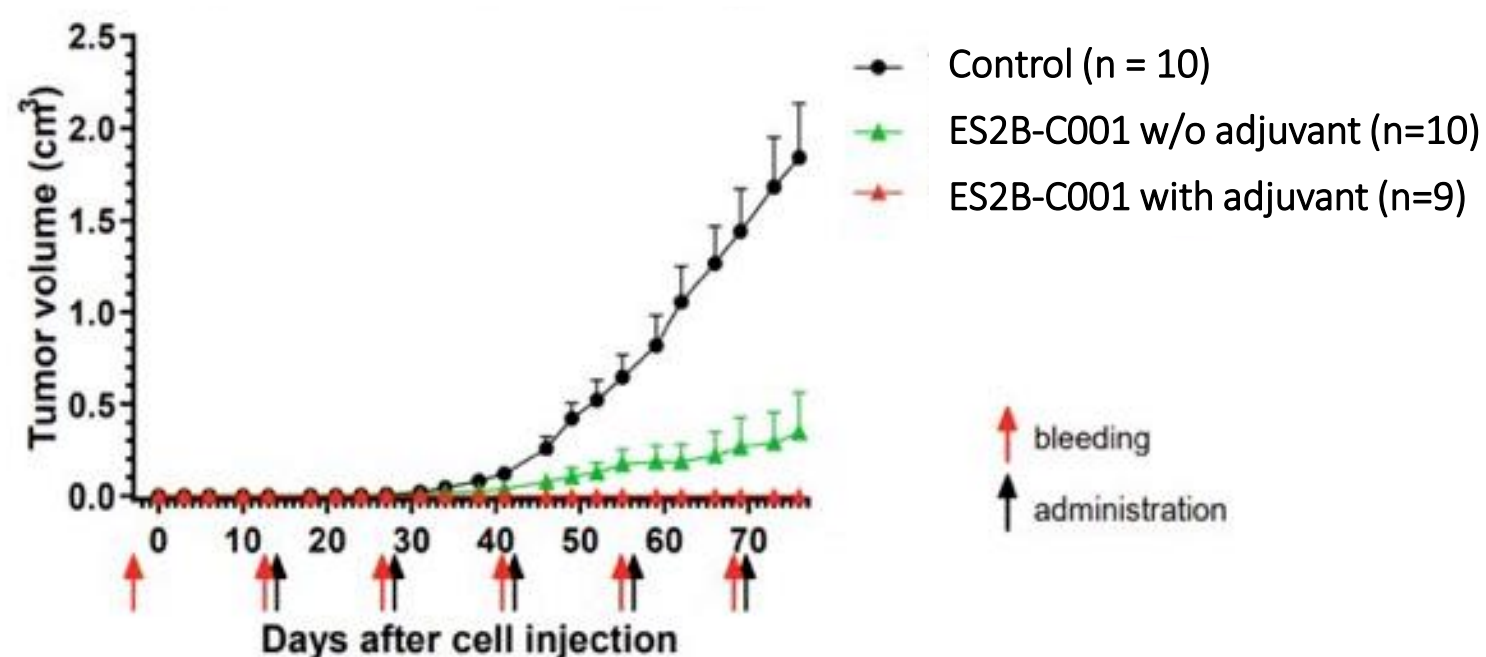
ES2B-C001 Preclinical Proof-of-Concept (I)

ES2B-C001 has demonstrated proof-of-concept

Effectively inhibited tumor development in FVB mice

Prevented tumor development in delta16 HER2 tg mice

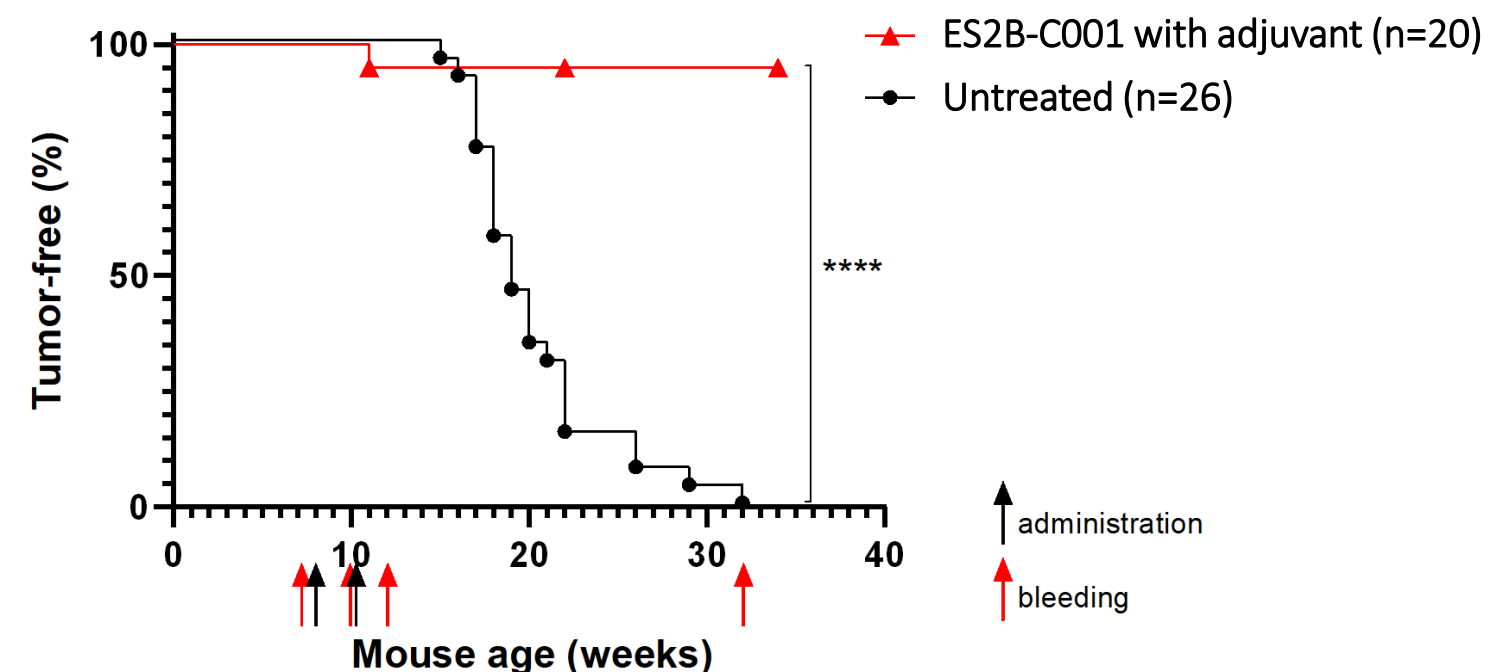
Tumor growth in FVB mice
(HER2-intolerant)



- Two weeks after the intramammary fat pad (i.m.f.p.) inoculation of HER2+ tumor cells, the first vaccine administration was given. Repeated every 2nd week during the study
- ES2B-C001 formulated in an adjuvant totally blocks tumor development**
- ES2B-C001 without adjuvant blocks tumor development in 7/10 FVB mice**

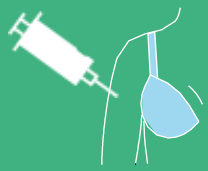
Kaplan-Meier survival curves

****p<0.0001 by the log-rank test



- At mouse aged 6-8 weeks, 2 vaccinations with 2 weeks interval were administered to Delta16 HER2 transgenic mice (HER2-tolerant)
- Two vaccinations prevented tumor development with 95% efficiency** as compared to a control group, where all mice spontaneously developed tumors within 32 weeks

Note: FVB mice are mice being challenged with tumors, while Delta16 mice spontaneously develop tumors and have been inoculated with tumor cells to accelerate tumor development



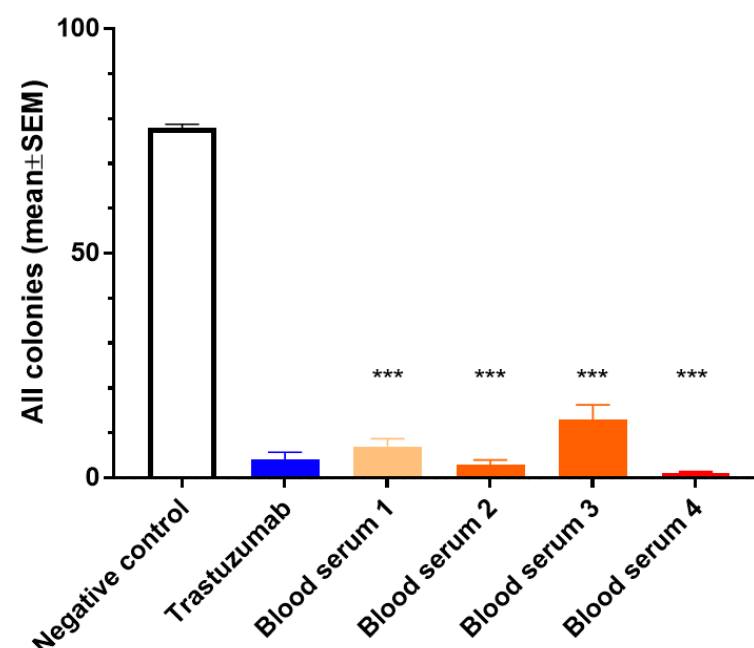
ES2B-C001 Preclinical Proof-of-Concept (II)

ES2B-C001 has demonstrated proof-of-concept

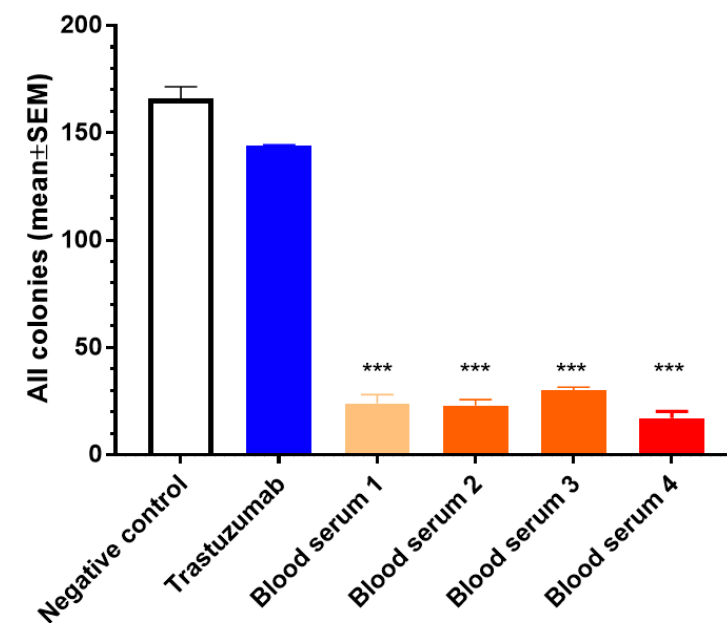
Overcomes trastuzumab-resistance of tumors *in vitro*

Inhibited tumor development in delta16 HER2 tg mice

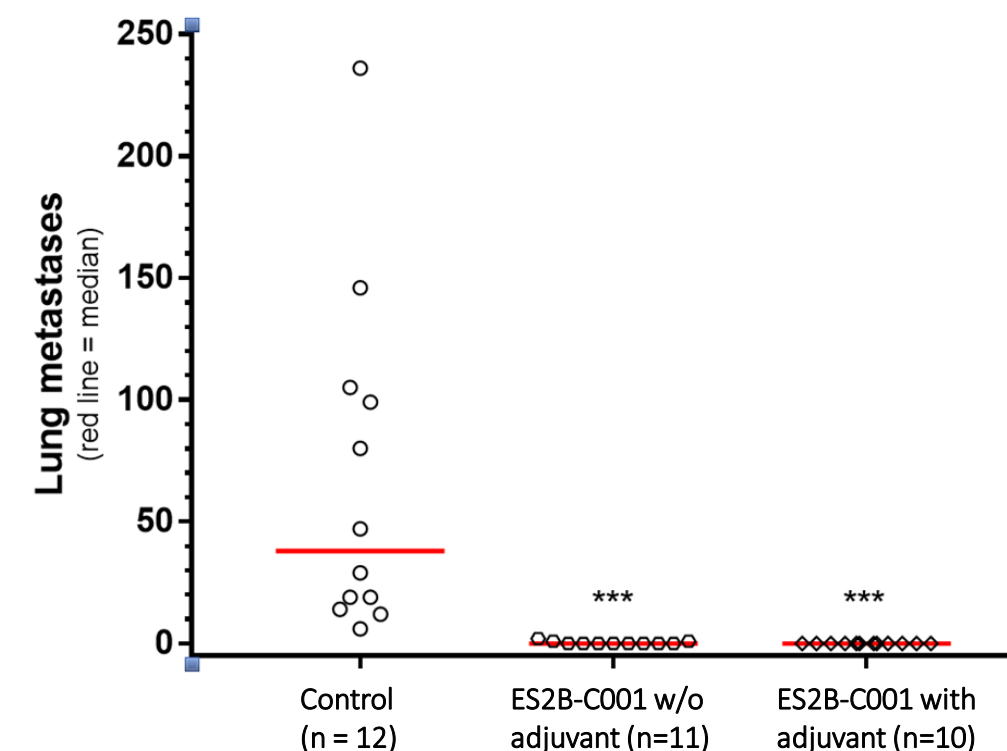
Trastuzumab-sensitive cells



Trastuzumab-resistant cells



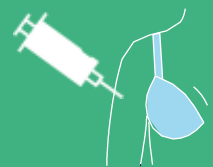
Lung metastasis development in Delta 16 mice



- In vitro* PoC data in a growth inhibition assay: Blood serum from ES2B-C001-vaccinated mice **significantly inhibited the growth of HER2+ trastuzumab-sensitive as well as trastuzumab-resistant human tumor breast cancer cells**

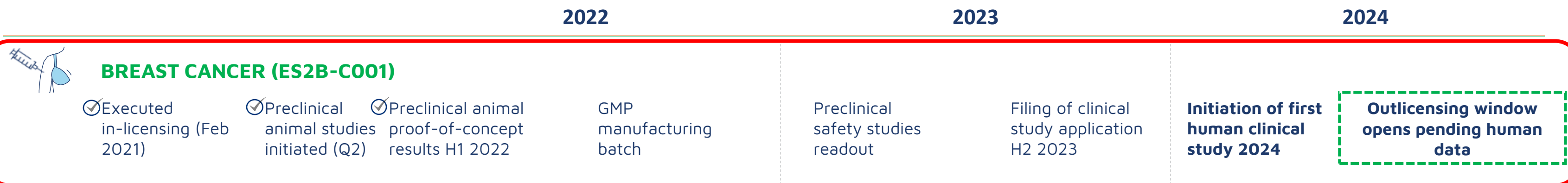
- One week after the intravenous (i.v.) injection of HER2+ tumor cells, the first vaccine administration was given. Repeated every 2nd week during the study
- All mice vaccinated with E2SB-C001 with adjuvant were tumor-free**
- 73% of mice (8/11) vaccinated with ES2B-C001 without adjuvant were tumor-free,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

*** statistical significance (*in vitro* assay: $p < 0.001$ vs negative control, Tukey's test; metastatic outgrowth *in vivo* model: $p < 0.0001$ vs control, Dunn's non parametric, multiple comparisons test)



Advancing Towards Key Catalysts

On path
for
value
creation





Thank you!

Contact:
info@expressionbio.com

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