

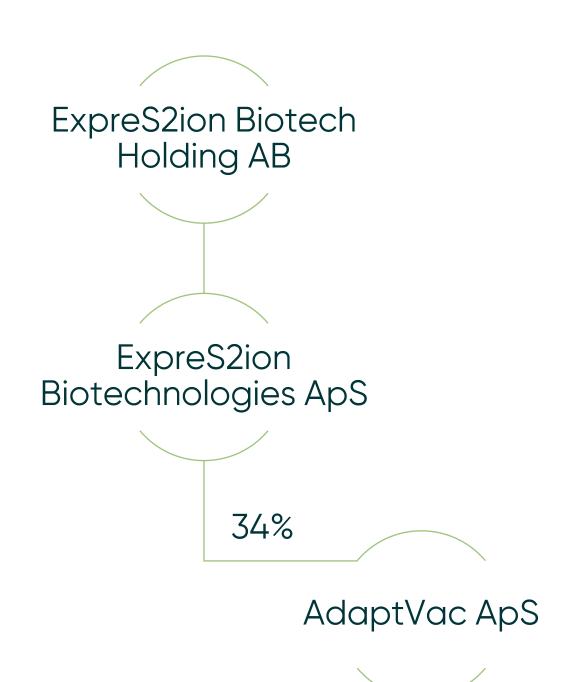
H. C. Andersen Capital Seminar, Copenhagen 17 September 2024

Revolutionizing breast cancer treatment: ES2B-C001





About ExpreS2ion



ExpreS2ion Biotech Holding AB

- Listed on the Nasdaq First North Growth Market since 2016
- Holding company for ExpreS2ion Biotechnologies ApS, which it owns 100%

ExpreS2ion Biotechnologies ApS

- Established in 2010
- ExpreS2™ protein production platform, vaccine pipeline and CRO business
- Owns 34% of AdaptVac ApS

AdaptVac ApS

- Co-founded in 2017 by ExpreS2ion and researchers from Copenhagen University
- Virus-like particle (VLP) platform AdaptVac's VLP is a delivery vehicle in ExpreS2ion's breast cancer vaccine candidate, ES2B-C001 (HER2-VLP)



ExpreS2 platform proofs-of-concept

+ applied in numerous additional pharmaceutical and biotech protein production projects

Discovery	Lead optimization	CTA submitted	Phase I	Phase II	Phase III – Validated
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Influenza	Cytomegalovirus	HER2+ breast cancer	3 x Malaria	1 x Malaria	COVID-19
Through partnership with Copenhagen University	ExpreS2ion has first right to license	Wholly-owned by ExpreS2ion	Under development by Oxford University	Under development by Oxford University	Licensed to Bavarian Nordic; met Phase III primary endpoint
Nipah and filovirus	Influenza				
Through participation in VICI-Disease consortium	Through participation in INDIGO consortium				

Groundbreaking novel cancer therapy

ES2B-C001 summary: A therapeutic vaccine to treat HER2-positive breast cancer

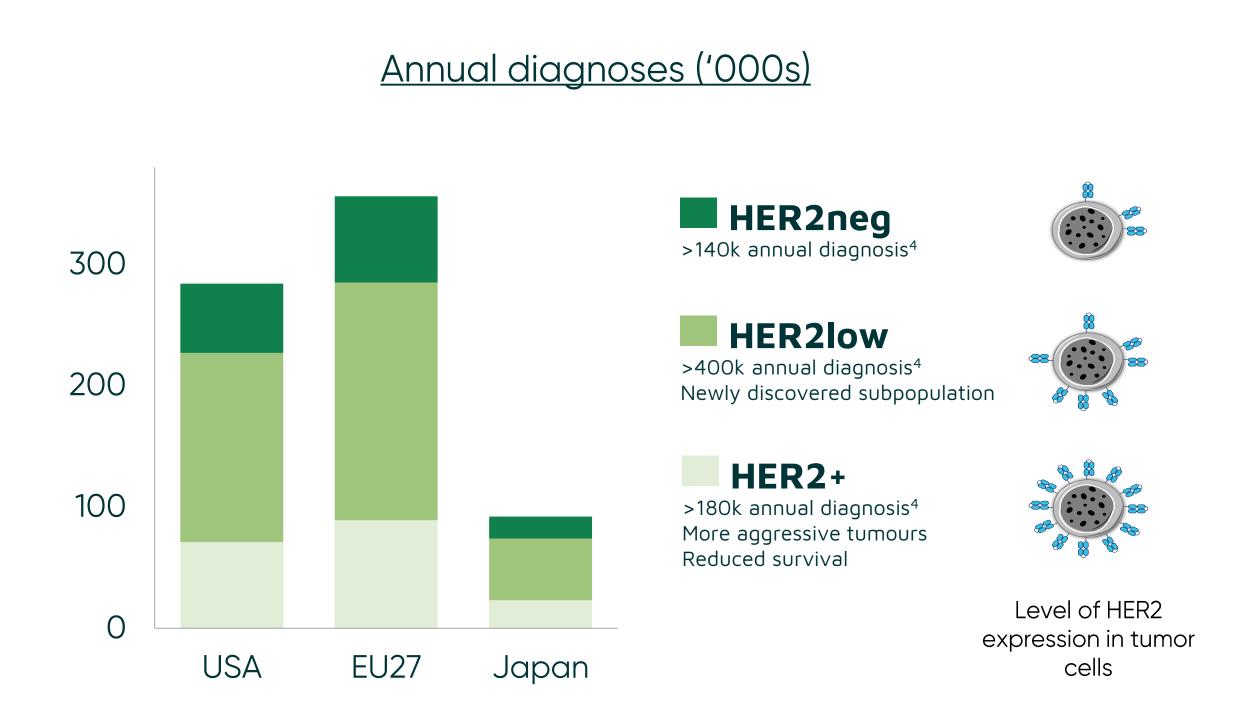


- A HER2-cVLP vaccine targeting HER2-expressing breast cancer, addressing a €27B global market with 7.2% CAGR next 5 years¹
- ES2B-C001 demonstrated significant tumour growth inhibition, resulting in 100% survival of treated animals
- Effectively breaking tolerance, and overcoming monoclonal antibody resistance
- CTA submitted in Q3 '24 and aim to complete first-in-human Phase I clinical trial by Q1 '26
- ExpreS2ion committed to ensure completion of Phase II clinical proof-of-concept studies during 2026-2029



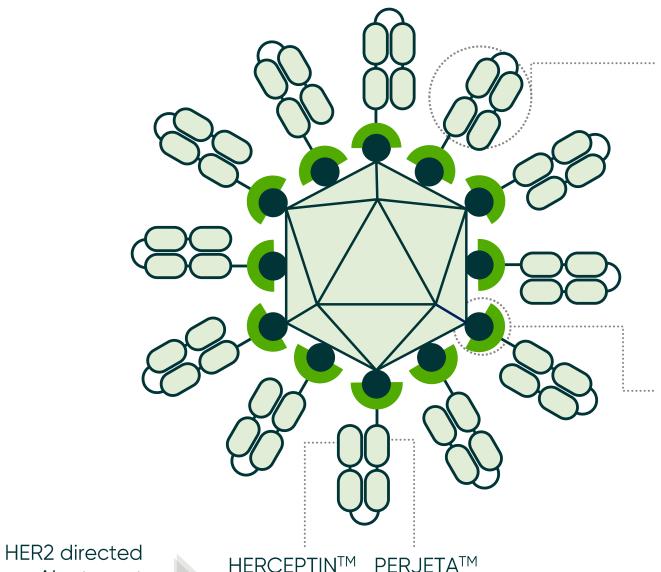
The persistent challenge of HER2+ breast cancer

- 1 in 8 women are diagnosed with invasive breast cancer, leading to approximately 685,000 deaths each year¹
- HER2 is overexpressed in about 15-20% of breast cancer tumours²
- Overexpression of HER2 is associated with
 - More aggressive disease
 - Higher recurrence rate
 - Increased mortality³



ES2B-C001 vaccine design

Combines unique full-length antigen with highly immunogenic VLP technology platform, leading to polyclonal antibody response



Domain I

HER2 protein

(all 4 extra-cellular domains)
ExpreS2™ platform

Secure & high-density display of HER2 in cVLP

(180 attachment sites)

AdaptVac's VLP technology

VLP concept in approved cancer vaccines
 HPV vaccine against cervical cancer and HBV vaccine against liver cancer

Highly immunogenic

A wide range of epitopes presented to B-cells. Generates a strong polyclonal Ab response -> effective in tumour cells resistant to mAbs.

Safety profile

Technology validated in phase III testing of another indication & ES2B-C001 long-term GLP NHP studies

- Longevity of immune response
 Potent B-cell activation via VLP presentation. Break 'self-tolerance' for HER2+.
- Combination with SoC
 Applied on top of different LOTs.
- Off-the-shelf, scalable, cost-effective

Domain IV

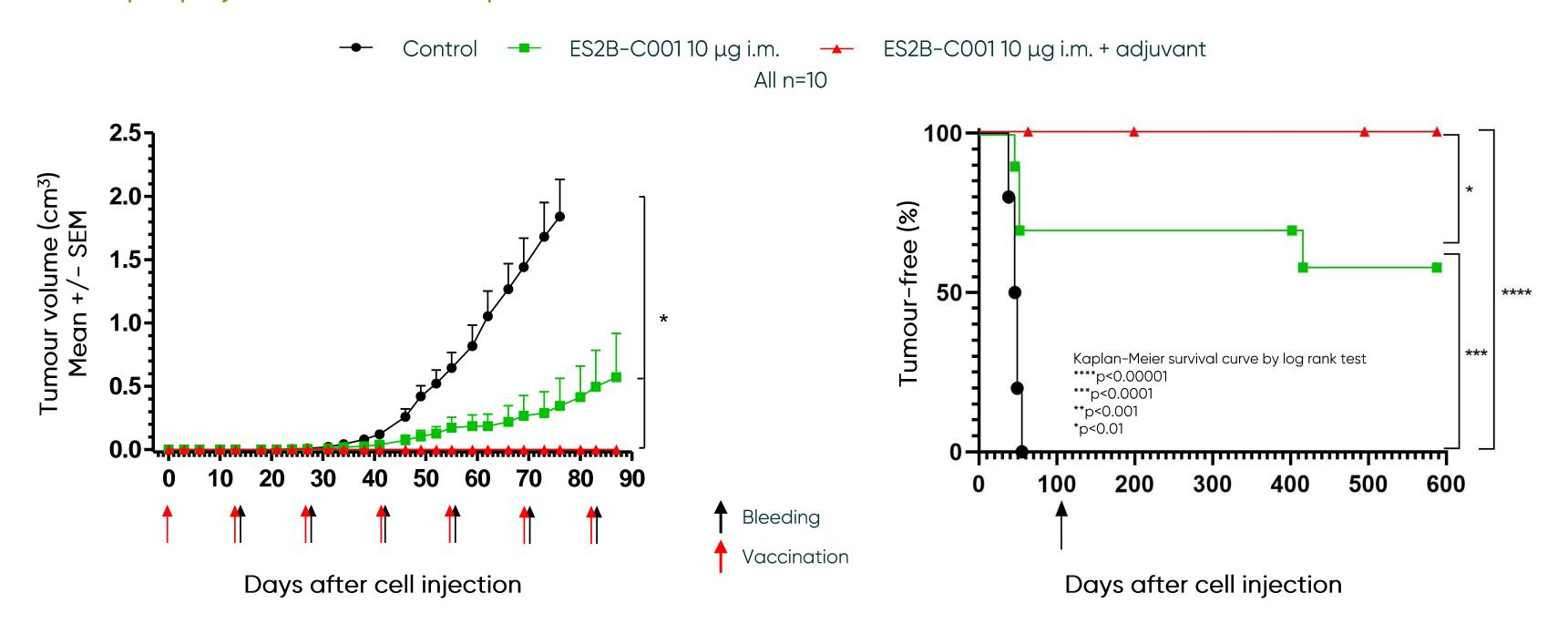
mAbs target

single epitope¹



Promising non-clinical results

Significant *in vivo* tumour growth inhibition resulting in 100% survival of treated animals (used as a prophylactic and therapeutic vaccine)

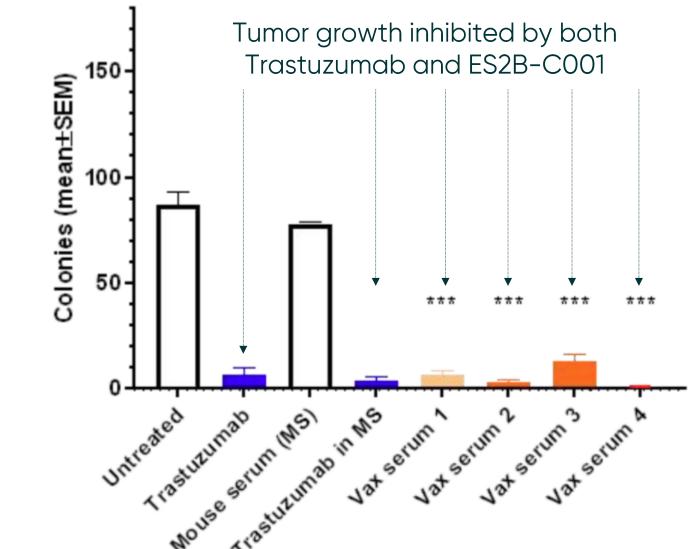




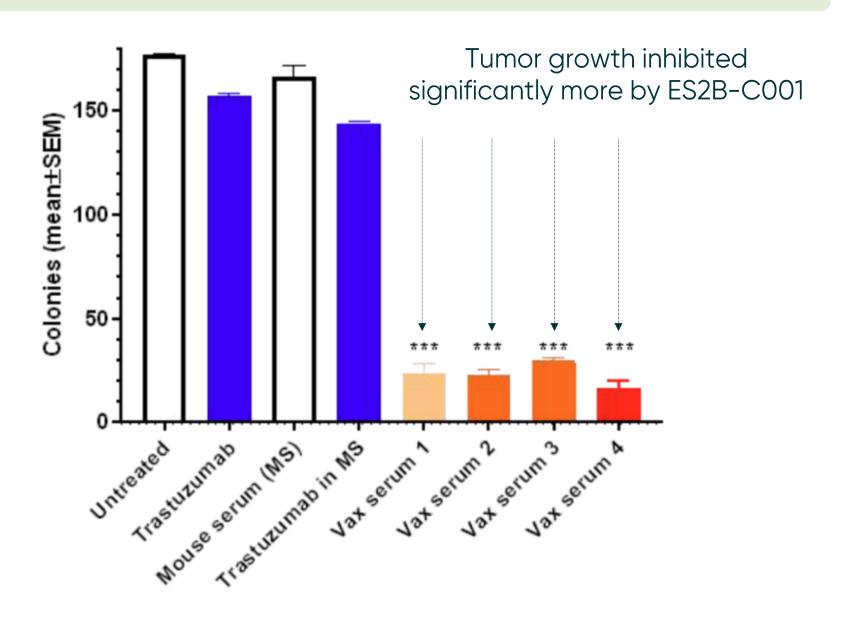
Promising evidence of overcoming resistance

Significant in vitro tumour growth inhibition against monoclonal antibody resistant-human breast cancer cell lines

Trastuzumab-sensitive cell line



Trastuzumab-resistant cell line



Significant improvement on competing HER2+ breast cancer therapies



	mAbs	ADCs	TKIs	Other vaccines	ES2B-C001
Cardiac toxicity	Yes	Yes	Yes	TBD	Not observed
Overcomes SoC resistance	N/A	Possible	Yes	TBD	Yes
Long-term effect	No	No	No	TBD	Yes
Easy to administer/receive	No	No	Yes	Yes	Yes
VLP-based ¹	N/A	N/A	N/A	No	Yes
Cost effective	No (Over \$100k/year)	No	No	Varies	Yes

¹All approved cancer vaccines are VLP-based, including those for HPV (Gardasil™, Cervarix™) and HBV (Engerix-B™)

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Phase I focus is safety, tolerability, MTD, and potentially immunogenicity

Key objectives

Primary: To determine the safety, tolerability, maximum tolerated dose (MTD) for ES2B-C001 alone or in combination with the adjuvant Montanide

Secondary: To investigate the immunogenicity of ES2B-C001 alone or in combination with the adjuvant Montanide

Exploratory: To determine the preliminary antitumor activity of ES2B-C001 alone or in combination with the adjuvant Montanide

Trial design

Type: Open label, doseescalation study Study start: Estimated Q1 2025

Duration: Approximately 20-months including 15-month enrolment period

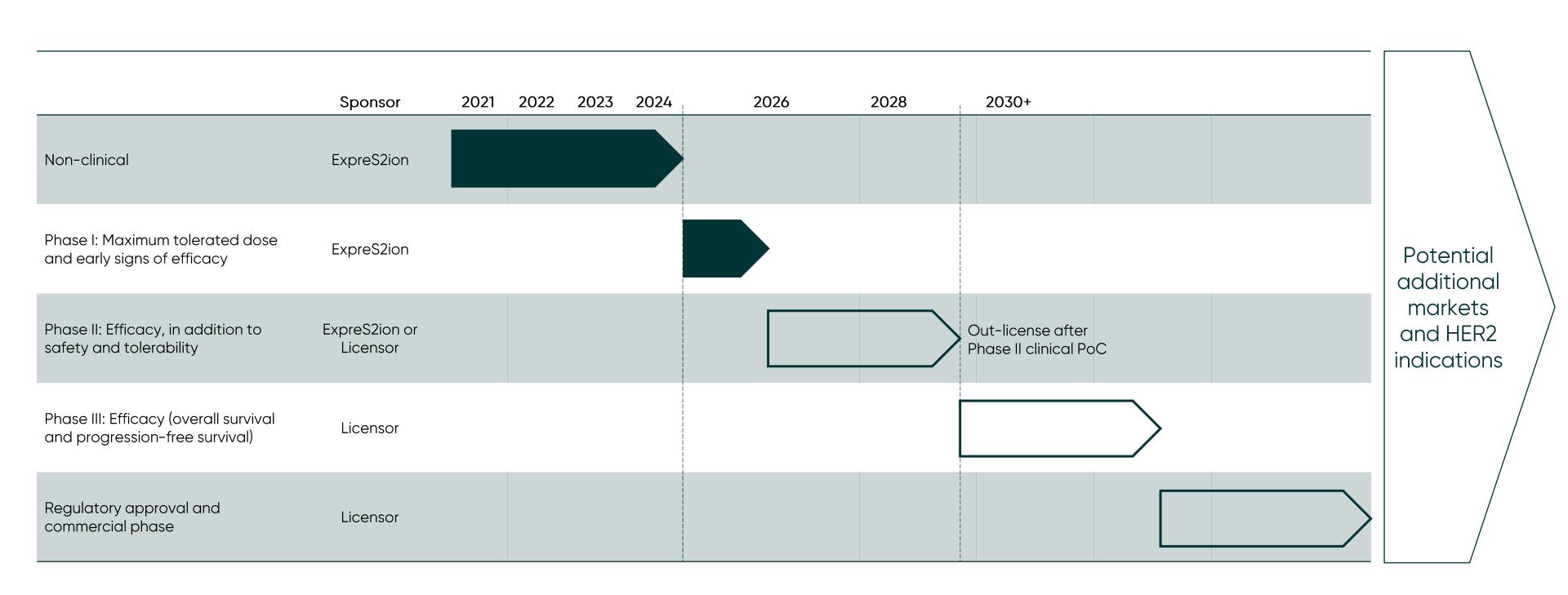
Patients: 18 patients and expansions may lead to a total of 36 patients

Groups: Nonadjuvanted + adjuvanted; up to three different doses Enrolment: Staggered in each cohort, with clear inclusion / exclusion criteria

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Path to clinical proof-of-concept and commercialisation

High-level summary of integrated development plan (iDP)



Deep experience in breast cancer, vaccines and clinical development



Leadership Team							
	Bent Frandsen CEO	MSc, Copenhagen Business School	 >25 years life science management, business development and finance experience Successfully participated in development of >10 clinical-stage assets, closed over 25 license and partner deals worth >€1B, and raised in public markets >€40M 	Coloplast AGC Biologics			
	Dr. Farshad Guirakhoo CSO	PhD, Medical University of Vienna	 >35 years broad translational research experience in vaccine development Successfully developed vaccines for Dengue Fever, Japanese Encephalitis, and West Nile Disease (horse and human), from inception to commercial stages 	SANOFI PASTEUR Vaxxinity			
	Dr. Lars Damstrup Director of Clinical Development	MD, PhD, University of Copenhagen	 40 years in oncology within academia (15 years), preclinical research (6 years) and industry (19 years) Led >15 phase I/II trials, with several continuing to phase II & one oncology drug granted FDA conditional approval 	NOVARTIS MERCK Genmab			
	Dr. Max Søgaard SVP of R&D and Technology	PhD, University College London	 >24 years research experience, including leading R&D for cell line development, pipeline and client projects Led candidate selection and/or manufacturing process of >20 oncology & infectious disease vaccine candidates 	MOLECULAR BIOPHYSICS SUITE DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF OXFORD CANCER RESEARCH UK			
	Thomas Jørgensen Program & CMC Project Lead	MSc, University of Southern Denmark	 >30 years CMC and program management experience with leading biotech and pharmaceutical companies Led CTA/BLA enabling activities for seven companies in the oncology, inflammation and infectious disease fields 	AstraZeneca FERRING PHARMACEUTICALS			
	Keith Alexander CFO	MBA, The Wharton School	 >20 years in financial markets, primarily advising institutional investors, raising >€30 million & advising >€1T Advised executive management on M&A, JVs, growth strategies and competitive intelligence 	J.P.Morgan Danske Bank accenture			

Board of Directors



Dr. Martin Roland Jensen, PhD, Co-Founder and Chairman

- Co-Founder of ExpreS2ion Biotechnologies
- Co-founder, Chairman and CBO of Cell2Cure ApS
- Co-founder of Unikum Therapeutics



Dr. Karin Garre, MD, Board Member

- Chair of Bioneer and Board Member of Cervello
- Leadership and drug development experience with Symphogen, Astra, Novo Nordisk and Genmab



Sara Sande, MSc, Board Member

- Investment Partner at EIFO
- Board Member of Agreena, Monta and Biosyntia; Board Observer of Celluay and Chromologics



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- CEO of Virogates, Board Member of Ingeniørsystem and PV Fonden
- Commercial operations, business development, marketing and finance experience with ALK and Egalet

Oncology Scientific Advisory Board

Dr. Javier Cortes, MD, PhD

Doctor of Medical Oncology and Head of the Clinical Oncologist, Specialist in HER2-positive International Breast Cancer Center, Barcelona breast cancer

Dr. Michael Andersson, MD, DMSci

Dr. Ulrik Lassen, MD, PhD

Professor of Clinical Oncology & Personal Medicine at the University of Copenhagen, Hospital (Rigshospitalet)

Dr. Rupert Bartsch, MD

Associate Professor of Medicine at the Medical Cardiologist at the St. Francis Healthcare University of Vienna, Director of Breast Cancer System-Cape Girardeau in Missouri Programme in the Department of Oncology

Dr. Giuseppe Curigliano, MD, PhD

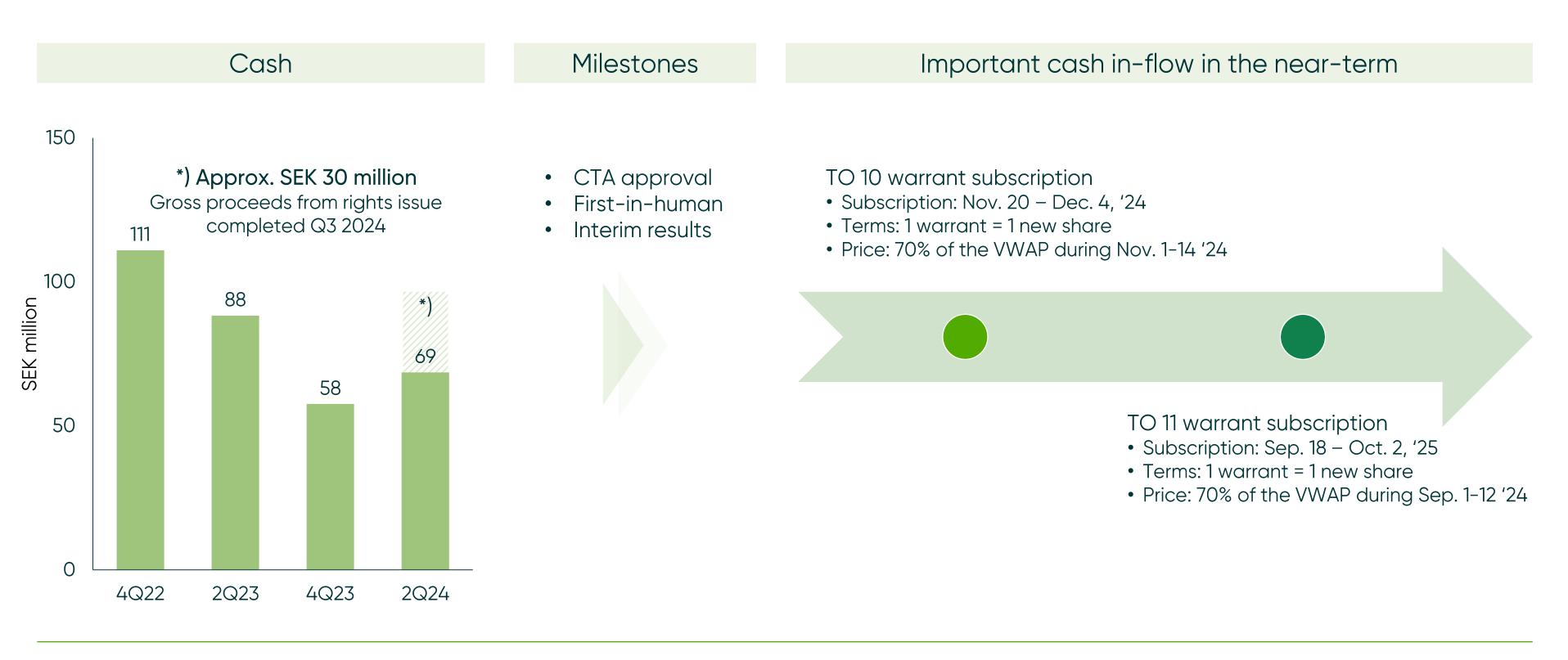
Associate Professor of Medical Oncology at the University of Milan, Head of Early Drug Head of Oncology Department at the National Development Division at the European Institute of Oncology

Dr. Daniel Lenihan, MD, FACC, FESC, FIC-OS

*Not all icons for company experience shown on this slide.

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Pursuing next steps: Cash reserves and future funding



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Disclaimer

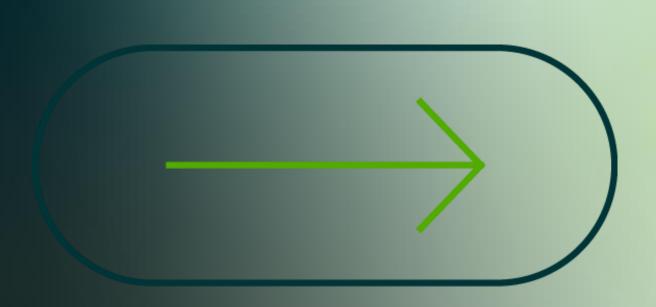
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