Innovative vaccines for a healthier world

22 November 2023

EXPRES²ION
BIOTECHNOLOGIES

ExpreS²ion Biotech Holding AB Org. Nr. 559033-3729

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Agenda

- Leadership, platform and pipeline
- Q3 2023 update
- Outlook



Leadership

Greater than 200 years deep professional experience to support a pipeline-driven business

Management Team



Bent U. Frandsen, CEO

- MSc in Finance/Strategic Management, Copenhagen Business School,
- >25 years industry finance, business dev. and management experience













Keith Alexander, CFO

- MBA, The Wharton School and the University of Pennsylvania, USA
- >20 years of equity research, corporate strategy, asset management and consulting experience





J.P.Morgan

accenture



Dr. Farshad Guirakhoo, CSO

- PhD in Virology from the Medical University of Vienna, Austria, and an MSc in Genetics from the International Institute for Biophysics and Biochemistry at the University of Tehran
- >35 years of broad translational research experience in the vaccine development field











Dr. Max Soegaard, SVP of R&D and Technology

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



MOLECULAR BIOPHYSICS SUITE **DEPARTMENT OF BIOCHEMISTRY**

Board of Directors



Dr. Martin Roland Jensen, Chairman

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













Jakob Knudsen, Board Member

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









Dr. Karin Garre, Board Member

- MD, from University of Copenhagen, Denmark
- >30 years bio-industry management and drug development experience from early to late-stage phases and registration















Sara Sande, Board Member

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













Unique technology platforms

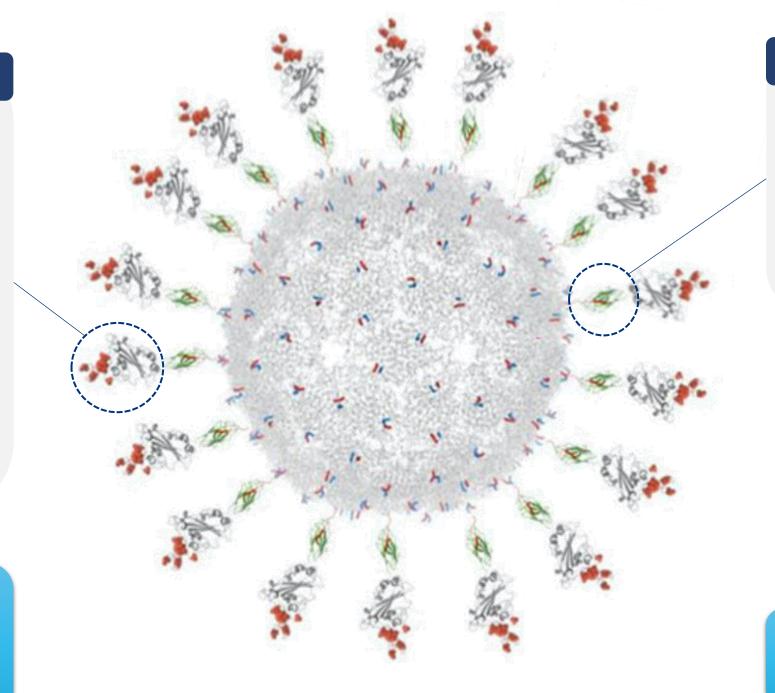
Combines a highly immunogenic antigen with unique presentation technology

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)
- Produces the complex surface proteins (antigens), which are critical to immune system recognition and response

100% ownership

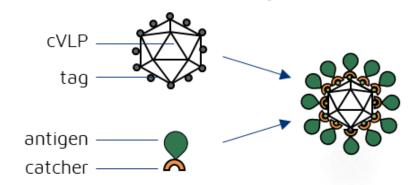
ExpreS2™ technology platform applied to express antigens in all pipeline assets, including therapeutic HER2 vaccine, COVID-19, Influenza, CMV, and Malaria



Particle (VLP) technology

 AdaptVac's proprietary viruslike 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



cVLP: Capsid Virus Like Particle

Same technology platform applied for the therapeutic HER2 vaccine and COVID-19 vaccine ABN-CoV2

Broad clinical stage vaccine pipeline



Significant events in

2023



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ABNCoV2 COVID-19 booster vaccine

Accelerated development path has confirmed clinical PoC and Phase III-validation

2020-2021

- Phase I
- PREVENT-nCoV consortia of biotech and academia partners

2021-2022

- Phase II
- Sponsored by Bavarian Nordic
- June 2023:12-months durability data
- ➤ Clinical proof of concept THE ONLY NON-ADJUVANTED VLP WITH LONG-TERM PROTECTION

2022-2023

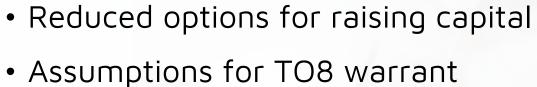
- Phase III
- Sponsored by Bavarian Nordic
- June 2023: Met primary end-point
- DEMONSTRATING NONINFERIORITY AGAINST A
 COMMERCIAL mRNA COVID-19
 VACCINE (COMIRNATY®)

Same clinically Phase III-validated technology platforms applied in our therapeutic breast cancer vaccine ES2B-COO1

Q3 update on ABNCoV2 Phase III

- Bavarian Nordic (BN) reported the secondary endpoint results for their Phase III clinical trial
- Did not successfully meet secondary endpoint: to demonstrate protection against the XBB.1.5 variant
- BN concludes, "No commercial opportunity for the vaccine"

Update on COVID-19 booster vaccine program



- Assumptions for 108 warrant subscription proceeds changed:
 - SEK 54.5M prospects at April 2023 rights issue, became SEK 3.4M raised
- Proceeds planned for the development of ES2B-CO01/breast cancer vaccine
- Consequently, ExpreS²ion initiated a strategic review

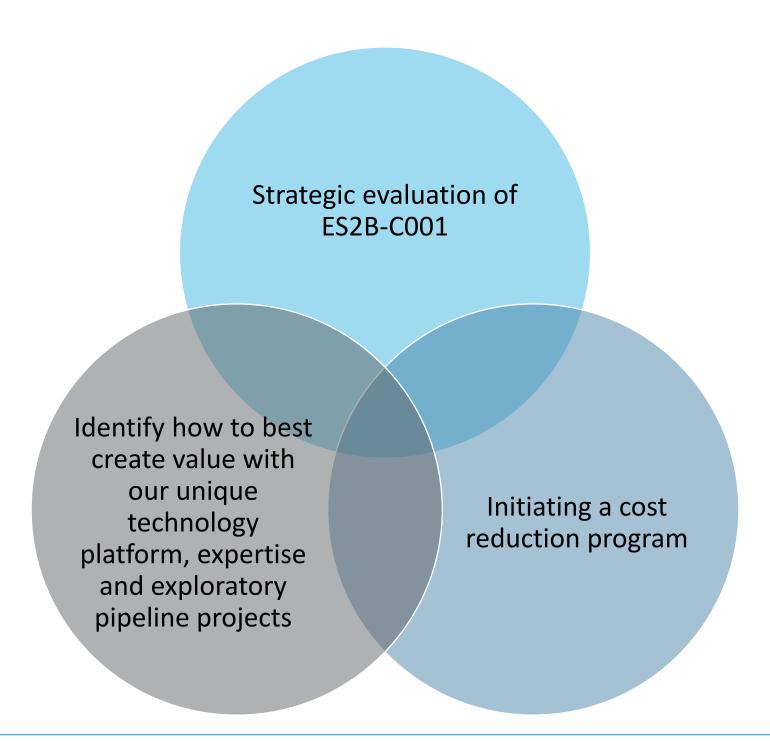
Impact on ExpreS²ion





Strategic review

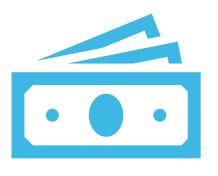
Announced in August 2023

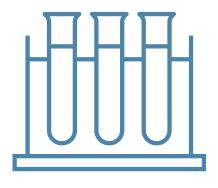


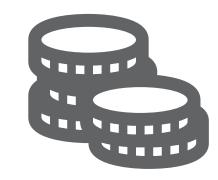


Outcome of strategic review (I)

Cost reductions







Cut over SEK 50 million in costs

Reductions primarily in R&D, personnel and facilities

Cash runway into 2025



Outcome of strategic review (II)

ES2B-C001 breast cancer vaccine candidate

Halted plan for <u>CRO-driven</u> Phase I clinical trial



Continuing preparations for advancing into clinical development

Preclinical safety studies

GMP manufacturing

Regulatory alignment



Evaluating other development options

<u>Investigator-driven</u> Phase I clinical trial

Asset sale

Partnership

Out-licensing



Outcome of strategic review (III)

Other activities, including other pipeline assets and platform development



Enhancing focus on certain exploratory pipeline projects



Qualification of various factors driving prioritization

Timeline leading to value inflection points

Project funding status – nondilutive (i.e. grant) funding a significant advantage

Cost/benefit analysis



Saying "no" to lower priority activities

CRO projects must meet more stringent requirements

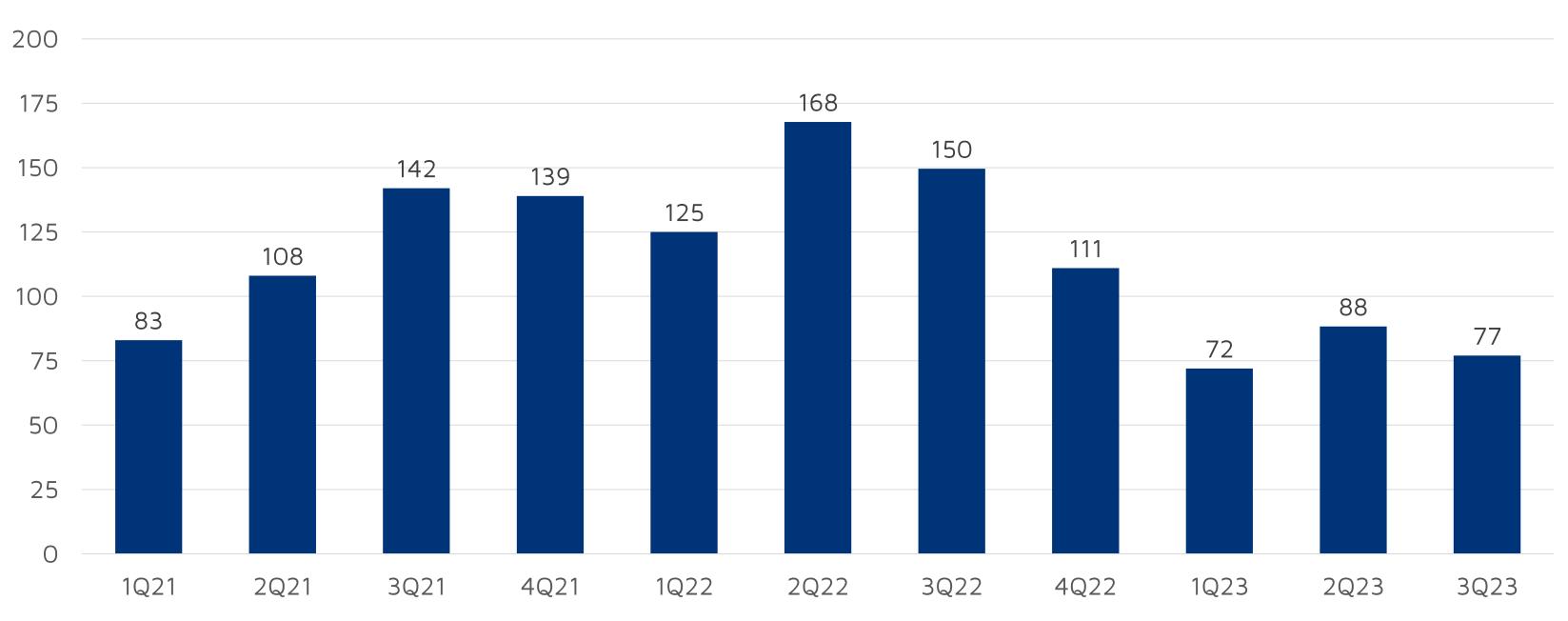
Exploratory activities must be grant funded or when resources permit

Develop innovative vaccines with a faster and less costly path to value creation



Cash balance, 1Q21 - 3Q23 quarterly

SEK millions





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Breast cancer - the most common cancer

1 in 8

women will be diagnosed with invasive breast cancer in her lifetime

~25%

are HER2-positive, which is associated with more aggressive tumors and reduced survival.

685,000

deaths worldwide in 2020 due to breast cancer¹

Global market size expected to growth to USD 32 billion by 2026³





Current treatments

Existing therapies

Drawbacks with existing therapies

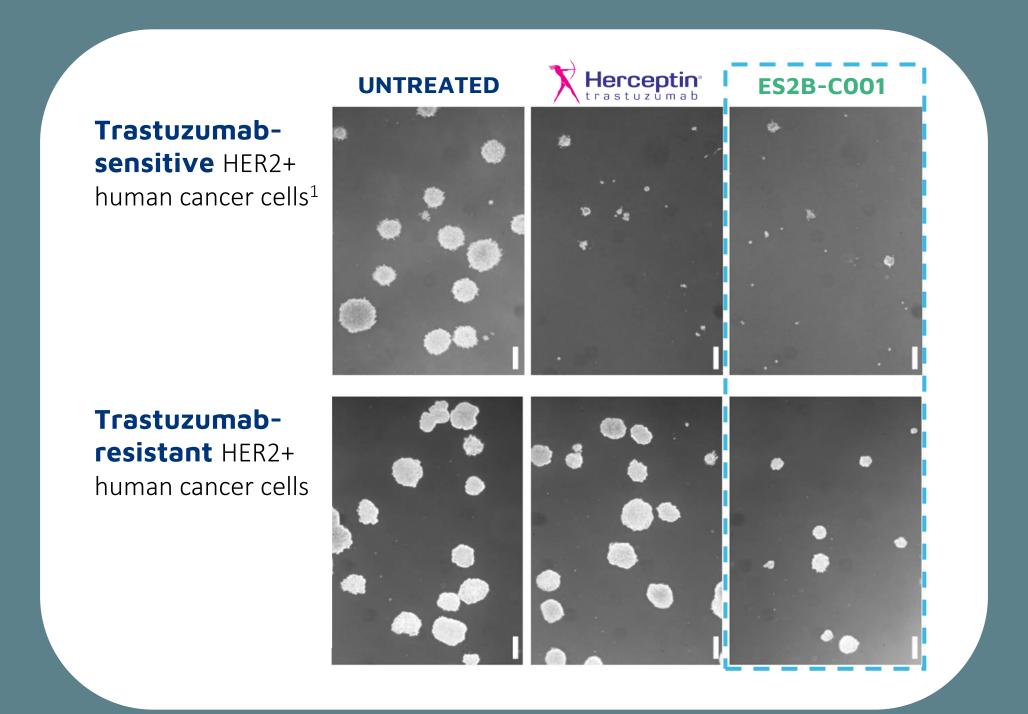
- Monoclonal antibodies
- Herceptin and Perjeta
- \$11 billion market
- Resistance to monoclonal antibodies may develop
- Potential for cardiac toxicity
- Repeated administration required: Every 3rd week until remission or resistance develops
- Costs USD 30-50k per year

We aim to overcome these drawbacks through internal polyclonal antibody production





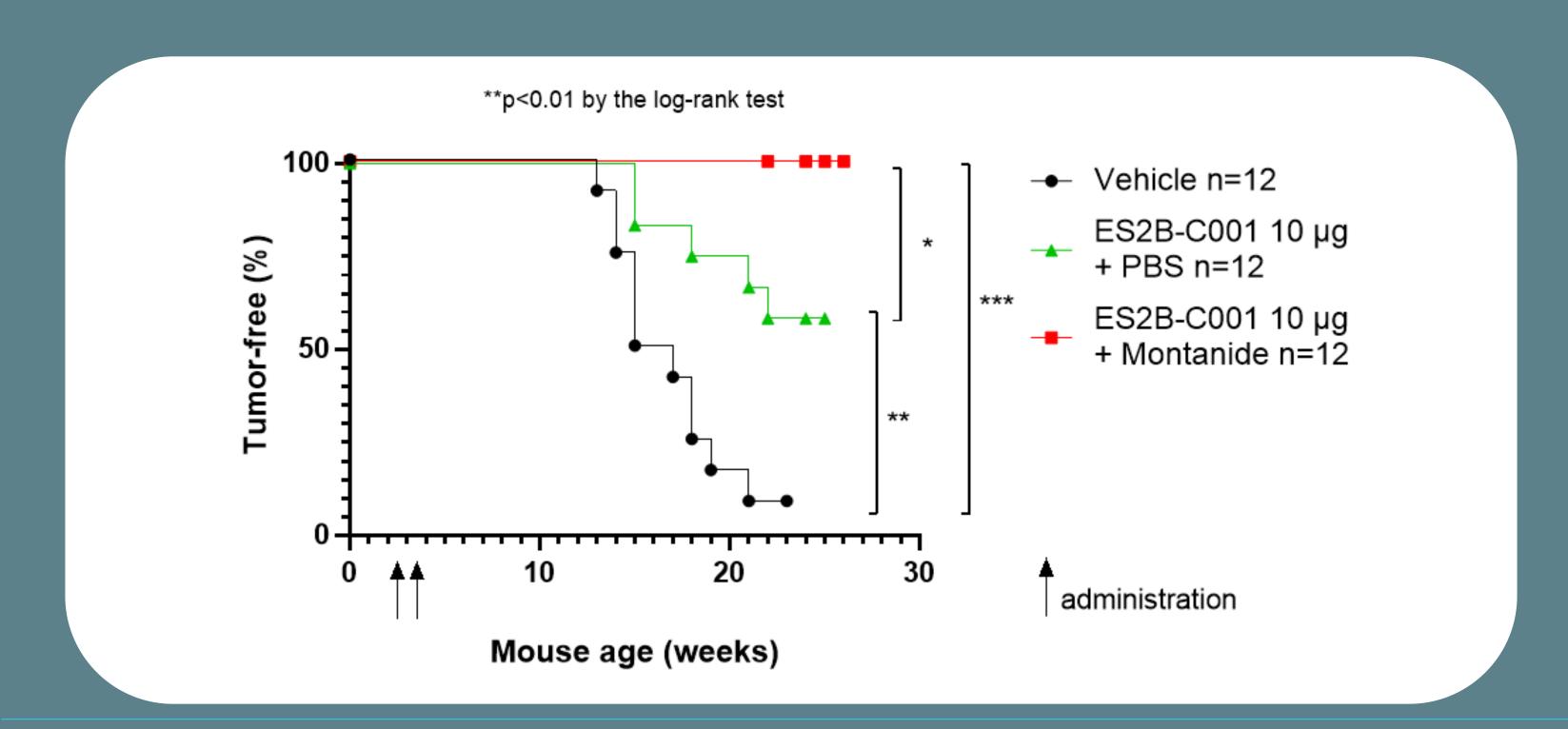
Effective when existing treatment isn't







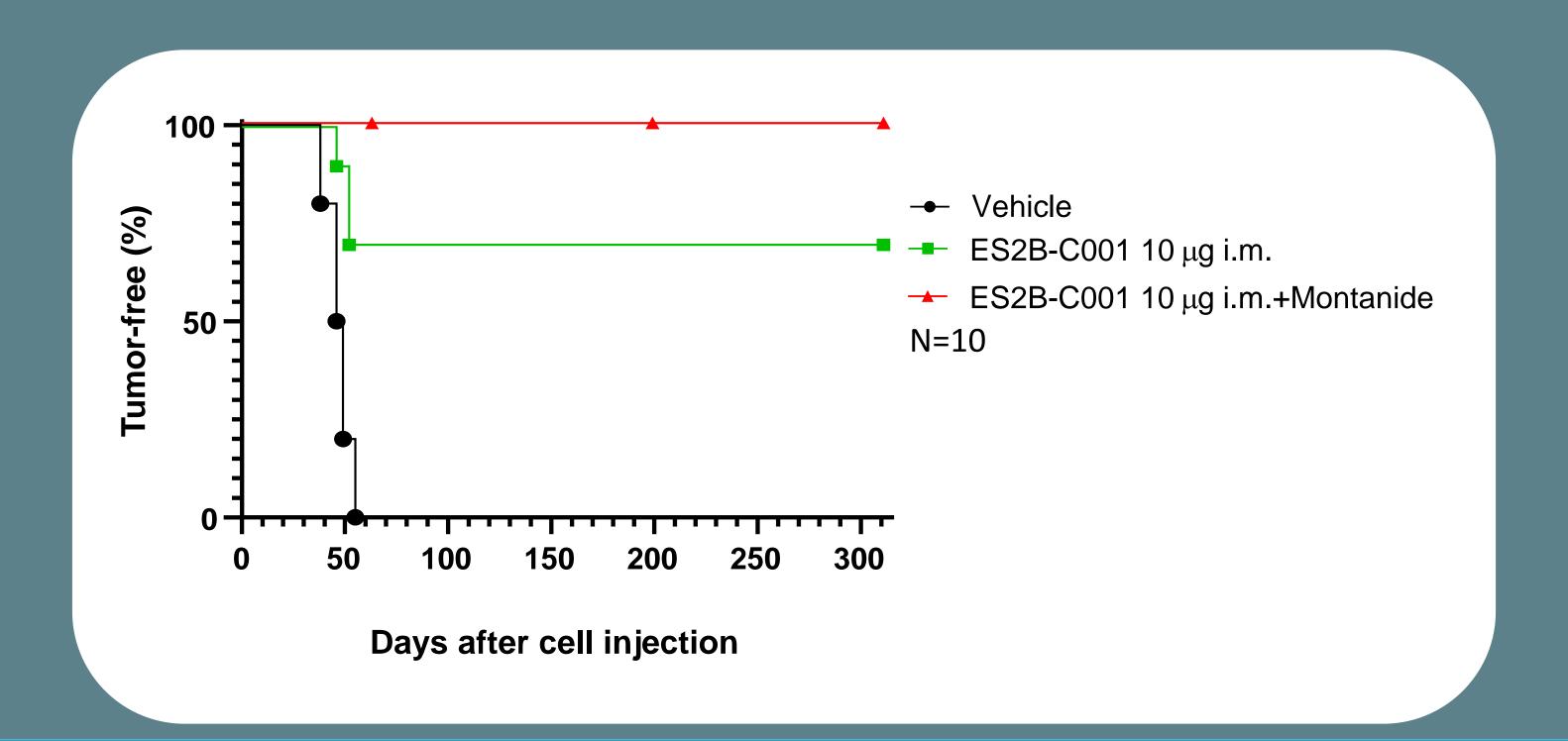
Increased survivability in mice







Inhibits tumor development in mice





Oncology Scientific Advisory Board

Key Opinion Leaders (KOLs) providing clinical advice on our <u>oncology development programme</u>



Dr. Giuseppe Curigliano, MD, PhD

Associate Professor of Medical Oncology at the University of Milano and the Head of the Division of Early Drug Development at the European Institute of Oncology, Italy (IRCCS). Dr. Curigliano is recognized among the leading experts in the world within the field of HER2 expressing breast cancer and has authored or co-authored more than 650 peer-reviewed scientific papers.



Dr. Ulrik Lassen, MD, PhD

Professor at University of Copenhagen, Department of Clinical Medicine. In 2017, he was appointed Head of the Department of Oncology at Copenhagen University Hospital, Rigshospitalet, Denmark. As a Clinical Oncologist he has been working with Phase 1 Oncology trials since 2005 and is ESMO board certified in Medical Oncology. Dr. Lassen has (co-)authored ~300 peer reviewed publications.



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

Dr. Lenihan has been active in cardio-oncology, for over 25 years. He has previously held positions at MD Anderson Cancer Center in Houston, Texas, Vanderbilt University in Nashville, Tennessee, and Washington University in St Louis, Missouri. His current research projects include early phase clinical trials in cardio-oncology, heart failure and amyloidosis. Dr. Lenihan serves as editor on several scientific journals and has authored or co-authored more than 210 peer-reviewed scientific papers.



Dr. Michael Andersson, MD, DMSci

Dr. Andersson is a Clinical Oncologist working as consultant at the Breast Oncology Unit in the Copenhagen University Hospital, Rigshospitalet, Denmark since 1998. He has special interest in HER2-positive breast cancer and has published on and been Principal Investigator in several national and international studies of HER2-positive early and metastatic breast cancer. Dr. Andersson has authored or co-authored more than 140 peer reviewed publications.



Dr. Javier Cortes, MD, PhD

Doctor in Medical Oncology, and Head of the International Breast Cancer Centre (IBCC) in Barcelona. Dr. Cortes He is an active member of the Spanish, European, and American Societies of Medical Oncology (SEOM, ESMO, ASCO), and is a member of expert panels that develop the treatment guidelines for metastatic breast cancer. He is the author of more than 380 publications.

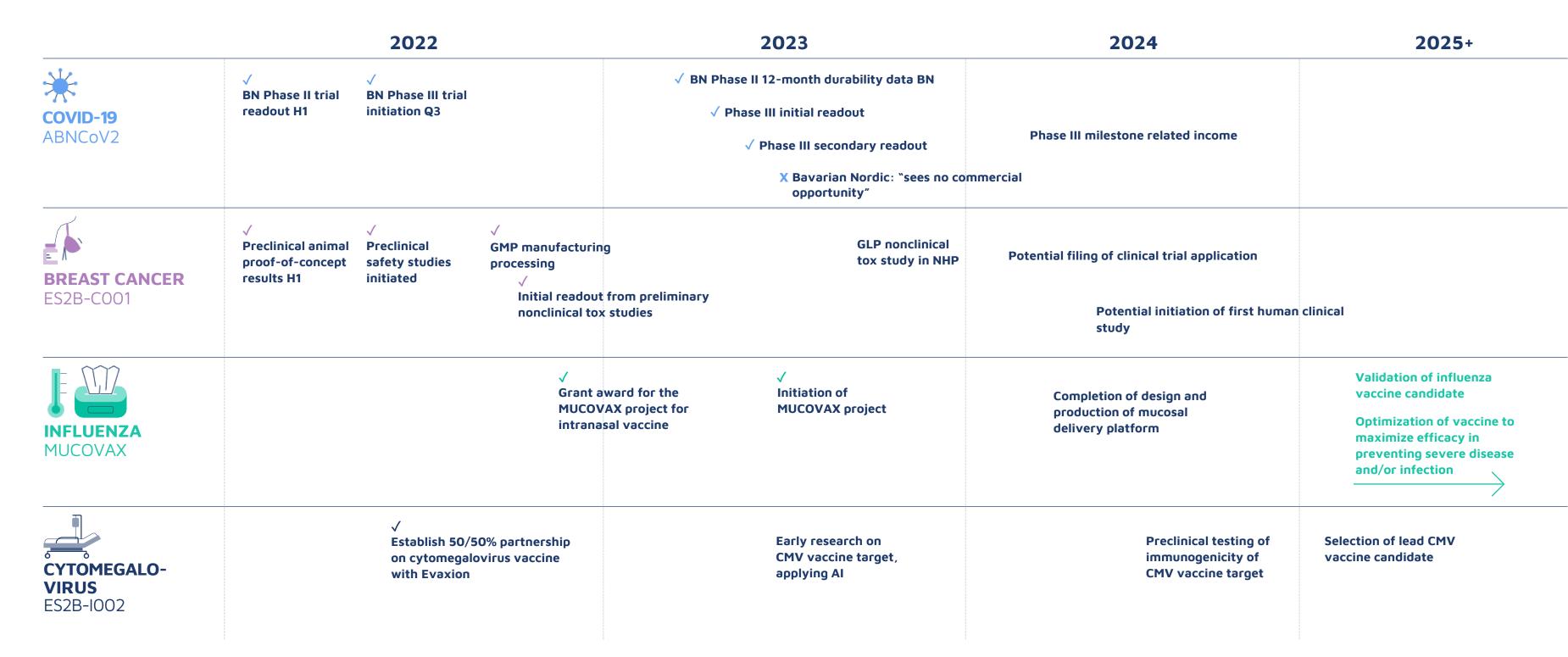


Dr. Rupert Bartsch, MD

Associate Professor of medicine at the Medical University of Vienna in Austria and serves as the director of the Breast Cancer Programme at the Department of Oncology. Dr. Bartsch has a longstanding clinical and scientific focus on breast cancer and brain metastases. Together with his colleagues, he has published over 150 articles in peer-reviewed journals.



Advancing focus pipeline towards key catalysts





Thank you

investor@expres2ionbio.com

