EVAXION Al-Immunology™ Powered Vaccines

Forward-Looking Statement

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. The words "target," "believe," "expect," "hope," "aim," "intend," "may," "might," "anticipate," "contemplate," "continue," "estimate," "plan," "potential," "predict," "project," "will," "can have," "likely," "should," "would," "could," and other words and terms of similar meaning identify forward-looking statements. Actual results may differ materially from those indicated by such forward-looking statements as a result of various factors, including, but not limited to, risks related to: our financial condition and need for additional capital; our development work; cost and success of our product development activities and preclinical and clinical trials; commercializing any approved pharmaceutical product developed using our Al platform technology, including the rate and degree of market acceptance of our product candidates; our dependence on third parties including for conduct of clinical testing and product manufacture; our inability to enter into partnerships; government regulation; protection of our intellectual property rights; employee matters and managing growth; our ADSs and ordinary shares, the impact of international economic, political, legal, compliance, social and business factors, including inflation, and the effects on our business from the worldwide COVID-19 pandemic and the ongoing conflict in the region surrounding Ukraine and Russia; and other uncertainties affecting our business operations and financial condition. For a further discussion of these risks, please refer to the risk factors included in our most recent Annual Report on Form 20-F and other filings with the U.S. Securities and Exchange Commission (SEC), which are available at www.sec.gov. We do not assume any obligation to update any forward-looking statements except as required by law.

This presentation includes statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties or us. Industry publications and third-party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. All of the market data used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. While we believe these industry publications and third-party research, surveys and studies are reliable, we have not independently verified such data. The industry in which we operate is subject to a high degree of uncertainty, change and risk due to a variety of factors, which could cause results to differ materially from those expressed in the estimates made by the independent parties and by us.

Who We Are

Evaxion is a pioneering TechBio company with a validated and leading Al−platform, Al-Immunology™, for fast and effective vaccine target discovery, design and development

Al-Immunology™ allows for groundbreaking **development of novel personalized and precision vaccines** for cancer and infectious diseases



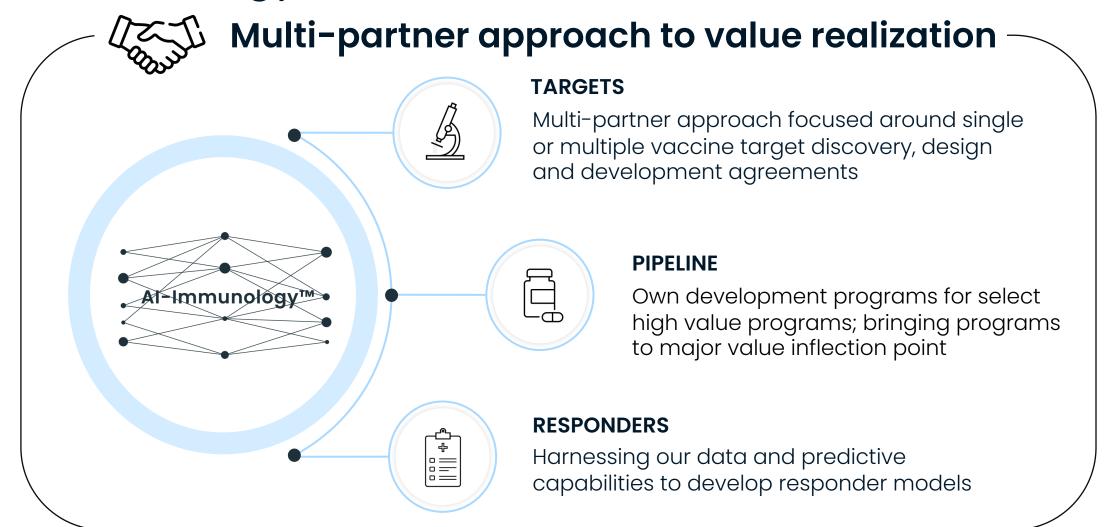
Why Are We Here: **Saving and Improving** Lives with Al-Immunology™



10 million deaths a year due to cancer*

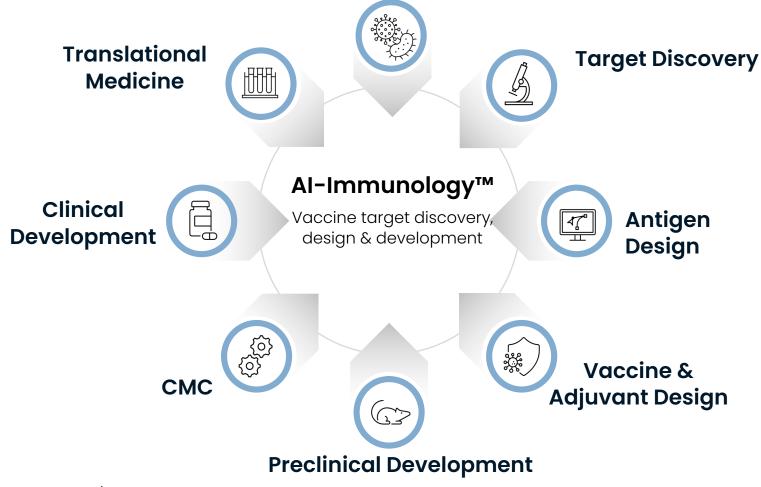
7.8 million deaths a year due to infectious diseases**

Strategy: **Three-Pronged Business Model** Based upon Al-Immunology™



We Have Built a Strong Multidisciplinary Capability Set and State of the Art Facilities

Disease Biology

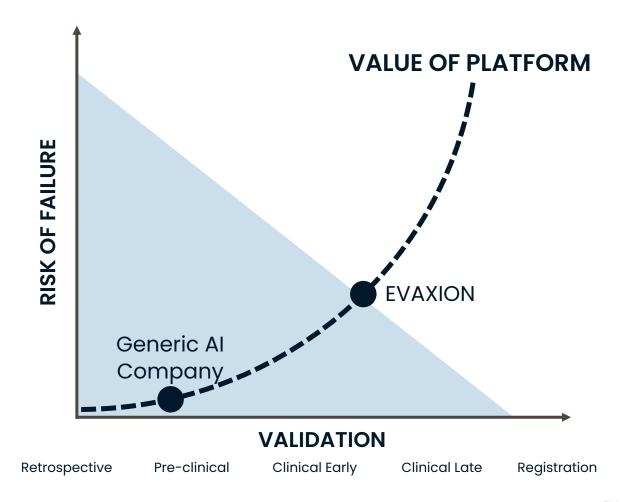




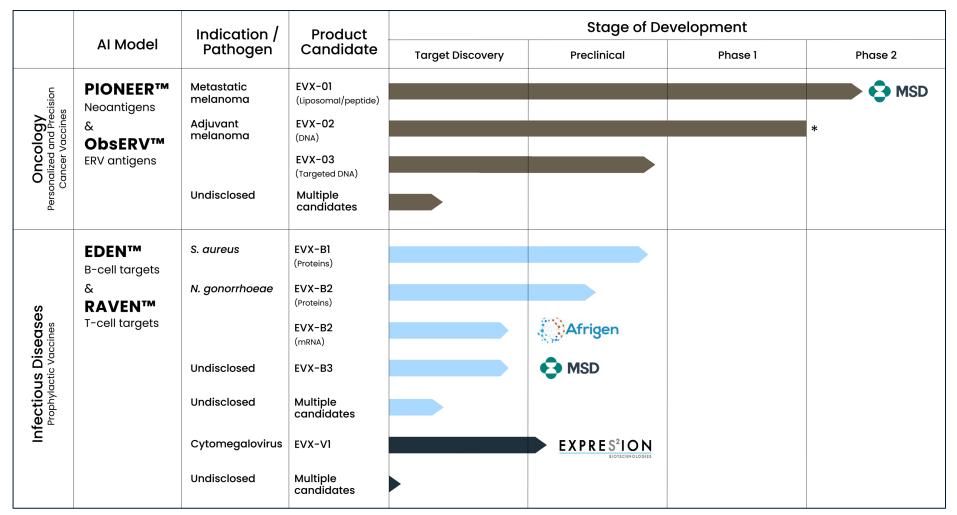


Our Al-Immunology™ Platform and Multidisciplinary Capability Set **Drive Differentiation**

- Our multidisciplinary capability set allows for:
 - Continuous iterative learning loops
 - Ongoing expansion of data sets with proprietary data
 - Rapid validation of AI predictions
 - Full control of process from idea to validation
 - Continued expansion of pipeline assets
- Significantly enhancing the value of our platform



Pipeline: Demonstrating the **Performance and Scalability of Our Al-Immunology™** Platform



Strong Leadership with Extensive Experience Across All Relevant Fields



Chief Executive
Officer
Christian Kanstrup,
MSc Economics







Chief Financial & Operating Officer Jesper Nyegaard Nissen, MSc Economics





Officer, Evaxion Founder Andreas Mattsson, MSc Bioinformatics

Chief AI & Culture







Chief Scientific
Officer
Birgitte Rønø,
MSc Human Biology /
PhD





Board of Directors

- Marianne Søgaard
 Chair, former tech lawyer and equity partner
- Roberto Prego
 Former Teva (head of Latin America)
- Lars Holtug
 Certified Public Accountant
- Niels Iversen M
 øller
 Evaxion Founder, MD

We Are Addressing a \$277 Billion and Growing Market for Cancer Immunotherapy Alone

Cancer

- Cancer immunotherapy market estimated to grow to \$277 billion by 2030*
- NSCLC (Non-small Cell Lung Cancer) market estimated to grow to \$33 billion by 2029**
- Melanoma market estimated to grow to \$7.4 billion by 2029**

Infectious Diseases

- Increased big pharma focus on infectious disease post-COVID
- No approved vaccines against S. aureus, Gonorrhea or Cytomegalovirus (CMV) infections
- Antimicrobial resistance is a growing global problem: Vaccines could avert half a million deaths (WHO)

Increased Deal-Making Across the Vaccine Space

Cancer

- Moderna-Merck partnership. Upfront 200M (2016) + option to exercise \$250M (Oct 2022)
- **Nykode-Roche** out-licensing deal (2020). Upfront + early MS of \$200M and royalty ≈ 10%
- BioNTech-Neon Therapeutics M&A. \$67M (2020)

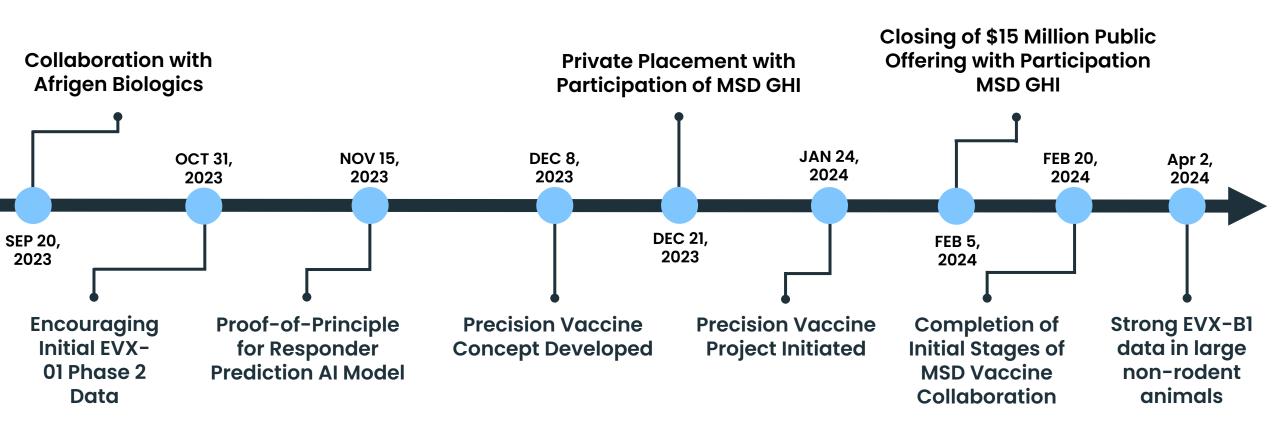
Infectious Diseases

- ModeX Therapeutics-Merck license and collaboration (2023).
 Upfront \$50M
- Pfizer-BioNTech multitarget collaboration (2022). Upfront \$225M
- Regeneron-Nykode multitarget collaboration (2021). Upfront \$50M
- GSK-CureVac partnership. Upfront EUR 75M (2021)

^{*} Precedence Research

^{**} GlobalData

Recent Highlights Confirm Strong Strategy Execution



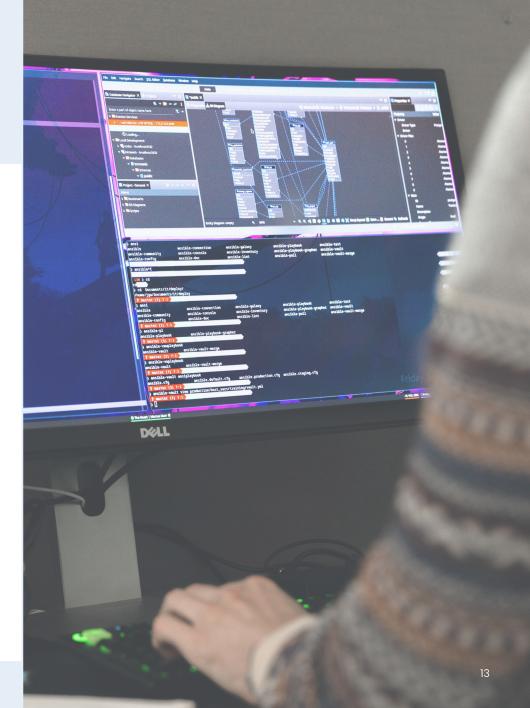
Several Important Near-Term Milestones

	Milestones	Target
EVX-B1	Conclusion of final MTA study with potential partner	Q1 2024
Al-Immunology™	Launch of EDEN™ model version 5.0	Mid 2024
EVX-B2-mRNA	EVX-B2-mRNA preclinical Proof-of-Concept obtained	Q3 2024
EVX-01	Phase 2 one-year readout	Q3 2024
EVX-B3	Conclusion of target discovery and validation work in collaboration with MSD (tradename of Merck & Co., Inc., Rahway, NJ, USA)	H2 2024
Precision ERV cancer vaccines	Preclinical Proof-of-Concept obtained	H2 2024
Funding	Ambition for full year 2024 is to generate business development income equal to 2024 cash burn (excluding financing activities) of 14 million USD*	

^{*} No assurances can be made that we will generate such business development income

Evaxion Is a **Pioneering TechBio Company** Based on the Leading Al-Immunology™ Platform

- Founded in 2008 as an Al-Immunology™ company. Has extensively collected and applied data as well as refined and validated our Al platform for 15 years
- Three-pronged business model: Targets, Pipeline and Responders. Strong focus on partnering with leading companies with complementary capabilities
- Believed to be the first AI platform in the world to be clinically validated via link to Progression-Free Survival (PFS) in first line malignant melanoma patients
- Al-Immunology™ potentially gives us the ability to generate one new vaccine target every 24 hours. Ability to quickly tailor to partner needs. Ability to manufacture and deliver a personalized vaccine in 7 weeks
- Strong clinical pipeline within cancer and a strong preclinical infectious disease pipeline with novel targets in areas of high unmet need
- Strong IP portfolio protecting AI technology and vaccine candidates
- Established partnerships with MSD, Afrigen Biologics and ExpreS²ion Biotechnologies. Welcomed MSD GHI as a new shareholder in December 2023. MSD GHI participating again in the 15 million USD public offering in February 2024





The **Key Areas** of Al-Immunology™

DISEASE DECODING IMMUNE RESPONSE DECODING VACCINE DESIGN

Al-Immunology™ is an **Ensemble of Smaller Building Blocks** Utilized Across the Al-Immunology™ Models

SNVs	EvaxMHC	Precision design
Frameshifts	HLA typing	BIFROST
HLA loss	Epitope hotspots	Personalized design

The **Building Blocks** of Al-Immunology™

1 DISEASE DECODING

SNVs	Frameshifts	Gene fusions	HLA loss
ERV antigens	TME impact	Clonality	Expression
Bacterial antigens	Viral antigens	Antigen conservation	Treatment effect
Neoantigens			

2 IMMUNE RESPONSE DECODING

EvaxMHC	HLA typing	HLA frequencies	Distance to self
Protective antigens	Epitope hotspots		

3 VACCINE DESIGN

Antigen quality	Antigen safety	B-cell antigen modelling	B-cell antigen design
Precision design	Personalized design	BIFROST	

The **Models** of Al-Immunology™

PIONEER™

SNVs	Frameshifts	Gene fusions	HLA loss
Expression	Clonality	Neoantigens	
EvaxMHC	HLA typing	Distance to self	
Antigen quality	Antigen safety	Personalized design	

RAVEN™

Expression	Viral antigens	Antigen conservation
EvaxMHC	HLA frequencies	Epitope hotspots
Precision design	BIFROST	

AI-DEEP™

SNVs	Frameshifts	Gene fusions	HLA loss
ERV antigens	TME impact	Expression	Clonality
Treatment effect			
EvaxMHC	HLA typing	Distance to self	

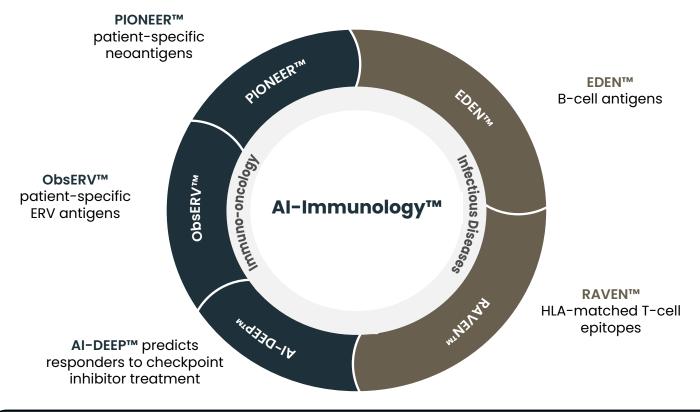
ObsERVTM

HLA loss	ERV antigens	Expression
EvaxMHC	HLA typing	
Antigen quality	Antigen safety	Personalized design

EDEN™

Bacterial antigens	Viral antigens	Antigen conservation
EvaxMHC	Protective antigens	
B-cell antigen modelling	B-cell antigen design	

Al-Immunology™ - A Unique Differentiator with Interrelated Al Prediction Models and Leading Multidisciplinary Capabilities



Data

- Accurate
- Reliable
- Adequate
- Volume



Ability to Generate a Novel Target Every 24 Hours

- Strong immunoinformatic talent pool collaborating with BD
- Automation & ML infrastructure for faster iterations
- Using state-of-the-art ML algorithms and models
- Rigorous validation & interpretation culture for Al predictions
- Clinical scalability & compliance



Validation

- Preclinical
- CMC
- Clinical



A Unique Differentiation: The Al-Immunology™ Platform is Delivery Modality Agnostic

- We have demonstrated that a key to more effective vaccines is the performance power of our AI platform and the quality of the therapeutic target
- We believe Al-Immunology™ is well ahead of competitors as we have linked the predictive power to progression-free survival and clinical outcome in patients
- Evaxion has developed several delivery technologies to safely and effectively administer its therapeutic targets to patients

Competitor landscape personalized neoantigen vaccines

Company	Format	Phase
Moderna/Merck	mRNA	3
Gritstone Bio	ChAd ¹ prime/samRNA ² boost	2/3
Evaxion	Peptides	2
BioNTech/Roche	mRNA	2
Evaxion	DNA	1/2
Nykode/Roche	DNA	1/2
Geneos Therapeutics	DNA	1/2
Transgene ³	Viral vector	1
NEC Oncolmmunity (VAXIMM)	Bacterial vector	1
Nouscom	Viral vector]
Stemirna Therapeutics	mRNA	1

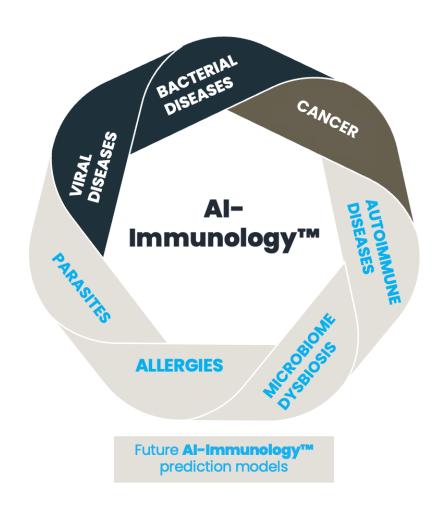
ChAd – chimpanzee adenoviru

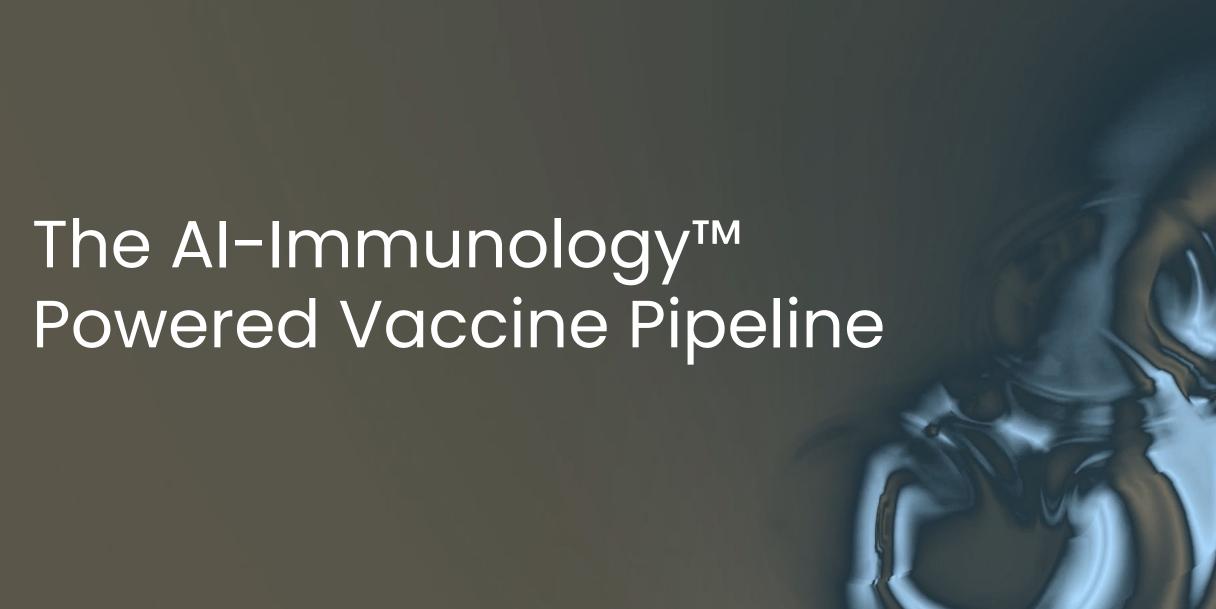
EVAXION

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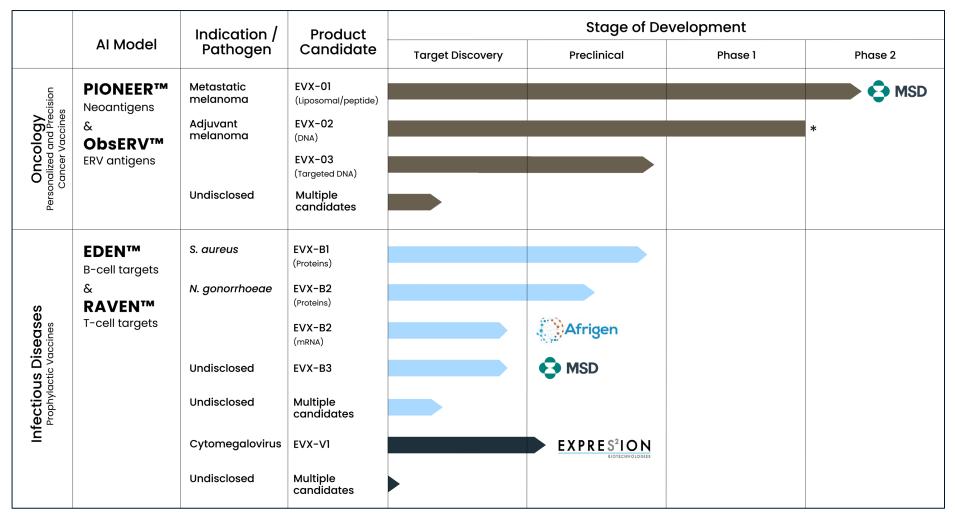
⁺⁴ companies at preclinical stage, including CureVac

Building Block Architecture Enables Scaling to Other Therapeutic Areas





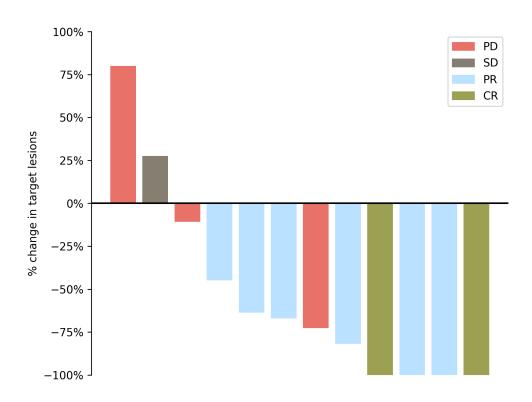
Pipeline: Demonstrating the **Performance and Scalability of Our Al-Immunology™** Platform



EVX-01 in Combination with Standard Therapy Shows Overall Response Rate of 67% in Clinical Phase 1/2 in Patients with Metastatic Melanoma

Study highlights

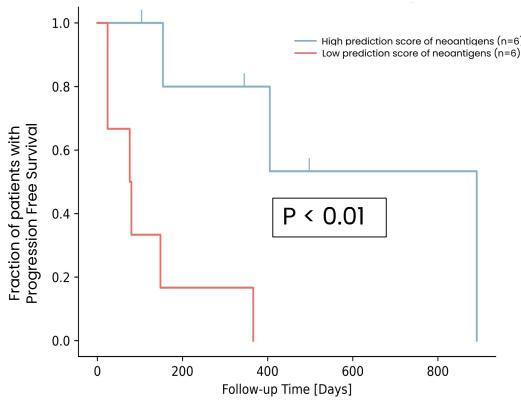
- 12 patients in total, with 8 showing an objective response to treatment (ORR 67%)
- 2 complete responders
- Treatment: 6 biweekly EVX-01 injections + anti-PD1 (standard of care therapy)
- EVX-01 induced immune response in all patients
- EVX-01 was safe and well tolerated with only grade
 1-2 adverse drug reactions
- Efficient manufacturing of vaccine with a turnaround time of 6-8 weeks



Patient Responses to EVX-01 in Combination with Anti-PD1

The size difference of target lesions from baseline was calculated based on imaging (PET/CT). Bars are colored according to best recorded response of individual patients. PD: progressive disease, SD: stable disease, PR: partial response, CR: complete response

EVX-01 - PIONEER™ Identified Vaccine Targets Highly Correlate with Survival



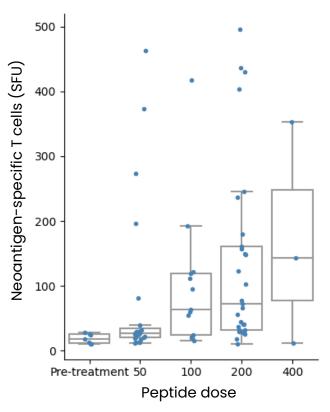
Progression-Free Survival Based on PIONEER™ Score

Kaplan-Meier plots displaying Progression-Free Survival (PSF) of patients based on median PIONEER™ quality score. Patients were stratified by PIONEER™ quality score in to two groups corresponding to the six highest and six lowest median scores.

- Al response prediction (PIONEER™ score) builds on the presence of highquality tumor neoantigens
- Patients with high PIONEER™ scores had longer progression-free survival
- A similar relationship could not be established using the conventional TMB method

EVX-01 Induces a Dose-Dependent Immune Response against the Patients' Cancer

- A higher dose induced higher neoantigen immune responses which may result in stronger tumor killing activity of EVX-01
- Specific immune responses against neoantigens identified by PIONEER™ were reported in all patients and with only mild adverse drug reactions
- Immune responses that have the potential to kill cancer cells were mediated by both activated CD4+ (12/12) and CD8+ T cells (7/12)



Dose-Dependent Increase in Neoantigen-Specific T cells

Dose-dependent increase in neoantigen-specific T cells (tumor killing cells) determined through IFNy ELISPOT (spot counts per 300.000 cells).

EVX-01 - Clinical Phase 1/2 Summary

With Al-Immunology™ identified targets we have demonstrated longer progression-free survival of patients

Phase 1/2

High overall response rate with clinical response in all high dose group patients

Dose-dependent neoantigen-specific immune responses in all patients

Phase 2

Phase 2 initiated in metastatic melanoma with high dose EVX-01

Collaboration with MSD (Merck)

Opportunity for Subsequent Studies

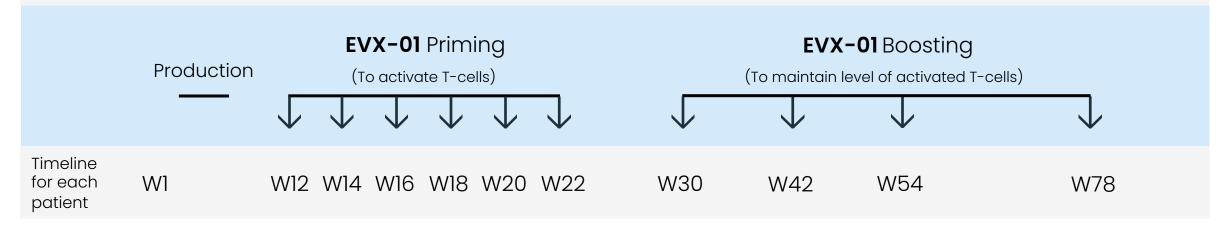
New insights to the immune system based on data and Al



Enrich patient population to significantly increase probability of positive outcome

EVX-01 Phase 2 Trial Enrolling Patients in Australia/Europe

Enrolled 16 patients with metastatic melanoma Conducted in collaboration with Merck & Co., Inc (MSD)



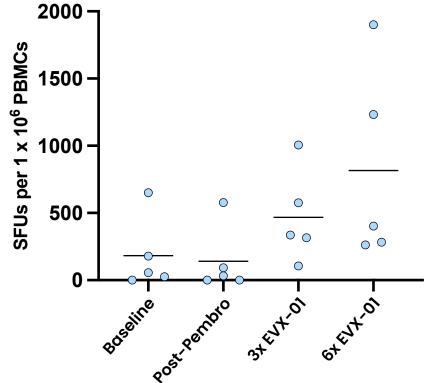
Pembrolizumab	Dosing according to label	$\overline{}$
(Keytruda™)		

Sep 2022	FPFV (First patient first visit)
Dec 2022	FDA IND approval
Jan 2023	FDA fast track designation

Q4 2023	Interim readout
Q3 2024	1Y readout
Q3 2025	Final readout

Engouraging Initial EVX-01 Phase 2 Trial Results

- Initial data from five patients*:
 - Confirm the favorable safety profile of EVX-01
 - Neoantigen specific T-cell reactivity induced by EVX-01 detected in all five patients
 - Confirm the ability the Al-Immunology™ platform to identify therapeutically relevant cancer vaccine targets



Response to Vaccine Neoantigens

IFN γ ELISPOT response at 4 different timepoint in PBMCs after in vitro stimulation towards each individual patient's neoantigen pool

^{*} Data reported at SITC in November 2023

EVX-02 - Evaxion's First DNA-Based Personalized Cancer Vaccine Shows Positive Clinical Readout

Study Overview

- Phase 1/2 clinical trial of EVX-02 + nivolumab (Opdivo™/standard of care) as adjuvant therapy after complete resection of malignant melanoma
- A DNA plasmid carrying 13 tumor-specific PIONEER-identified neoantigens delivered to each patient to prevent relapse
- Current relapse rate underlines the high unmet need for new therapies to tackle this disease



Positive Clinical Readout*

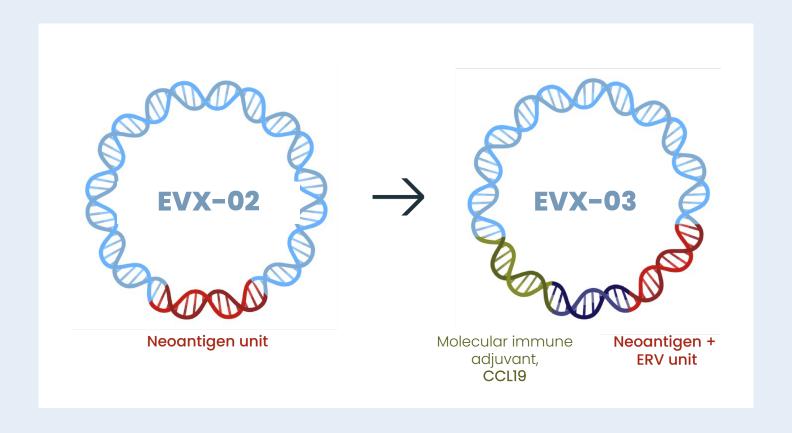
- All 10 EVX-02 completers were relapse-free at last assessment
- Well tolerated in all patients
- Specific T-cell responses in all patients against PIONEERidentified neoantigens
- T-cell responses robust and long lasting
- Proof of mechanism for DNAvaccine technology

^{*} Data reported at AACR in April 2023

EVX-03 - Believed To Be First Ever Personalized ERV Vaccine

DNA-based personalized vaccine armed with molecular immune adjuvant, neoantigens and ERVs

- Molecular immune adjuvant attracts antigen presenting cells and augments antigen presentation
- The unique technology is fully owned, patent protected, and with broad utility for vaccines
- Patient-specific neoantigens and ERVs are identified through Al
- GLP toxicology completed without concerns



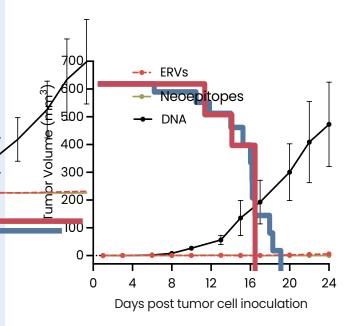
EVX-03 - Addition of ERVs Resulted in Very Promising Preclinical Data

 ERVs are ancient viruses that have integrated into the genome and are passed down through generations

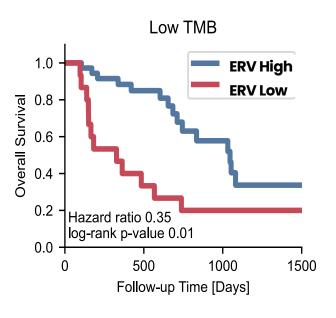
 ERVs are suppressed in healthy tissue, but expressed in cancers

 ERVs are promising targets for personalized cancer vaccines

 GLP toxicology study of EVX-03 completed without safety concerns ERV-Based DNA Vaccine Prevents Tumor Growth in a Preclinical Cancer Model

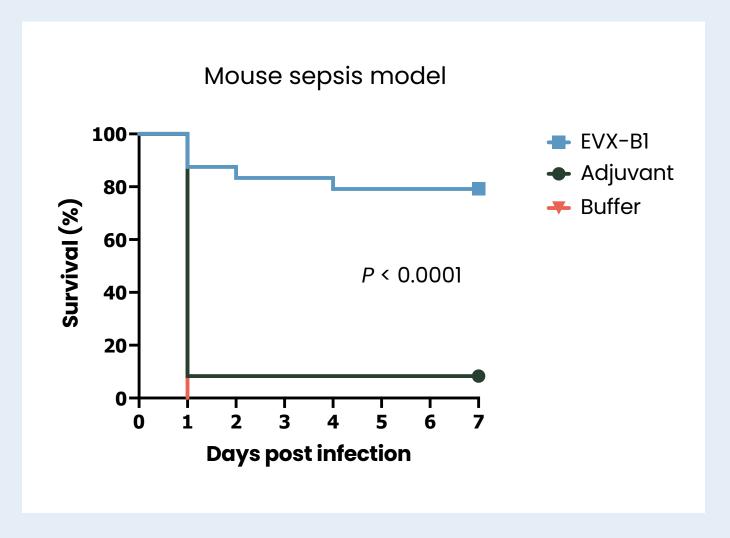


High ERV Burden is Associated with Better Survival in Patients with Few Tumor Mutations (Low TMB)



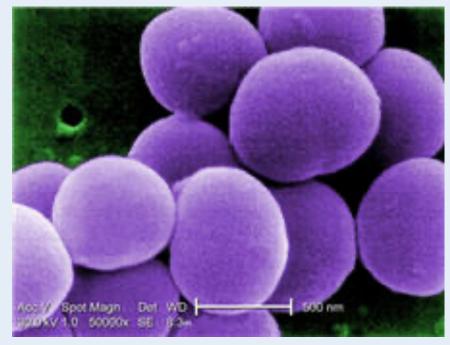
EVX-B1 - *S. aureus* Vaccine Candidate Demonstrates High Immunogenicity and Significant Protection

- Multi-component S. aureus vaccine candidate for prevention of Skin and Soft Tissue Infections (SSTI)
- Induction of high IgG titers and potent T-cell response after two doses
- Highly significant protection in lethal mouse sepsis model and in a mouse skin infection model
- EVX-B1 immunized mice are able to clear the infection from internal organs



EVX-B1: Encouraging Results for EVX-B1 Vaccine Antigens Against Staphylococcus aureus Infection

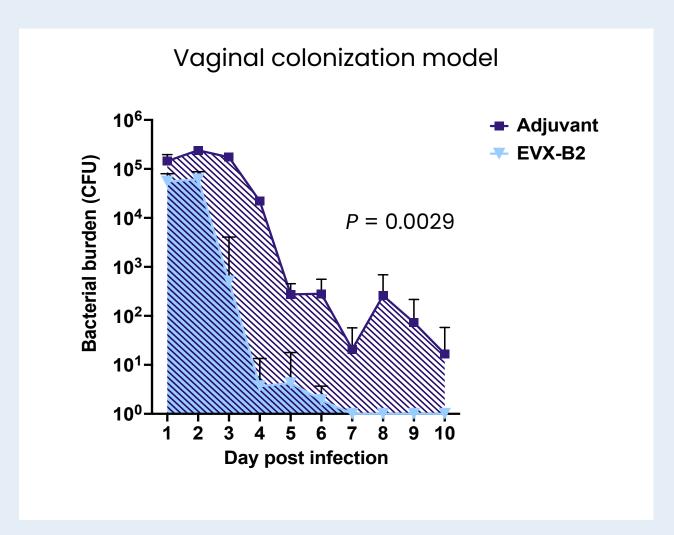
- Evaxion and its undisclosed collaborator tested Evaxion designed vaccine antigens against Staphylococcus aureus (S. aureus) in a clinically relevant animal model of surgical site infections
- The vaccine antigens significantly protected large, non-rodent animals against surgical site infections, indicating promising potential for clinical efficacy in human trials
- Currently, the two companies are engaged in discussions regarding the path forward



https://www.cdc.gov/hai/organisms/staph.html

EVX-B2 - *N. gonorrhoeae* Vaccine Candidate Induce Significant Protection and Shows Broad Neutralization Capacity

- Multi-component N. gonorrhoeae vaccine candidate containing two top-ranked EDEN™ candidates
- Significant protection against different gonorrhea strains in vaginal colonization model
- High level of immunogenicity
- Demonstrated efficacy against panel of 50 clinically relevant N. gonorrhoeae strains



Intellectual Property



Evaxion's Intellectual Property **Portfolio Broadly Covers Al and Vaccine Candidates** for Cancer and Infectious Diseases

Evaxion Biotech A/S holds an extensive intellectual property (IP) portfolio

The IP portfolio covers strategic parts of the Al-Immunology™ platform and compositions of matter, methods and use of products in our two disease areas: cancer and infectious diseases. Key part of the Al-Immunology platform are kept as trade-secrets.

Evaxion's filed IP portfolio related to the **AI-Immunology™ platform** currently consist of:

- More than 15 pending applications with expected expiry dates ranging from 2040 to 2042
- IP covers AI models PIONEER™, ObsERV™, RAVEN™, EDEN™ and AI-Deep™

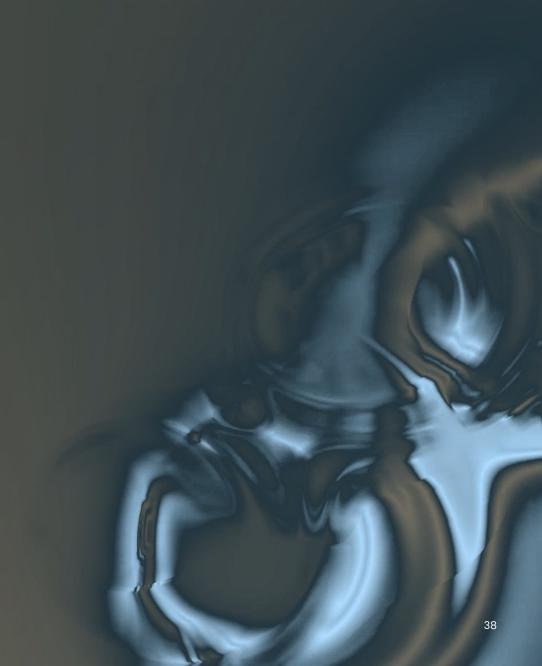
Evaxion's **cancer** IP portfolio currently consists of:

- More than 20 pending applications with expected expiry dates ranging from 2040 to 2042
- IP covers EVX-01, EVX-02 and EVX-03,

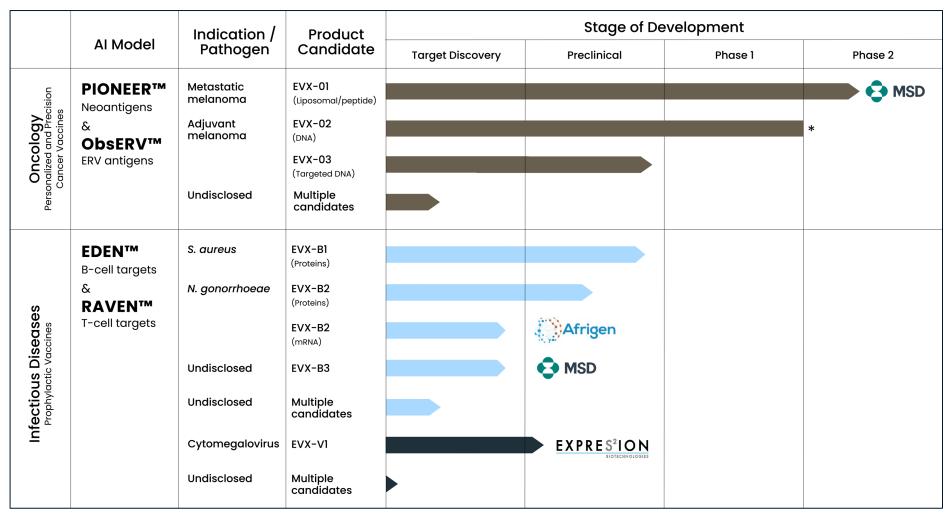
Evaxion's **infectious disease** IP portfolio consists of:

- >25 granted patents and >20 pending applications with expiry dates ranging from 2032 to 2044
- IP covers infectious diseases; S. aureus, N. gonorrhoeae, A. baumannii, P. aeruginosa, K. pneumoniae, M. catarrhalis, NTHi

Corporate Summary



Pipeline: Demonstrating the **Performance and Scalability of Our Al-Immunology™** Platform



Capital Structure

Listed on Nasdaq NY under ticker "EVAX"

Date of listing: Feb 5, 2021

Headquarters Denmark

Employees 40

Average Volume (3M) 687,009

Shares outstanding 52 M

MSD GHI ownership Around 15%

Capital raised (USD) 107 M

Debt (USD) 8 M (long term)



Recent Deals & Partnerships - Overview

MSD GHI - Discovery Partnership

Description

- Discovery partnership with MSD around undisclosed bacterial pathogen for which no vaccine currently exists
- Evaxion will employ EDEN™ and RAVEN™ to design vaccine
- MSD has exclusive option to program during discovery phase

Strategic Value

- Big pharma endorsement
- Pipeline expansion with co-funding of discovery activities

Now and Next

- Co-funded discovery activities initiated
- MSD has exclusive option to program during discovery phase

Afrigen - mRNA Gonorrhea Vaccine

Description

- Discovery partnership to design and test mRNA Gonorrhea vaccine, based on EDEN™ identified antigens
- Afrigen has option to commercial rights for low and middle income and African territories

Strategic Value

- First mRNA program in pipeline
- Potential for first clinical proof-ofconcept for EDEN™ antigens
- Participation in WHO and Medicines
 Patent Pool initiative

Now and Next

 Afrigen will design mRNA constructs of the EDEN™ identified Gonorrhea antigens

Welcome MSD GHI as New Partner

Description

- In the recent private placement, MSD GHI contributed with some 25% of the total offering amount
- MSD Global Health Innovation Fund (MSD GHI) is a corporate venture capital arm of Merck & Co., Inc., Rahway, NJ, USA

Strategic Value

- Big pharma endorsement
- Investors trust Evaxion's intrinsic value, strategic direction, and future potential

Now and Next

Look forward to close collaboration with the experienced team of MSD GHI

Strategy Summary

The Al-Immunology™ Platform

- Design and development of personalized and precision vaccine candidates
- Al prediction models trained in cancer and infectious diseases
- Potential for one new target every 24 hours
- Platform is delivery modality agnostic
- Unique predictive capabilities
- Adaptability to partner needs
- Scalable to other therapeutic areas





Targets

Multiple partnerships in place, several partner discussion ongoing. Dealmaking capacity being enhanced



Pipeline

EVX-01 initial Phase 2 confirms strong Phase 1 data, one-year readout in Q3, 2024 ERV precision cancer vaccine preclinical Proofof-Concept being pursued



Responders

Proof-of-Principle obtained, partnershipbased approach to potential commercial offering being initiated CEO Christian Kanstrup cka@evaxion-biotech.com

Thank You

