

Corporate Presentation
March 2022

NON-CONFIDENTIAL

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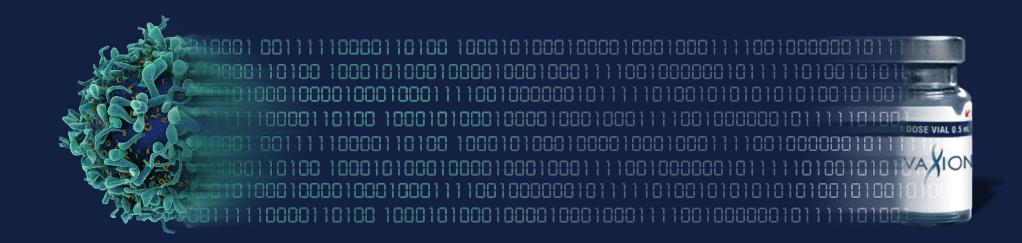


Evaxion Aspires to Become a World Leader in AI-Immunology, Decoding the Human Immune System to Develop Effective Immunotherapies Based on Deep **Biological Insights**

Immune system

Artificial Intelligence

Immunotherapies





Highlights

Antitumor effect in lead immuno-oncology program supports a Phase 2b trial in partnership with Merck & Co., Inc (MSD)

- EVX-01: Clinical results from EVX-01 Phase 1/2a trial support a Phase 2b trial:
 - All primary and secondary endpoints met
 - ORR 67%, CR 22%
 - Neoepitope-driven antitumor effect
- EVX-01 Phase 2b trial initiation in H2 2021, in partnership with MSD
- EVX-02/03: Immune and safety data from Phase 1/2a clinical trial support a Phase 2b trial

Proprietary AI-immunology platforms to enable rapid and scalable discovery and development of immunotherapies

Proprietary AI-immunology platforms that simulate the human immune system

- PIONEER™ platform for patient-specific neoepitope-based cancer therapies
- EDEN™ platform for bacterial disease
- RAVEN™ platform for viral diseases

Newly developed AI-DeeP™ platform for prediction of drug response

Poised for rapid growth with experienced team, broad IP portfolio and scalable business model

- Experienced team of 57 individuals with expertise in drug development and AI
- Fully integrated, state-of-the-art research facilities
- Broad IP portfolio with 14 issued patents and 31 pending patent applications
- Multiple opportunities for partnerships and rapid pipeline expansion



Advancing a Robust Immunotherapy Pipeline

AI platform	Product Candidate Stage of Development						Anticipated Key	
Ai piatioriii	(Delivery modality)	Pre-clinical	Phase 1	Pł	nase 2	Phase 3	Milestone	
	EVX-01 (Liposomal/Peptide)			2a	2 b		H2 2021: Phase 2b	
DIONEED	Metastatic Melanoma				MSD		Regulatory Filing	
PIONEER Patient-specific cancer	EVX-021c Melanoma						H1 2022: EVX-02/03 Phase 2b Regulatory	
immunotherapies	Adjuvant Melanoma						Filing	
	(Largeted DNY) (Largeted DNA)						H1 2022: EVX-02/03 Phase 2b Regulatory	
	Multiple Cancers						Filing	
HDEN	EVX-B1 Caucals (Adjuvanted Recombinant Proteins)				1 1 1 1 1 1		H2 2022: Regulatory Filing	
EDEN Vaccines against	S. aureus, SSTI							
bacterial diseases	EVX-B2 SSLI						H2 2022: Select	
	Multiple bacteria						Second Bacterial Product Candidate	
RAVEN Vaccines against viral diseases	EVX-V1				 		H2 2022: Select First	
	(DNA/mRNA) Multiple viruses						Viral Product Candidate	
	THURLING ALL MOCO							



Developing Our Current Pipeline of Product Candidates through Phase 2b **Before Out-Licensing**



AI-immunology Platform

- PIONEER
- EDEN
- RAVEN
- AI-DeeP



Delivery Modalities

- Peptide/Proteins
- DNA/targeted DNA
- mRNA



Product Candidates

- EVX-01
- EVX-02
- EVX-03
- EVX-B1



Out-licensing

After Phase 2b



Accelerating drug discovery and development, utilizing AI platforms to expand our portfolio and pursue earlier out-licensing arrangements after clinical PoC on each platform



The Evaxion Executive Management Team



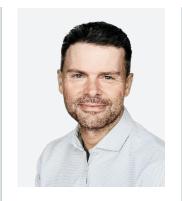
Chief Executive Officer Lars Staal Wegner, MD





Chief Scientific Officer Birgitte Rønø, PhD





Chief Medical Officer Erik Heegaard, DMSc, PhD





Chief Business Officer/Interim CFO Niels Møller, MD







Chief Innovation Officer Andreas Mattsson







Science and Drug Development

Business and Stakeholders

Marianne Søgaard, Chair of the Board

Served for 22 years at the Kammeradvokaten/Law Firm Poul Schmith as a corporate lawyer, partner and board member. Serves on various boards within technology and biotech.

Steven Projan, PhD

Former Sr V.P. R&D and Head of Infectious Disease & Vaccines at MedImmune, successfully led four programs resulting in the approval of novel anti-infective drugs.

Roberto Prego Pineda

Holds senior leadership positions at Cocrystal Pharma, IVAX and TEVA, and biotech investor.

Lars Holtug

Served for 35 years at PwC in Denmark as an employee, partner and Chairman of the Board. Serves on the Boards of a number of companies, including Ascendis Pharma A/S, a U.S. publicly traded company listed on the NASDAQ.

Jeffrey S. Weber, MD, PhD

Professor of Oncology and the Deputy Director of Perlmutter, Co-Director of Melanoma Program at the New York University (NYU)-Langone Cancer Center and Head of Experimental Therapeutics at NYU Langone Medical Center LLC.

Georgina Long, PhD, MBBS, FRACP

Co-Medical Director of Melanoma Institute Australia (MIA), and Chair of Melanoma Medical Oncology and Translational Research at MIA and Royal North Shore Hospital, The University of Sydney.

Patrick Ott, MD, PhD

Clinical Director of the Melanoma Disease Center and the Center for Immuno-Oncology at Dana-Farber Cancer Institute. Serves as an attending physician in the Department of Medicine at Brigham and Women's Hospital and has an appointment as Associate Professor at Harvard Medical School in Boston, MA.

Inge Marie Svane, PhD, Professor

25 years of research experience in cancer immunology and immunotherapy. Has pioneered the field of cancer immunotherapy in Denmark building up CCIT, a translational research center in European leading position.

Kirsten Drejer, PhD

Co-founder and former CEO of Symphogen A/S. Member of the board of directors of a number of biotech and pharma companies.

Anthony Purcell, PhD, Professor

Leader in the field on ligand/MHC binding mass spec. NHMRC Principal Research Fellow and Deputy Head of the Department of Biochemistry at Monash University.

Michael W. Washabaugh, PhD

Previous positions in Adello Biologics (CSO), MedImmunne, Merck & Co., Inc. and has supported several launched products.

Søren Brunak, Dr. phil., Ph.D., Professor

Rated as one of the Worlds 200 most influential biology and biochemistry scientists and a member of the Nobel Award Panel.

Christian Schilling, MD, PhD

Responsible for the Global Therapeutic Areas in Human Pharma at Boehringer Ingelheim for many years. A member of the Human Pharma Executive Board and Co-Chair of the Global Licensing Committee representing the Human Pharma Business Unit.

Andy Weber

US Federal Government, Deputy Coordinator for Ebola Response at the U.S. Department of State, former Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs, advisor for Threat Reduction Policy in the office of the Secretary of Defense.

Robert J. Palay, JD, MBA

Chairman of Tactics II Equity LLC, V.P. of multiple entities specializing in life science investments. Founder or early-stage investor in genomics and stem cell-based companies.

Rajeev Surati, PhD

Investor and serial entrepreneur in technology and science. Built several successful companies, Data Science Mentor at Harvard Medical School.

Tom Wylonis, PhD

Chairman of the Board of Evaxion from 2015 to 2020. Investor and board member of several life science companies. Former Global Director at McKinsey & Company.

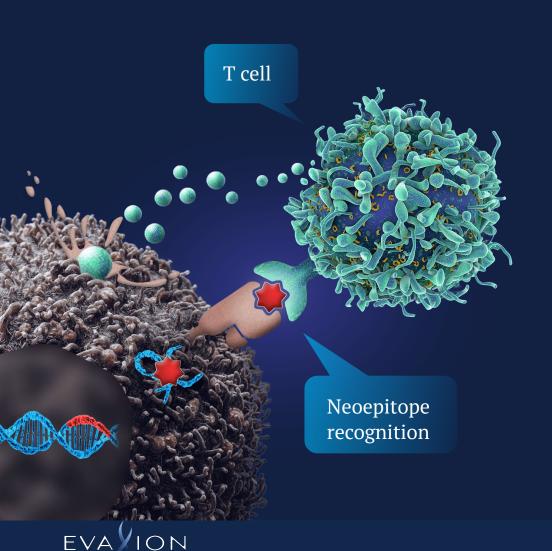




AI PLATFORM FOR PATIENT-SPECIFIC NEOEPITOPE-BASED CANCER THERAPIES



PIONEER: Proprietary AI Platform for the Generation of Patient-Specific Neoepitope-Based Cancer Therapies



Neoepitopes are ideal cancer immunotherapy targets that:

- arise from patient-specific tumor mutations
- play a critical role in CD4+ and CD8+ T cell-mediated antitumor immunity
- are absent in healthy tissues and
- are recognized as non-self by the immune system

Our proprietary AI-platform PIONEER is trained to efficiently identify and select the best neoepitopes for *de novo* T-cell induction and antitumor effect in each patient

EVX-01

PHASE 1/2a CLINICAL DATA

Patient-Specific Neoepitope-Based Therapy in Advanced or Metastatic Melanoma



EVX-01 Phase 1/2a Key Findings: Data Support Phase 2b Trial of EVX-01

- All primary and secondary endpoints met: EVX-01 appears to be well-tolerated, only grade 1/2 AEs observed
- Overall Response Rate (ORR) of 67% and Complete Response (CR) Rate of 22% in combination with anti-PD1 therapy compares favorably to anti-PD1 monotherapy
- Three patients with stable disease for eight months or more on anti-PD1 therapy transform into two CR and one partial response (PR) after receiving EVX-01 therapy
- Broad T-cell activation in 100% of the patients, with a large fraction of the PIONEER-identified neoepitopes inducing a *de novo* response
- Correlation between T cells activated by PIONEER-identified neoepitopes and clinical response
- Correlation between EVX-01 activated T cells and antitumor effect
- Recommended dose for Phase 2b established



EVX-01 Phase 1/2a Clinical Trial Design

Objectives

Primary: Safety and tolerability

Secondary: Immunogenicity and feasibility of manufacturing

Tertiary: Objective response (OR), progression free survival (PFS) and overall

survival (OS)

Indications

Advanced or metastatic melanoma

Treatment

EVX-01 inj. biweekly, 3 x intraperitoneally 3 x intramuscularly, plus

standard dose of pembrolizumab every 3 weeks (nivolumab every 4 weeks) **Next Milestone**

Phase 2b regulatory filing planned for H2 2021

Cohort A

Treatment naïve

Cohort B

Stable disease on anti-PD1>4 months

Dose escalation of **EVX-01**

Dose level 1: 500 µg total peptide

Dose level 2: 1000 µg total peptide

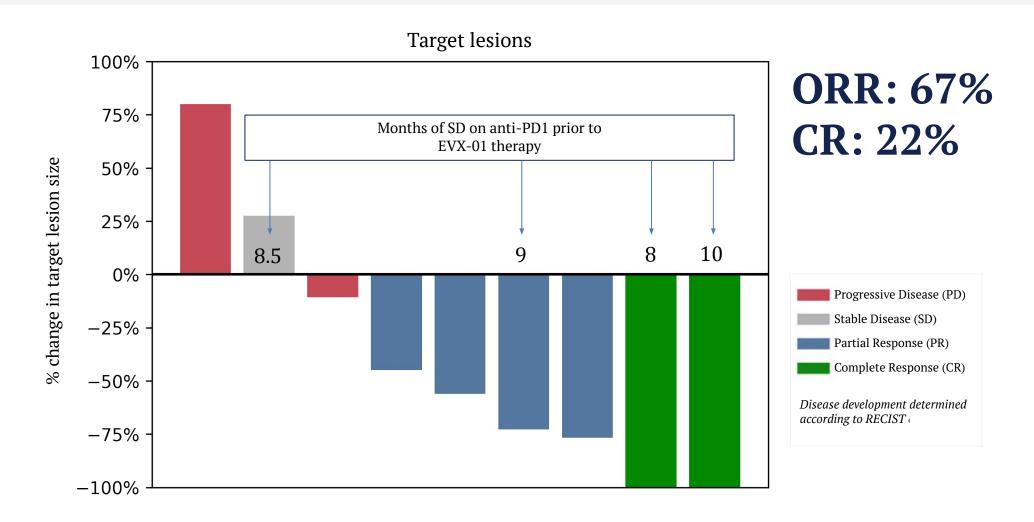
Dose level 3: 2000 µg total peptide

Recommended EVX-01 dose for Phase 2b trial

^{*}originally designed to be a basket trial, changed focus to melanoma



EVX-01 in Combination with Anti-PD1 Therapy Eliminates or Reduces Tumor Burden in the Majority of Patients





ORR, CR and PR Achieved by EVX-01 in Combination with Anti-PD1 Compares Favorably to Anti-PD1 Treatment Alone

	EVX-01 ALL DOSE LEVELS	KEYTRUDA® LABELa	KEYNOTE-006 ^b
ORR	67%	33%	40%
CR	22%	6%	7%
PR	44%	27%	33%

	EVX-01 HIGH DOSE ^c	KEYTRUDA® LABELa	KEYNOTE-006 ^b
ORR	75%	33%	40%
CR	25%	6%	7%
PR	50%	27%	33%

c) High Dose: Dose level 2 and 3

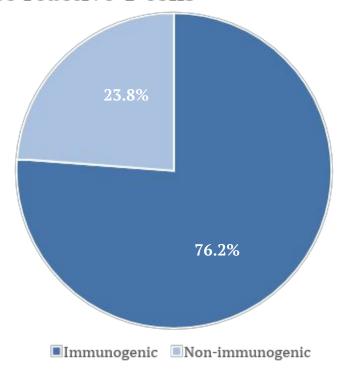


a) KEYTRUDA® label study Keynote-006

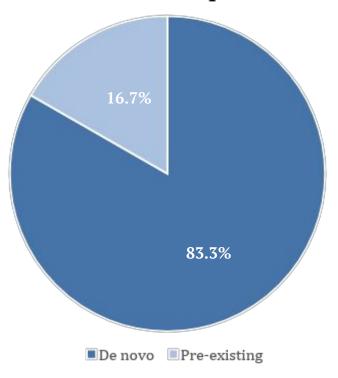
b) Robert et al. 2015. Pembrolizumab versus Ipilimumab in Advanced Melanoma. N. Engl. J. Med. 372: 2521–32, Keynote 006 responses after 2 months corresponding to time from biopsy to first dose of EVX-01

EVX-01 Induces a Specific T-Cell Response in All Patients to a Majority of Administered Neoepitopes

76.2% of the administered neoepitopes induce reactive T cells



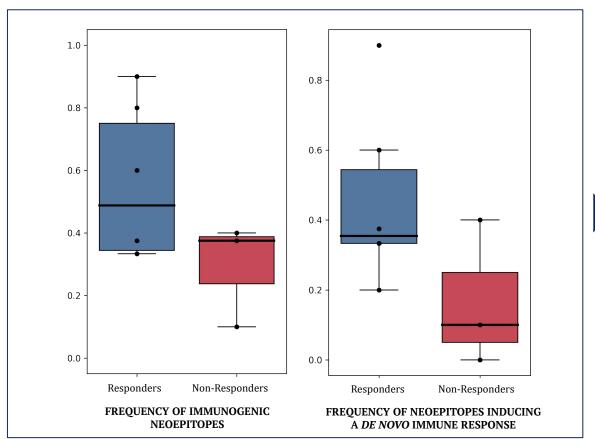
83.3% of EVX-01-induced reactive T cells are de novo responses



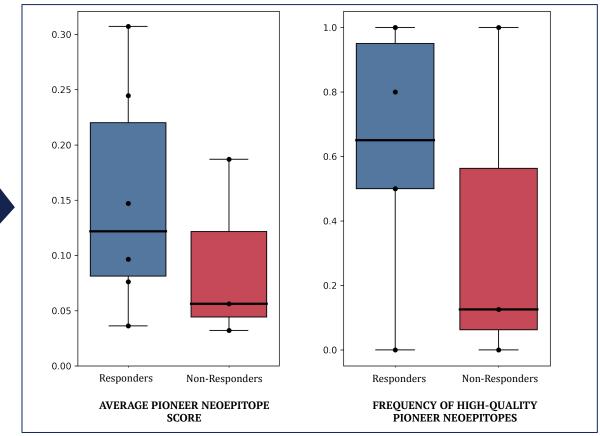


Correlation Between Specific T Cells Activated by PIONEER-Predicted Neoepitopes and Clinical Response

Clinical response correlates with neoepitope-specific T-cell response



Clinical response correlates with PIONEER predictions





Patient with Stable Disease for 10 Months on Anti-PD1 Achieves Complete Response Following EVX-01 Treatment

Patient D02_A, 64-year-old female diagnosed with Stage IV (M1a) metastatic melanoma

Patient Status:

SD on CPI for 10 months prior to EVX-01 treatment (Cohort B)

Clinical status:

CR

PD-L1 tumor expression:

< 1%

Immunogenicity:

T-cell response to 100% of EVX-01 neoepitopes

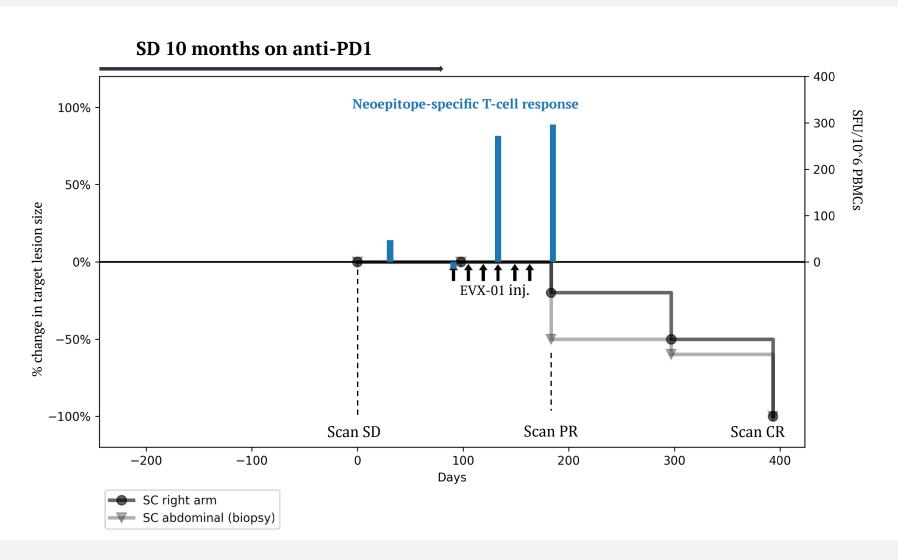
Lesions (at baseline):

A: Right arm sc (target)

B: Abdominal sc

TRAEs:

Only grade 1/2 AEs observed





After Stable Disease for 10 Months on Anti-PD1, CT Scan and PET-CT Show Complete Elimination of Tumor Following EVX-01 Treatment

Patient D02_A, 64-year-old female diagnosed with Stage IV (M1a) metastatic melanoma

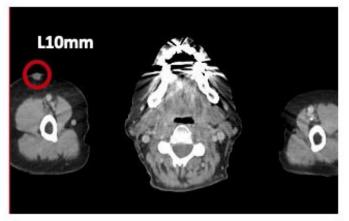
Clinical status:

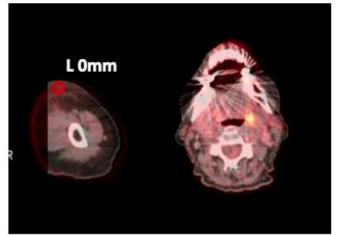
CR

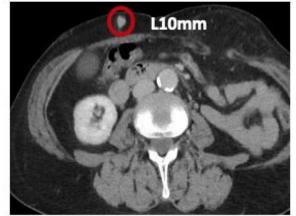
Lesions (at baseline):

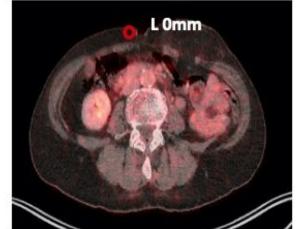
A: Right arm sc (target)

B: Abdominal sc









SCAN AT ENROLLMENT. PATIENT SD ON CPI FOR 10 **MONTHS PRIOR TO EVX-01 THERAPY**

SCAN FOLLOWING **EVX-01 TREATMENT** SHOWING CR



EVX-01 Induces a Neoepitope-Specific T-Cell Response with the Ability to Migrate to the Neoepitope Target

Patient D02_A, 64-year-old female diagnosed with Stage IV (M1a) metastatic melanoma

Clinical status:

CR

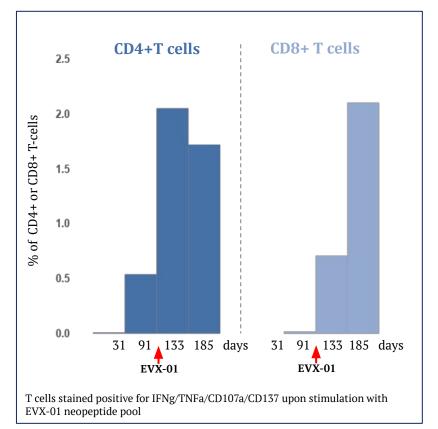
Immunogenicity:

T-cell response to 100% of EVX-01 neoepitopes

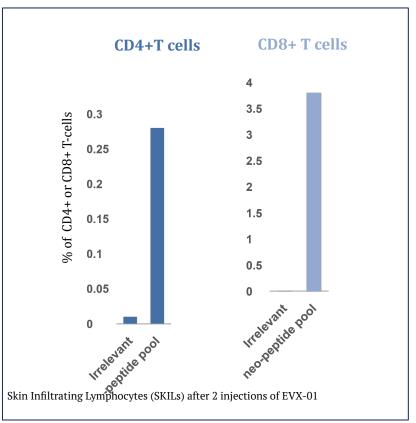
SKILS:

Neoepitope-specific SKILs detected

EVX-01 induces neoepitope-specific T cells



EVX-01-induced neoepitope-specific T cells migrate to the neoepitope target





EVX-01 Appears to be Well-Tolerated at All Dose Levels with TRAEs Indicative of EVX-01-Induced Immune Activation

SAFETY SUMMARY

- Primary objective met
 - Only grade 1 and 2 **TRAEs**
 - Appears to be well-tolerated at all dose levels

EVX-01 Treatment Related Adverse Events (TRAEs) 9 patients

Grade 1	8 (88.8%)
Grade 2	4 (44.4%)
Grade 3	0 (0%)
Leading to drug discontinuation	0 (0%)
Leading to death	0 (0%)

Most frequently observed grade 1 TRAEs:

- Fatigue
- Stomach pain
- Fever
- Dizziness
- Cough
- Rash

Most frequently observed grade 2 TRAEs:

Fatigue



EVX-01

PHASE 2b TRIAL In Collaboration with MSD

Patient-Specific Neoepitope-Based Therapy in Advanced or Metastatic Melanoma



KEYNOTE-001 and 006 Demonstrate the Unmet Medical Need and Guide the Clinical Trial Design of EVX-01

Newly published data on pembrolizumab by Merck & Co., Inc demonstrate the unmet medical need

European Journal of Cancer 157 (2021) 391-402



Available online at www.sciencedirect.com

ScienceDirect

journal homepage: www.ejcancer.com

Original Research

Long-term outcomes in patients with advanced melanoma who had initial stable disease with pembrolizumab in KEYNOTE-001 and KEYNOTE-006

"... Patients with SD at week 12 and subsequent progression had poor survival outcomes."

"The current findings will help guide future trial design and clinical decisions for patients with advanced melanoma who has initial SD with pembrolizumab"



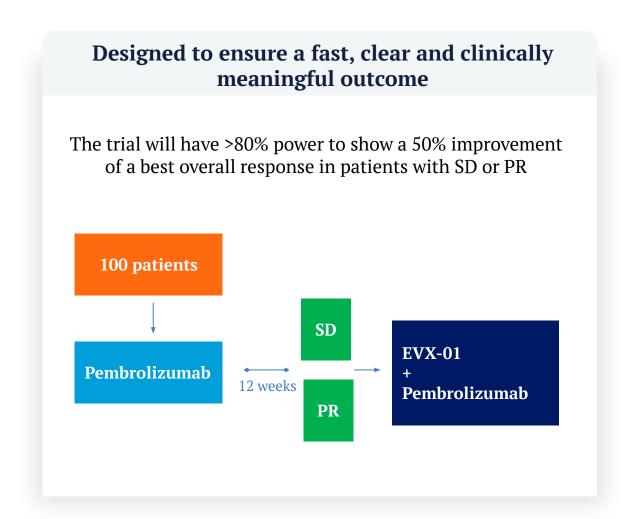
EVX-01 Phase 2b in partnership with Merck & Co., Inc provides access to unique knowledge and data

- + EVX-01 in combination with pembrolizumab has the potential to significantly improve patient outcomes
- + EVX-01 in combination with pembrolizumab have shown more than 50% increase in ORR in Phase 1/2a
- + Our EVX-01 Phase 2b trial design is developed in collaboration with world leading KOLs

Georgina Long (Melanoma Institute Australia, AU), Patrick Ott (Dana-Faber Cancer Institute, USA), Inge-Marie Svane (Center for Cancer Immune Therapy, Denmark)



EVX-01 Phase 2b: An Open-Label, Multi-Center, Single Arm Trial Evaluating the Efficacy and Safety of EVX-01 in Adults with Unresectable or Metastatic Melanoma with SD or PR after 12 Weeks on Pembrolizumab Treatment



Objectives

Primary: Best objective response (BOR) per RECIST 1.1

Secondary: Overall response rate (ORR), progression free survival (PFS), overall

survival (OS), safety

Exploratory: ct-DNA, induction of immunologic response (neoepitope-specific

-CD4+ and CD8+ T cells)

Indications

Stage III and IV metastatic or unresectable melanoma

Trial summary

Partnership: Merck & Co., Inc (MSD)

Modality: Peptide/Liposomal

Type: Open-Label, multi-center, single arm

Locations: US, AUS, Europe

Milestones

H2 2021: Regulatory filing

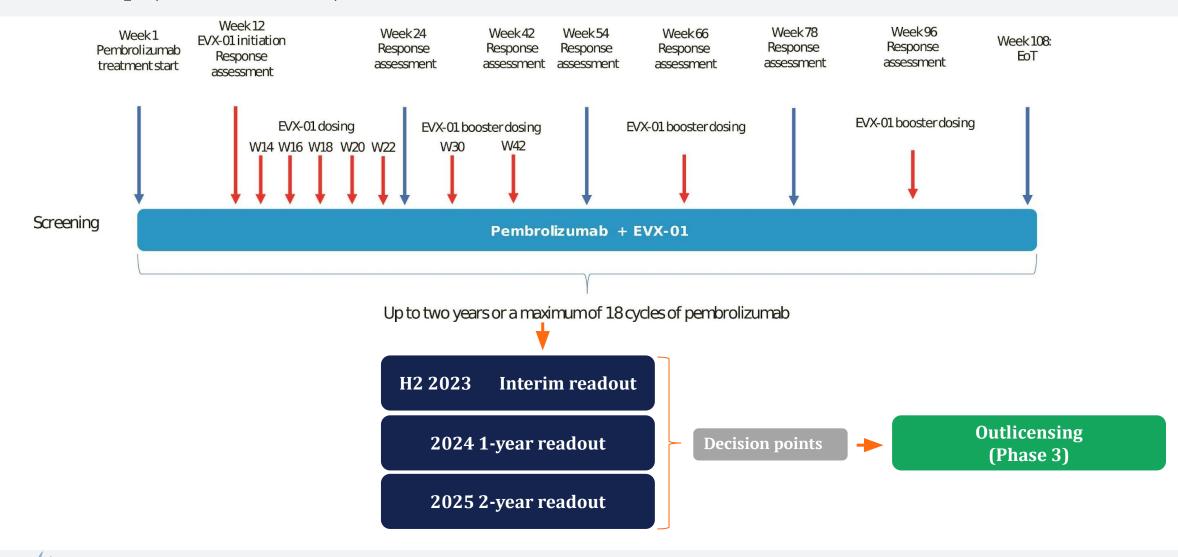
H1 2022: FPFV

H2 2023: Interim readout

2024: 1-year readout



EVX-01 Phase 2b Trial Design Allows for Fast Readout and Decision Points for Partnership (Phase 3 Trial)





EVX-02/03

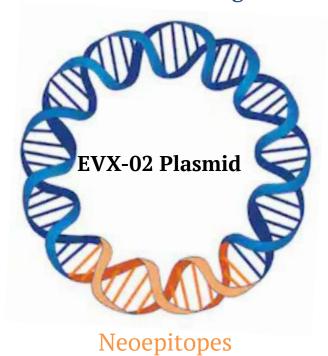
EVAX DNA

Patient-Specific Neoepitope-Based Therapy in Adjuvant Melanoma

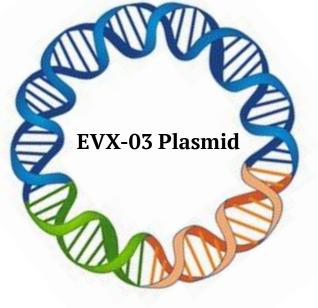


EVAX-DNA: DNA Modalities and Administration Methodologies Designed to Induce CD4+ and CD8+ T Cell-Driven Tumor Killing

EVAX-DNA backbone with immune stimulating inserts



EVAX-DNA backbone with immune stimulating inserts



APC-targeting Neoepitopes

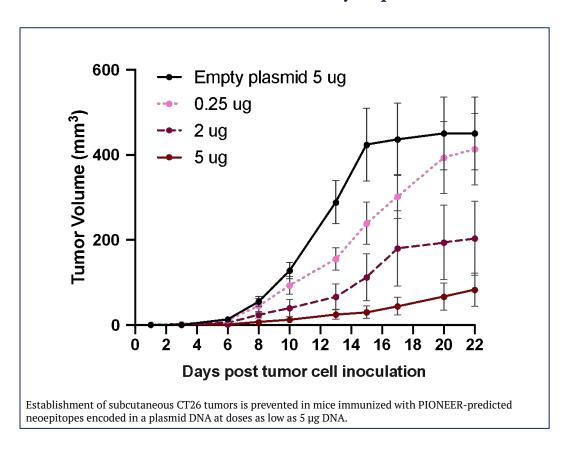
Administration methodology

- DNA plasmid delivered via the PharmaJet Stratis® needle-free injection system
- Polymer formulation, delivered by a standard syringe

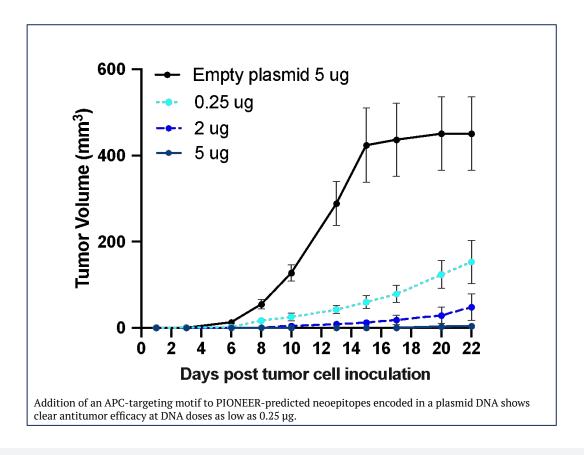


Pre-Clinical Data from EVAX-DNA (+/- APC Targeting) Demonstrate Antitumor Effect

EVX-02 induces antitumor immunity in pre-clinical models



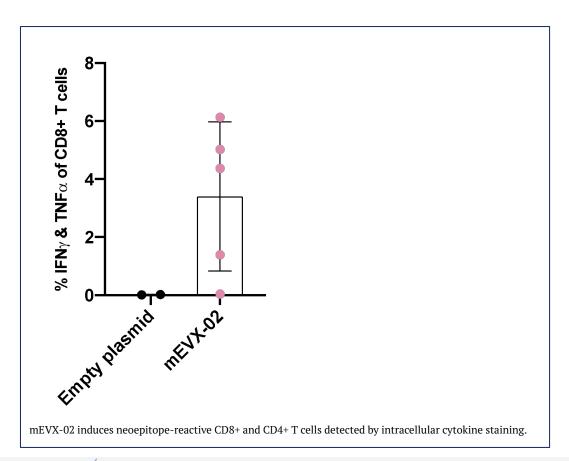
EVX-03 induces antitumor immunity in pre-clinical models



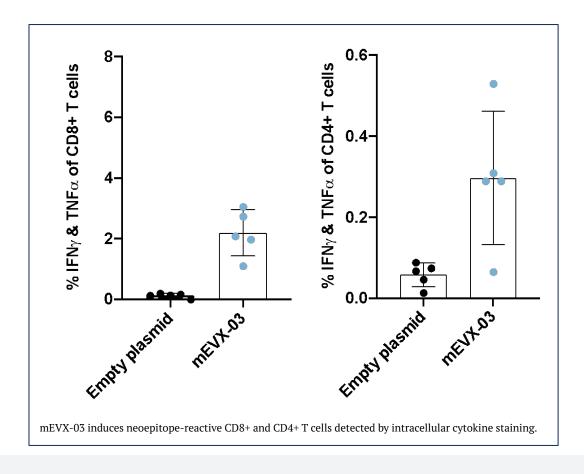


Pre-Clinical Data from from EVAX-DNA (+/- APC Targeting) Demonstrate Clear T-Cell Induction

EVX-02 induces neoepitope-reactive CD8+ and CD4+ T cells



EVX-03 induces neoepitope-reactive CD8+ and CD4+ T cells





Preliminary Data from Phase 1/2a Trial Show Induction of Neoepitope-Specific CD4+ and CD8+ T cells

Objectives

Primary: Safety / tolerability and immunogenicity

Secondary: Relapse free survival at 12 months

Indications

Adjuvant therapy after complete resection of Stage IIIB/IIIC/IIID

or Stage 4 melanoma in patients with high risk of recurrence

Study Design

Study Arm A EVX-02A (Polymer)

Study Arm B EVX-02B (Jet Injector)

plus nivolumab, n=8

Status and Milestones

14 patients enrolled

plus nivolumab, n=8

- Enrollment completed H2 2021
- Phase 2b regulatory filing planned for H1 2022
- Clinical readout (Phase 1/2a) H1 2023

101-E01	Jet Injector	Yes	Yes	Yes	Yes	8/13
104-E01	Polymer	Yes	Yes	Yes	Yes	7/13

²ICS; Intracellular Cytokine Staining



¹IVS; *In Vitro* Stimulation

Pre-Clinical and Clinical Data from EVX-02 and EVX-03 Studies Support Plan to Advance EVAX-DNA into a Phase 2b Trial

Objectives

Primary: Recurrence-free survival (RFS) across treatment cohorts

Secondary: Induction of relevant immunologic response (CD4+ and CD8+

neoepitope-specific lymphocytes), ct-DNA, OS, AE and SAE

Indications

Stage IIIB/C/D & Stage IV melanoma

Trial summary

Modality: DNA-based with or without APC component

Type: Randomized, multi-center trial

Locations: US, AUS, Europe

Milestones

Regulatory filing: H1 2022

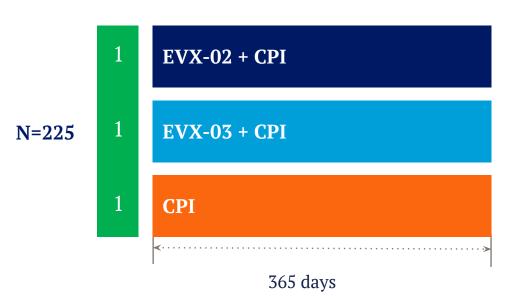
First-patient-first-visit: H2 2022

Interim readout: H1 2024

Full readout: H1 2025



Phase 2b trial design in adjuvant melanoma



AI-DeeP

<u>A</u>I-<u>I</u>mmunogenetic <u>D</u>rug R<u>e</u>spons<u>e</u> <u>P</u>latform

Predictor of patients most likely to benefit from immunotherapies

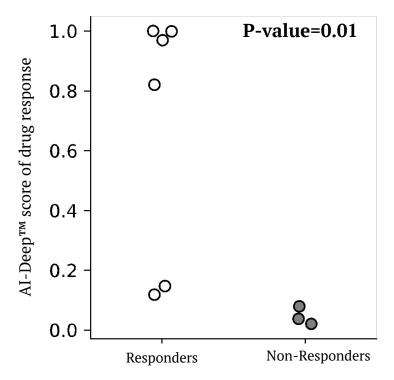


AI-DeeP, Our Proprietary AI-Immunogenetic Drug Response Platform, Predicts Responders vs. Non-Responders

AI-DeeP identifies patients responding to therapy with precision

Based on immunogenetic expression signatures in the tumor microenvironment, AI-DeeP seeks to determine which patients may benefit from the immunotherapeutic cancer treatment

AI-DeeP PoC on EVX-01 clinical data (n=9)



Leave-one-patient-out cross-validation. P-value calculated using permutation test.

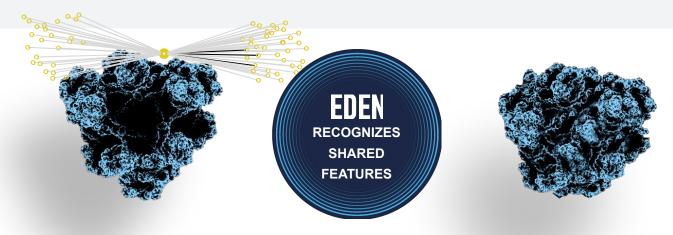




AI BACTERIAL VACCINE PLATFORM



EDEN Identifies Antigens Sharing Features with Known Highly Protective Antigens to Find Optimal Targets for Multicomponent Vaccines Against Bacterial Infections



Novel vaccine antigens with high precision:

Proprietary algorithms that allow for prediction with precision of antigens that will trigger a robust protective immune response against almost any bacterial infectious disease

Proprietary technology:

Proprietary machine learning ensemble of AI models used to interpret immunological-relevant information in relation to bacterial antigens that incur protection in a vaccine setting

Trained on our own curated data:

To identify the protective and non-protective antigens validated in human and animal models

Pre-clinically validated in seven different pathogens:

We intend to develop a pipeline of vaccine candidates using this platform

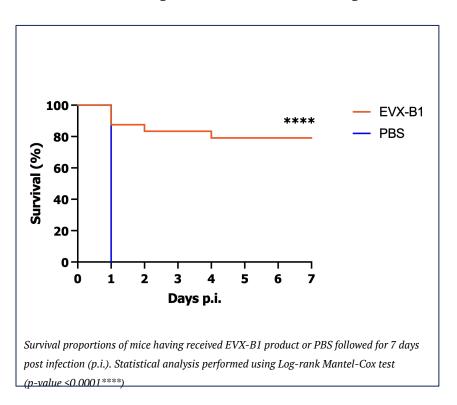


EVX-B1, our Vaccine Against *S. aureus*, is Advancing Through Pre-Clinical Development as Planned with Expected Regulatory Filing in H2 2022

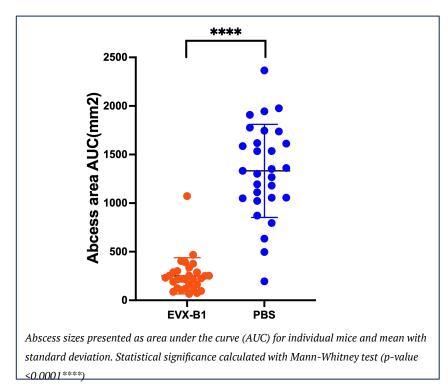
EVX-B1, a multicomponent vaccine product candidate for the prevention of *S. aureus* infections consisting of three components to build a strong vaccine product candidate:

- Novel, protective, EDEN-identified vaccine antigens formulated as a fusion protein
- Proprietary toxoid fusion protein with demonstrated high protection
- CAF01 adjuvant with optimal profile for clinical indication

EVX-B1 is inducing significant protection (79%) in a mouse sepsis model using *S. aureus* USA300 for challenge



EVX-B1 is inducing highly significant protection in an abscess mouse model using *S. aureus* USA300 for challenge





RAVEN

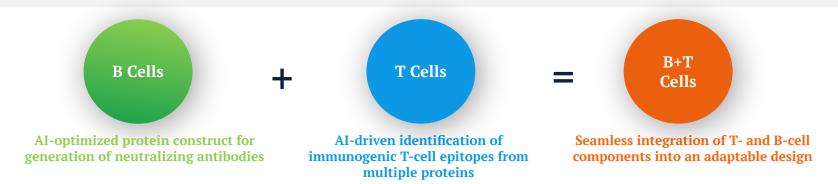
AI VIRAL VACCINE **PLATFORM**



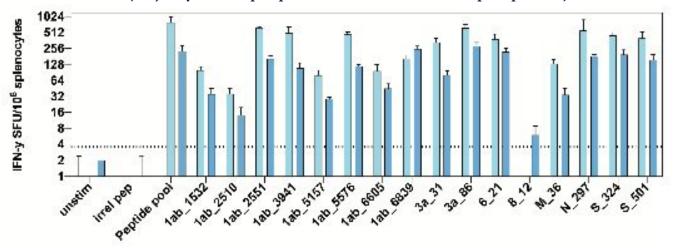
Pre-Clinical PoC Study Demonstrates RAVEN's Potential to Rapidly Design a Pan-Beta-Coronavirus Vaccine and Vaccines Against Other Viral Diseases

RAVEN

- ✓ Rapid response to emerging viral diseases and endemics such as current or future coronaviruses
- ✓ Unmet medical needs in viral diseases such as cytomegalovirus, HIV and Epstein-Barr virus etc.



In a pre-clinical PoC study, 15 of the 16 RAVEN predicted T-cell epitopes generate a T-cell response (majority of the epitopes are located outside the spike protein)





MILESTONES & SUMMARY



Anticipated Key Milestones 2021-2025

AI Platform	Product Candidate	Phase	2021	2022	2023	2024	2025
PIONEER Immuno-oncology	EVX-01 (with MSD)	Phase 2b	H2 Regulatory filing	H1 First-patient-first- visit	H2 Interim readout	1-year follow-up readout	2-year follow-up readout
PIONEER Immuno-oncology	EVX-02/03	Phase 2b		H1 Regulatory filing H2 First-patient-first- visit		Interim readout	Full readout
PIONEER Immuno-oncology	EVX-02	Phase 1/2a	H2 Recruitment completed		H1 Clinical readout		
EDEN Infectious diseases	EVX-B1	Phase 1		H2 Regulatory filing			
EDEN Infectious diseases	EVX-B2	Pre-clinical		H1 Selection of second bacterial target			
RAVEN Infectious diseases	EVX-V1	Pre-clinical		H2 Selection of commercial target			



Highlights

Antitumor effect in lead
immuno-oncology program
supports a Phase 2b trial in
partnership with Merck & Co., Inc
(MSD)

- EVX-01: Clinical results from EVX-01 Phase 1/2a trial support a Phase 2b trial:
 - All primary and secondary endpoints met
 - ✓ ORR 67%, CR 22%
 - ✓ Neoepitope-driven antitumor effect
- EVX-01 Phase 2b trial initiation in H2
 2021, in partnership with MSD
- EVX-02/03: Immune and safety data from Phase 1/2a clinical trial support a Phase 2b trial

Proprietary AI-immunology
platforms to enable rapid and
scalable discovery and
development of immunotherapies

Proprietary AI-immunology platforms that simulate the human immune system

- PIONEER™ platform for patient-specific neoepitope-based cancer therapies
- EDEN™ platform for bacterial disease
- RAVEN™ platform for viral diseases

Newly developed AI-DeeP™ platform for prediction of drug response

Poised for rapid growth with experienced team, broad IP portfolio and scalable business model

- Experienced team of 57 individuals with expertise in drug development and AI
- Fully integrated, state-of-the-art research facilities
- Broad IP portfolio with 14 issued patents
 and 31 pending patent applications
- Multiple opportunities for partnerships and rapid pipeline expansion





THANK YOU