



**Dermatology Drug Development Summit**  
November 1, 2023

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# Clinical-Stage Assets with Major Market Potential

## Targeting Unmet Inflammatory/Immunology Disease

### Multiple Late Stage, Validated Therapies

- Inflammation + Immunology focus
- Potential first-in-class therapies
- Addressing unmet, large market opportunities

### Several Near-Term Catalysts & Milestones

- Awardee of C\$23M funding from Canada's Strategic Innovation Fund
- Positive topline data
- Upcoming completion of a late-stage trial and regulatory filings

### Leadership with Established Track Record

- Entrepreneur CEO with multiple successful start-ups and exits
- Multiple acquisitions of first-in-class compounds with human PoC



# Technology Acquisition and Targeting

Identify overlooked clinical assets with promising growth potential



## Well Understood Pathway

- CXCL10 pathway in vitiligo identified by KOLs
- Characterization of TLR4 signaling pathway won Nobel Prize in 2011
- Arachidonic acid pathway



## Unique Targets on Pathway

- CXCL10 dual roles in disease initiation and progression
- Key modulator of immune signaling
- Top of the inflammation cascade



## Novel Method of Action

- Dual MOA that disrupts free and bound CXCL10 activity
- Monoclonal antibody that broadly blocks signaling cascade
- Generates intellectual property



## Data-Driven Indication Priority

- Favorable safety data established in humans
- Strong scientific rationale
- Synergistic with currently available products or treatments

# First-in-Class Development Pipeline

## Significant Add-On Opportunities

Technology	Drug Candidate	Disease Indication	Pre-Clinical	Phase 1	Phase 2	Phase 3	Status	Comments/Milestones
Paridiprubart (mAb) Anti-TLR4	EB05	ARDS - Covid-19	<div><div></div></div> Lead Asset				Fast Track Designation	Recruiting; C\$23 million funding from federal Strategic Innovation Fund
Paridiprubart (mAb) Anti-TLR4	EB07	Systemic Sclerosis	<div><div></div></div>				Prov. Patent Filed	Preparing Investigational New Drug (IND) application
Daniluomer sPLA2 Inhibitor	EB01	Allergic Contact Dermatitis (ACD)	<div><div></div></div> Lead Asset				Positive topline data	Ex-N.A. licensing opportunities being explored
Daniluomer sPLA2 Inhibitor	EB02	Hemorrhoids Disease	<div><div></div></div>				CTA Approved	Proof of Concept study pending
Monoclonal Antibody Anti-CXCL10	EB06	Vitiligo	<div><div></div></div>				CTA Approved	Partnering and out-licensing opportunities being explored



# EB06

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## First-in-Class Anti-CXCL10 mAb

Lead Indication: Vitiligo

Status: CTA Approved



# EB06

## First-in-Class Monoclonal Antibody for Treatment of Moderate to Severe Non-Segmental (Generalized) Vitiligo

### Product Profile



#### Anti-CXCL10 mAb

Biweekly IV Infusion Anticipated

Targets Progression and Maintenance of Depigmentation

Establish efficacy and subsequently develop subcutaneous formulation

#### Unmet Need

##### Lack of effective drug treatments

Autoimmune disease with significant impact on quality of life  
Lack of effective treatments, no systemic therapies

#### Target Market

##### Vitiligo Affects 0.5 to 2% of the Global Population

Lifelong, chronic condition, 50% onset by age 20  
Affects all skin types

#### Validation

##### Phase 2-Ready Clinical Asset

Clinical Trial Application approved  
Pharmacodynamic data has established biological activity  
Favorable safety profile in over 60 patients

##### CXCL10 Pathway of High Interest Among Vitiligo Researchers

CXCL10 highly expressed in vitiligo patients  
Neutralization prevented and reversed pigmentation in mice models

# Vitiligo

## A Life-Altering Autoimmune Disease

- > IFN- $\gamma$  dependent production of CXCL10 appears to drive vitiligo pathogenesis via dual mechanisms of action

### 1. Anti melanocyte T-cell trafficking

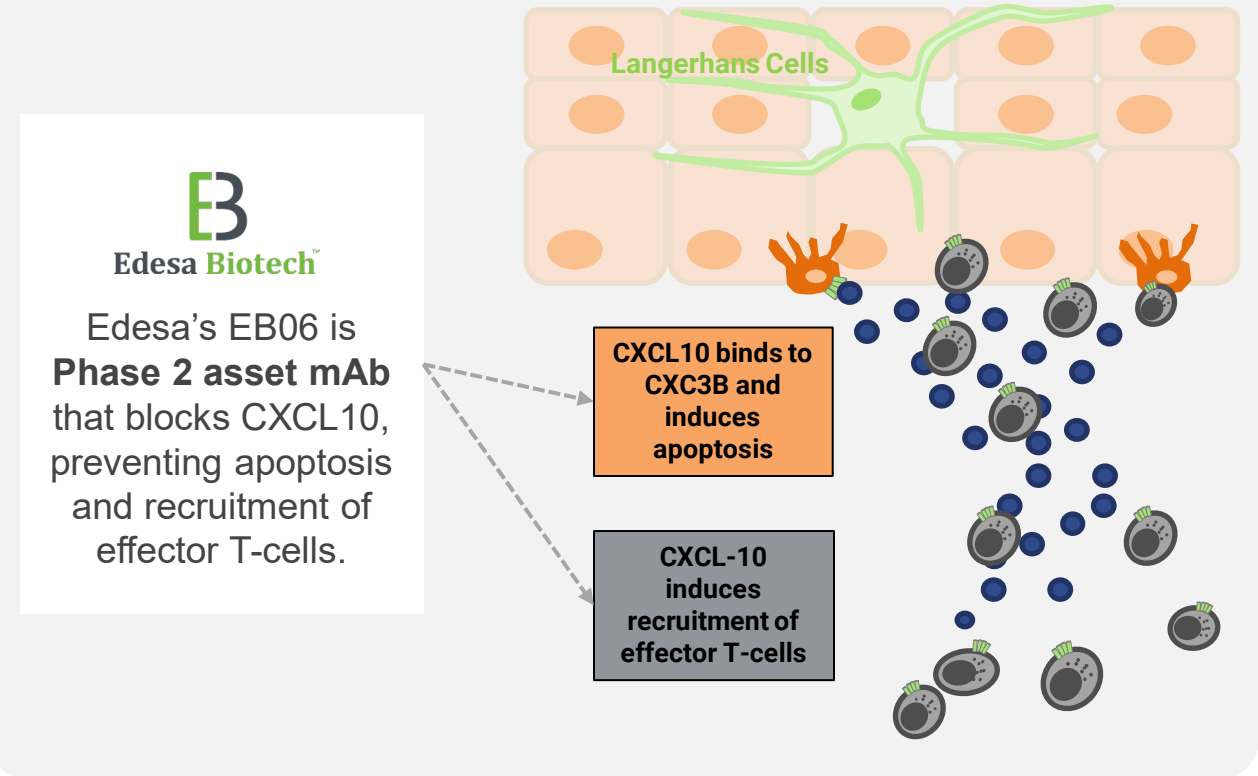
- CXCL10 and CXCR3 play a key role in the trafficking of anti-melanocytic T-cells to the epidermis
- In a mouse model of vitiligo, administration of an anti-CXCL10 antibody was able to both prevent and reverse depigmentation

### 2. Melanocyte apoptosis

- CXCL10 induces apoptosis of melanocytes via activation of CXCR3B in vitiligo

- > Therapies for Atopic Derm (Th2) or Psoriasis (Th17) are Largely Ineffective or Can Make Symptoms Worse  
Targeted Immunotherapies are Needed

### CXCL10/CXCR3 Play a Key Role in the Pathogenesis of Vitiligo



Melanocyte



CD8+ T Cells



CXCL10



CXCR3

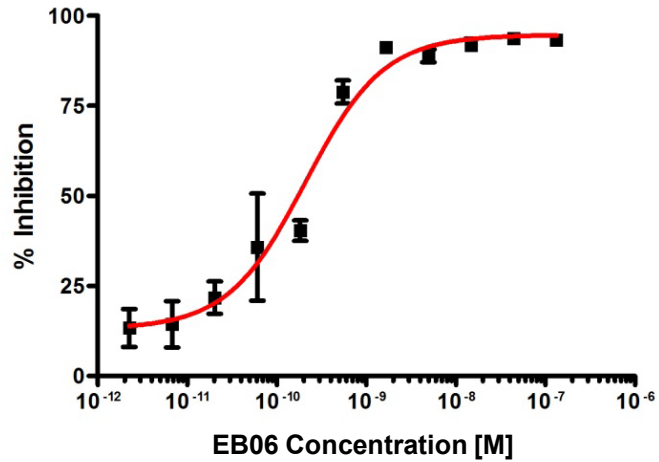


# EB06 Monoclonal Antibody Candidate

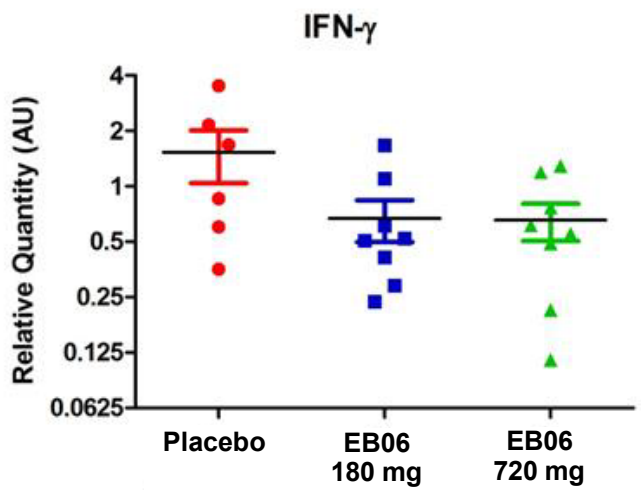
## A First-in-Class, Anti-CXCL10 mAb for Treatment of Vitiligo

### EB06 Blocks CXCL10-induced Cells Chemotaxis

Treatment with EB06 inhibits migration of cells in vitro



### Activity on Targeted Pathway



EB06 treatment reduced expression of pro-inflammatory markers, including IFN- $\gamma$ , in the skin



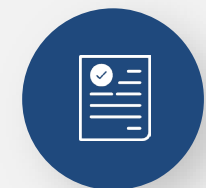
**Targeted Mechanism of Action**  
Binds free and bound CXCL10



**65 Subjects**  
No Significant AEs



**Biological Activity**  
Demonstrated



**Phase 2 Ready**  
CTA Approved

# Regulatory

## Steps to Create Regulatory Filing

- ✓ In vitro characterization demonstrated the requisite binding and inhibition of target
- ✓ Complete preclinical toxicology package
- ✓ Previous clinical studies establishing safety as well as generating PK/PD data enabling dose determination for vitiligo
- ✓ Established CMC package with prior GMP production
- ✓ Strong rationale for target validated by multiple independent groups

## Approved Phase 2 Protocol Design

Status	Clinical Trial Application Approved
Subjects	Approximately 120 Adult Subjects Up to 25 Study Centers
Administration	EB06 or placebo will be administered via IV during the treatment period, followed by a follow-up period.
Primary Endpoint	Improvement from baseline on the Face Vitiligo Area Scoring Index (F-VASI)



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