

# Avalo Therapeutics, Inc.

(AVTX)

Corporate Presentation

March 2023



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# Avalo Therapeutics (AVTX)



Portfolio emphasizing potential high value, first-in-class biologics focused on dysregulated inflammation via the LIGHT-signaling network



AVTX-002 (anti-LIGHT mAb) completed enrollment in Non-Eosinophilic Asthma PEAK trial – Phase 2 topline data expected 2Q23; POC completed in COVID-19 ARDS and CD



AVTX-008 (BTLA agonist fusion protein) – IND 2024



Exclusive consulting arrangement with Carl Ware, PhD, Sanford Burnham Prebys (discoverer of the LIGHT-signaling network)

**LIGHT**, Lymphotoxin-like, exhibits Inducible expression, and competes with HSV Glycoprotein D for HVEM, a receptor expressed by T lymphocytes; **mAb**, monoclonal antibody; **CD**, Crohn's Disease; **NEA**, non-eosinophilic asthma; **POC**, Proof of concept studies; **COVID-19 ARDS**, SARS-COV2 associated acute respiratory distress syndrome (ARDS); **IBD**, Inflammatory bowel disease; **PEAK trial**, A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Safety and Efficacy of AVTX-002 for the Treatment of Poorly Controlled Non-Eosinophilic Asthma K; **BTLA**, B and T Lymphocyte Attenuator, Ig superfamily checkpoint

# Pipeline

Program	Mechanism of Action	Indication	Designation	Development Stage				Anticipated Milestone
				Preclinical	Phase 1	Phase 2	Phase 3/Pivotal	
Core Programs: Immune Dysregulation Disorders								
AVTX-002	Anti-LIGHT mAb	NEA	–	<div></div>				Phase 2 Topline Data 2Q 2023 <i>(Enrollment Complete)</i>
		Crohn’s Disease	–	<div></div>				*
		COVID-19 ARDS	Fast Track	<div></div>				*
AVTX-008	BTLA agonist fusion protein	Immunoregulatory disorders	–	<div></div>				IND 2024
Other								
AVTX-803	Fucose replacement	LAD II (SLC35C1-CDG)	ODD RPDD Fast Track	<div></div>				Pivotal Trial Data <i>Timing under evaluation</i>

\* The Company will assess the next stage of development for these indications, as well as potentially others, upon or close to data readout of the Phase 2 PEAK trial in NEA.

**ARDS**, acute respiratory distress syndrome; **BTLA**, B and T lymphocyte attenuator, Ig superfamily checkpoint; **CDG**, congenital disorder of glycosylation; **LAD**, leukocyte adhesion deficiency; **LIGHT**, Lymphotoxin-like, exhibits Inducible expression, and competes with HSV Glycoprotein D for **HVEM**, a receptor expressed by **T** lymphocytes; **mAb**, monoclonal antibody; **NEA**, non-eosinophilic asthma; **ODD**, orphan drug designation; **RPDD**, rare pediatric disease designation

# AVTX-002

Anti-LIGHT mAb

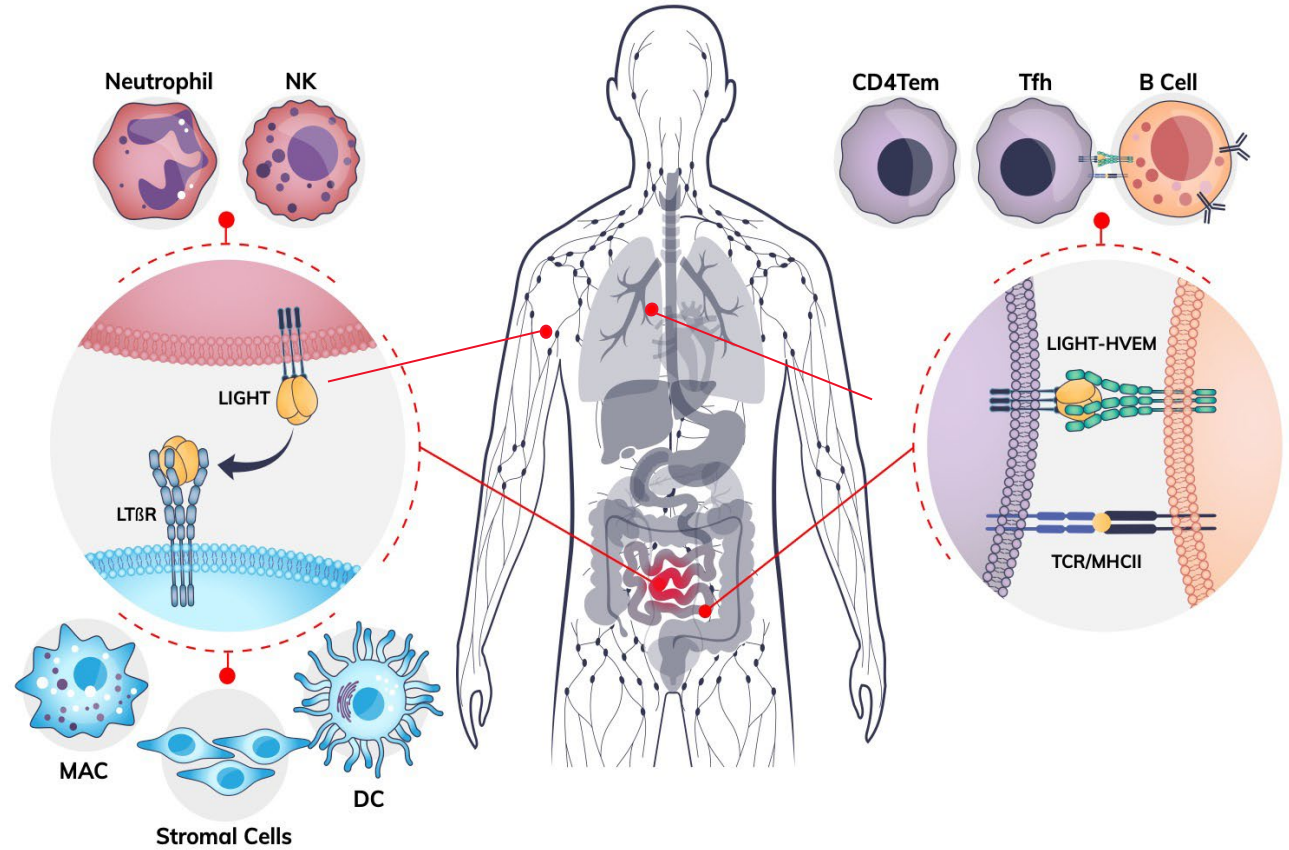


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# LIGHT is a Key Driver of Acute & Chronic Inflammation

- Proinflammatory cytokine in the TNF superfamily
- Key component of a larger immunoregulatory network, including BTLA
- Critical for neutrophil, NK, T & B cell function
- Two primary receptors: LT $\beta$ R, HVEM
- Pivotal role in body “barriers”: lung, gut, skin
- We believe modulating LIGHT can moderate immune dysregulation in many acute and chronic inflammatory disorders

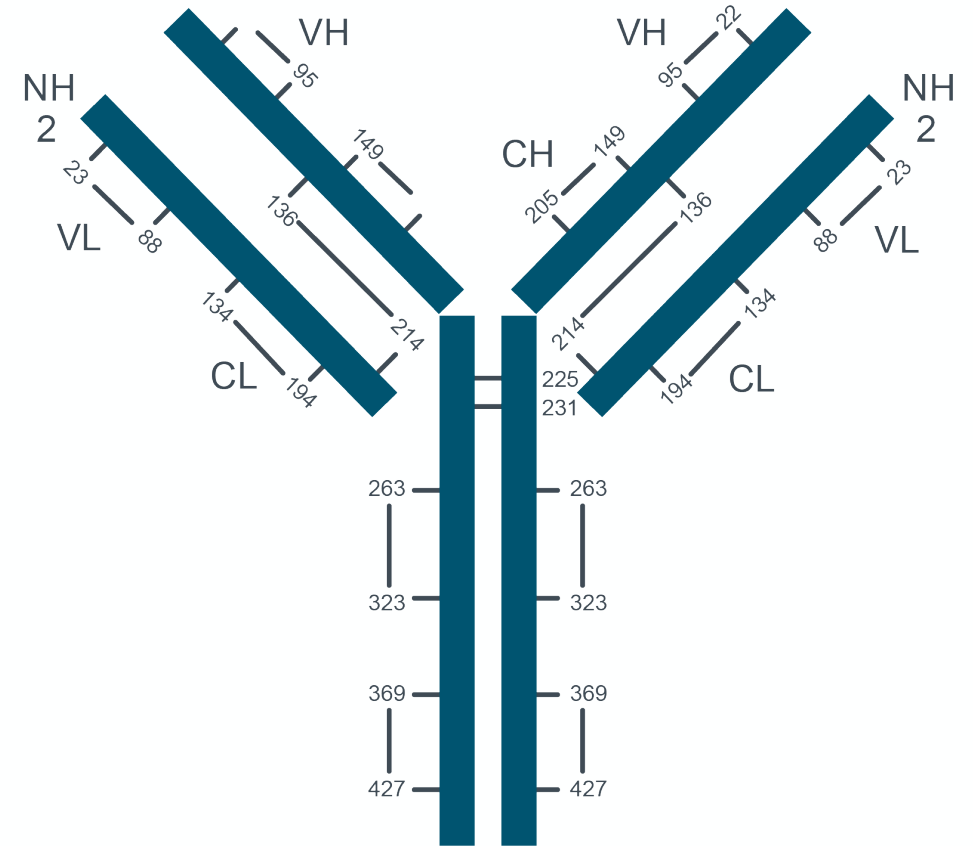


Ware, C., Croft, M., and Neil, G. *J.Exp Med.* 2022 Jul 4;219(7):e20220236. 10.1084/jem.20220236.

**CD4Tem**, CD4 effector-memory T cells; **DC**, dendritic cell; **HVEM**, herpes virus entry mediator; **LT $\beta$ R**, Lymphotoxin beta receptor; **MAC**, macrophage; **NK**, natural killer cell; **Tfh**, T follicular helper cells; **TNF**, tumor necrosis factor

# AVTX-002: First-in-Class Neutralizing Anti-LIGHT mAb

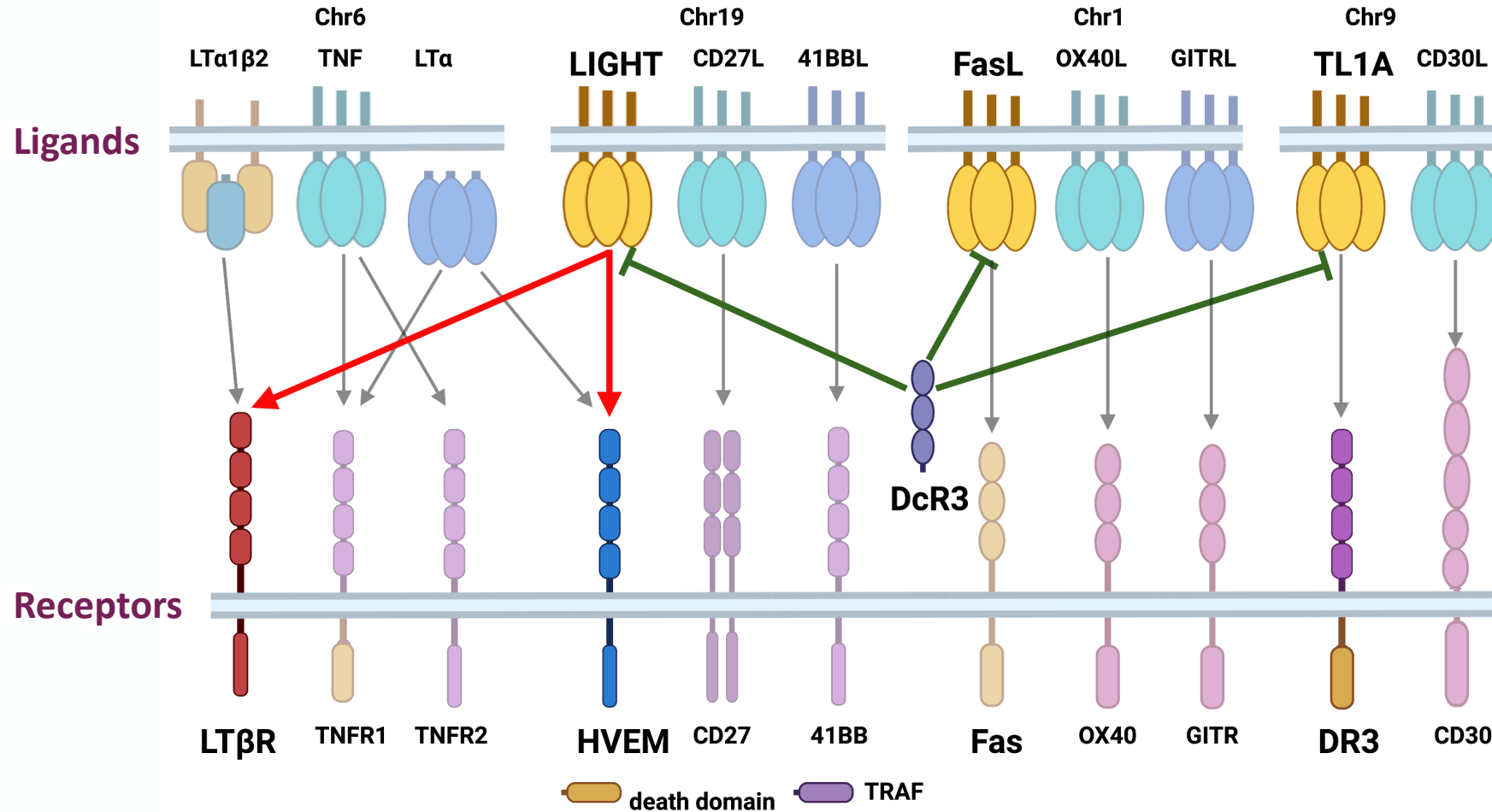
- Fully human monoclonal antibody to LIGHT
- CMC at 2,000 L scale; 6-month toxicology study near completion
- POC in two indications:
  - COVID-19 ARDS
  - Crohn's Disease
- Currently in Phase 2 (POC) for NEA
- Additional indications in immune dysregulation under consideration



CMC, Chemistry, manufacturing and control

# TNF SuperFamily of Ligands (*TNFSF*) and Receptors (*TNFRSF*)

## Inflammation, Immunoregulation and Homeostasis



- LIGHT is a member of a select group of key immunomodulator cytokines (TL1A, FasL) that are “regulated” by Decoy Receptor 3 (DcR3)
- DcR3 loss of function has been associated with autoimmune diseases including Crohn’s disease

C. F. Ware, Ruddle, N.H. TNF Superfamily of Cytokines and Receptors. M. F. Flajnik ed. *Paul's Fundamental Immunology*. Publisher: Wolters Kluwer Health 2022 8th ed. Vol. Ch 10, 308-343.

Cardinale CJ, et al., Targeted resequencing identifies defective variants of decoy receptor 3 in pediatric-onset inflammatory bowel disease. *Genes Immun*. 2013 Oct;14(7):447-52. doi: 10.1038/gene.2013.43. Epub 2013 Aug 22.



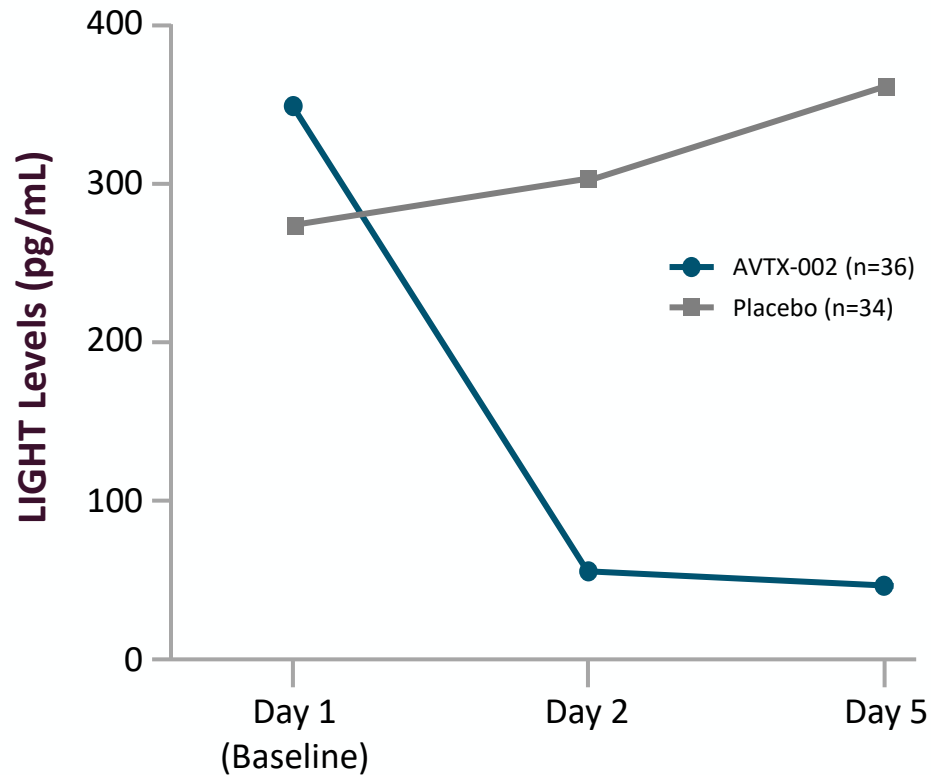
# POC Demonstrated in Phase 2 COVID-19 ARDS Trial

- Demonstrated target engagement: Single-dose rapidly reduced serum free-LIGHT levels by 80%<sup>1</sup>
- Well-tolerated; no increase in serious adverse events vs. placebo<sup>1</sup>
- Evidence of clinically important anti-inflammatory effect in the lung<sup>1</sup>
- Granted Fast Track Designation by FDA
- Potential for benefit in other causes of ARDS and other lung inflammation

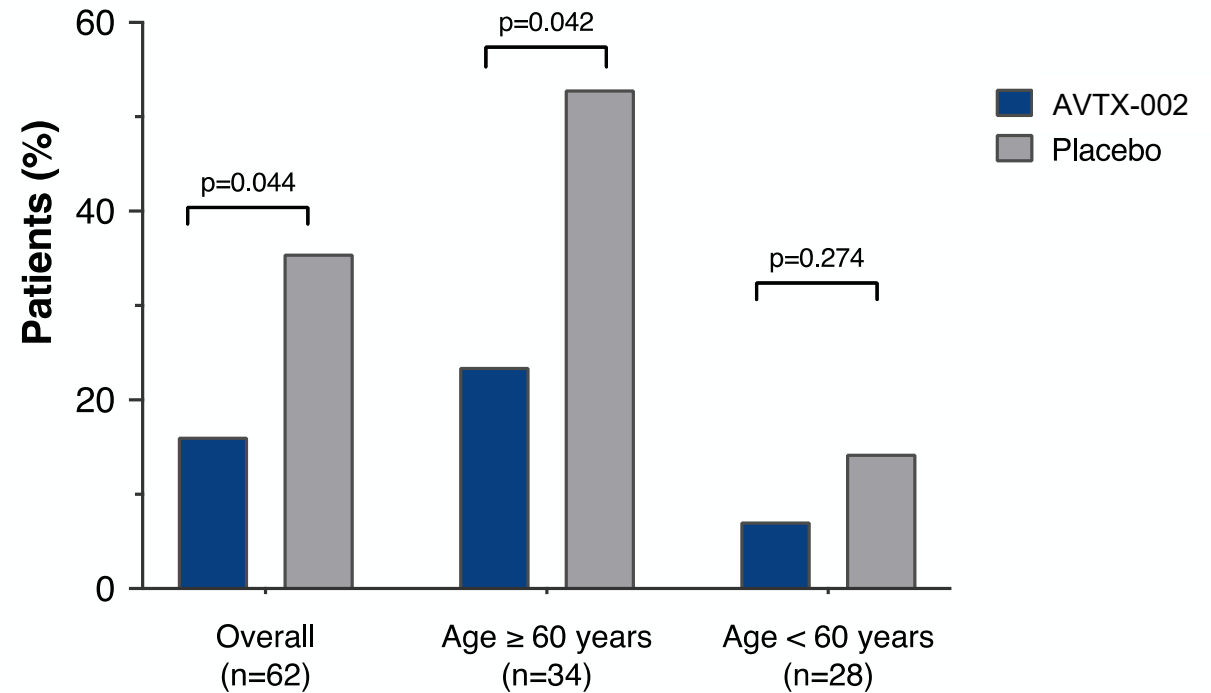
1. Perlin DS et al., Randomized, double-blind, controlled trial of human anti-LIGHT monoclonal antibody in COVID-19 acute respiratory distress syndrome. J. Clin. Invest. 2022

# Significant Reduction in COVID-19 Induced Respiratory Failure and Mortality

LIGHT Levels (pg/mL) Over Treatment Period



Percentage of Patients with Respiratory Failure and/or Death by Day 28



Perlin, D. S. *et al.*, Randomized, double-blind, controlled trial of human anti-LIGHT monoclonal antibody in COVID-19 acute respiratory distress syndrome. *J Clin Invest* (2021) doi:10.1172/jci153173.

# AVTX-002

## Non-Eosinophilic Asthma



# Non-Eosinophilic Asthma

## Patient Population

- US prevalence of asthma  $\simeq$  25M<sup>1</sup>
- NEA accounts for  $\simeq$  47% of asthma<sup>2,3</sup>
- Majority of patients with asthma remain uncontrolled<sup>4</sup>
- Higher need in underserved populations<sup>1</sup>

## Signs and Symptoms<sup>4</sup>

- Asthma symptoms often more severe/resistant to treatment<sup>5</sup>
- Associated with smoking, pollution, infections, obesity<sup>5</sup>

## Treatment Approach<sup>4</sup>

- Standard therapies for asthma; many NEA patients remain uncontrolled<sup>6,7</sup>
- Currently no approved targeted therapies for NEA

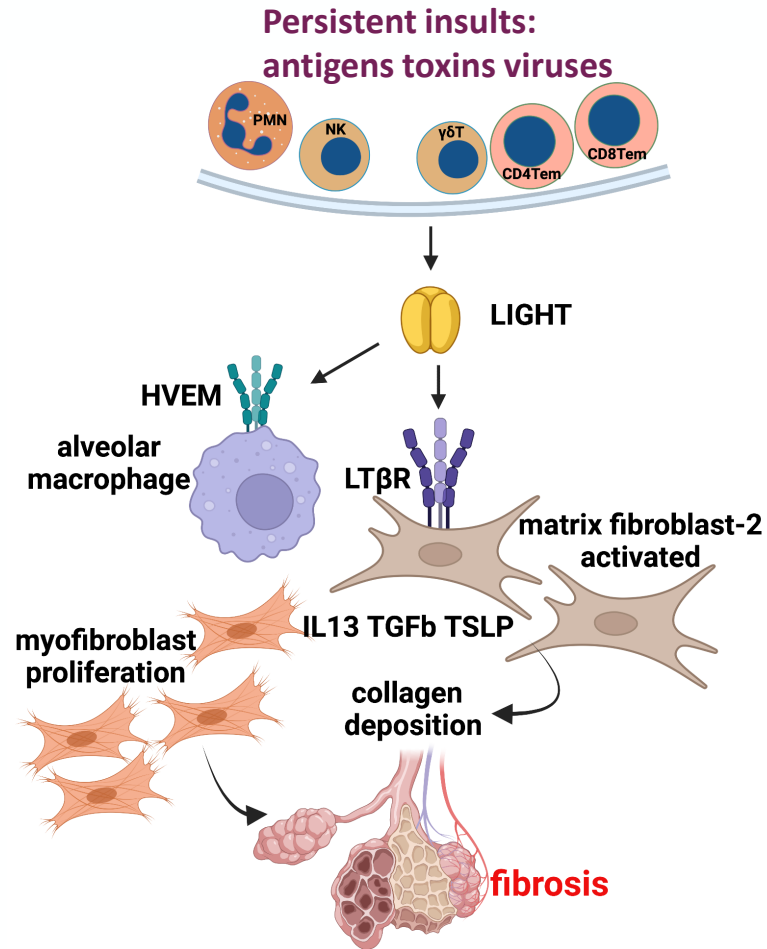
## Rationale for AVTX-002

- Sputum LIGHT levels negatively associated with lung function (FEV and FVC) in asthma<sup>8,9</sup>
- Higher LIGHT levels in sputum in asthma patients with neutrophilia<sup>8</sup>
- Neutrophils have high, pre-formed LIGHT levels<sup>10</sup>

1. Asthma and Allergy Foundation of America. Asthma facts and figures. <https://www.aafa.org/asthma-facts/>. Accessed January 3, 2022; 2. McGrath KW et al., *Am J Resp Crit Care Med*. 2012;185(6):612-619; 3. Jiang Y et al., *Allergy Asthma Clin Immunol*. 2021;17(1):45; 4. Centers for Disease Control and Prevention. AsthmaStats: Uncontrolled asthma among adults, 2016. [https://www.cdc.gov/asthma/asthma\\_stats/uncontrolled-asthma-adults.htm](https://www.cdc.gov/asthma/asthma_stats/uncontrolled-asthma-adults.htm). Accessed January 3, 2022; 5. Carr, T. F., Zeki, A. A. & Kraft, M. Eosinophilic and Noneosinophilic Asthma. *Am J Resp Crit Care* 197, 22–37 (2017); 6. Esteban-Gorgojo I et al., *J Asthma Allergy*. 2018;11:267-281; 7. ClearView Healthcare Partners Analysis, June 2021; 8. Hastie AT et al., *J Allergy Clin Immunol*. 2010;125(5):1028-1036; 9. Romeo J et al., *J Allergy Clin Immunol*. 2013;131(2 Suppl):AB203. Abstract 725; 10. Rørvig et al., *J Leukocyte Biol* 94, 711–721 (2013).

FEV, forced expiratory volume in 1 second; FVC, forced vital capacity

# LIGHT (TNFSF14) in Asthma and Pulmonary Fibrosis



## Human Patients\*

- LIGHT expression in lung inflammatory cells (T and NK cells), alveolar epithelial, fibroblasts, goblet cells
- LIGHT expression in lungs of patients with persistent airflow limitation
- IL-8, IL-19, MMP2, osteopontin associated with high LIGHT immunoreactivity
- LIGHT-positive cells correlate with increased PMN, macrophages in sputum
- Intense immunoreactivity of LIGHT is negatively associated with decreased forced expiratory volume

## Asthma Models\*\*

- Signaling receptors LT $\beta$ R and HVEM expressed in lung fibroblasts, goblet and epithelial cells
- Pharmacological inhibition or gene deletion of LIGHT:
  - Reduces Lung fibrosis, smooth muscle hyperplasia, airway hyperresponsiveness
  - LIGHT inhibition limits lung expression of IL13, TGF $\beta$ , TSLP
  - LT $\beta$ R controls airway smooth muscle deregulation and asthmatic lung dysfunction
  - LIGHT induces inflammatory activation of lung fibroblasts
  - LIGHT promotes differentiation of proinflammatory lung fibroblasts through LT $\beta$ R

**Conclusion: LIGHT is a profibrogenic cytokine in asthma acting through the LT $\beta$ R**

\*Gaddis, LungMAP Portal Ecosystem: Am J Respir Cell Mol Biol doi: 10.1165/rcmb.2022-0165OC; Hirano, Respir Investig 2021 doi: 10.1016/j.resinv.2021.05.011

\*\*Mouse models of asthma induced by antigen, bleomycin or Rhinovirus

Miki J Allergy Clin Immunol 2022 DOI: 10.1016/j.jaci.2022.11.016; Mehta, Allergy 2018 DOI: 10.1111/all.13390; Da Silva Antunes Front Immunol 2018 DOI: 10.3389/fimmu.2018.00576;

Herro, J Allergy Clin Immunol 2015 DOI: 10.1016/j.jaci.2014.12.1936; Doherty, Nat Med 2011 DOI: 10.1038/nm.2356

MMP2, matrix metalloproteinase-2; PMN, polymorphonuclear neutrophils

# AVTX-002 for Treatment of NEA: Phase 2 Trial Design

## PEAK Trial

Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Trial of AVTX-002 in patients with NEA

### Key Inclusion Criteria

- Poorly controlled asthma on LABA\* and ICS<sup>†</sup>
- Exacerbation in the last 24 months
- Blood eosinophil count <300 cells/ $\mu$ L

Final Enrollment  
(n=91)

### Screening

Baseline Visit  
Randomization

AVTX-002 600 mg SC (n=40)

Placebo (n=40)

Discontinue  
LABA\*  
(W2)

Reduce  
ICS<sup>†</sup> 50%  
(W4)

Discontinue  
ICS<sup>†</sup>  
(W6)

30 Day Run-In  
Salmeterol/Fluticasone

Treatment – Days 0, 28, 56

Final Visit

### Primary Endpoint

- Proportion of patients who experience an asthma related event defined as:
  - $\geq 6$  additional reliever puffs of SABA<sup>‡</sup> (compared to baseline) in a 24-hour period on 2 consecutive days, or
  - Increase in ICS<sup>†</sup> dose  $\geq 4$  times than the dose at baseline or,
  - A decrease in peak flow of 30% or more (compared to baseline) on 2 consecutive days of treatment, or
  - An asthma exacerbation requiring the use of systemic corticosteroids (tablets, suspension, or injection) for at least 3 days, or
  - A hospitalization or emergency room visit because of an asthma exacerbation

### Key Secondary/Exploratory Endpoints

- Change in FEV<sub>1</sub><sup>‡</sup> from baseline
- Time to asthma related event
- Change in FeNO<sup>#</sup> from baseline
- Change in ACQ<sup>§</sup> from baseline

Enrollment Complete with  
Phase 2 Topline Data Expected 2Q 2023

\*LABA, long-acting beta-agonist; <sup>†</sup>ICS, inhaled corticosteroid; <sup>‡</sup>SABA, short-acting beta agonist; <sup>‡</sup>FEV<sub>1</sub>, forced expiratory volume in 1 second; <sup>#</sup>FeNO, fractional exhaled nitric oxide; <sup>§</sup>ACQ, asthma control questionnaire.



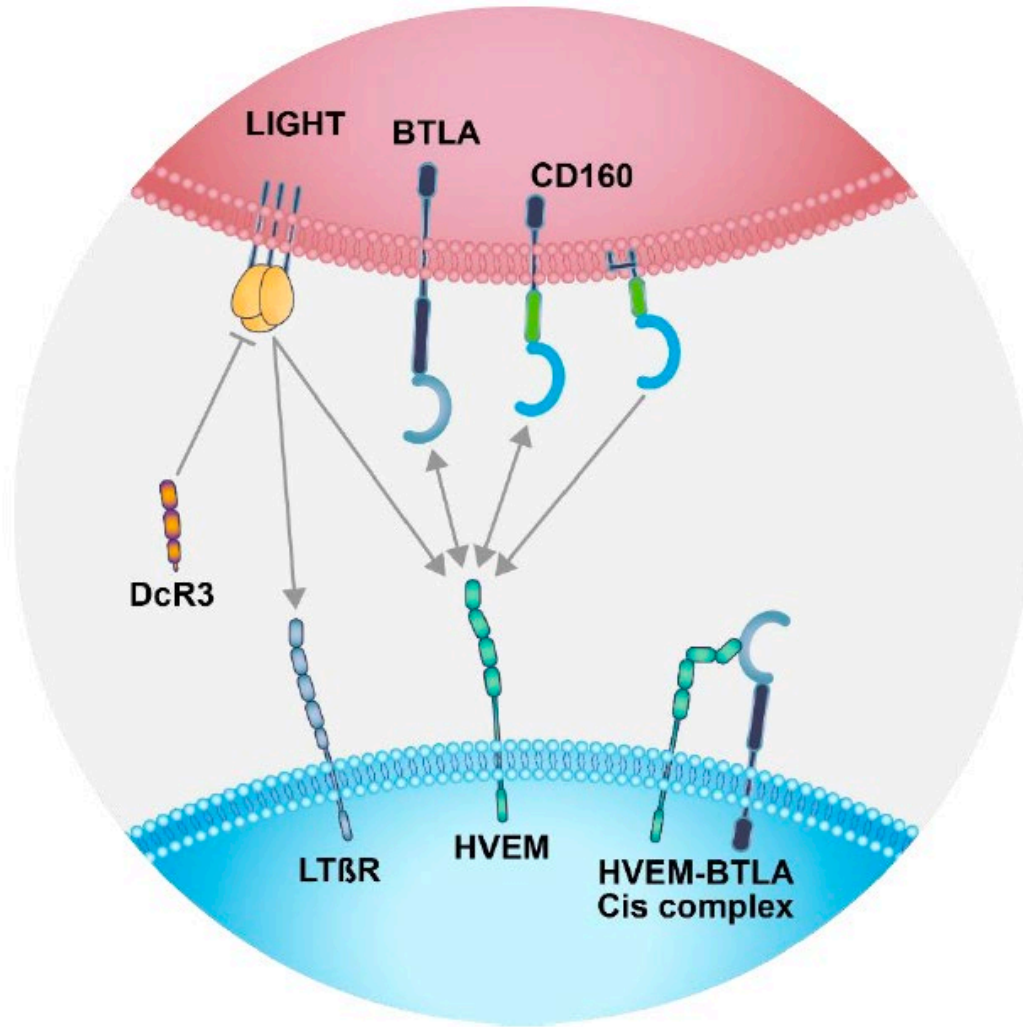
# LIGHT-Signaling Network & AVTX-008

BTLA agonist fusion protein



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# The LIGHT-Signaling Network: A Key Immunoregulatory System



Arrow heads refer to mono and bidirectional signaling

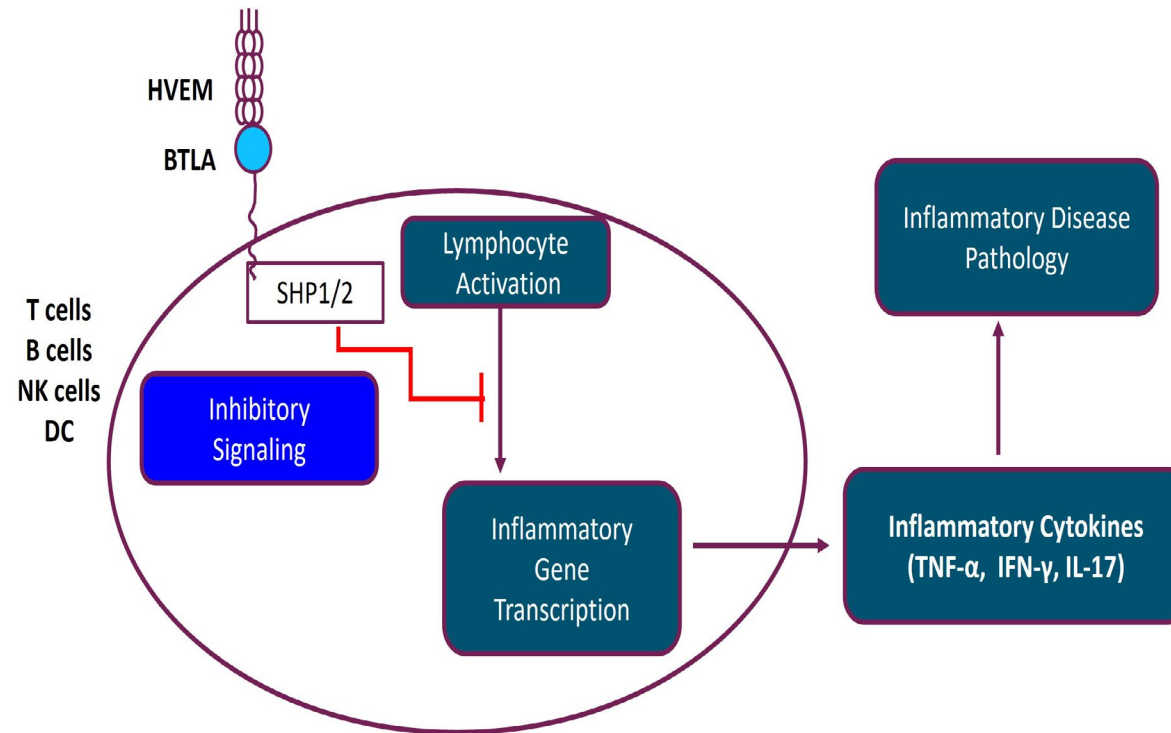
- BTLA - B and T lymphocyte attenuator (Ig superfamily checkpoint)
  - Co-expressed with HVEM in T and B cells
  - “Dampens” the immune response
- LIGHT activates HVEM
  - Inhibits BTLA signaling, allowing immune stimulation
- LIGHT activates LTβR
  - Activates dendritic cells, macrophages, stromal cells
  - Recruits lymphocytes
  - Stimulates antigen presentation & lymphoid organization
- DcR3 inhibits/regulates LIGHT
- CD160 competes with BTLA for HVEM
  - Stimulated immune activation by restricting inhibitory signaling in NK, CTL, Tfh
- BTLA and CD160 can activate HVEM (bidirectional signaling)

Ward-Kavanagh et al., Immunity 2016. Šedý et al., Cold Spring Harb Perspect Biol 2014; Mintz & Cyster Immunol Rev 2020; Ware, C., Croft, M., and Neil, G. J.Exp Med. 2022 Jul 4;219(7):e20220236. 10.1084.

DcR3, decoy receptor 3

# AVTX-008 MOA: Distinct from Other Autoimmune Therapeutics

- Activation of the BTLA inhibitory receptor by its ligand HVEM turns on SHP phosphatases\* limiting lymphocyte activation and inflammatory cytokine signaling



Ward-Kavanagh, et al., Immunity 2016; Ware, C., Croft, M., and Neil, G., J.Exp Med. 2022 Jul 4;219(7):e20220236. 10.1084; Xiaozheng Xu, et al., PD-1 and BTLA regulate T cell signaling differentially and only partially through SHP1 and SHP2. J Cell Biol 1 June 2020; 219 (6): e201905085. doi: <https://doi.org/10.1083/jcb.201905085/jcb.201905085>

\*Includes SHP-1 and SHP-2: **SHP-1**, sarcoma (SRC) homology 2 domain-containing protein tyrosine phosphatase 1; **SHP-2**, SRC homology 2 domain-containing protein tyrosine phosphatase 2

# AVTX-008: BTLA Agonist Fusion Protein

Fully human, bioengineered HVEM, specific and high-affinity agonist for BTLA

## Executive Summary

### MOA

- Novel mechanism of action
- Inhibits lymphocyte activation and effector cells through BTLA

### Unmet Need

- Immunoregulatory disorders: potentially SLE, GVHD and non-responders to TNF inhibitors

### Stage

- IND 2024

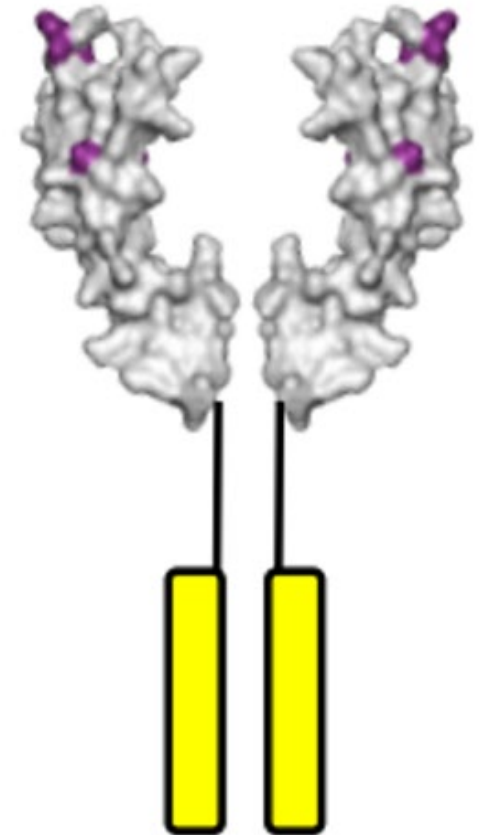
### Clinical Advantages

- Inhibition of inflammatory cytokine production predicts efficacy in patients not responsive to anti-TNF therapy
- Efficacy in murine lupus model excels compared to Abatacept
- Reduced risk of anti-drug response
- Proven modality of Fc fusion proteins: Orencia, Enbrel

### Business Advantages

- Unique BTLA agonist fusion protein
- Exclusive license to portfolio of issue patents and patent applications

SLE, Systemic lupus erythematosus; GVHD, graft-versus-host disease



# World Class Scientific Advisor

- Carl Ware, PhD, Head of Avalo Scientific Advisory Board
  - Director, Sanford Burnham Prebys (SBP) Infectious and Inflammatory Diseases Center
  - Professor, SBP Immunity and Pathogenesis Program
  - Director, SBP Laboratory of Molecular Immunology
- Discoverer of LIGHT-signaling network



# Finance Update



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# Financial & Investor Information

## Key Financial Highlights

### NASDAQ: AVTX

**The following data is as of December 31, 2022**

- Cash and cash equivalents – \$13.2M<sup>1, 2</sup>
- Outstanding common shares – 9.4M<sup>1, 2</sup>
- Fully diluted shares<sup>3</sup> – 11.3M<sup>1, 2</sup>
- Average daily trading volume – 17K

<sup>1</sup>Preliminary, has not been audited and subject to change.

<sup>2</sup>On February 7, 2023, Avalo closed an underwritten public offering of 3,770,000 shares of its common stock and warrants to purchase up to an aggregate of 3,770,000 shares of common stock for gross proceeds of \$15 million, which is not included above.

<sup>3</sup>Based on shares of common stock outstanding and common stock underlying outstanding warrants and outstanding options.

# Experienced Management Team

Decades of successful leadership, product development, and commercialization in pharma and biotech



**Garry A. Neil, MD**  
Chief Executive Officer  
Chairman of the Board



**Chris Sullivan**  
Chief Financial Officer



**Lisa Hegg, PhD**  
SVP, Program Management,  
Corporate Infrastructure



**Colleen Matkowski**  
SVP, Global Regulatory Affairs,  
Quality Assurance



**Dino C. Miano, PhD**  
SVP, CMC,  
Technical Operations



GlaxoSmithKline



# Avalo Therapeutics (AVTX)



Portfolio emphasizing potential high value, first-in-class biologics focused on dysregulated inflammation via the LIGHT-signaling network



AVTX-002 (anti-LIGHT mAb) completed enrollment in Non-Eosinophilic Asthma PEAK trial – Phase 2 topline data expected 2Q23; POC completed in COVID-19 ARDS and CD



AVTX-008 (BTLA agonist fusion protein) – IND 2024



Exclusive consulting arrangement with Carl Ware, PhD, Sanford Burnham Prebys (discoverer of the LIGHT-signaling network)

# Appendix



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# AVTX-803

Leukocyte Adhesion Deficiency Type II  
(LAD II, also known as SLC35C1-CDG)



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# AVTX-803: Leukocyte Adhesion Disorders (LAD II)

LAD Type II: Absence of sialyl Lewis X of E-selectin (*SLC35C1* mutation)

## Overview

### Patient Population

- Ultra-orphan disease: worldwide prevalence ~10-20 pt
- Nonfunctional GDP-fucose transporter with decreased fucosylation
- Absence of sialyl Lewis X (CD15a) expression

### Signs and Symptoms

- Facial dysmorphism/growth & cognitive impairment
- Recurrent bacterial infections due to neutrophil dysfunction

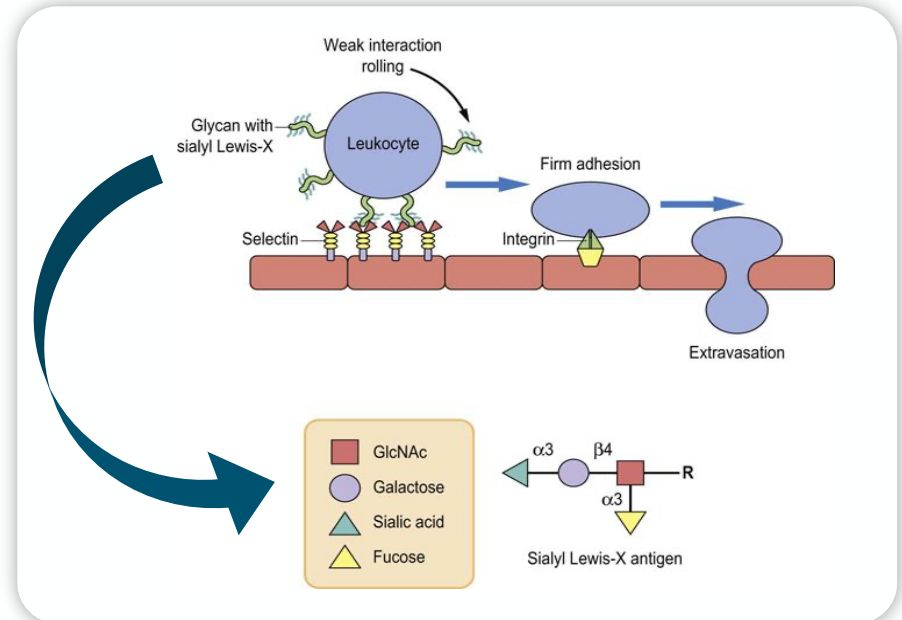
### Diagnosis/Evaluation

- Flow cytometry for sialyl Lewis X (CD15a) expression
- Leukocytosis/neutrophil function assay
- H antigen expression (for pharmacodynamic effect)

### Treatment

- Currently no FDA-approved treatment; patients use OTC fucose
- AVTX-803 granted orphan drug, Fast Track & Rare Pediatric Disease designations

## LAD II (*SLC35C1*-CDG) Pathophysiology



- Type II (LAD II) caused by LOF mutation in *SLC35C1* gene resulting in the inability to fucosylate certain critical proteins
- Absence of sialyl Lewis X results in neutrophil dysfunction

**AVTX-803 is an oral formulation of fucose that seeks to enhance fucosylation of proteins in the absence of a functioning GDP-fucose transporter, partially restoring protein function**



# AVTX-803 (fucose) for LAD II (SLC35C1-CDG): Pivotal Trial Design

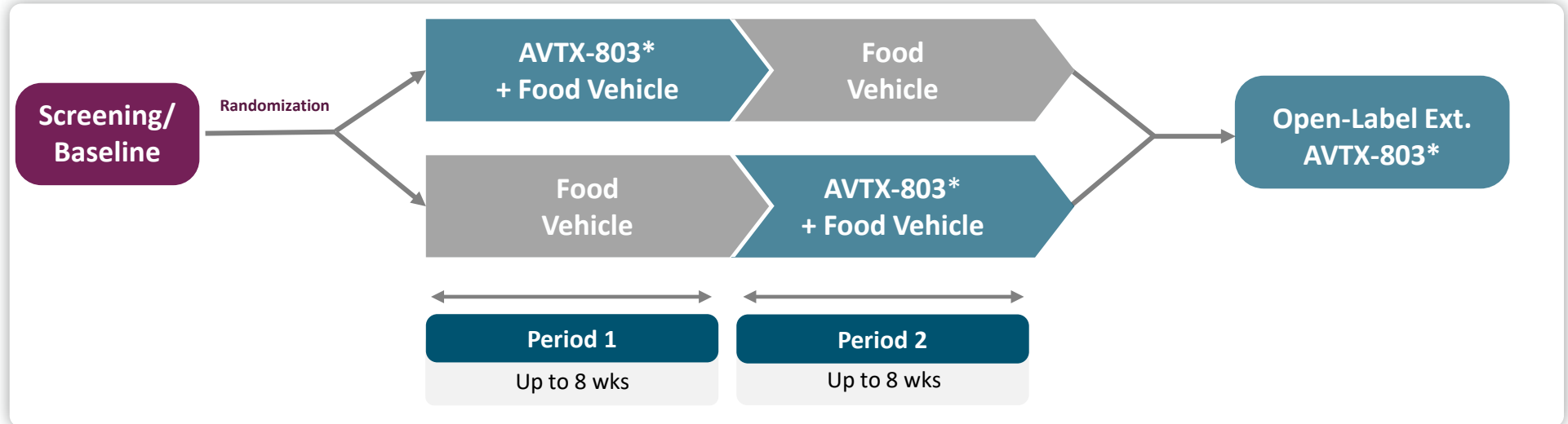
## LADDER Trial Design

Single-Center (US), Double-Blind (plus Open-Label Extension) Pivotal Trial of AVTX-803 in patients with LAD II (SLC35C1-CDG)

### Key Inclusion Criteria

- Known *SLC35C1* mutation
- Previous known response to fucose

Estimated Enrollment  
(n=2)



### Primary Endpoint

- Restoration of sialyl Lewis X biomarker

### Key Secondary/Exploratory Endpoints

- Leukocyte function assay
- Neutrophil counts

**Pivotal Trial Data**  
*Timing under evaluation*

\*100-340 mg/kg up to 5x/d based on clinical response

# AVTX-002

TNF SuperFamily



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# TNF SuperFamily: Proven Target-rich Opportunities

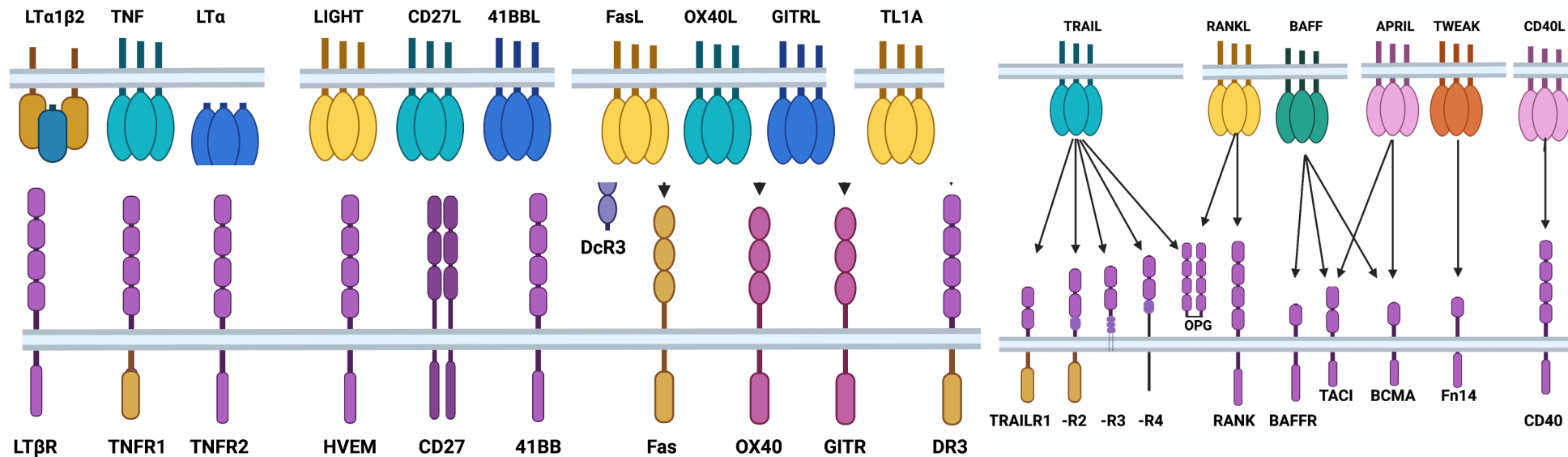
**TNF inhibitors (Autoimmune)**  
*Humira Cimzia Remicade*  
*Simponi ENBREL*

**LIGHT inhibitor**  
**AVTX-002**

**TL1A inhibitors**  
**PRA023**  
**PF-06480605**

**RANKL inhibitor**  
*Prolia*  
**osteoporosis**

**BAFF inhibitor**  
*Benlysta*



**HVEM mimetics - BTLA agonists:**  
**AVTX-008, LY3361237, MB272, ANB032**

**41BB signaling**  
**CAR-T Cancer**

**OX40 agonists**  
**Cancer**

**GITR antagonist**  
**Treg modulation**

**TRAILR agonists**  
**Cancer**

# AVTX-002

## Crohn's Disease Phase 1b Proof of Concept Trial



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# Efficacy Signal Observed in Crohn's Disease Phase 1b Proof of Concept Trial

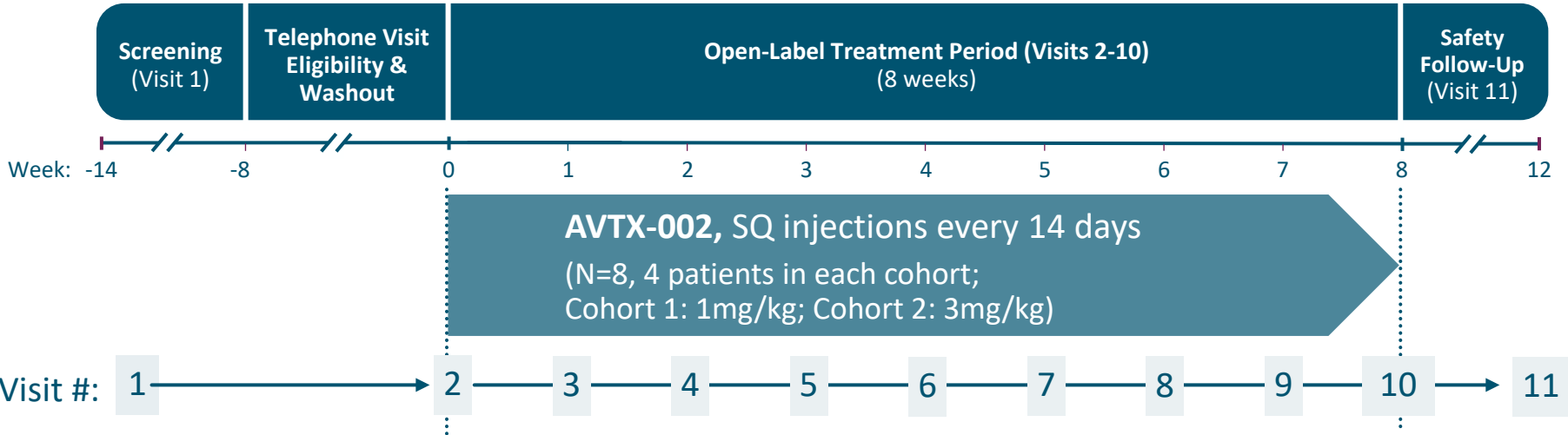
- Phase 1b Escalating Dose, Open-Label, Signal-Finding Trial to Evaluate the Safety, Tolerability, and Short-Term Efficacy of the Anti-Light Monoclonal Antibody AVTX-002 in Adults with Moderate to Severe Active Crohn's Disease (CD) who have Failed Prior Treatment with an Anti-TNF $\alpha$  Agent
- Rapid reduction in serum free LIGHT levels
- Well-tolerated: no drug-related serious adverse events observed
- Clinically meaningful mucosal healing signal observed
  - 3 out of 7 patients demonstrated evidence of mucosal healing as determined by colonoscopy and adjudicated by a central reader
  - One patient (1/7) achieved remission (SES-CD = 0)

<sup>1</sup>TNF $\alpha$ , tumor necrosis factor alpha; <sup>2</sup>SES-CD, Simple Endoscopic Score for Crohn's Disease

# AVTX-002 Crohn's Disease Phase 1b, Proof of Concept Trial Design

## Phase 1b Proof of Concept Trial Design

Open-Label, Phase 1b POC Clinical Trial of AVTX-002 in adults with moderate-to-severe, active Crohn's disease who have previously failed anti-tumor necrosis factor alpha (anti-TNFα) treatment



### Primary Objectives/Endpoints

- Safety
- Tolerability

### Key Secondary/Exploratory Objectives/Endpoints

- Pharmacokinetics
- Short-term efficacy – as measured by SES-CD\*, CDAI<sup>†</sup>, and IBDQ<sup>‡</sup> scores

### Inclusion Criteria

- Moderate-to-severe disease
- Anti-TNFα failure
- Heavily pre-treated patients
- Dose escalation starting at 1mg/kg every 2 weeks
- Short duration (8 weeks)
- SES-CD\* score ≥7

\* SES-CD, Simple Endoscopic Score for Crohn's Disease; † CDAI, Crohn's Disease Activity Index; ‡ IBDQ, Inflammatory Bowel Disease Questionnaire;

