

NASDAQ: KOD

KODIAK.COM

# KODIAK

THE OPHTHALMOLOGY MEDICINES COMPANY

**A First-in-Class Investigational Bispecific Intravitreal Biologic for the Treatment of Macular Edema Secondary to Inflammation (MESI)**

International Ocular Inflammation Society 2025

# Forward-Looking Statements

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These slides contain "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, Section 21E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. These forward-looking statements are not based on historical fact and include statements regarding: the progress and anticipated benefits of our ABC platform; the prospects, anticipated milestones and potential benefits of the candidates in our pipeline, including tarcocimab, KSI-501, KSI-101, KSI-102 and KSI-103; the expected enhancements and benefits of a new formulation; our ability to successfully execute on our manufacturing development plan; the timing and success of our planned Biologics License Application ("BLA") package; the timing of anticipated data readouts; and the timing of initiation of Phase 3 PEAK and PINNACLE studies. Forward-looking statements generally include statements that are predictive in nature and depend upon or refer to future events or conditions, and include words such as "may," "will," "should," "would," "could," "expect," "plan," "believe," "intend," "pursue," and other similar expressions among others. Any forward-looking statements are based on management's current expectations of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. The risks and uncertainties include, but are not limited to: the risk that cessation or delay of any of the on-going clinical studies and our development of tarcocimab, KSI-501 or KSI-101 may occur; the risk that ongoing clinical trial results may not provide the evidence, insights, or benefits as anticipated; the risk that safety, efficacy, and durability data observed in our product candidates in current or prior studies may not continue or persist; the risk that the results of the tarcocimab Phase 3 studies may not be sufficient to support a single BLA submission for DR, RVO and wet AMD; the risk that a BLA may not be accepted by, or receive approval from, the FDA or foreign regulatory agencies when expected, or at all; future potential regulatory milestones of tarcocimab, KSI-501 or KSI-101, including those related to current and planned clinical studies, may be insufficient to support regulatory submissions or approval; the risk that a new formulation of tarcocimab, KSI-501 or other ABC Platform derived molecules may not provide the benefits expected; our research and development efforts and our ability to advance our product candidates into later stages of development may fail; the risk that KSI-501 may not inhibit VEGF and IL-6 or have an impact on the treatment of patients as expected; any one or more of our product candidates may not be successfully developed, approved or commercialized; our manufacturing facilities may not operate as expected; adverse conditions in the general domestic and global economic markets, which may significantly impact our business and operations, including our clinical trial sites, as well as the business or operations of our manufacturers, contract research organizations or other third parties with whom we conduct business; as well as the other risks Identified in our filings with the Securities and Exchange Commission. For a discussion of other risks and uncertainties, and other important factors, any of which could cause our actual results to differ from those contained in the forward-looking statements, see the section entitled "Risk Factors" in our most recent Form 10-Q, as well as discussions of potential risks, uncertainties, and other important factors in our subsequent filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date hereof and Kodiak undertakes no obligation to update forward looking statements, and readers are cautioned not to place undue reliance on such forward-looking statements. Kodiak®, Kodiak Sciences®, ABC®, ABC Platform®, and the Kodiak logo are registered trademarks or trademarks of Kodiak Sciences Inc. in various global jurisdictions.

A vertical panel on the left side of the slide features a light blue background with a faint, repeating pattern of microscopic cells, likely representing biological or pharmaceutical research.

**Victor Perloth, MD**  
CEO, Kodiak Sciences

# Kodiak Today

### Three late-phase clinical assets



Advancing in parallel across a broad spectrum of retinal diseases in growing markets.

On track for phase 1b data in 2025 and Phase 3 topline data in 2026

### Dedicated commercial scale manufacturing facility



Custom designed, commercial scale manufacturing facility dedicated to the premium manufacture of Kodiak's ABC<sup>®</sup> medicines.

Commissioned as a cGMP facility in 2023

### BLA filing preparation



On track towards our goal of filing a single BLA for tarcocimab in the 3 large indications of wet AMD, retinal vein occlusion and diabetic retinopathy in 2026.

BLA-facing data for KSI-501 and KSI-101 is expected 2026

### Visual engagement platform



Visual engagement technology and imager (VETi), an autonomous AI- and machine-learning-enabled headset that engages directly into the eye for retina disease management & long-term health engagement

### Robust pipeline program



Kodiak's next set of investigational therapies targeting glaucoma and geographic atrophy, built on the ABC<sup>®</sup> platform, enabling an even larger group of high unmet need diseases and patients

# Kodiak is a precommercial, retina-focused biotech with a maturing portfolio in retinal vascular disease and in ocular inflammation

	MOA	Indication/MOA	Pre-clinical	Pre-IND	Phase 1/2	Phase 3	
<b>Tarcocimab</b>	Anti-VEGF Antibody Biopolymer Conjugate (ABC)	Diabetic Retinopathy	→				<ul style="list-style-type: none"> <li>GLOW1 primary endpoint met</li> <li>GLOW2 topline data expected Q1 2026</li> </ul>
		Wet AMD	→				<ul style="list-style-type: none"> <li>DAYLIGHT primary endpoint met</li> <li>DAYBREAK actively enrolling; topline data expected mid-2026</li> </ul>
		RVO	→				<ul style="list-style-type: none"> <li>BEACON primary endpoint met</li> </ul>
<b>KSI-501</b>	Anti-IL-6, VEGF Trap ABC	Wet AMD	→				<ul style="list-style-type: none"> <li>DAYBREAK actively enrolling</li> <li>Topline data expected mid-2026</li> </ul>
<b>KSI-101</b>	Anti-IL-6, VEGF Trap Protein	Macular Edema Secondary to Inflammation (MESI)	→				<ul style="list-style-type: none"> <li>Phase 1b APEX study ongoing</li> <li>Emerging APEX data 2Q and 3Q 2025</li> <li>On track to initiate Phase 3 PEAK and PINNACLE studies in 2Q 2025</li> </ul>
<b>KSI-102</b>	Anti-IL-6, anti-TNF- $\alpha$ Protein	Inflammation	→				<ul style="list-style-type: none"> <li>Entering IND enabling studies</li> </ul>
<b>KSI-103</b>	Anti-IL-6, anti-IL-1 Protein	Inflammation	→				

# Three late-stage clinical assets across a broad spectrum of retinal diseases

Phase 3

## TARCOCIMAB

*Anti-VEGF ABC<sup>®</sup> for patients with retinal vascular disease*



- **Compelling 6-month predominant durability demonstrated** across three completed phase 3 studies (DR, RVO and wet AMD)
- **Enhanced formulation** designed for high immediacy and high durability
- Phase 3 GLOW2 DR topline data in 1Q2026
- Phase 3 DAYBREAK wet AMD topline data in mid-2026

Phase 3 / First-in-class

## KSI-501

*Anti-IL-6 VEGF trap bispecific ABC<sup>®</sup> for patients with retinal vascular disease*



- **Dual inhibition of IL-6 and VEGF with potential for additional efficacy beyond anti-VEGF monotherapies** while maintaining signature durability of ABC platform
- **Enhanced formulation** designed for high immediacy and high durability
- Phase 3 DAYBREAK wet AMD topline data in mid-2026

Phase 1b / First-in-class

## KSI-101

*High-strength anti-IL-6 anti-VEGF bispecific protein for macular edema secondary to inflammation*



- **High-strength, dual inhibition of IL-6 and VEGF for potent control of macular edema secondary to inflammation (MESI)**
- Unmet need with no approved biologic therapy today
- Phase 1b APEX in patients with MESI, data presentation planned for July 2025
- Phase 3 PEAK and PINNACLE studies in MESI on track to start in 2Q25

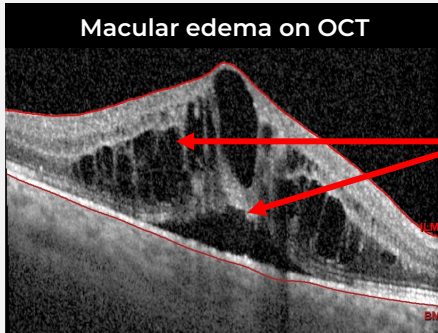
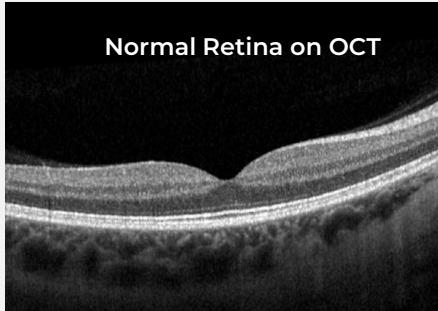
A background image showing a microscopic view of cells, likely retinal cells, with a light blue and white color scheme. The cells are arranged in a somewhat circular pattern, with some showing distinct nuclei and cytoplasm.

**Lyndell Lim**  
MBBS, DMedSci

# KSI-101

A First-in-Class Investigational Bispecific  
Intravitreal Biologic for the Treatment of  
Macular Edema Secondary to  
Inflammation (MESI)

# Macular edema is the leading cause of vision loss among patients with ocular inflammation

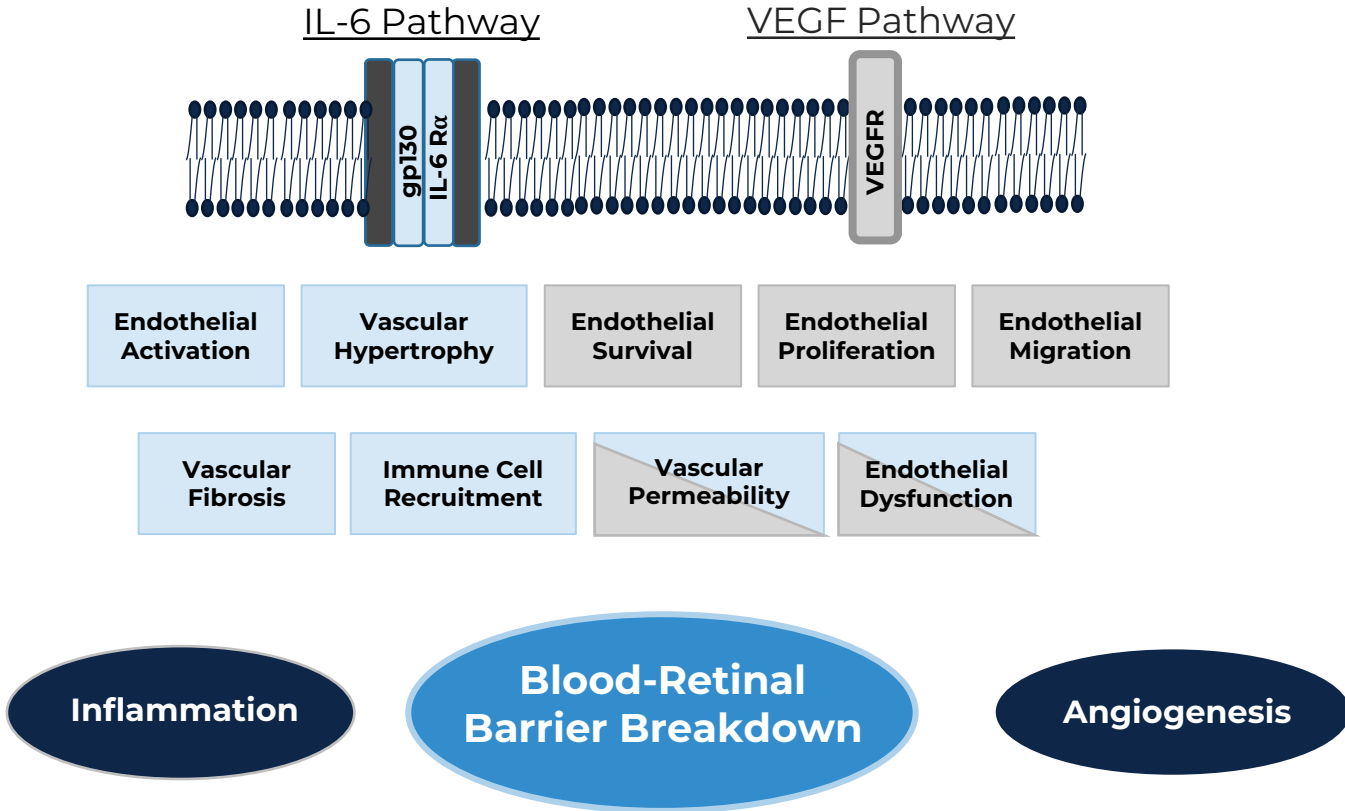


Fluid that leaked into the retina causing macular edema

- Ocular inflammation is the 4<sup>th</sup> leading cause of vision loss among working aged adults in the developed world<sup>1</sup>
- Approximately 1/3 of patients with ocular inflammation develop macular edema in the U.S.<sup>2</sup>
- Macular edema is the leading cause of vision loss among patients with ocular inflammation

1. *Br J Ophthalmol.* 2004;88(9):1159-1162. 2. Tomkins-Netzer O, et al. *Ophthalmology.* 2021 May;128(5):719-728.

# IL-6, a proinflammatory cytokine, and VEGF play key roles in driving the accumulation of fluid in the retina

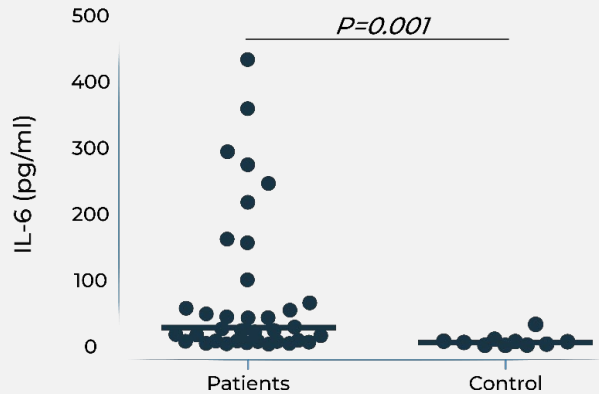


# Both IL-6 and VEGF levels are elevated in patients who have ocular inflammation and macular edema

## IL-6

- IL-6 levels are elevated in patients with ocular inflammation and further elevated in patients with inflammatory macular edema

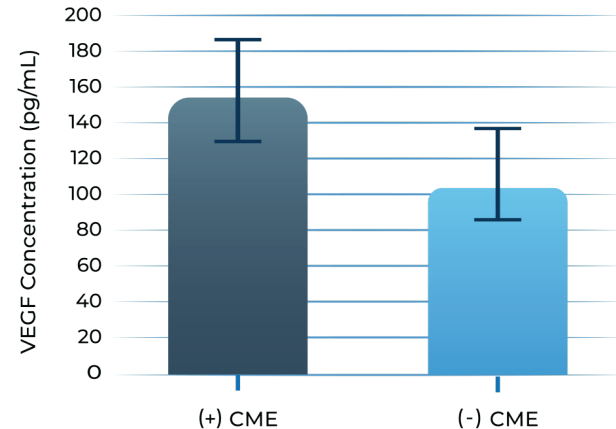
Aqueous humor IL-6 levels in patients with intermediate uveitis<sup>1</sup>



## VEGF

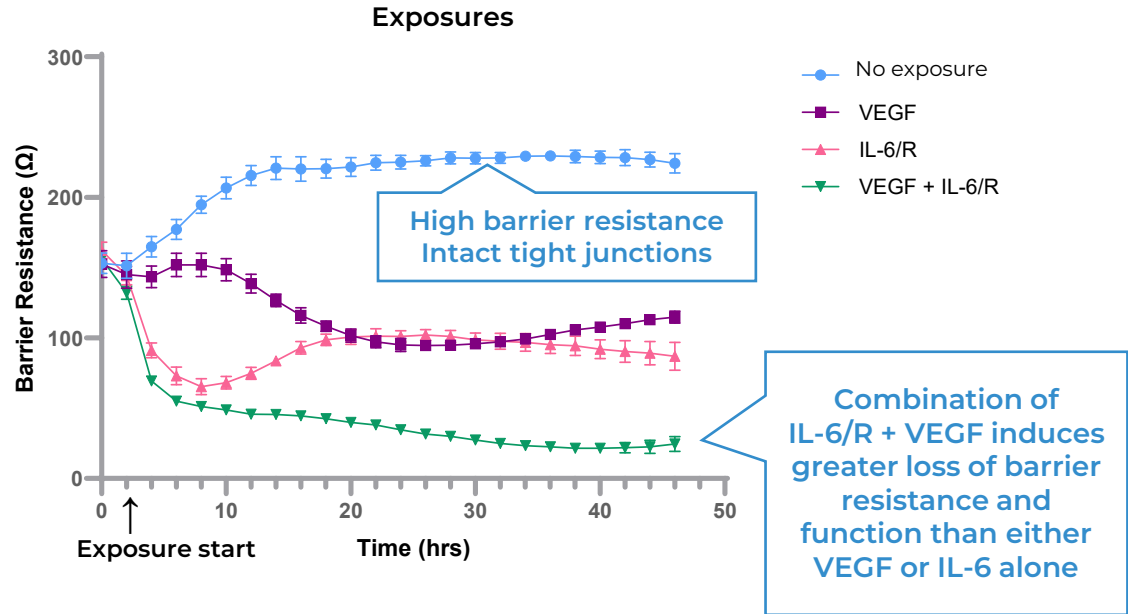
- Persistent inflammation triggers VEGF upregulation. VEGF levels are found to be elevated in eyes with inflammatory macular edema

VEGF levels in aqueous humor of uveitis patients with macular edema vs without macular edema<sup>2</sup>



# IL-6 and VEGF each disrupt the blood-retinal barrier independently. When combined, they cause an even greater loss of barrier integrity

- Ocular inflammation damages tight junctions between endothelial cells, compromising the integrity of the BRB. This increases vascular permeability<sup>1</sup>
- The integrity of the blood-retinal barrier can be measured by barrier resistance
- Exposure to both IL-6/R and VEGF **additively induces greater loss in barrier function**, as measured by decreased barrier resistance, than either IL-6 or VEGF alone, in human umbilical vein endothelial cells (HUVEC)

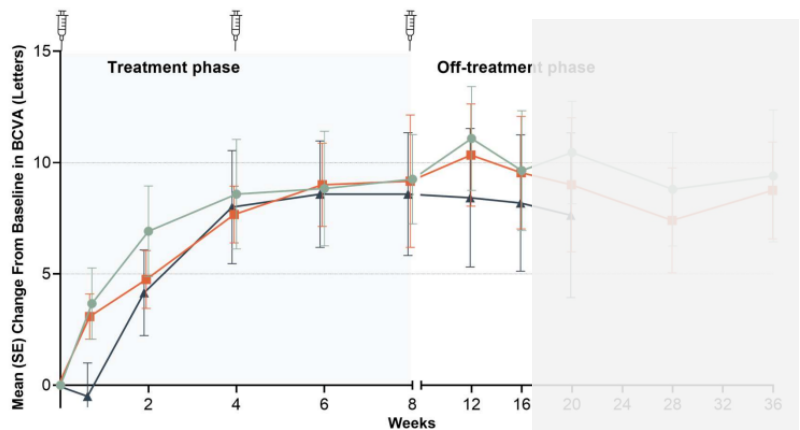


HUVEC cells were treated as indicated after growth to establish barrier

1. Viores SA. Encyclopedia of the Eye. 2010:216–22.  
BRB: blood-retinal barrier.

# Vamikibart (Roche, anti-IL-6) has shown that anti-IL-6 monotherapy can provide visual and anatomical improvement in patients with inflammatory macular edema

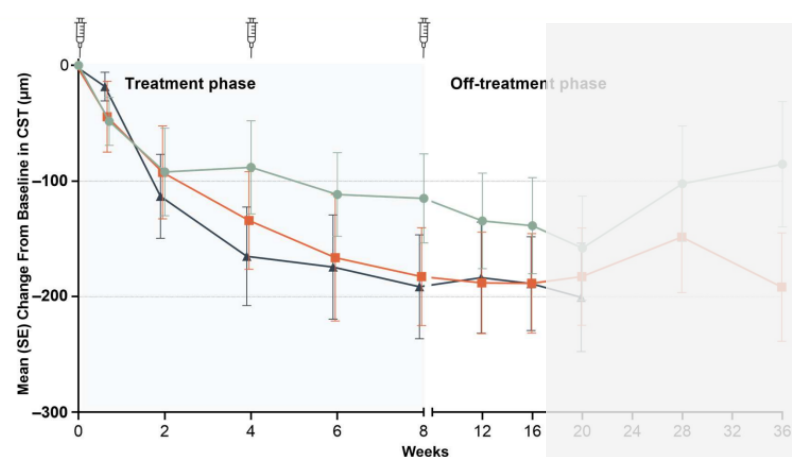
Change from Baseline in BCVA



Sample size	0	2	4	6	8	12	16	20	24	28	32	36
0.25 mg (n)	12	12	12	12	12	12	11	11	10	10		10
1 mg (n)	12	12	12	12	11	12	12	11	11	10		8
2.5 mg (n)	13	12	13	12	12	12	11	11	10	8		

2.5 mg cohort last F-up is W20

Change from Baseline in CST

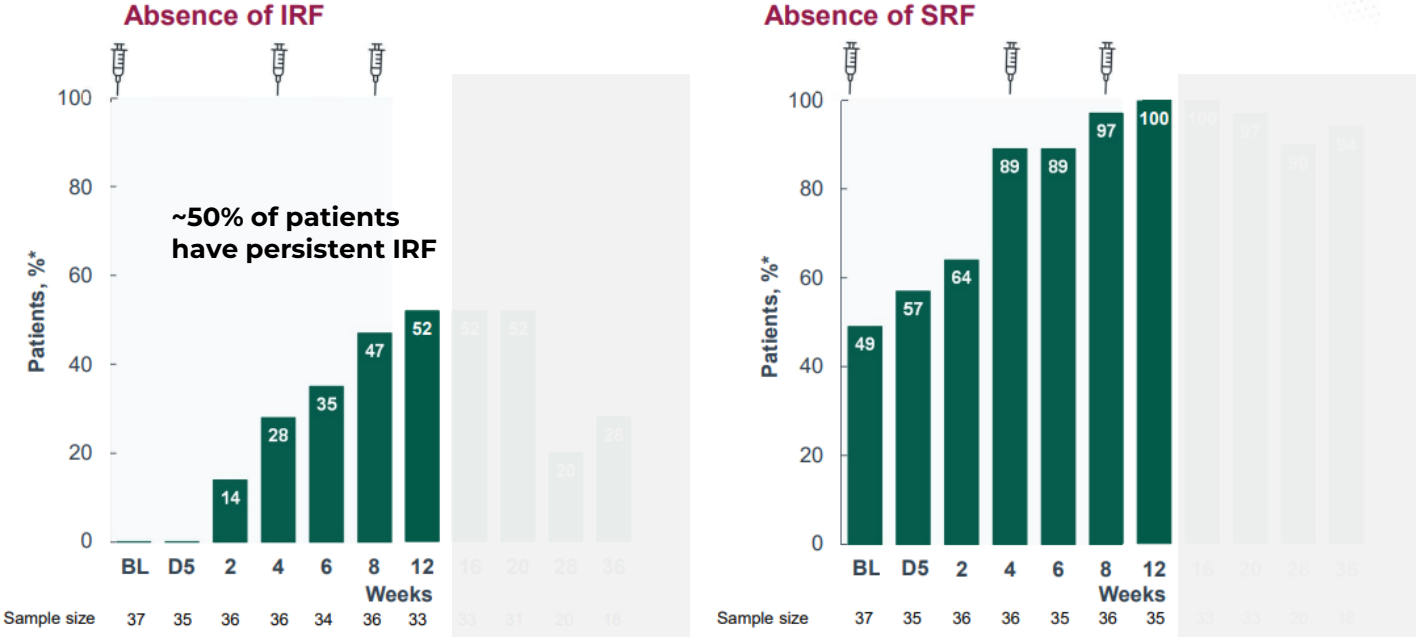


Sample size	0	2	4	6	8	12	16	20	24	28	32	36
0.25 mg (n)	12	12	12	12	12	12	11	11	10	10		9
1 mg (n)	12	12	12	12	11	12	12	11	10	10		8
2.5 mg (n)	13	11	12	12	12	12	11	11	11	10		

2.5 mg cohort last F-up is W20

A clear dose response is seen with IL-6 monotherapy in patients with inflammatory macular edema

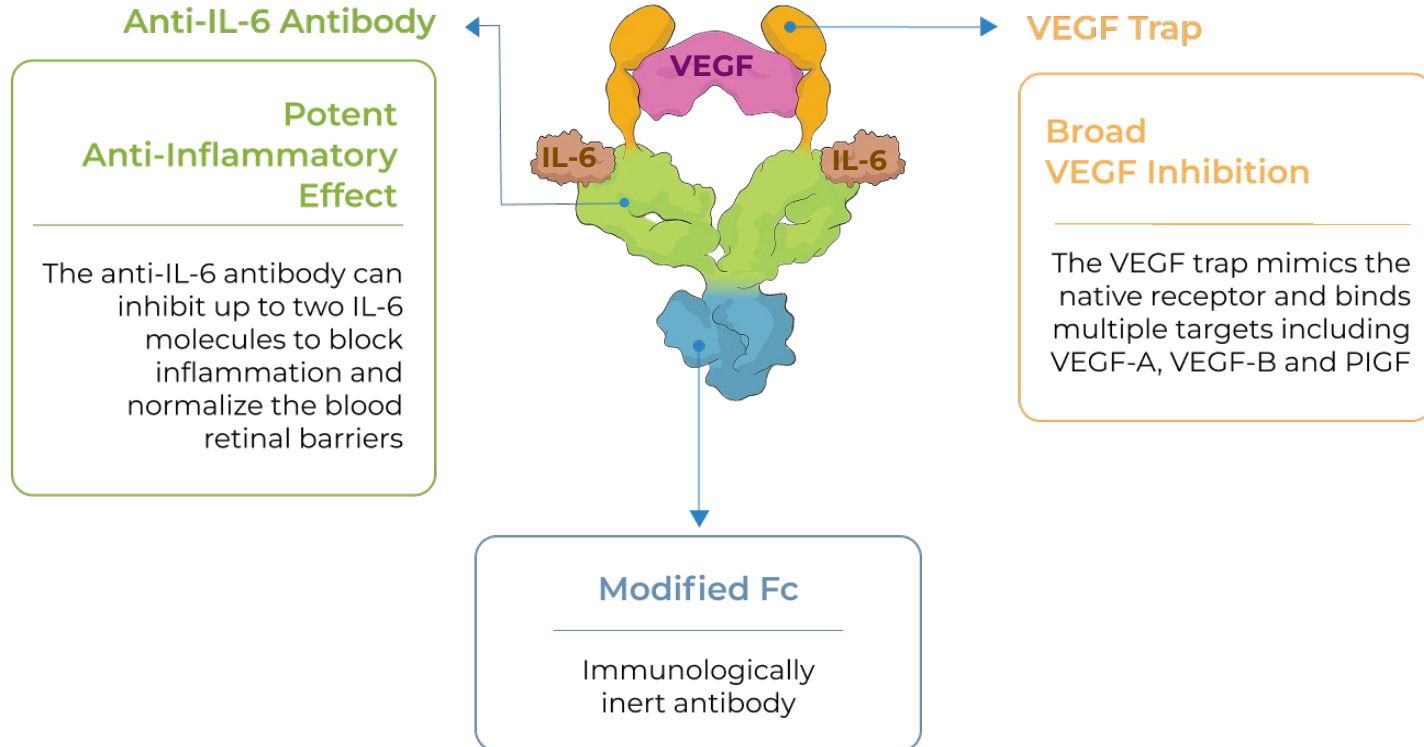
# While intravitreal IL-6 monotherapy is helpful, 50% of patients have persistent IRF, similar to the overall failure rate of systemic adalimumab<sup>1</sup>, leaving room for a more potent therapy



**Persistent intraretinal fluid (IRF) is known to cause deleterious and permanent effects on visual function**

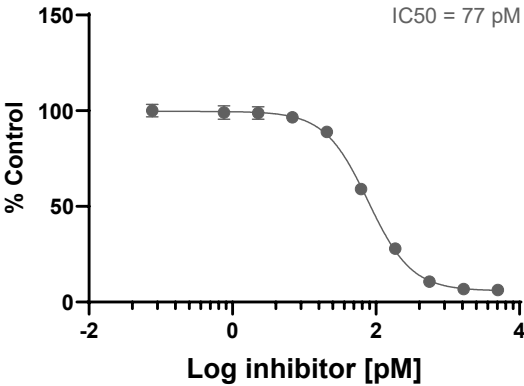
# KSI-101 is a first-in-class, high-strength intravitreal biologic designed to target IL-6 mediated inflammation and VEGF-mediated vascular permeability simultaneously

KSI-101: high formulation strength (100 mg/mL)

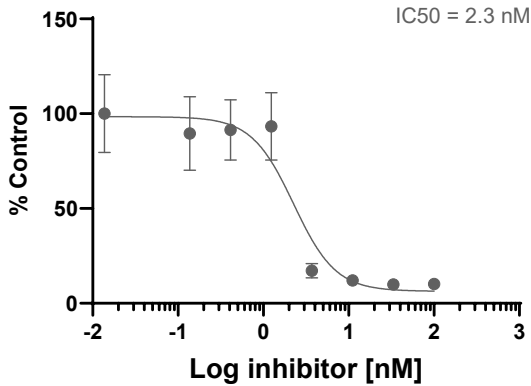


# KSI-101 is a potent dual inhibitor of VEGF signaling and IL-6 classic (cis) and soluble (trans) receptor-mediated pathways

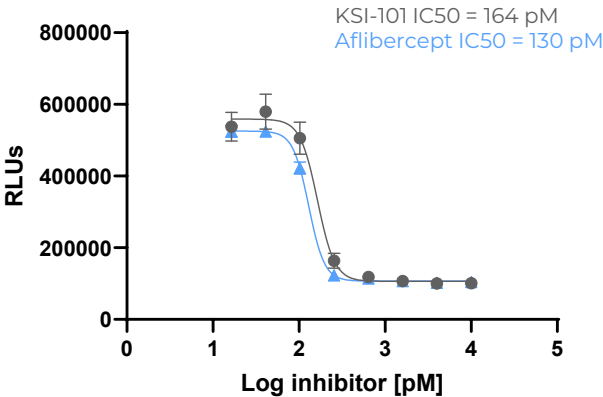
KSI-101 inhibits IL-6 classic signaling



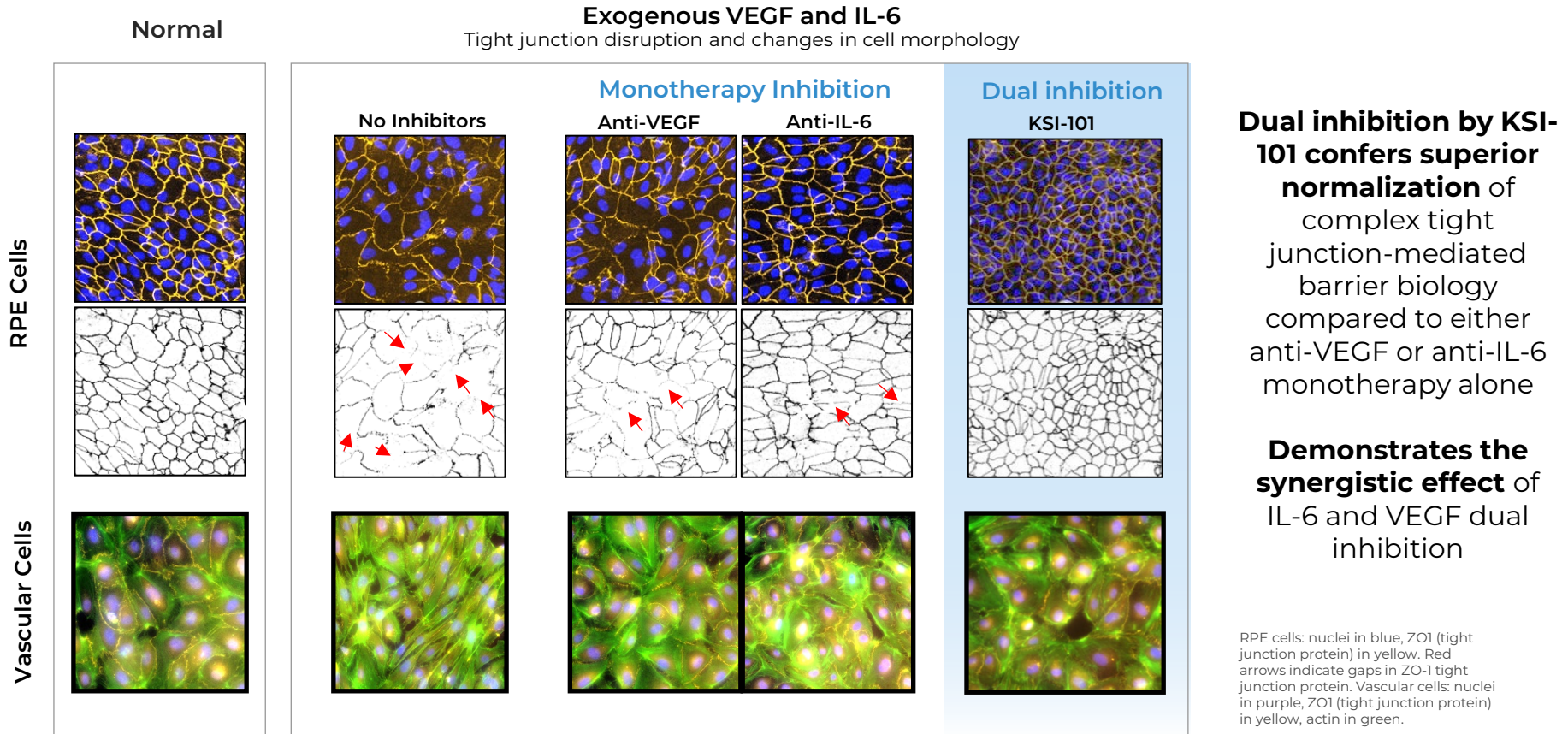
KSI-101 inhibits soluble IL-6 receptor-mediated signaling



KSI-101 inhibits VEGF signaling

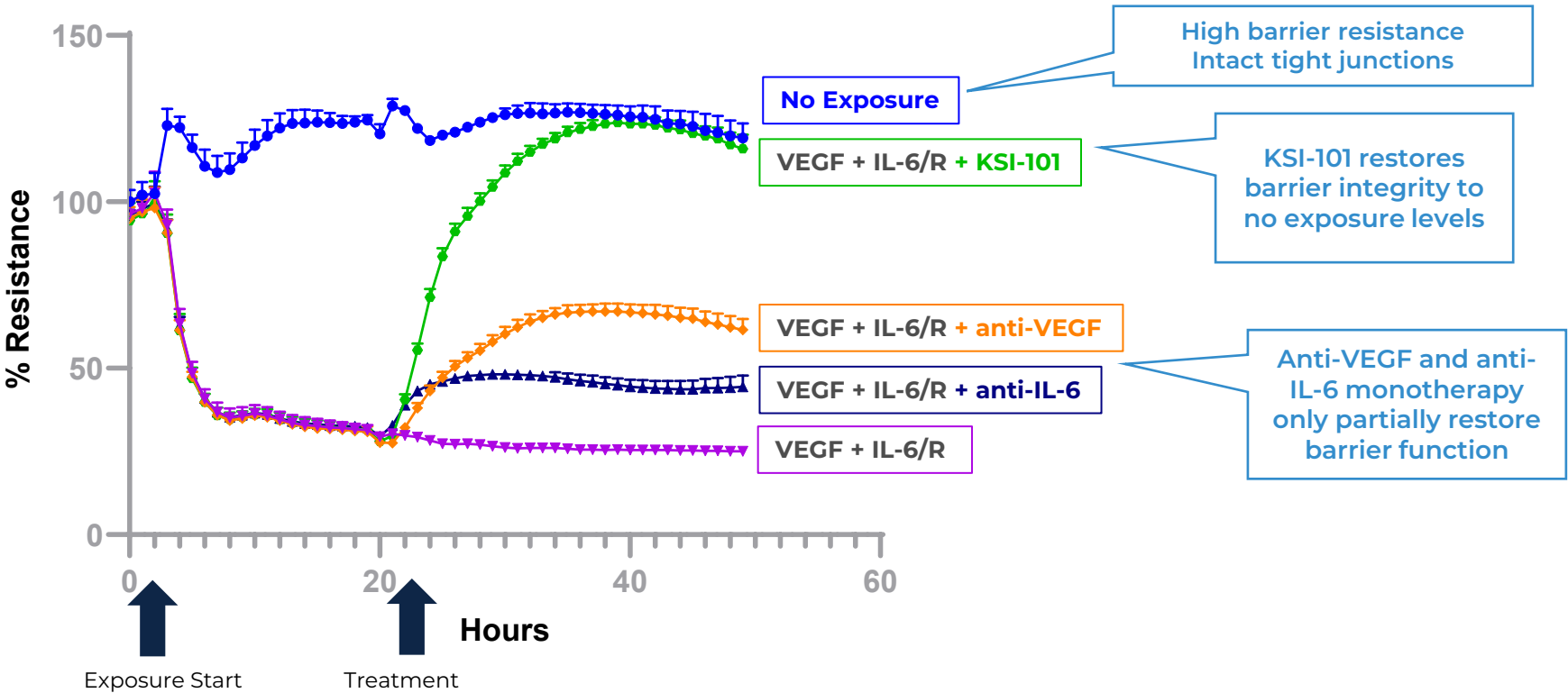


# Bispecific KSI-101 improves barrier tight junctions greater than anti-IL-6 or anti-VEGF monotherapies alone



RPE cells: nuclei in blue, ZO1 (tight junction protein) in yellow. Red arrows indicate gaps in ZO-1 tight junction protein. Vascular cells: nuclei in purple, ZO1 (tight junction protein) in yellow, actin in green.

# Bispecific KSI-101 restores barrier resistance from pre-existing insult greater than anti-IL-6 or anti-VEGF monotherapies alone



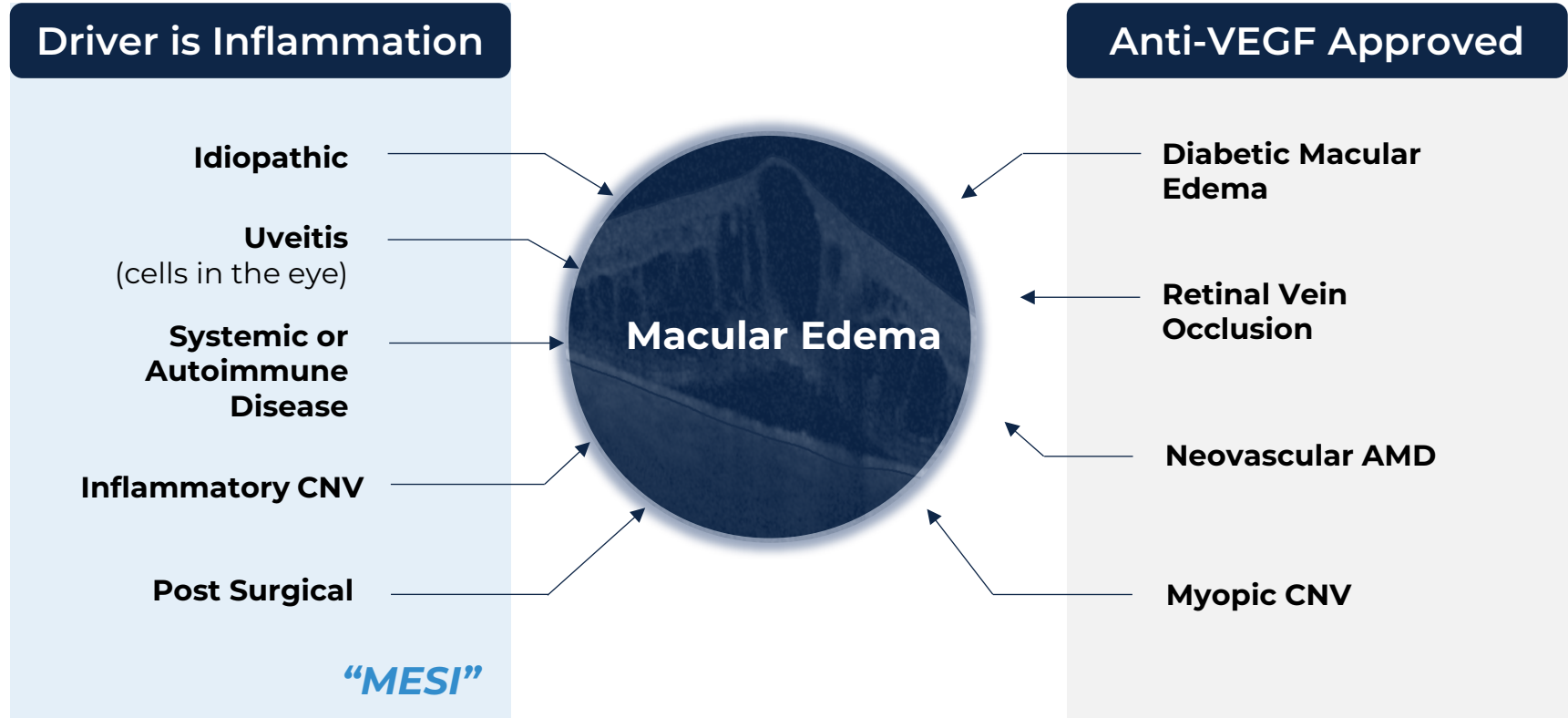
A vertical panel on the left side of the slide features a light blue background with a faint, circular, microscopic pattern of cells, possibly representing retinal tissue or a specific cellular structure.

**De-Kuang Hwang**  
MD, PhD

# **KSI-101 for the Treatment of MESI**

Macular Edema Secondary  
to Inflammation

# In the universe of macular edema, KSI-101 is being developed for the treatment of macular edema secondary to inflammation (MESI)



# There are several risk factors that increase the likelihood of developing Macular Edema Secondary to Inflammation

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Risk factors for the development or progression of MESI:

Female

Autoimmune  
or systemic  
disease

Nonanterior  
ocular  
inflammation

History of  
uveitis

Procedures  
(e.g., ocular  
surgery,  
tattoo)

Infection

Patients that develop MESI tend to have an increased susceptibility to an underlying inflammatory “trigger”

# MESI has a heterogenous patient population. Case examples demonstrate how MESI is clinically unified but etiologically diverse

## Potential causes of MESI



### Uveitis

- **Macular edema is the leading cause of vision loss in patients with uveitis**, often referred to today as uveitic macular edema



### Systemic / Autoimmune Disease

- **Systemic inflammatory disorders**, such as rheumatoid arthritis, sarcoidosis, ankylosing spondylitis and juvenile idiopathic arthritis are known to cause MESI



### Idiopathic

- **No identifiable cause at time of diagnosis**



### Post (Surgical) Procedure



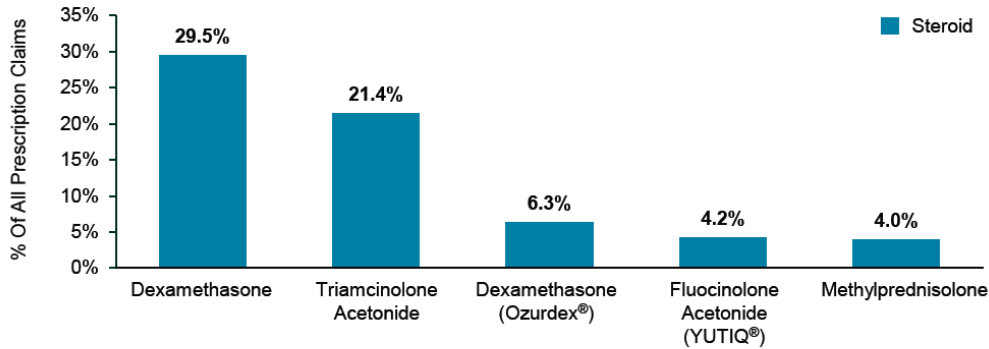
- Clinically significant macular edema that **does not resolve post cataract surgery**, typically called pseudophakic CME or Irvine Gass Syndrome
- Foreign body reactions to dyes used in **tattoos** can initiate a systemic inflammatory response that causes MESI<sup>1</sup>

1. Saliba, N., et al. Tattoo-associated uveitis. *Eye* 24, 1406 (2010). CME: cystoid macular edema

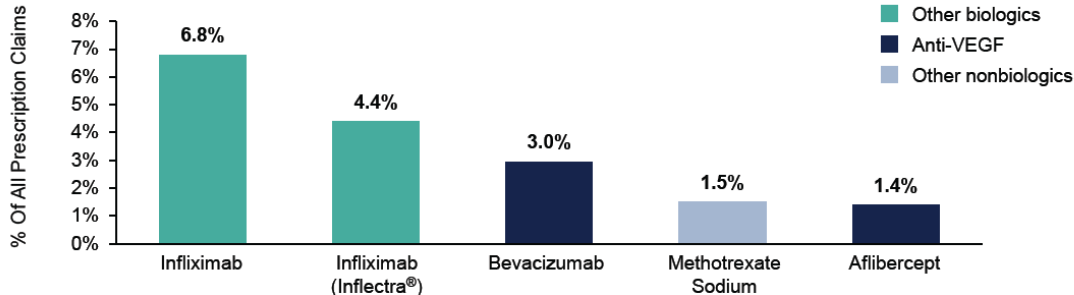
**In all cases of MESI, macular edema is present and can persist despite clinical remission of inflammation**

# Corticosteroids are used most often for MESI, but carry significant safety risks and efficacy is limited

Most frequently prescribed steroid and nonsteroid for uveitic macular edema, a form of MESI, medications across any line of therapy<sup>1</sup>



All Prescription Claims  
N = 14,875



- Steroids were the most common medication class and remain the standard of care<sup>1</sup>
- XIPERE® (triamcinolone acetonide) is the only approved local ocular treatment in the U.S.
- **Approximately 30-40% of patients do not fully respond to intraocular steroids<sup>2,3</sup>**
- Intraocular steroids are avoided in the pediatric population and **used with caution in adults due to high risk of cataract formation and permanent glaucoma damage**

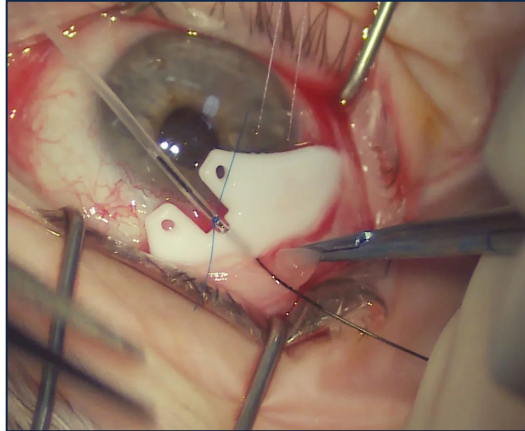
# Treatments for MESI today are suboptimal, often leading to complications

## Cataract in uveitis patients is complex



- Surgeries are complicated (synechiae/scarring)
- Surgeries can trigger fulminant inflammation, often need to leave the eyes without implant

## Glaucoma surgery is invasive



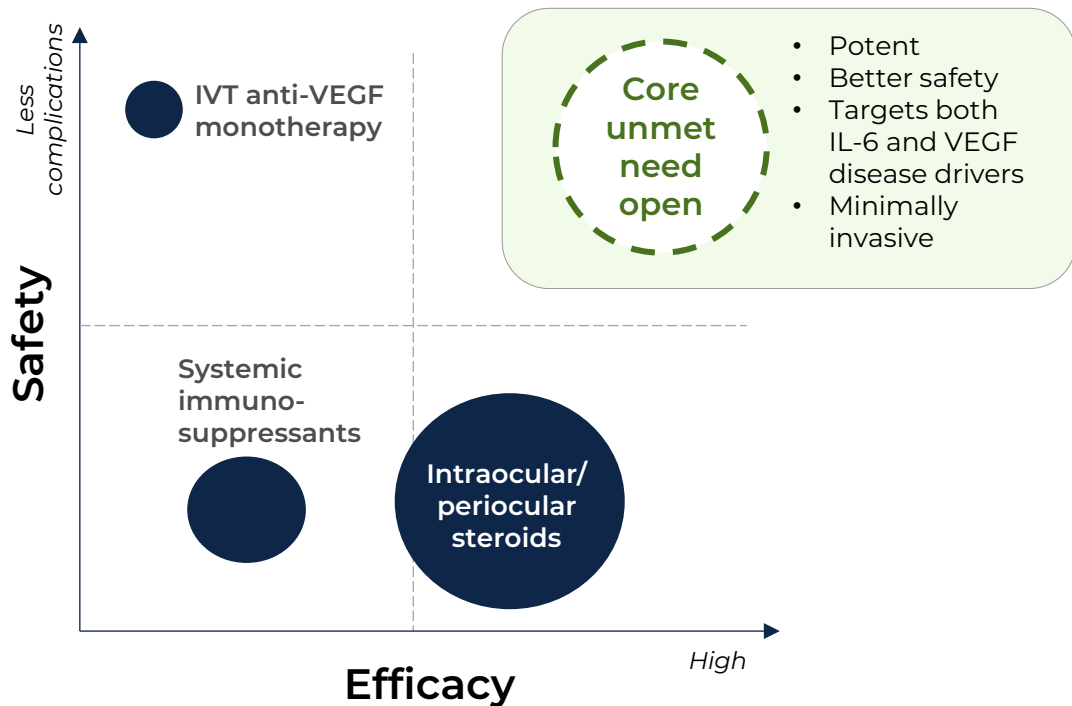
- Once the optic nerve is damaged due to high eye pressure, the effects are irreversible
- Topical drops are often insufficient, needing invasive surgeries

## RETISERT® (fluocinolone acetonide intravitreal implant) label:

- **60% of patients will require chronic IOP lowering medications** to control intraocular pressure **and 37% will require filtering procedures** to control intraocular pressure
- Within an average post-implantation period of approximately 2 years, **nearly all phakic eyes are expected to develop cataracts and require cataract surgery**

# KSI-101 is poised to fulfill the core unmet need in MESI based on its potential to be a disease modifying, high-strength, locally administered and safe biologic

Illustrative



## KSI-101 is designed to address core unmet need

- **Potential for disease modifying** based on its synergistic inhibition of IL-6 and VEGF, as demonstrated in preclinical models and clinical cases
- **High strength formulation** (100 mg/mL) and **high potency** provide the fire-power needed to treat “angry” inflammation and macular edema
- **Local (intravitreal) administration**

**De-Kuang Hwang**  
MD, PhD

# **Phase 1b APEX Case Examples in MESI**

# Phase 1b APEX study: multiple dose study of KSI-101 in patients with MESI

Weeks	0	4	8	12	16	20	24
2.5 mg	■	■	■	■			
5 mg	■	■	■	■			
10 mg	■	■	■	■			

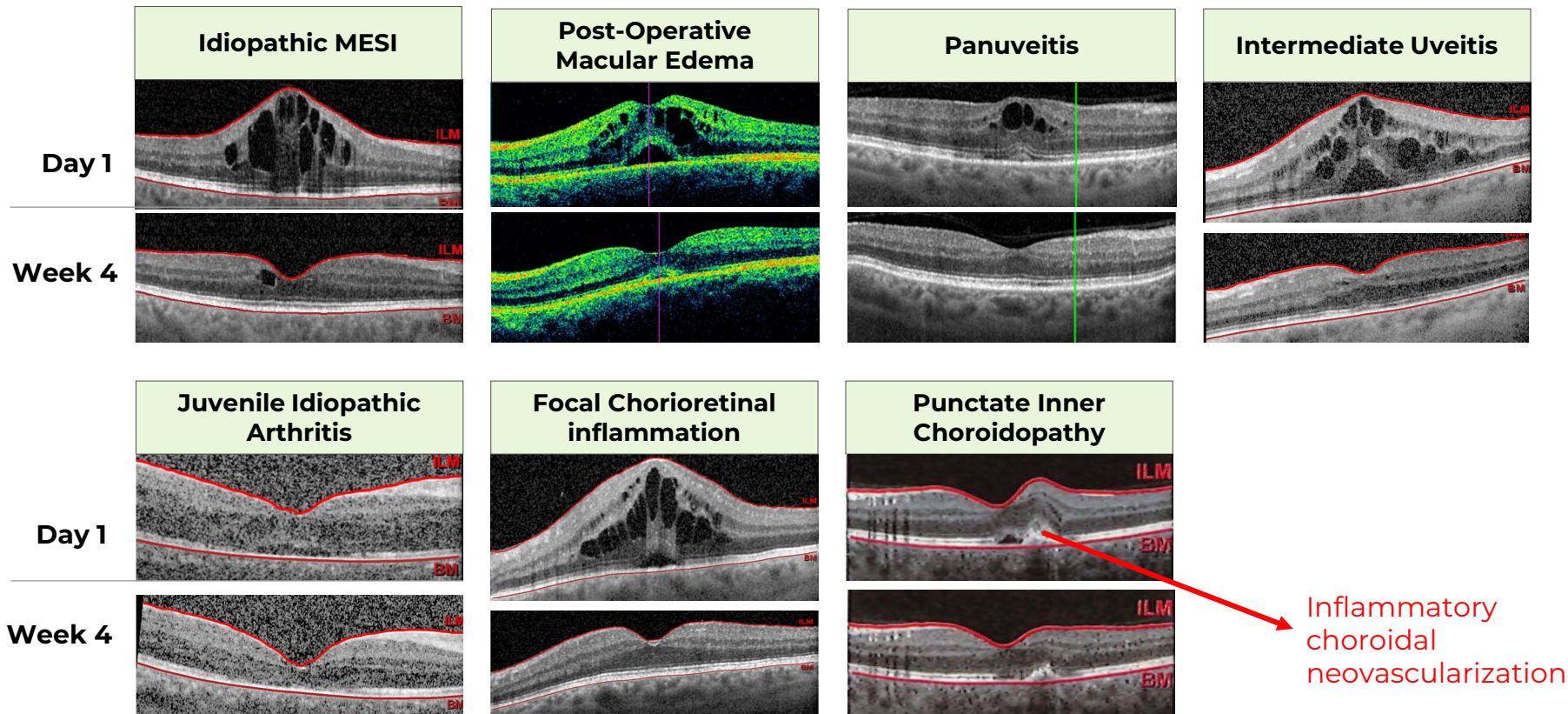
■ KSI-101 injection

End of Study



A low and high dose of KSI-101 will be selected to progress into dual Phase 3 pivotal studies (PEAK and PINNACLE) in MESI

# After one dose of KSI-101, heterogenous MESI diseases show rapid and meaningful responses to the simultaneous IL-6 and VEGF inhibition

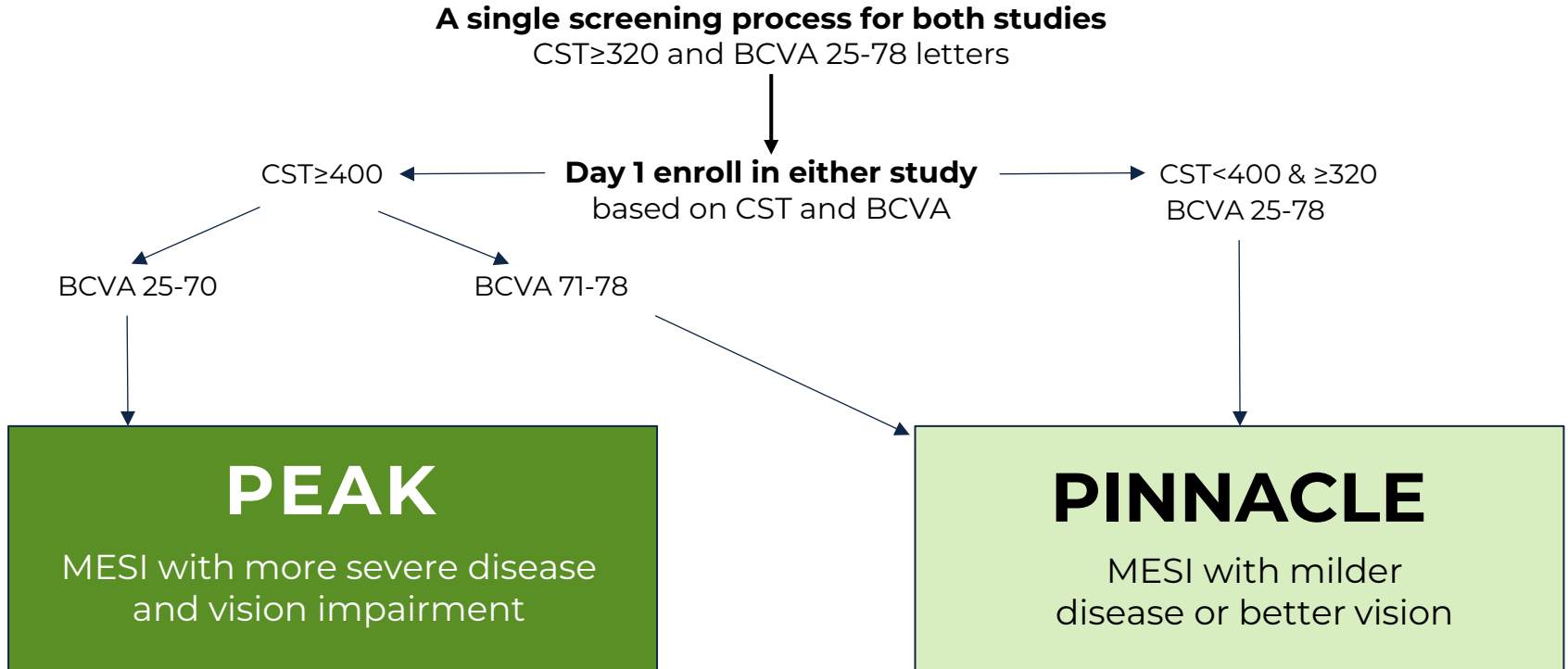


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**Ariel Schlaen**  
MD, PhD

# Phase 3 Program in MESI

# Phase 3 Peak and Pinnacle studies: efficient master protocol design



# Key eligibility criteria for MESI

## PEAK

- CST of  $\geq 400$  microns on SD-OCT in Study Eye
- BCVA ETDRS score of  $\geq 25$  and  $\leq 70$  letters in the Study Eye

## PINNACLE

- CST of  $< 400$  and  $\geq 320$  microns on SD-OCT *and* a BCVA score of  $\geq 25$  and  $\leq 78$  ETDRS letters in the Study Eye

**OR**

- CST of  $\geq 400$  microns on SD-OCT *and* a BCVA score of  $\geq 71$  and  $\leq 78$  ETDRS letters in the Study Eye

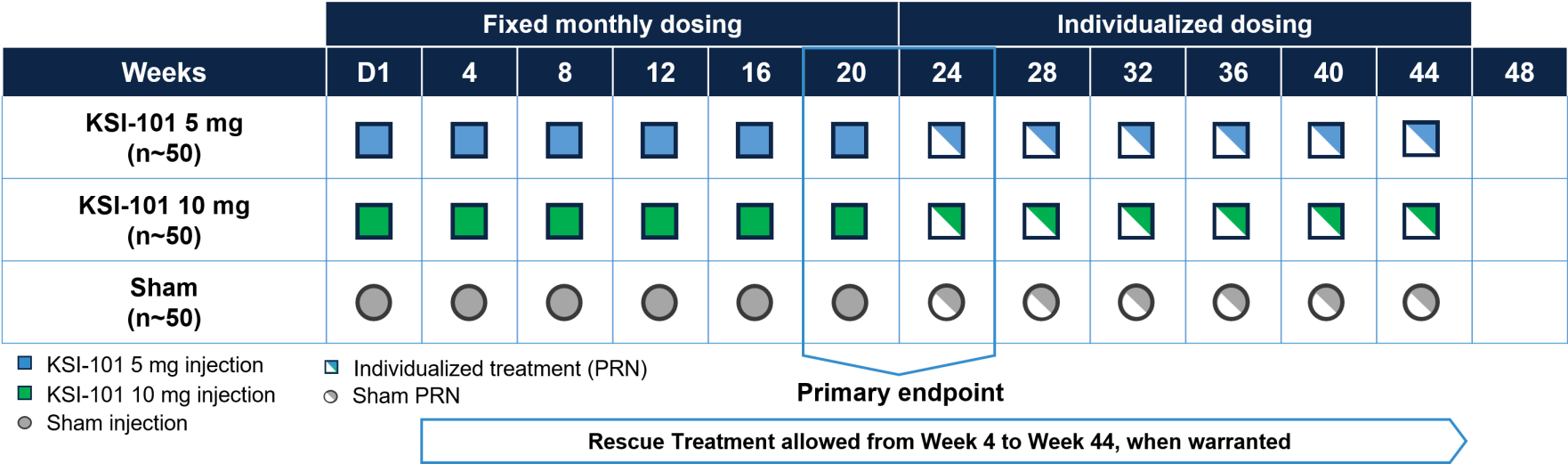
## Key inclusion for both

- Adult patients with decrease in vision primarily resulting from MESI
- Active macular leakage with
- Active or inactive non-infectious intraocular inflammation, acute or chronic

## Key exclusion for both

- Active or suspected ocular or periocular infection in either eye
- ME in the Study Eye secondary to DME, RVO, or wAMD

# Phase 3 pivotal programs in MESI to be initiated mid-2025: PEAK and PINNACLE



**Primary endpoint:** change in best corrected visual acuity from baseline

A background image showing a microscopic view of cells, likely retinal cells, with a light blue and white color scheme. The cells are arranged in a somewhat regular pattern, with some showing distinct nuclei and cytoplasm.

**Ariel Schlaen**  
MD, PhD

# Pipeline

Building on Kodiak's  
Bispecific Protein Platform for  
Ocular Inflammatory Disease

# KSI-102 and KSI-103 are advancing and being developed for the treatment of ocular inflammation

	MOA	Indication/MOA	Pre-clinical	Pre-IND	Phase 1/2	Phase 3
Tarcocimab	Anti-VEGF Antibody Biopolymer Conjugate (ABC)	Diabetic Retinopathy	→			
		Wet AMD	→			
		RVO	→			
KSI-501	Anti-IL-6, VEGF Trap ABC	Wet AMD	→			
KSI-101	Anti-IL-6, VEGF Trap Protein	Macular Edema Secondary to Inflammation (MESI)	→			
KSI-102	Anti-IL-6, anti-TNF-α Protein	Inflammation	→			
KSI-103	Anti-IL-6, anti-IL-1 Protein	Inflammation	→			

- GLOW1 primary endpoint met
- GLOW2 topline data expected Q1 2026

- DAYLIGHT primary endpoint met
- DAYBREAK actively enrolling; topline data expected mid-2026

- BEACON primary endpoint met

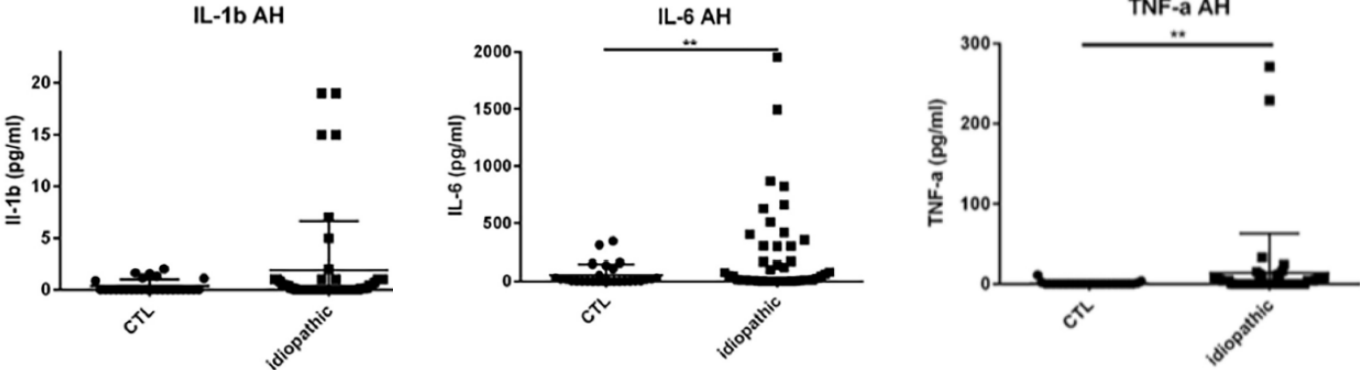
- DAYBREAK actively enrolling
- Topline data expected mid-2026

- Phase 1b APEX study ongoing
- Emerging APEX data 2Q and 3Q 2025
- On track to initiate Phase 3 PEAK and PINNACLE studies in 2Q 2025

- Entering IND enabling studies

# Complex cytokine interactions drive chronic ocular inflammatory disease. TNF- $\alpha$ , IL-6 and IL-1 levels are upregulated in these patients

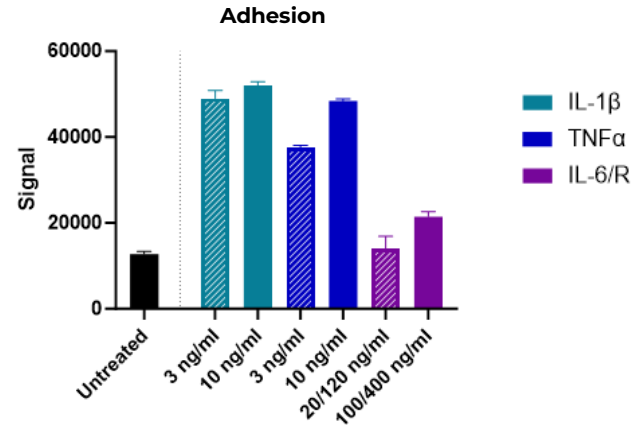
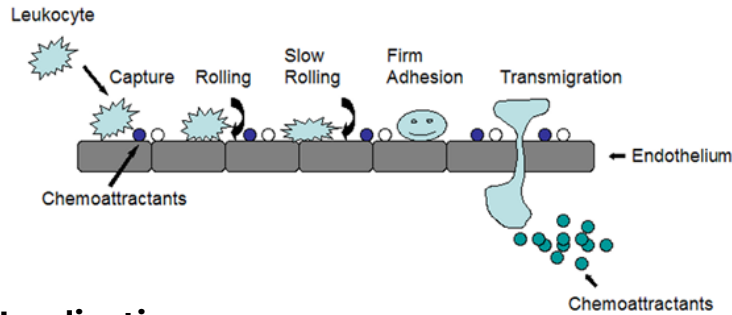
## Aqueous Humor



Dot plots comparing immune mediator levels in aqueous humor (AH) of patients with idiopathic uveitis and noninflammatory controls patients (cataract age-related)

# Modeling ocular inflammation through leukocyte-endothelial adhesion: roles of TNF- $\alpha$ , IL1- $\beta$ and IL-6

## Leukocyte endothelial adhesion model

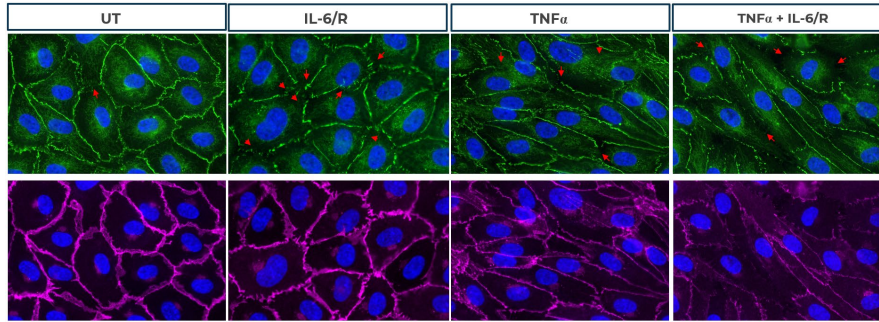


## Implications

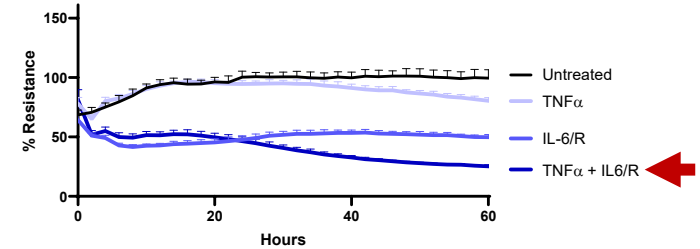
- **All 3 cytokines are involved in driving ocular inflammation:** TNF $\alpha$ , IL-1 $\beta$  and IL-6/R demonstrated leukocyte adhesion
- **IL-1 $\beta$  and TNF $\alpha$  have the strongest effect on leukocyte adhesion:** demonstrates the especially central role they play in driving an inflammatory response
- **As demonstrated earlier, IL-6/R is the primary driver of vascular permeability:** IL-6 plays a central role in destabilizing tight barrier junctions

# Modeling macular edema and vascular permeability: barrier function measurements reveal cytokines additively compromise the blood-retinal barrier

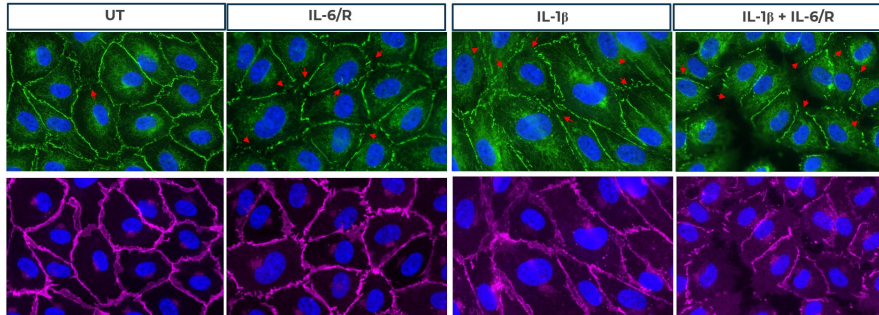
## TNF $\alpha$ and IL-6



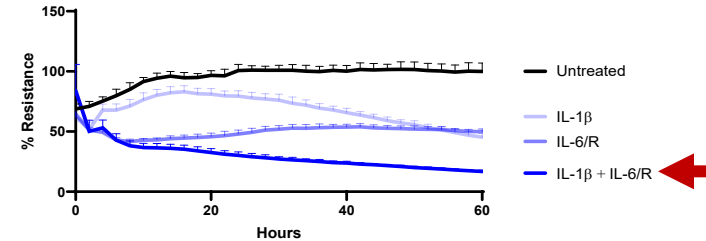
## TNF $\alpha$ and IL-6



## IL-1 $\beta$ and IL-6



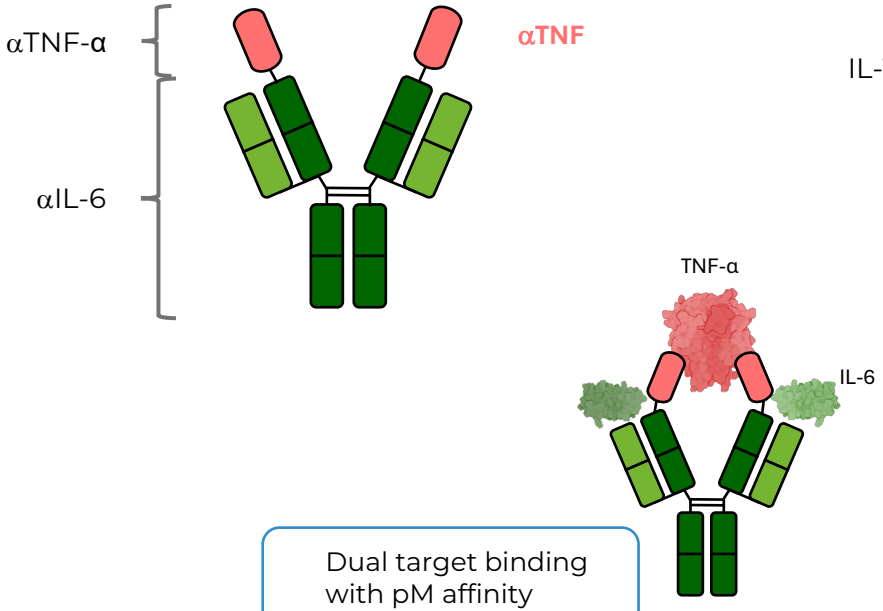
## IL-1 $\beta$ and IL-6



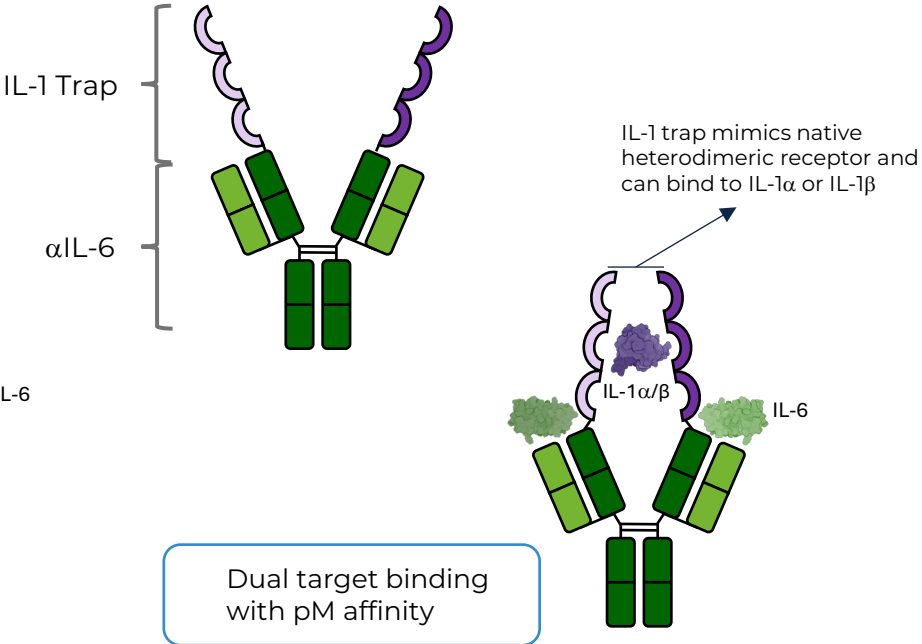
ZO-1 VE-Cadherin Nuclei

# KSI-102 and KSI-103: Engineered to inhibit TNF- $\alpha$ /IL-6 and IL-1/IL-6 through dual cytokine targeting

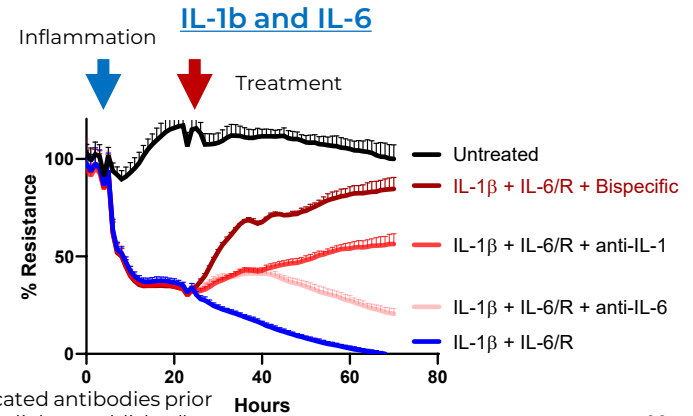
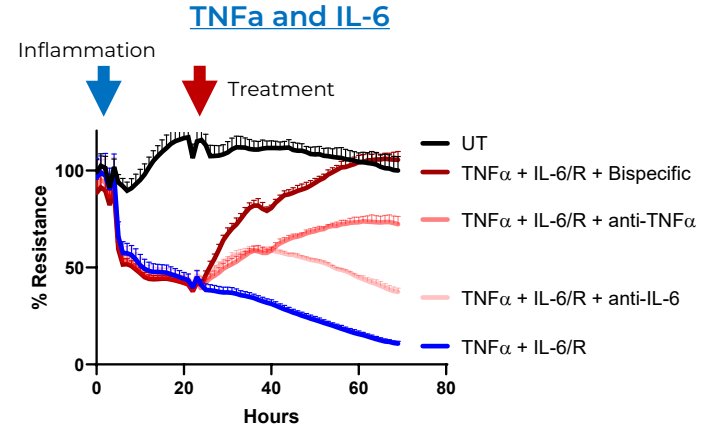
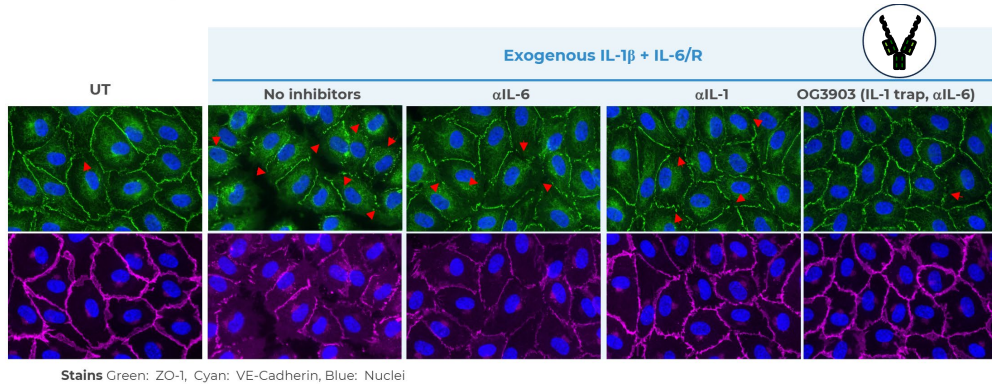
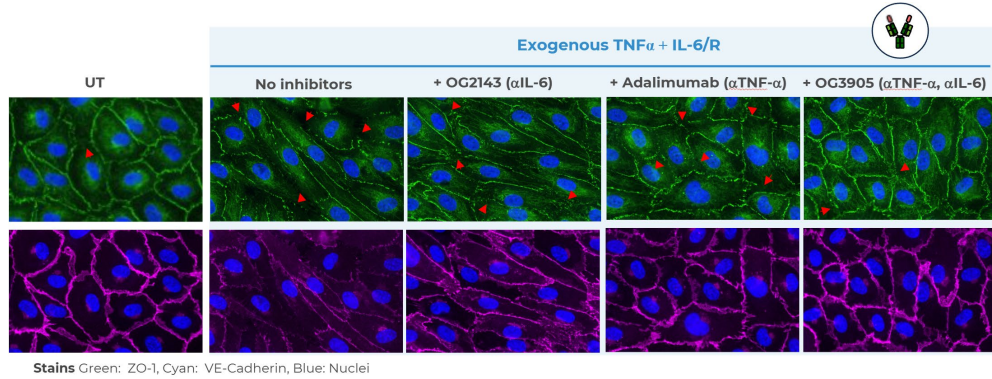
**KSI-102**  
( $\alpha$ TNF- $\alpha$  /  $\alpha$ IL-6 bispecific)



**KSI-103**  
(IL-1 trap /  $\alpha$ IL-6 bispecific)



# Bispecifics can superiorly (i) rescue junctional proteins, (ii) normalize cell morphology, and (iii) physiological barrier integrity and may (iv) normalize effects of existing inflammation





# Panelist Discussion