

# Kyowa Kirin R&D Meeting 2023

December 11, 2023

**Takeyoshi Yamashita, Ph.D.**

**Yoshifumi Torii, Ph.D.**

Director of the Board, Senior Managing Executive officer and Chief Medical Officer

Executive Officer, Vice President, Head of R&D Division

The logo for Kyowa Kirin, featuring the company name in a bold, sans-serif font. The 'K' is stylized with a white circle inside it. The text is white and set against a large orange semi-circle background at the bottom right of the slide.

**KYOWA KIRIN**

*This document contains certain forward-looking statements relating to such items as the company's (including its domestic and overseas subsidiaries) forecasts, targets and plans. These forward-looking statements are based upon information available to the company at the present time and upon reasonable assumptions made by the company in making its forecasts, but the actual results in practice may differ substantially due to uncertain factors.*

*These uncertain factors include, but are not limited to, potential risks of the business activities in the pharmaceutical industry in Japan and overseas, intellectual property risks, risk of side effects, regulatory risks, product defect risks, risks of changes to the prices for raw materials, risks of changes to market prices, as well as risks of changes to foreign exchange rates and financial markets.*

*This document is used only for the purpose of providing the information to investors. Though it may contain the information concerning pharmaceutical products (including products under development), it is not for the purpose of promotion, advertising, or medical advice.*

**Vision**

**Our Vision toward 2030**

**Kyowa Kirin will realize the successful creation and delivery of life-changing value that ultimately makes people smile, as a Japan-based Global Specialty Pharmaceutical company built on the diverse team of experts with shared passion for innovation.**

\* Make patients smile through dramatic improvements in quality of life by identifying the unmet medical needs of people battling with medical conditions and by creating and supplying new drugs or services that help them overcome those challenges.

**Provide pharmaceuticals for unmet medical needs**

We are focused on developing medicines for diseases where there is a clear patient need for new options. We make full use of multiple therapeutic modalities, including biotechnology such as antibody technology, and beyond, building on our Kyowa Kirin established strengths.

**Address patient-centric healthcare needs**

We will meet the needs of patients and society by providing value across the entire patient care pathway, delivering cutting-edge science and technology, grounded in our in-depth pharmaceutical knowledge and expertise.

**Retain the trust of society**

We pursue world-class product quality and operational excellence to grow our business in ways which build long-term trust with our stakeholders.

Who We Are



# Research & Development Concept **Technology x Biology x OI**

The Kyowa Kirin Group is aiming to build a competitive technology platform by enhancing and combining its drug discovery technologies and its drug discovery modalities.

By matching that technology platform with disease-oriented science and by harnessing open innovation with partners that have specific strengths, we aim to develop completely new technologies or select efficient drug discovery targets to create life-changing value.

## Technology

We will continue to evolve our antibody technology, while also pursuing the possibilities of other modalities and building a platform that leads to innovative new therapies.

## Disease Biology

Continue to provide “Only-one value drug” for UMN, while utilizing the disease science\* cultivated to date within KKC

\* Nephrology, Oncology, Immunology & allergy, CNS

## Open Innovation (OI)

Continue to work on collaborative research activities\* with academia, startups and other partners, combine this with rapid access to start up information gained from investment in VC funds and CVC funds, and tap into external innovation through advanced OI activities

\* Reenergize the San Diego research base

**Create Life-changing value with clear competitive advantages**

# The key drivers of our future growth

Global Strategic Products



Development Pipelines (Ph2 or later)

rocatinlimab (atopic dermatitis)

**KHK4951 nAMD** ★

rocatinlimab (asthma)

**KHK4951 DME** ★

Ph2 start schedule under consideration

Scheduled to start within 2023

Early-Stage Pipelines (Ph1 or earlier)

KK4277

**REGULGENT™** ★

**KK2260** ★

**KK2269** ★

Other biologics

Scheduled to start in 2024Q1

Note: Orchard Therapeutics plc's Pipelines

OTL-200  
(EU: Libmeldy®)

OTL-203

OTL-201

# Today's agenda

- **Development Pipeline using REGULGENT™ - Our bispecific antibody technology**
  - About REGULGENT™
  - KK2260
  - KK2269
  
- **Toward the Successful Creation and Delivery of Life-changing Value**
  - KHK4951 (Ph1 study results and Ph2 studies overview)
  - Orchard Therapeutics plc (HSC-GT)

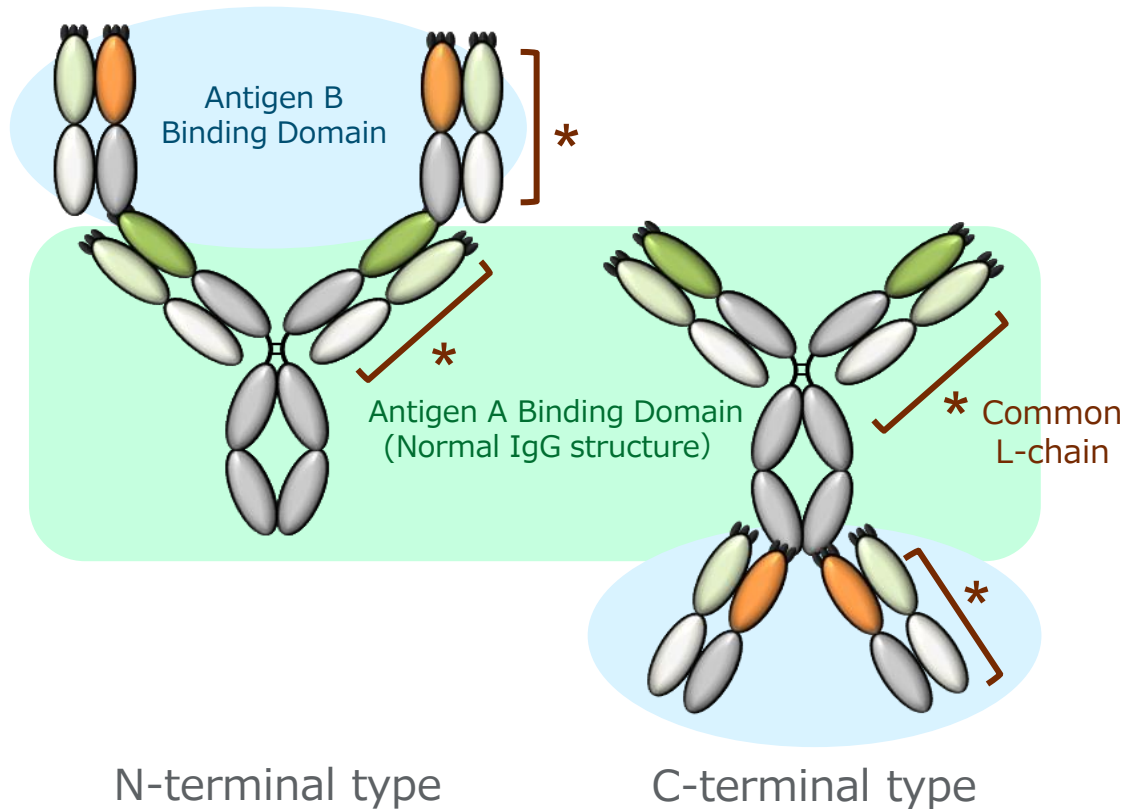
# Development Pipeline using REGULGENT™ Our bispecific antibody technology

- About REGULGENT™
- KK2260
- KK2269

# About REGULGENT™

- General characteristics of bispecific antibodies
- Able to perform actions that IgG cannot by acting on two types of antigens\*
  - Composed of a combination of non-common L-chain antibodies or by utilizing antibody-like molecules

\* e.g., cross-linking of two types of cells or molecules



## Characteristics of REGULGENT™

### Simple structure, minimized immunogenicity

- Use of common L-chain (\*), only natural IgG sequence
- Uniformity with no combination of different molecules
- Physical properties and pharmacokinetics equivalent to IgG

### Bivalent-bivalent binding, N&C-terminal type

- Can be expanded to a variety of mechanisms of action

### Stable production process, easy handling

- High productivity equivalent to IgG
- Can be adapted to the conventional antibody manufacturing process

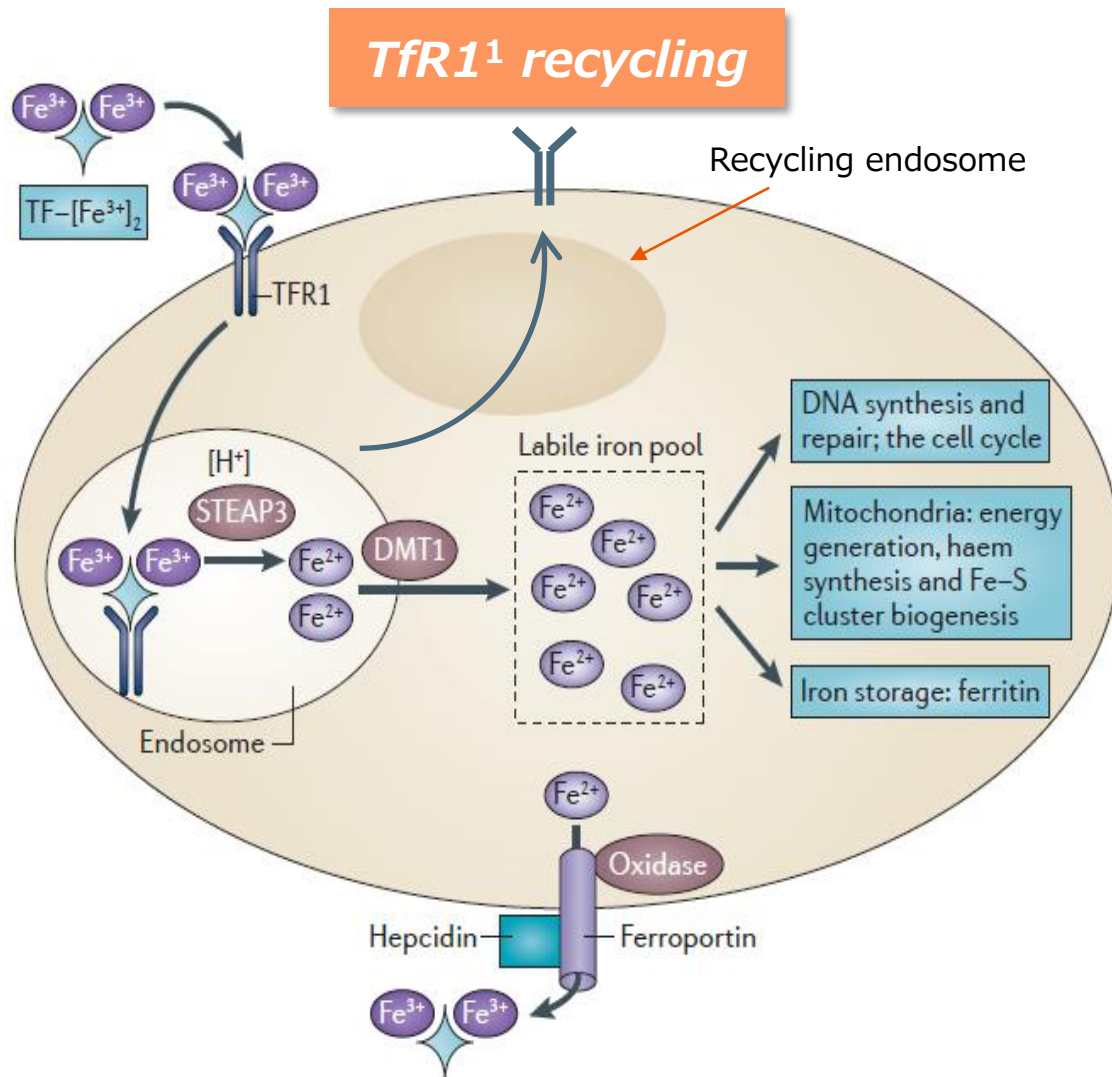
Proprietary bispecific antibody technology created from our antibody R&D experience



# Development Pipeline using REGULGENT™ Our bispecific antibody technology

- About REGULGENT™
- KK2260
- KK2269

# Relationship between cells and iron



## Iron is an important element for cell growth and survival

- DNA synthesis

Ribonucleotide reductase - requires iron ions in the active center

- Energy generation

Iron ion is required for ATP production via TCA cycle<sup>2</sup> in mitochondria

## TfR1 contributes to cellular uptake of iron

- Iron ions bind to transferrin, which binds to TfR1 and is taken up into the cell
- TfR1 is recycled after intracellular iron supply and is again involved in iron uptake

1. Transferrin receptor 1; 2. Tricarboxylic acid cycle = Citric acid cycle

Modified from: Torti, S. V. et al., Nat Rev Cancer, 2013

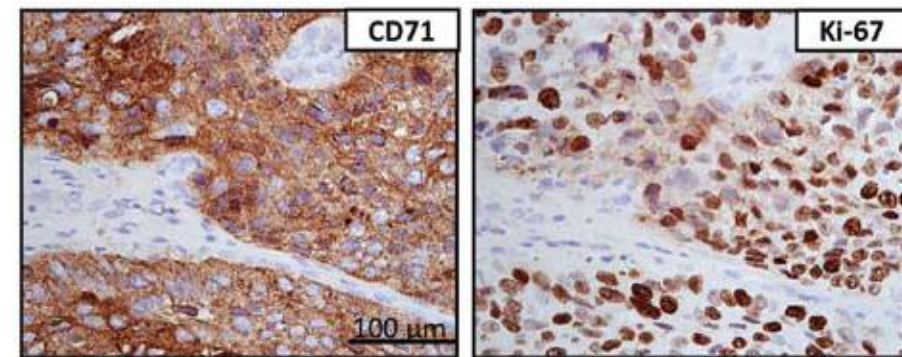
# Relationship between cancers and iron

- Many cancer types have an association with iron

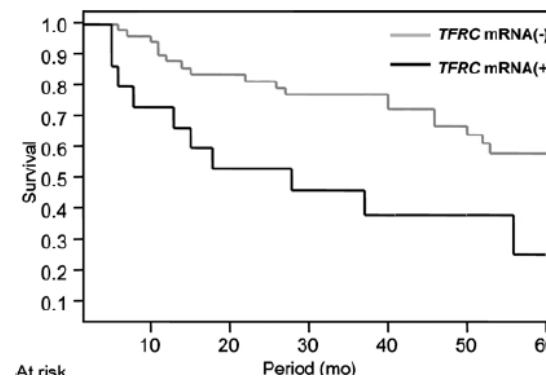
- High expression of TfR1 in many cancer types which affects cancer growth and prognosis

Type of cancer	Type of evidence
Non-small-cell lung cancer	Cell culture, animal models and epidemiological
Breast cancer	Cell culture, animal models, human tissue studies and epidemiological
Renal cell carcinoma	Cell culture and animal models
Hepatocellular cancer	Cell culture, animal models and epidemiological
Oesophageal, stomach, aerodigestive and gastric cancer	Human tissue studies, animal models and epidemiological
Colorectal cancer	Cell culture, human tissue studies, animal models and epidemiological
Prostate cancer	Cell culture and epidemiological
Haematological cancers (leukaemias, lymphomas and myeloma)	Cell culture, animal models, epidemiological and clinical case study
Melanoma	Cell culture and animal model
Pancreatic cancer	Cell culture, animal models and clinical trial
Bladder cancer	Cell culture

Torti, S. V. et al., Nat Rev Cancer, 2013



TfR1 expression of ESCC patient: Chan et al., *ONCOLOGY REPORTS*, 2014



Survival after surgery of ESCC patients: Wada et al., *Ann. Surg. Oncol.*, 2006

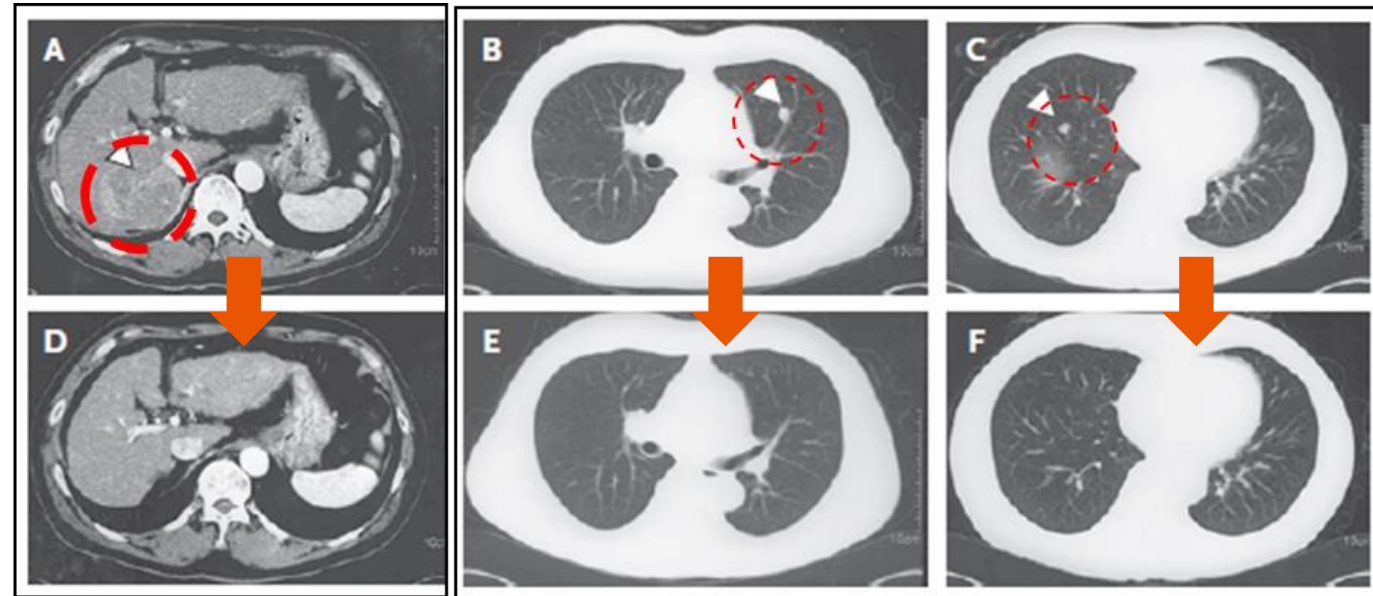
**TfR1 = CD71: Transferrin receptor 1**, Ki-67: One of the cell growth marker protein, ESCC: Esophageal squamous cell carcinoma

# Anticancer effects and systemic side effects of iron depletion

Modified from: Yamasaki et al., N Engl J Med, 2011

- Efficacy of Deferoxiamine, an Iron Chelator, in Hepatocellular Carcinoma

**Anticancer effect observed by iron depletion in cancer cells**



Before Dosing

Two months after dosing

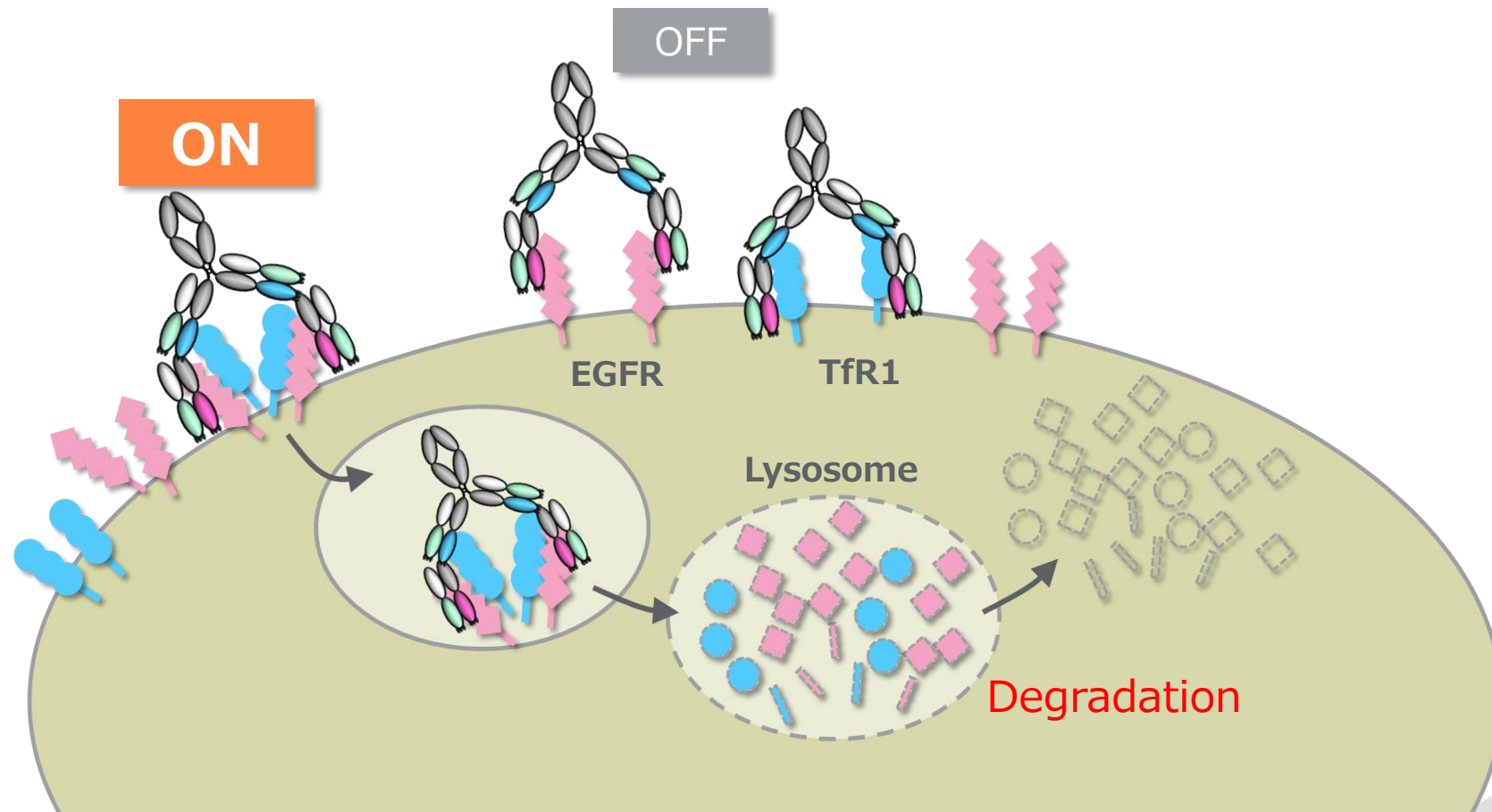
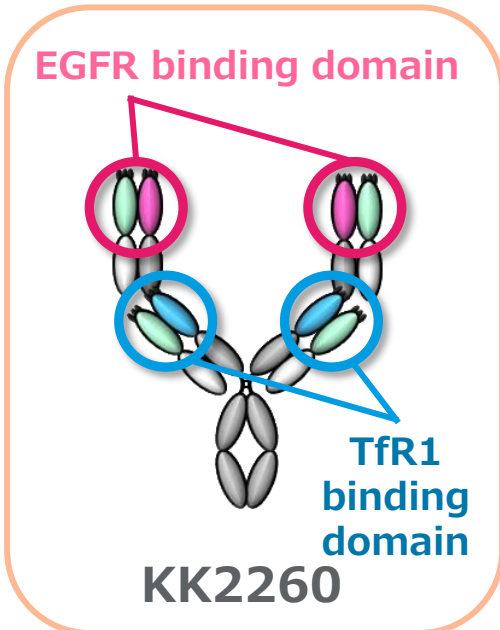
- However, systemic iron depletion raises a safety concern (e.g. severe anemia) because iron plays an important function in all cells

**Need to find a way to suppress systemic side effects and exert only anticancer effects**

# KK2260: EGFR-TfR1 bispecific antibody

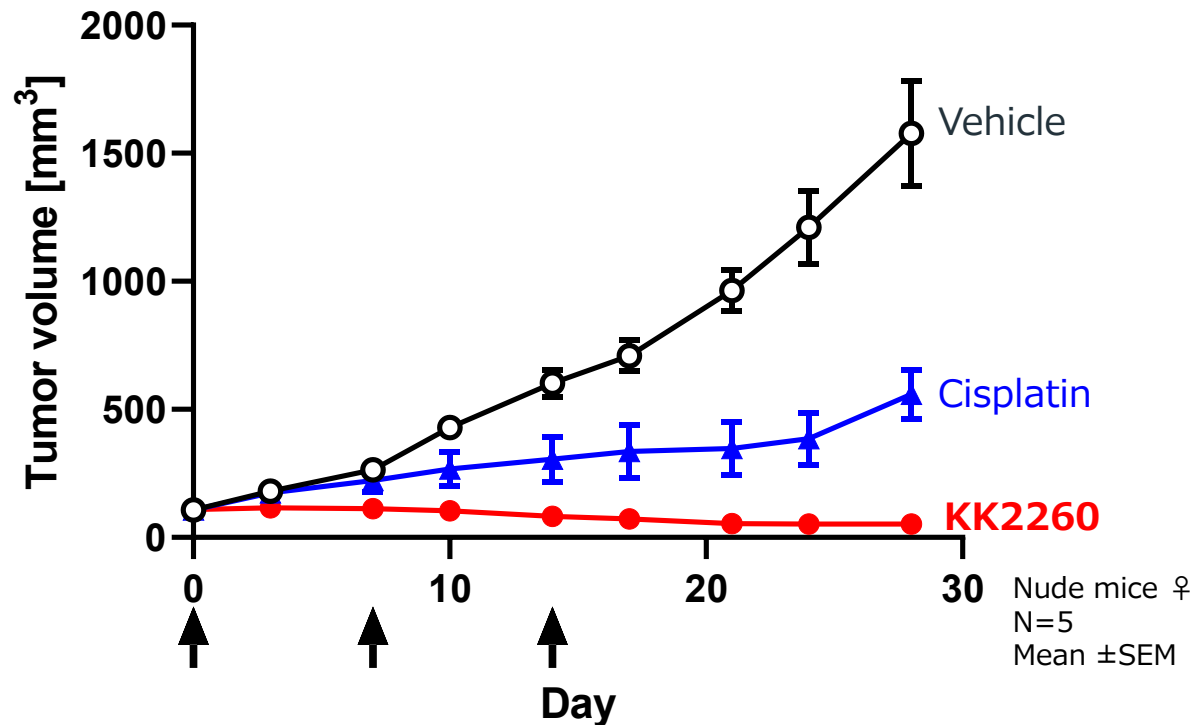
To avoid systemic side effects = selective iron depletion in cancer cells

- No neutralizing activity when bound to TfR1 only or EGFR only
- Cross-links TfR1 and EGFR to induce TfR1 degradation in lysosomes



# KK2260: Drug Efficacy and Safety in Nonclinical Studies

## ■ Efficacy: ESCC<sup>1</sup> PDX<sup>2</sup> model (EGFR+/TfR1+)



High efficacy was shown in all three models evaluated

1. Esophageal squamous cell carcinoma.
2. Patient-derived xenograft. ESCC PDX tumors were obtained from In-Vivo Science Inc.
3. Known as the side effect of EGFR neutralization

## ■ Safety

- 200 mg/kg of KK2260 was administered to cynomolgus monkeys once a week x 4 times  
→ No serious toxicity, including skin toxicity<sup>3</sup>, was observed. Mild and transient anemia was observed.

In nonclinical studies, we found that KK2260 was able to exert its effects while suppressing systemic side effects.

Development for EGFR-high expressing cancers are planned.

# Development Pipeline using REGULGENT™ Our bispecific antibody technology

- About REGULGENT™
- KK2260
- KK2269

# About CD40 agonistic antibody

## ■ Expectations

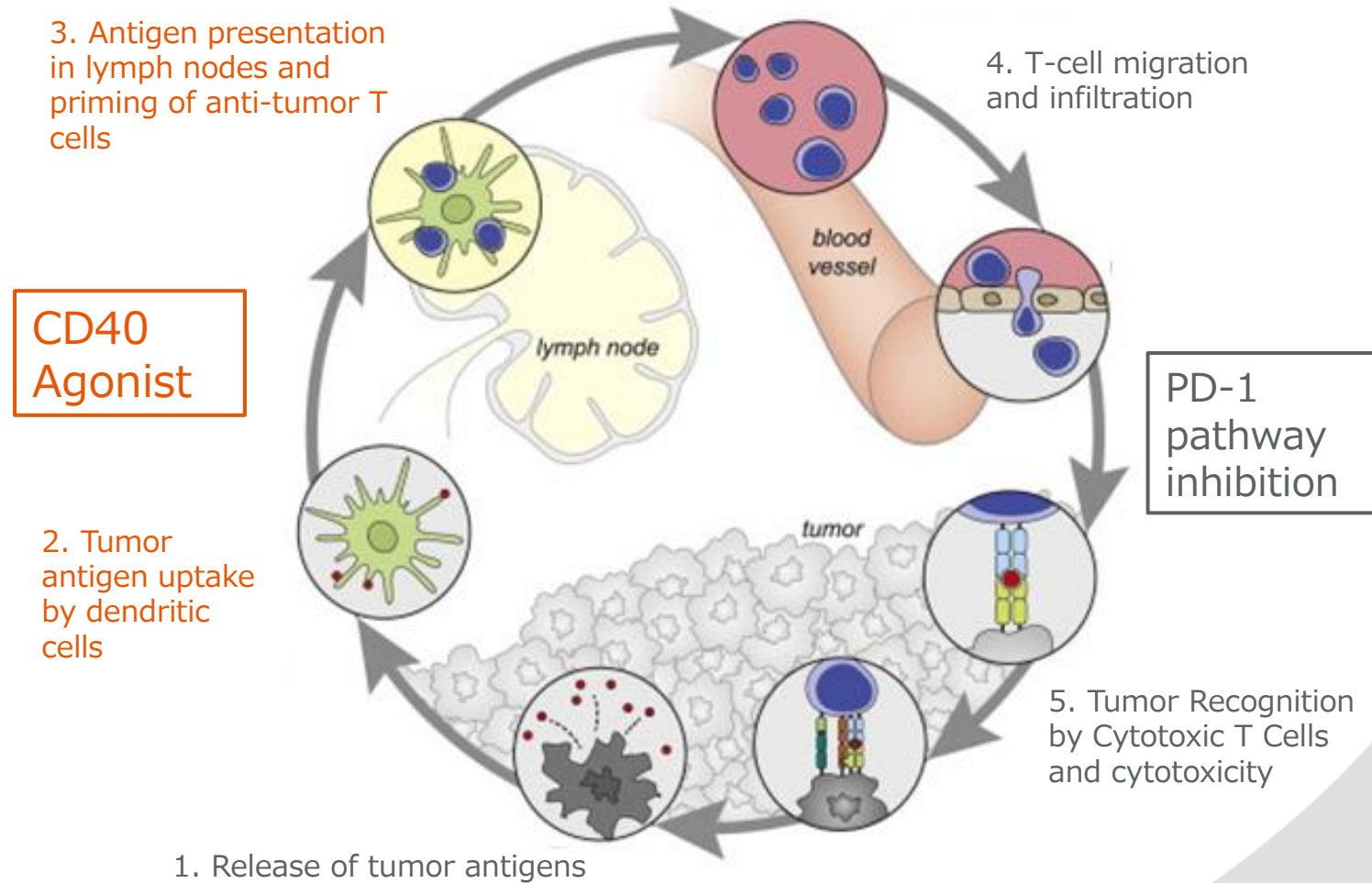
To cure cancer by inducing de novo anti-tumor immunity in patients that are not sufficiently aquaired anti-tumor immunity and/or that are refractory to existing immunotherapy

## ■ Issues

Over-activation of the systemic immune system, resulting in a narrow therapeutic window

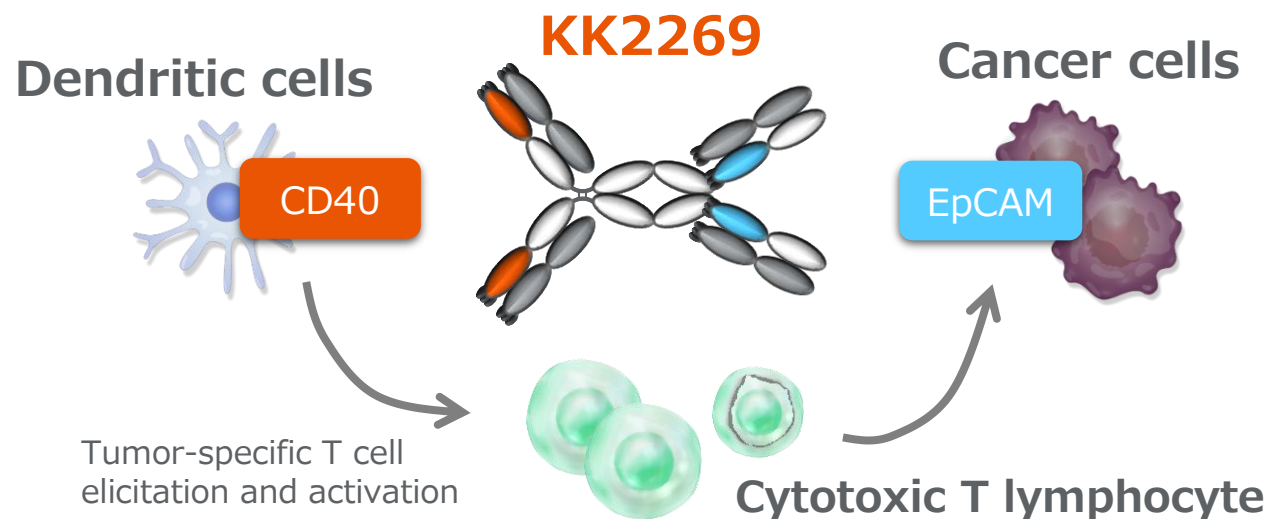
### Cancer Immunity Cycle

Modified from: *Immunity*, Volume 39, Issue 1, 2013, 1-10

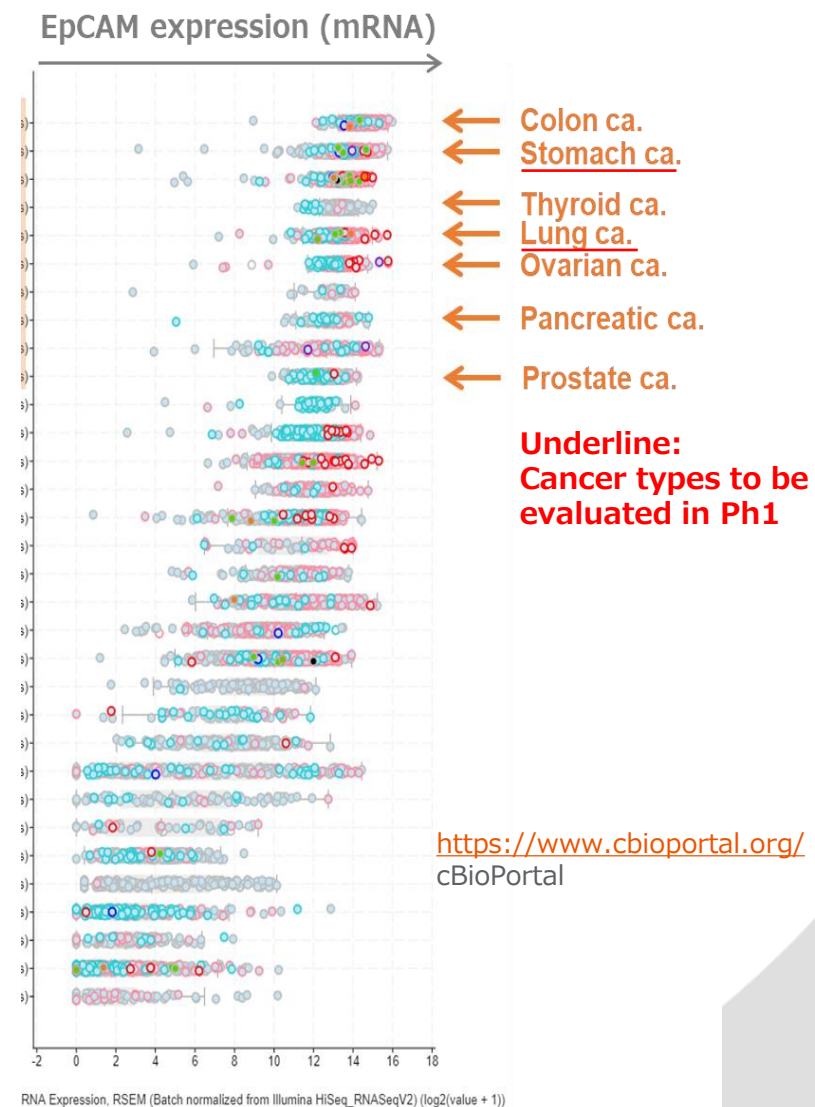




# KK2269: CD40-EpCAM\* bispecific antibody



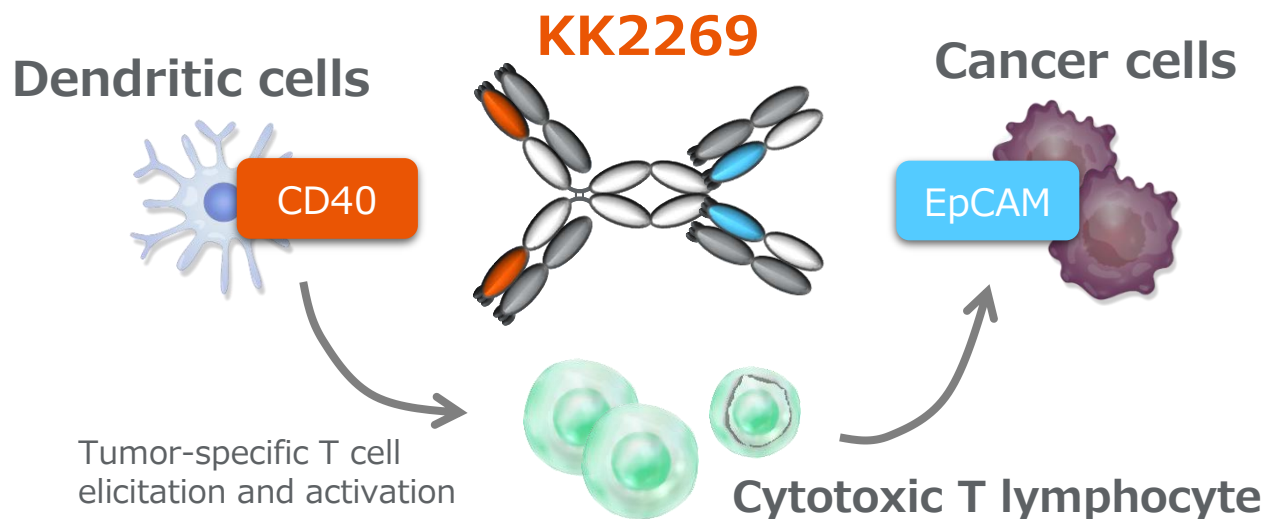
Examples of EpCAM-high expressing tumors



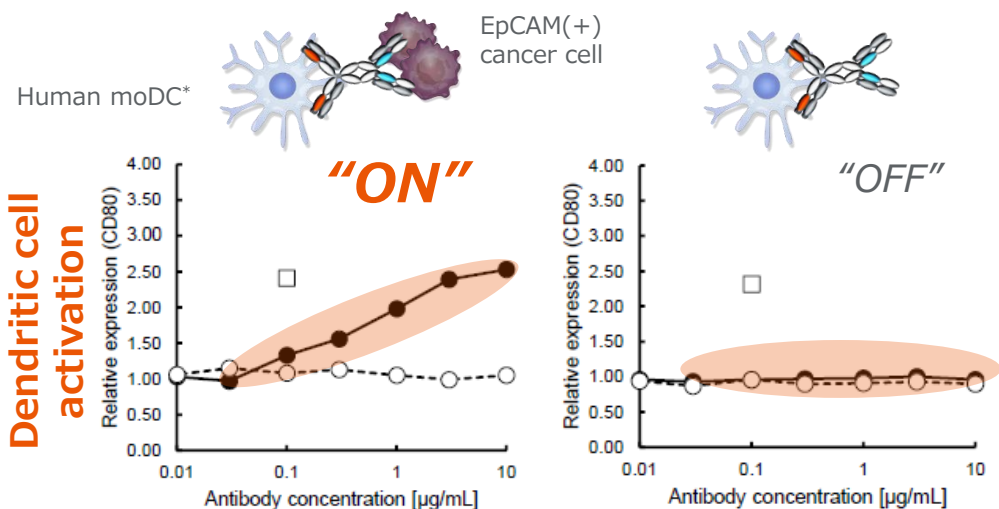
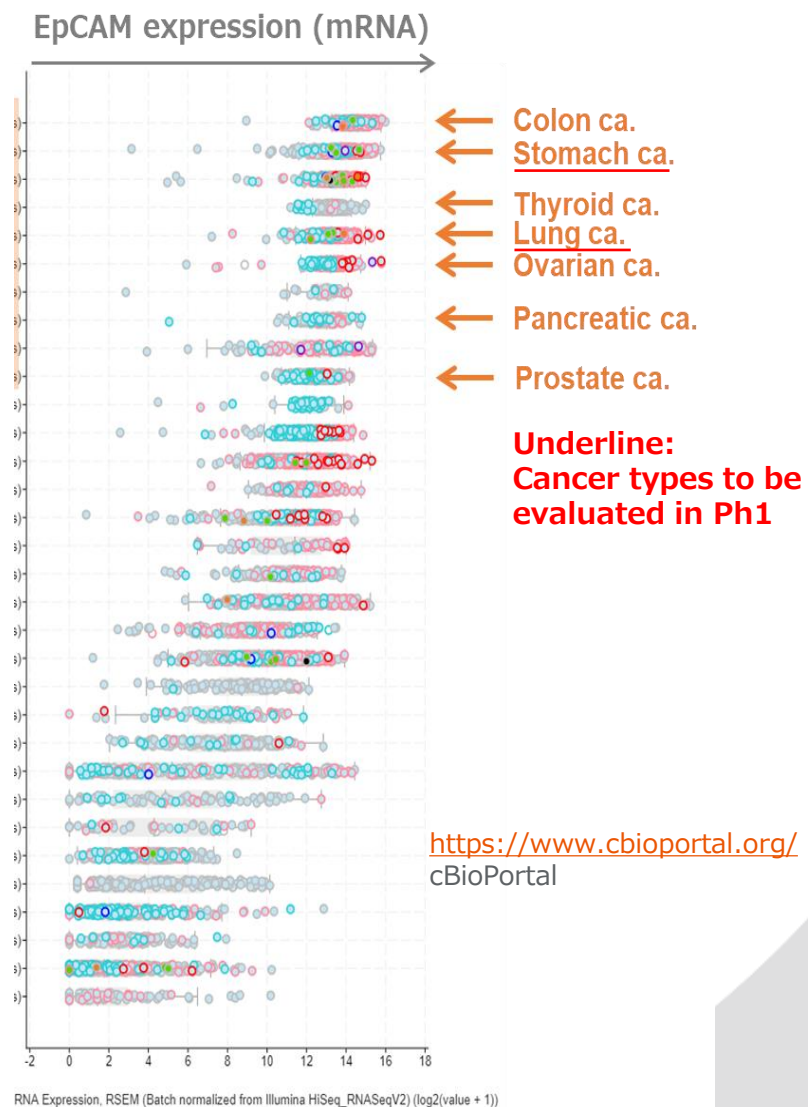
- Targets CD40 and EpCAM simultaneously, exerting CD40 agonist activity against dendritic cells in close proximity to the tumor
- Successfully separated the induction of anti-tumor immunity from its side effects (systemic immune hyperactivation)

\*EpCAM: Epithelial Cell Adhesion Molecule, marker molecules for epithelial tumors

# KK2269: CD40-EpCAM\* bispecific antibody



Examples of EpCAM-high expressing tumors



Function as a CD40 agonist only for dendritic cells in close proximity to the cancer

- KK2269
- Control Ig
- MEGA CD40L

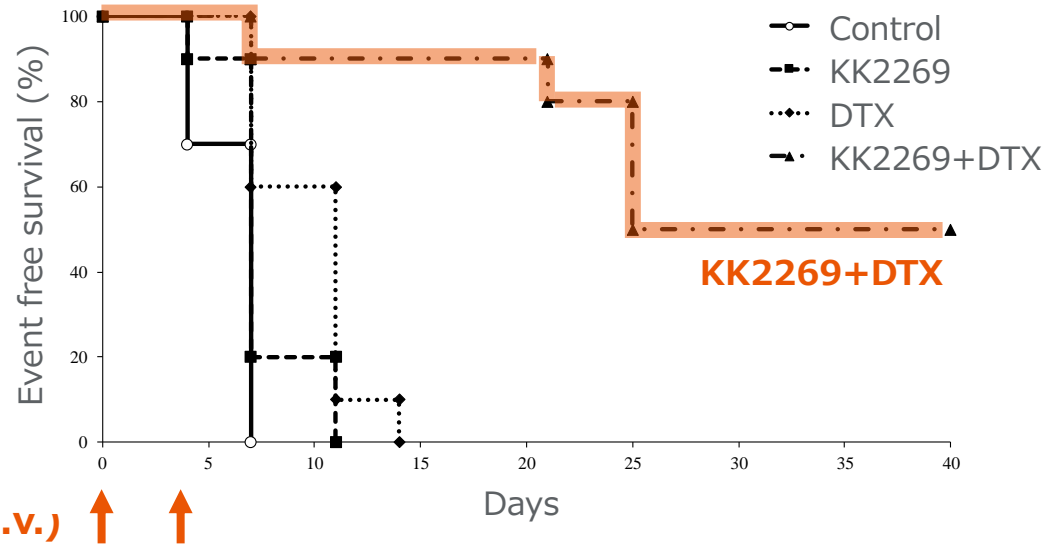
\*moDC: Monocyte derived DC

# KK2269: Efficacy and safety confirmed in non-clinical studies

## Survival rate



- Human CD40-expressing Tg mice
- PD1-resistant tumor model
- DTX: Docetaxel



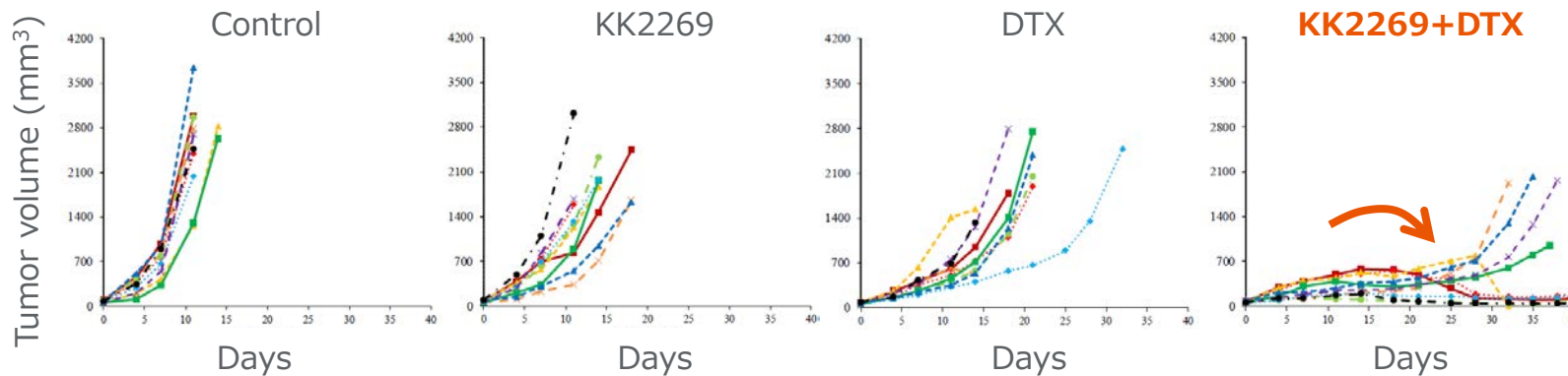
## Efficacy

- KK2269 showed remarkable synergy with certain chemotherapy
- Characteristic delayed tumor regression suggesting the induction of de novo anti-tumor immunity (see below).

## Safety

- High safety profile observed in cynomolgus monkeys up to 200 mg/kg (the highest dose in the GLP study)

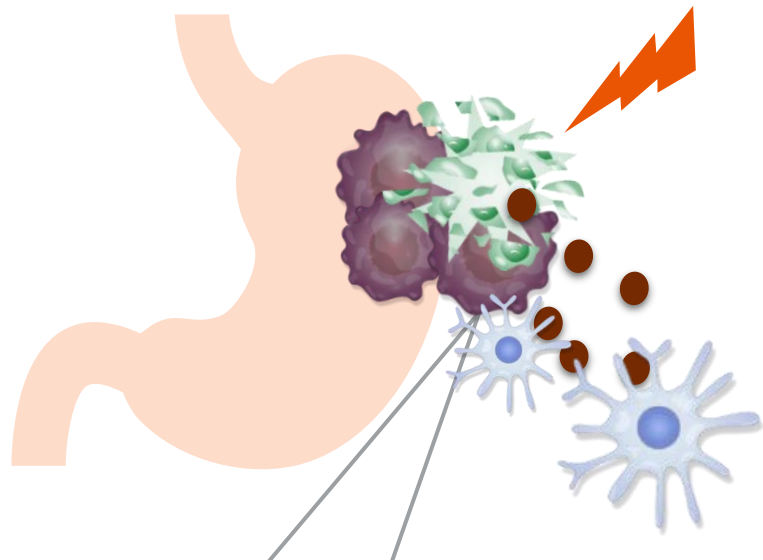
## Tumor volume by individual



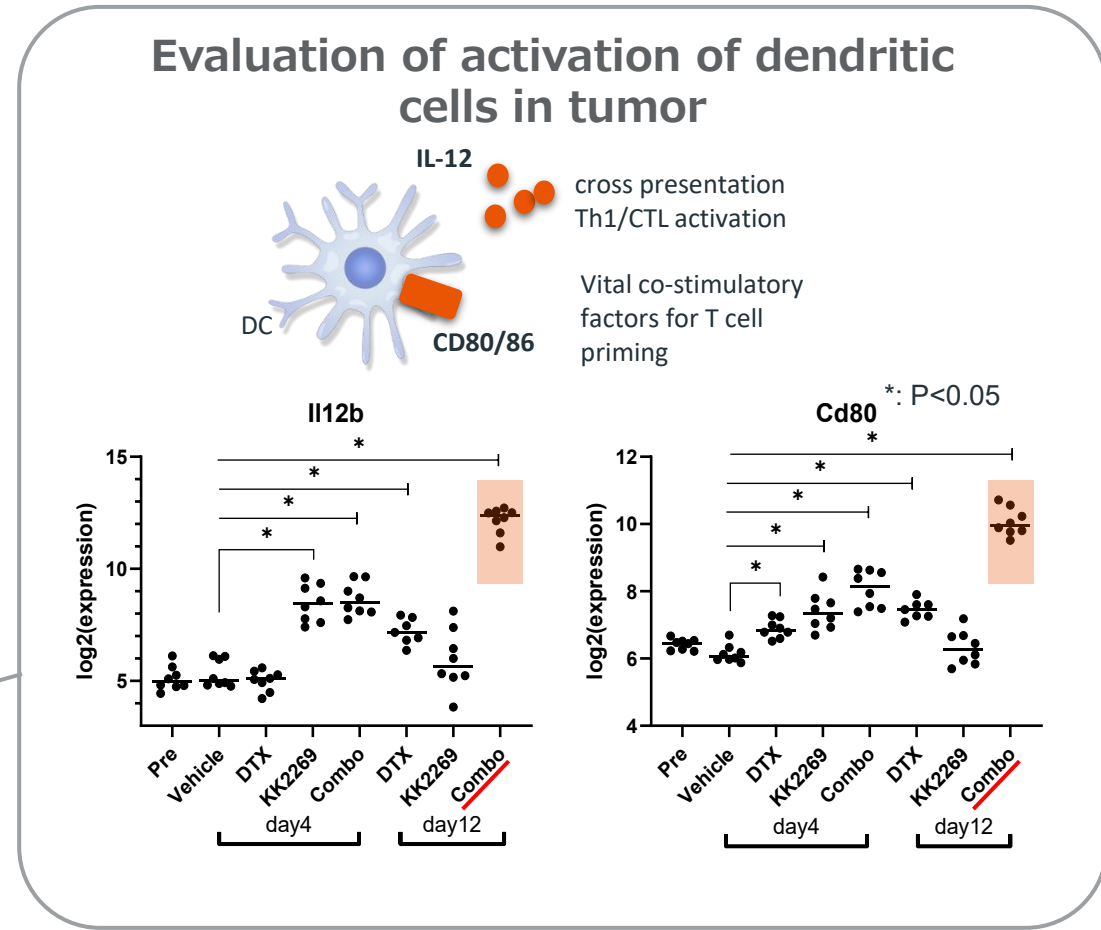
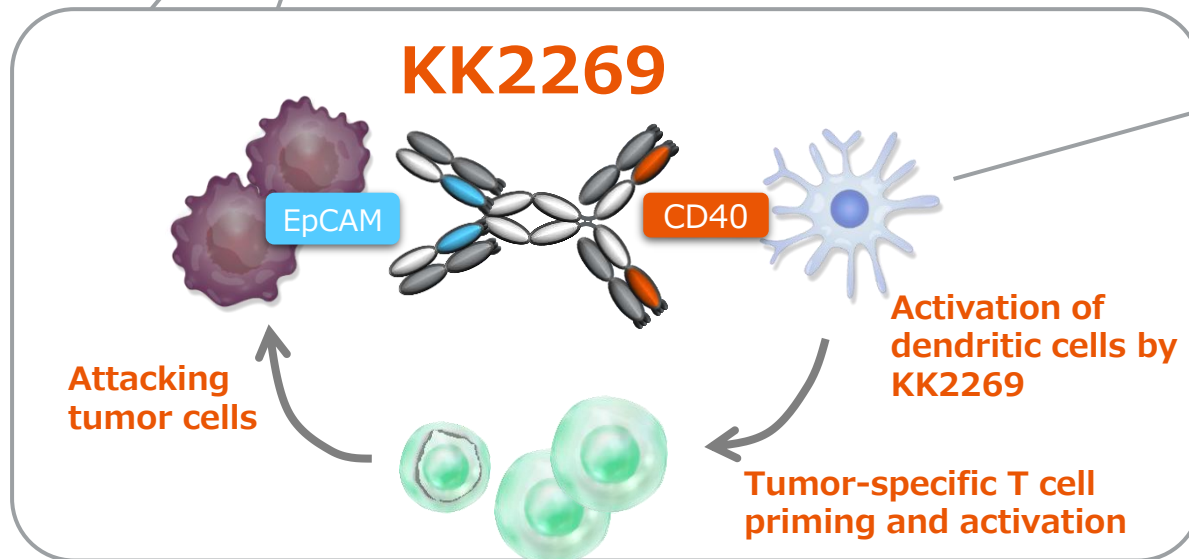
Non-clinical studies demonstrated the concept: anti-tumor efficacy with high safety

At euthanasia due to criteria or at the study endpoint

# Full value of KK2269 in chemo combination



1. Chemo
2. Tumor disruption (ICD\*)
  - Release of tumor antigens and immunostimulants
3. Accumulation of dendritic cells in tumors
  - Activation
  - Tumor antigen uptake
4. Acceleration of the action of KK2269 (tumor-dendritic cell cross-linking)



**Synergy of Chemo+KK2269 was confirmed. POC to be obtained in clinical trials**

# Toward the Successful Creation and Delivery of Life-changing Value

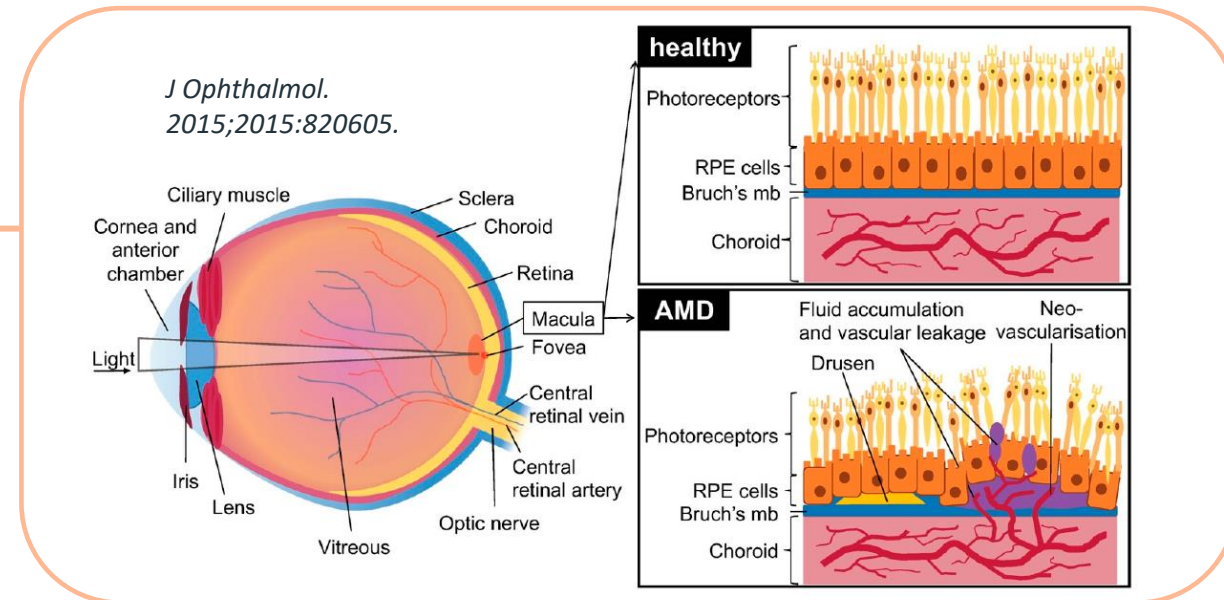
- KHK4951 (Ph1 study results and Ph2 studies overview)
- HSC-GT (Orchard Therapeutics plc)

# KHK4951: tivozanib eyedrop

- Active ingredient - tivozanib: A small molecule VEGFR inhibitor discovered by Kyowa Kirin with high selectivity and potent activity
- Completed Ph1 study in patients with exudative neovascular age-related macular degeneration (nAMD)

- Abnormal angiogenesis results in macular damage and significant vision impairment
- Caused by VEGF\*1 production from retinal pigment epithelial cells
- Drug-treated patient number  
Japan: approx. 200,000 Global: approx. 1.6 million

\*1: Vascular endothelial Growth Factor

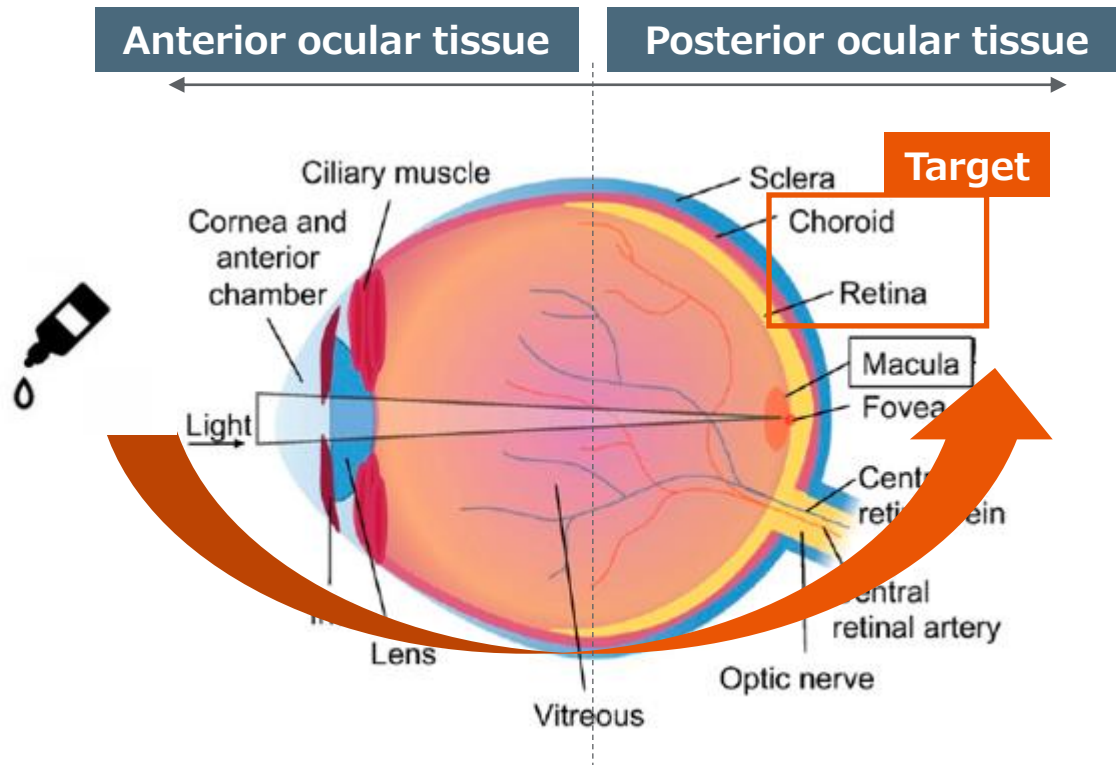


- Standard of Care: Intravitreal injection of anti-VEGF drugs  
Due to invasive administration route and treatment burden (e.g. hospital visit) of the SOC, there is clear medical needs for non-invasive treatment option.



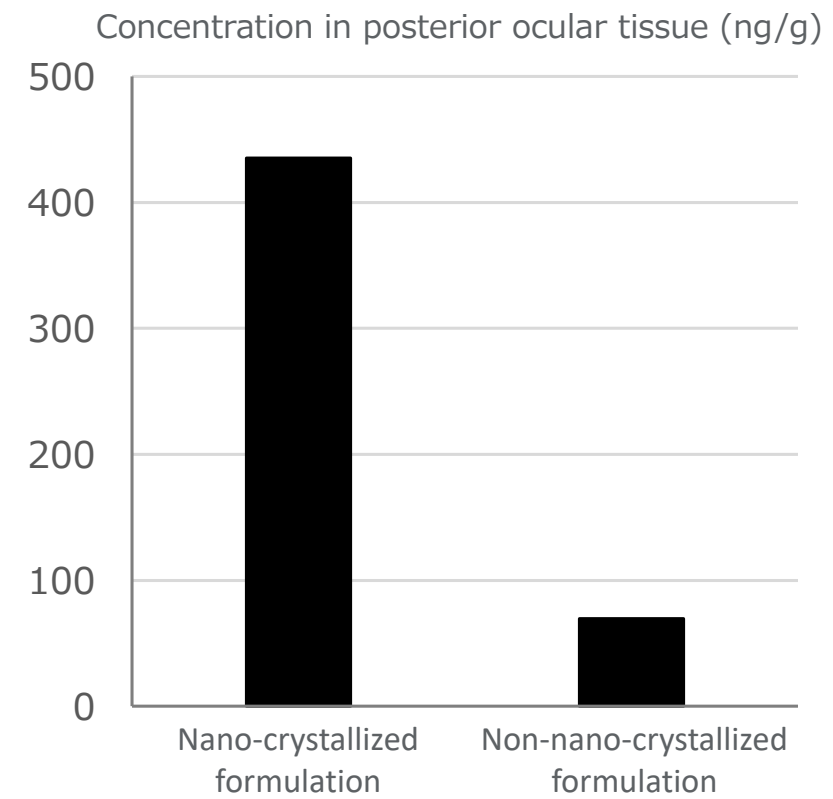
*Lancet 2012; 379: 1728-38*

# Nano-crystallized formulation for delivery of active ingredients to the posterior ocular tissues



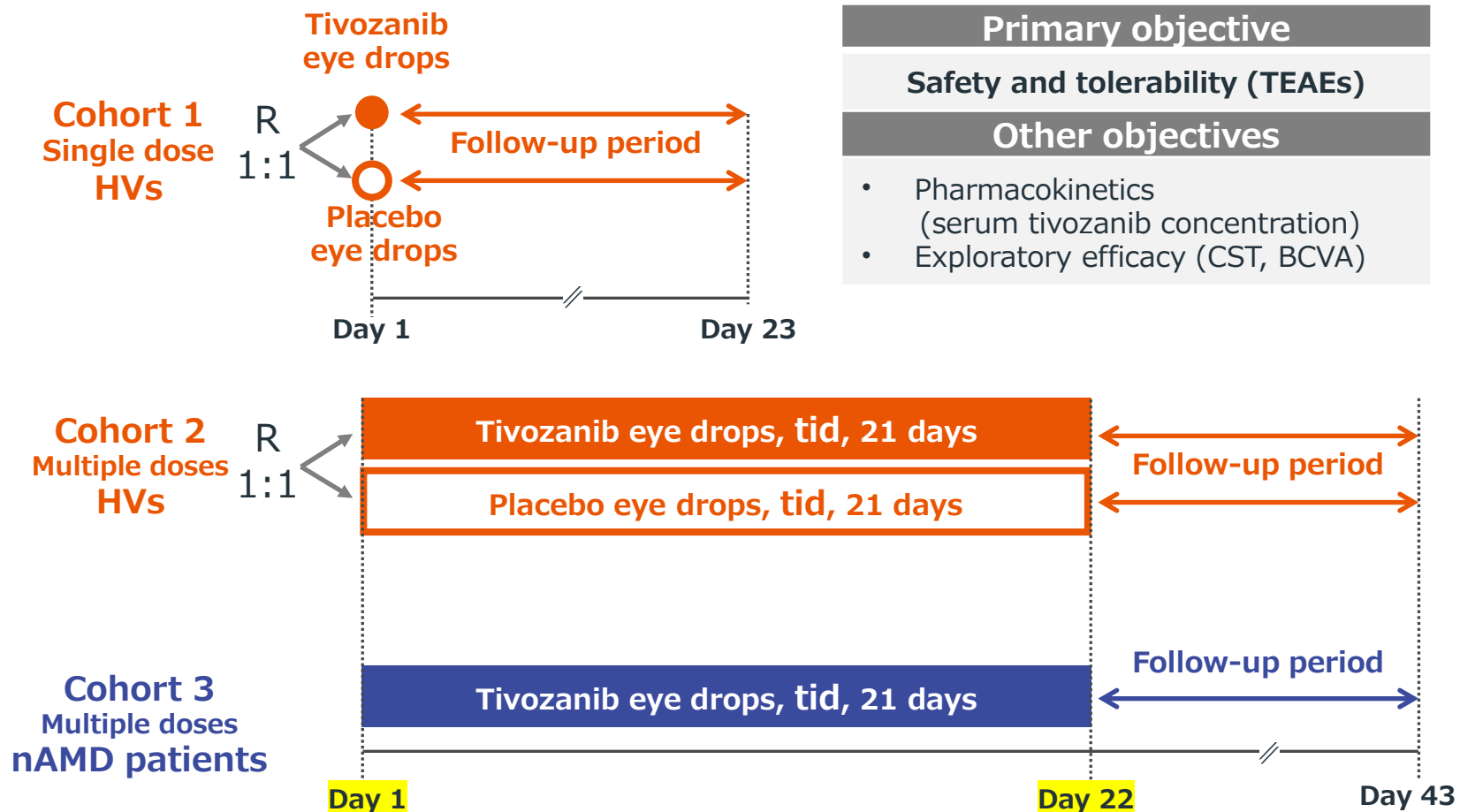
*J Ophthalmol. 2015;2015:820605. (partially modified).*

Drug concentration in the posterior ocular tissue after topical instillation of tivozanib eye-drop to rats



The nano-crystallized formulation we developed enabled efficient delivery of the active ingredients to the posterior ocular tissues.

# Ph1 study



Primary objective
Safety and tolerability (TEAEs)
Other objectives
<ul style="list-style-type: none"> <li>Pharmacokinetics (serum tivozanib concentration)</li> <li>Exploratory efficacy (CST, BCVA)</li> </ul>

Healthy volunteers in cohorts 1 and 2
Inclusion criteria
<ul style="list-style-type: none"> <li>Age ≥ 20 to &lt; 50 years</li> <li>Visual acuity ≥ 20/20</li> </ul>
Exclusion criteria
<ul style="list-style-type: none"> <li>Current illness requiring treatment</li> <li>Current or history of dry eye</li> </ul>

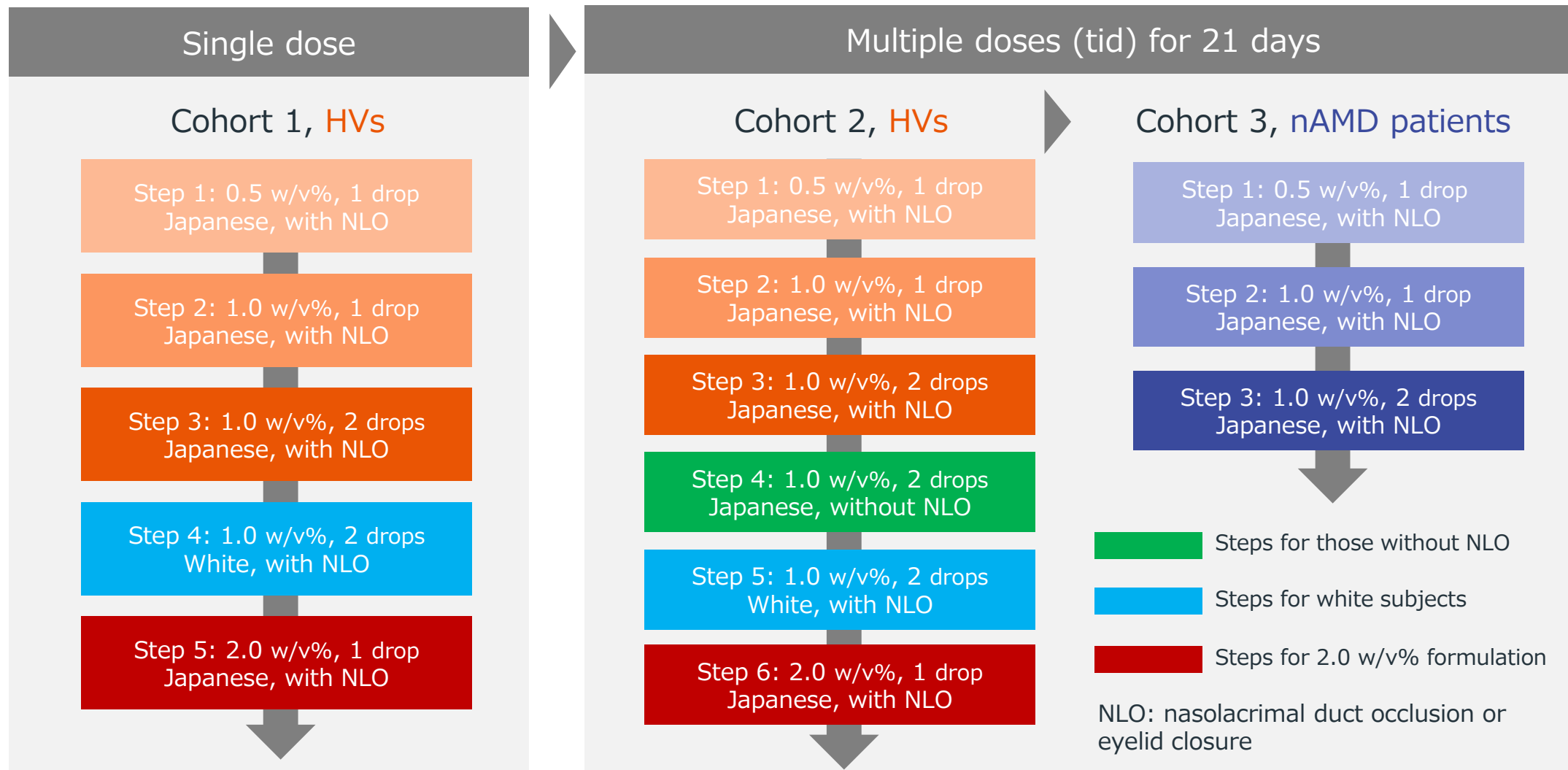
Patients with nAMD* in cohort 3
Inclusion criteria
<ul style="list-style-type: none"> <li>CST ≥ 300 μm</li> <li>BCVA score ≥ 23 letters</li> </ul>
Exclusion criteria
<ul style="list-style-type: none"> <li>Glaucoma, ischemic optic neuropathy, retinitis pigmentosa</li> </ul>

\* Both treatment-naive and previously anti-VEGF treated patients were enrolled.

BCVA: best corrected visual acuity; CST: central subfield thickness;  
 HVs: healthy volunteers; R: randomization; TEAE: treatment-emergent adverse event; tid: three times a day.



# Ph1 study: Dosage regimen



# Ph1 study: Safety

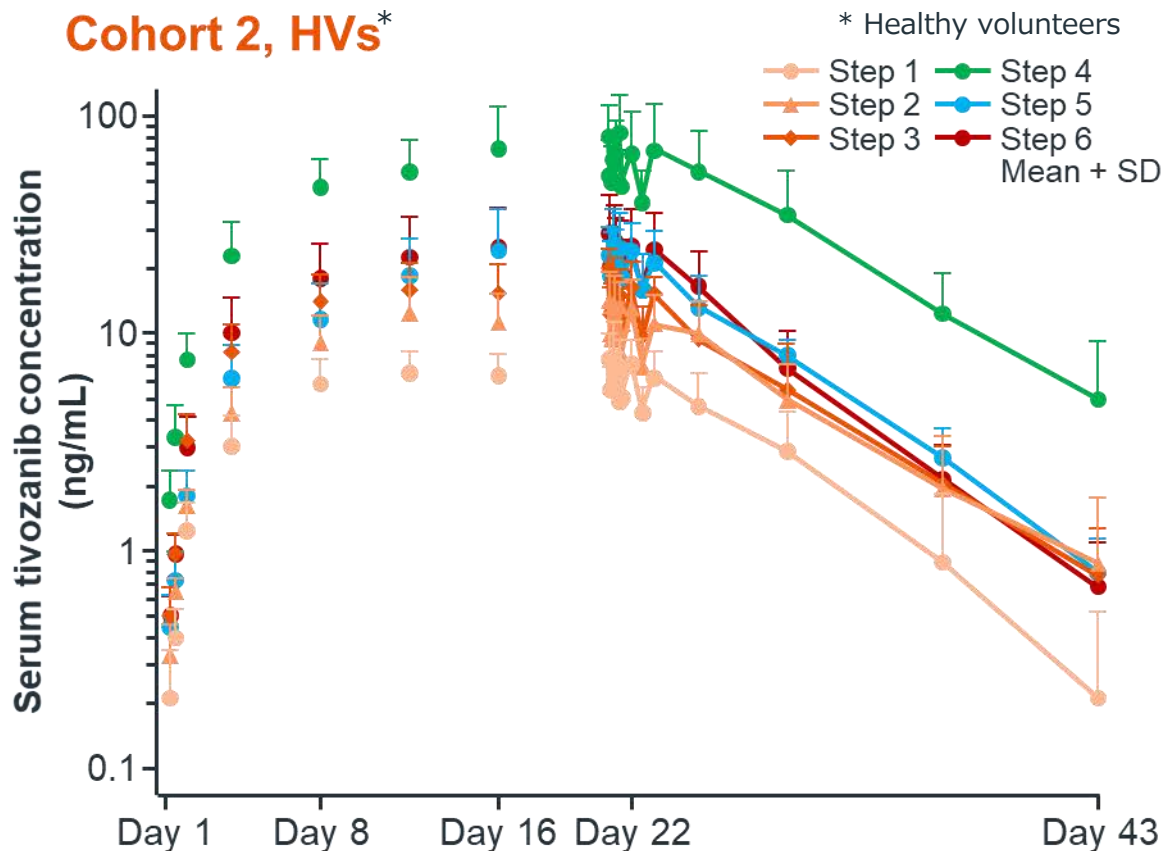
Any TEAE or ocular AE in the study eye	Placebo (tid), HVs (n = 12)		Tivozanib (tid), HVs										Tivozanib (tid), nAMD patients											
			Step 1 Jpn with* 0.5 w/v% 1 drop (n = 6)		Step 2 Jpn with* 1.0 w/v% 1 drop (n = 6)		Step 3 Jpn with* 1.0 w/v% 2 drops (n = 6)		Step 4 Jpn without† 1.0 w/v% 2 drops (n = 6)		Step 5 White with* 1.0 w/v% 2 drops (n = 6)		Step 6 Jpn with* 2.0 w/v% 1 drop (n = 6)		HV Total (n = 36)		Step 1 Jpn with* 0.5 w/v% 1 drop (n = 7)		Step 2 Jpn with* 1.0 w/v% 1 drop (n = 10)		Step 3 Jpn with* 1.0 w/v% 2 drops (n = 11)		nAMD patients Total (n = 28)	
Any TEAE, n (%)	2	(16.7)	3	(50.0)	4	(66.7)	6	(100.0)	6	(100.0)	4	(66.7)	5	(83.3)	28	(77.8)	3	(42.9)	4	(40.0)	5	(45.5)	12	(42.9)
Death, other serious, or other significant	0		0		0		0		0		0		0		0		0		0		0		0	
Eye disorders, n (%)	1	(8.3)	2	(33.3)	4	(66.7)	2	(33.3)	6	(100.0)	3	(50.0)	5	(83.3)	22	(61.1)	1	(14.3)	4	(40.0)	3	(27.3)	8	(28.6)
Punctate keratitis	1	(8.3)	2	(33.3)	2	(33.3)	1	(16.7)	6	(100.0)	3	(50.0)	3	(50.0)	17	(47.2)	0		1	(10.0)	3	(27.3)	4	(14.3)
Eye irritation	0		0		3	(50.0)	1	(16.7)	4	(66.7)	1	(16.7)	3	(50.0)	12	(33.3)	0		2	(20.0)	0		2	(7.1)
Foreign body sensation in eyes	0		0		0		1	(16.7)	0		1	(16.7)	2	(5.6)	0		0		0		0		0	
Vision blurred	0		0		0		1	(16.7)	0		0		1	(2.8)	0		0		0		0		0	
Eye pruritus	0		0		0		0		0		1	(16.7)	0		1	(2.8)	0		0		0		0	
Eye pain	0		0		0		0		0		0		0		0		0		1	(10.0)	0		1	(3.6)
Lacrimation increased	0		0		0		0		0		0		0		0		0		1	(10.0)	0		1	(3.6)
Pinguecula	0		0		0		0		0		0		0		0		1	(14.3)	0		0		1	(3.6)
Swelling of eyelid	0		0		0		0		0		0		0		0		0		1	(10.0)	0		1	(3.6)

TEAE: any adverse event (AE) that occurred or worsened in the period between the first administration of the study drug and the end of the study; death: any AE with an outcome of 'fatal'; other serious: serious AEs other than death; other significant: non-serious AEs leading to withdrawal of the investigational product. \*With nasolacrimal duct occlusion or eyelid closure. † Without nasolacrimal duct occlusion or eyelid closure. Jpn: Japanese.

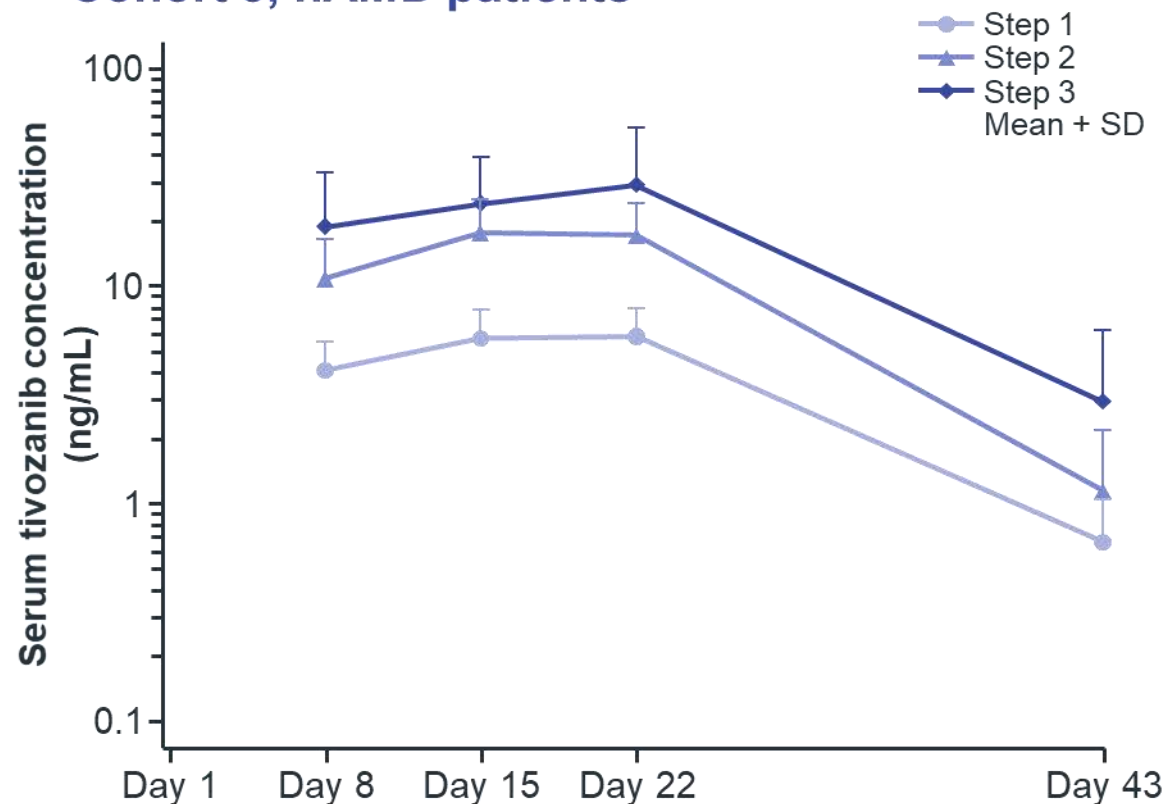
No serious adverse events leading to study discontinuation were observed in either HVs or Japanese nAMD patients

# Ph1 study: Serum Drug Concentration

## Cohort 2, HVs\*



## Cohort 3, nAMD patients



- Mean serum concentrations of tivozanib increased in a dose-dependent manner.
- No significant differences in serum pharmacokinetics were observed between HVs and nAMD patients.

# KHK4951 Ph1 study summary

## Safety

- There were **no serious AEs or AEs leading to discontinuation.**
- **There were no remarkable differences in its safety profiles between Japanese and White, and between HVs and nAMD patients.**

## Pharmacokinetics

- Mean serum tivozanib concentration increased in a dose-dependent manner.
- No significant differences in serum concentration were found between HVs and nAMD patients.

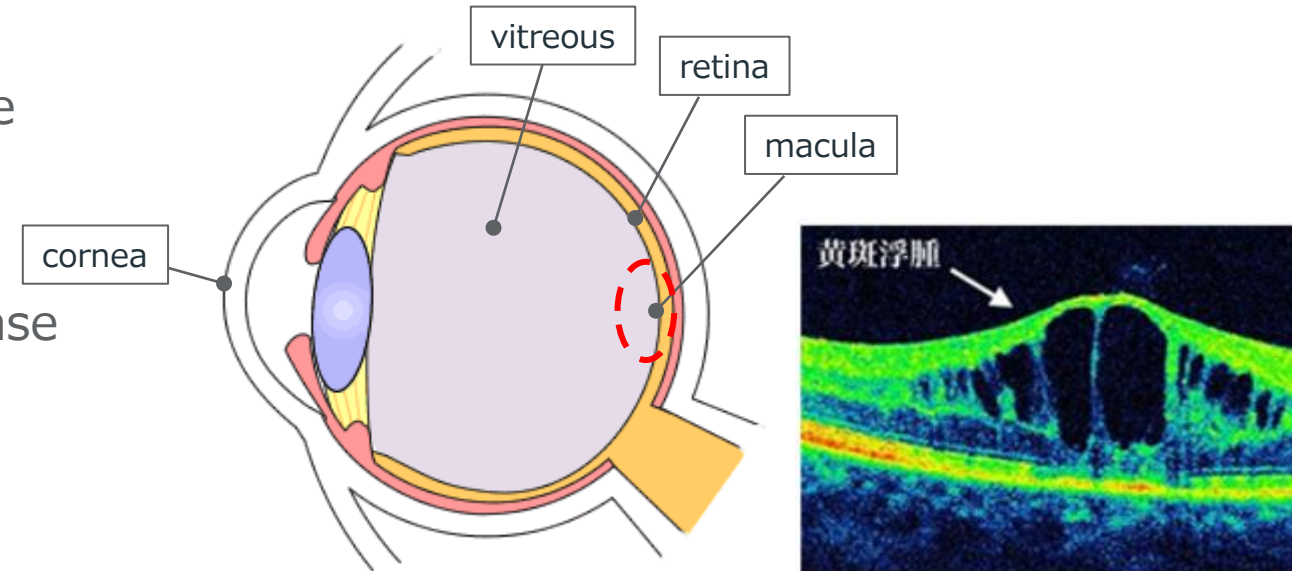
+ Exploratory evaluation of efficacy also conducted

**Decided to conduct Ph2 study based on the Ph1 study results**

# Diabetic Macular Edema (DME)

\*Target indication for Ph2 study

- As a complication of diabetic retinopathy, high blood sugar causes damage to capillaries in the macula, resulting in edema of the macula and impairment of vision
- VEGF contributes the development of the disease
- Number of patients treated with drugs:
  - Japan: approx. 140K, Global: approx. 1.3M
- Standard of Care:
  - Intravitreal injection of anti-VEGF drugs or steroids, or intraocular implants
  - Ocular surgery (vitrectomy, laser treatment)



References : <https://www.civillink.net/fsozai/eye.html>  
<https://www.eye.med.kyushu-u.ac.jp/patient/question/index3.html>

**Current treatment methods are all highly invasive  
 A need for less invasive treatment options**

# KHK4951 Ph2 study overview

<b>Locations</b>	<ul style="list-style-type: none"> <li>(For both studies) JP, US, AU, KR</li> </ul>
<b>Study Completion (estimated)</b>	<ul style="list-style-type: none"> <li>(For both studies) 2026Q1</li> </ul>
<b>Enrollment (estimated)</b>	<ul style="list-style-type: none"> <li>nAMD 180, DME 150</li> </ul>
<b>Primary Endpoint</b>	<ul style="list-style-type: none"> <li>Reduction of 15 or more letters in BCVA (Best corrected visual acuity) as measured by ETDRS<sup>2</sup> visual acuity chart from baseline</li> </ul>

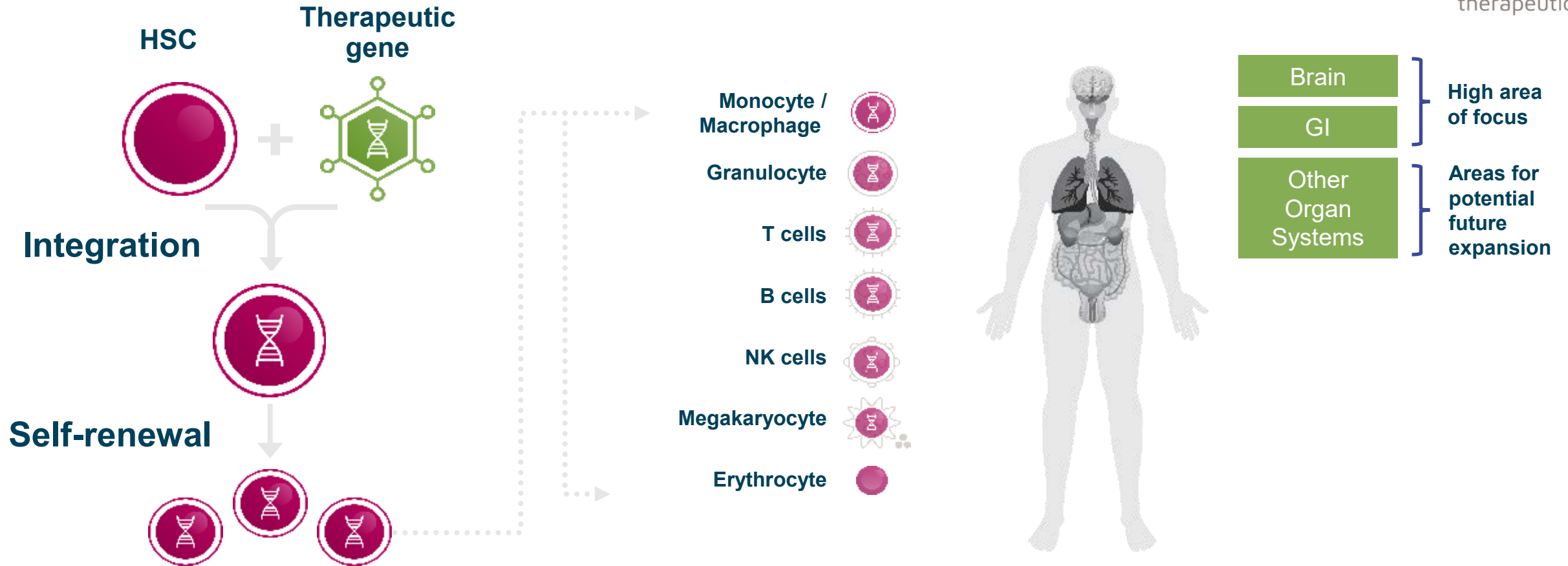
<b>Participant Group/Arm</b>	<b>Intervention/Treatment</b>
<b>Experimental: Arm A KHK4951 High dose</b>	<ul style="list-style-type: none"> <li>Drug: KHK4951 KHK4951 eye drop for 44(nAMD)/36(DME) weeks until end of the trial</li> <li>Drug: Aflibercept Injection Intravitreal injection (IVT) of aflibercept will be given as specified in the protocol</li> </ul>
<b>Experimental: Arm B KHK4951 Middle dose</b>	
<b>Experimental: Arm C KHK4951 Low dose</b>	

1. Clinical Trials.gov ID: NCT06116890 (nAMD), NCT06116916 (DME); jRCT ID: jRCT2031230401 (nAMD), jRCT2031230400 (DME) 2. Early Treatment Diabetic Retinopathy Study

# Toward the Successful Creation and Delivery of Life-changing Value

- KHK4951 (Ph1 study results and Ph2 studies overview)
- HSC-GT (Orchard Therapeutics plc)

# Hematopoietic Stem Cell Gene Therapy (HSC-GT)



**HSC-GT allows delivery of gene-modified blood/immune cells to any part of the body**

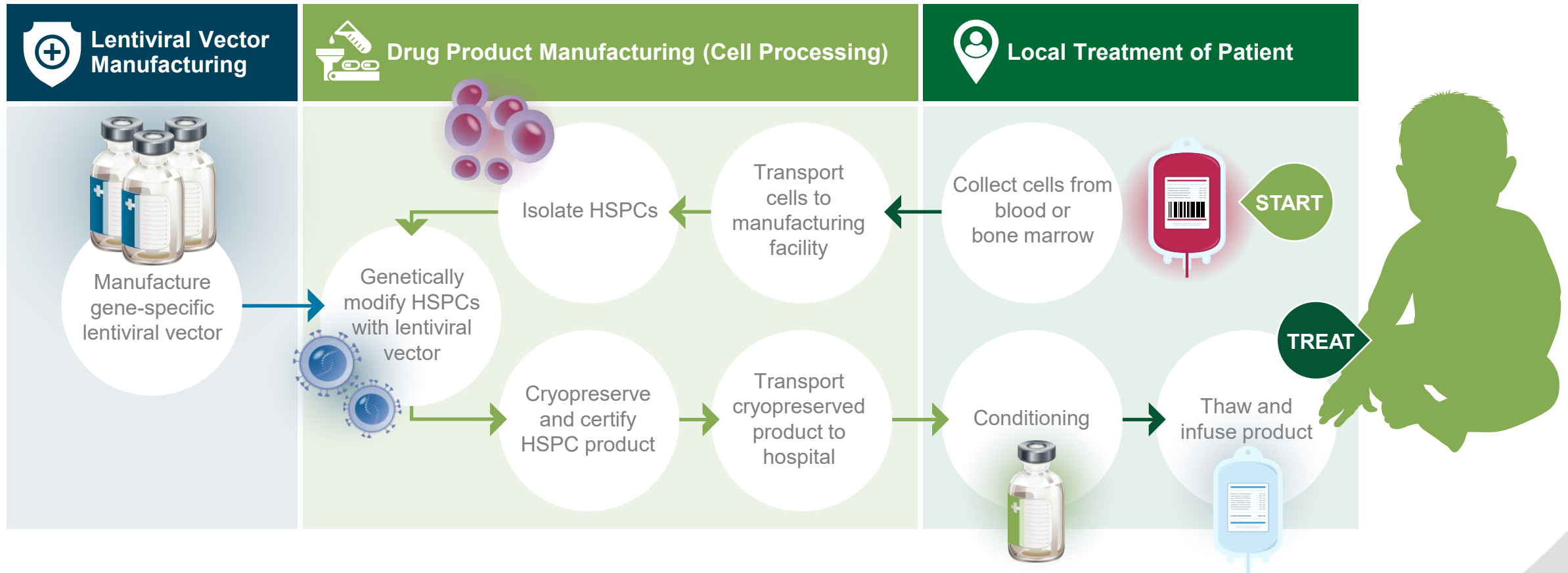
Literature references: Alessia Capotondo, Rita Milazzo, Letterio Salvatore Politi, Angelo Quattrini, Alessio Palini, Tiziana Plati, Stefania Merella, Alessandro Nonis, Clelia di Serio, Eugenio Montini, Luigi Naldini, and Alessandra Biffi, PNAS September 11, 2012 109 (37) 15018-15023; <https://doi.org/10.1073/pnas.1205858109>; Tissue macrophages: heterogeneity and functions, Simon Gordon and Annette Plüddemann, BMC Biology 2017 15:53, 29 June 2017



# Gene Therapy Manufacturing

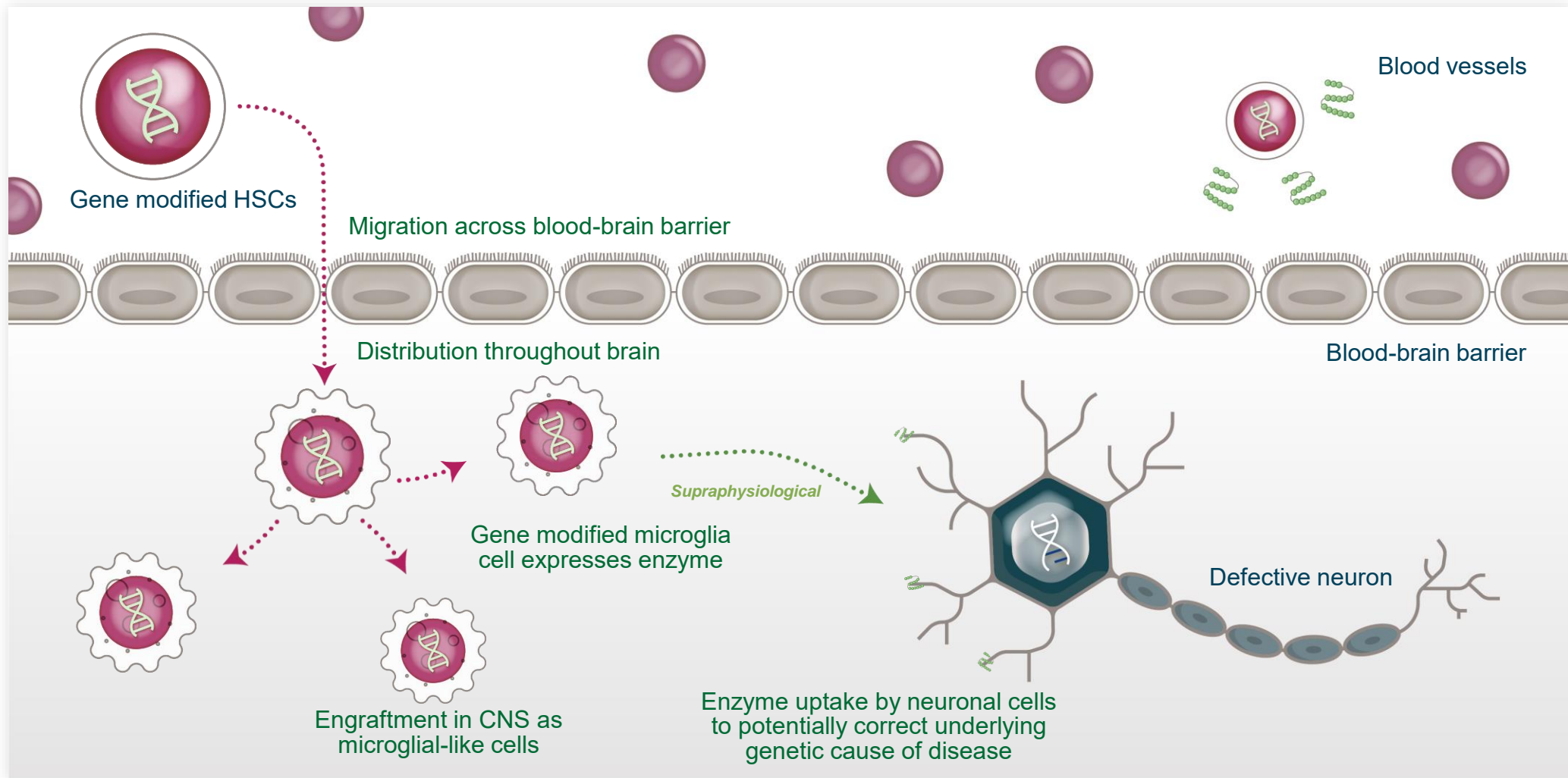
## GMP Cell Product Manufacturing Platform

### Orchard Therapeutics Supply Chain



# Delivering Proteins to Brain

Potential to Treat Multi-System Neurometabolic Diseases via Cross-Correction

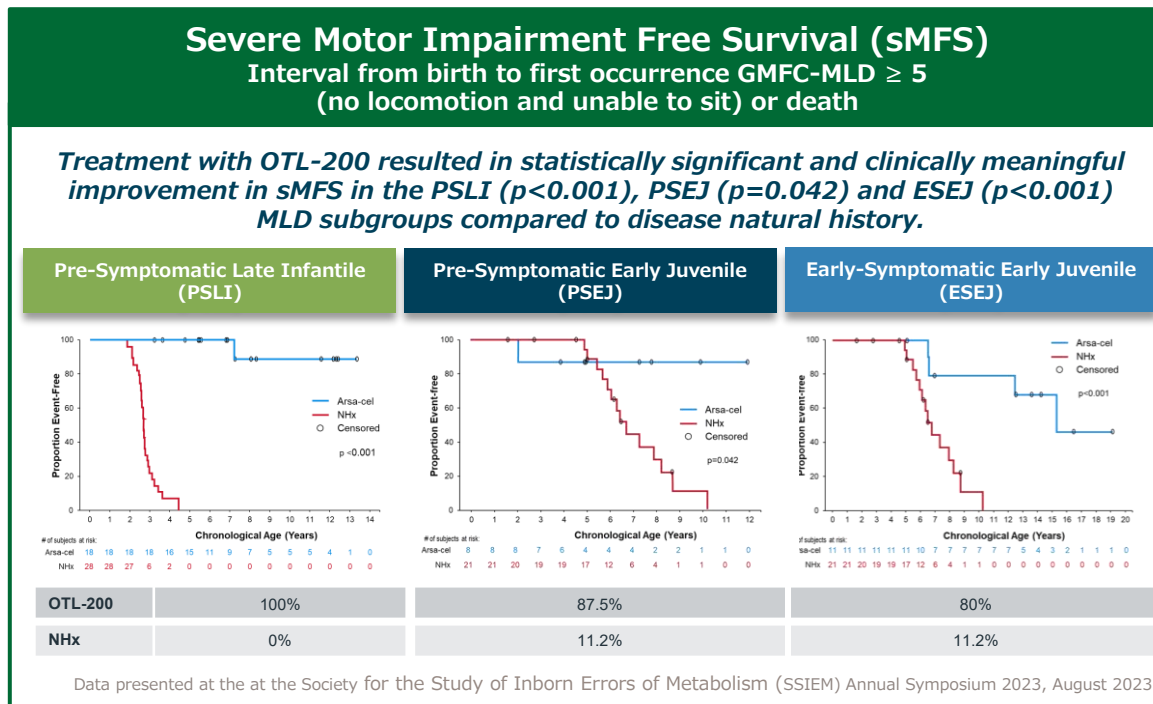


# Libmeldy® (OTL-200, atidarsagene autotemcel)

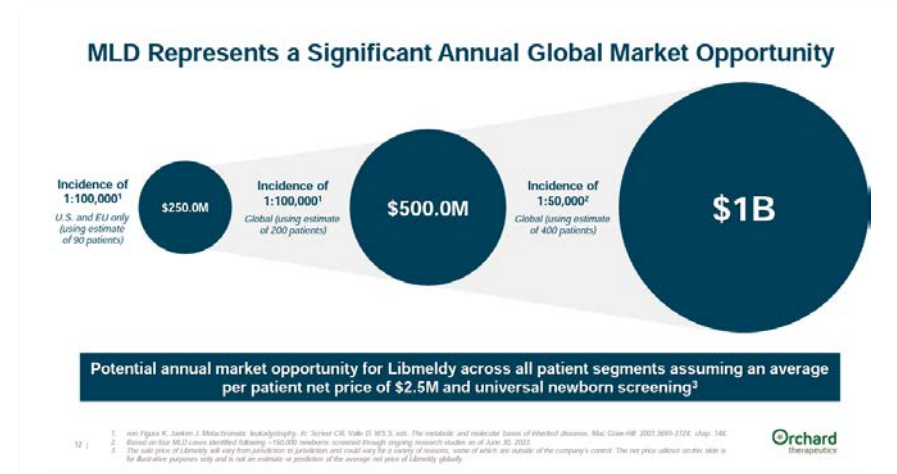
## ■ MLD (Metachromatic Leukodystrophy)

- Fatal genetic CNS disorder
- Rapid and irreversible loss of motor and cognitive function
- In its most severe form, most children pass away within five years of symptom onset<sup>1</sup>

Status	Next Catalyst	Expected timing of Catalyst
Launched in Europe Filed in US	FDA approval	PDUFA: March 18, 2024



Ref.) Orchard Therapeutics plc, Q2 2023 Financial Results and Webcast <https://ir.orchard-tx.com/static-files/9fed8b65-2fd9-491a-97c0-69bf6595c0c3>



Potential annual market opportunity for Libmeldy® across all patient segments assuming an average per patient net price of \$2.5M and universal newborn screening<sup>2</sup>

1. van Rappard DF, Boelens JJ, Wolf NI. Metachromatic leukodystrophy: disease spectrum and approaches for treatment. Best Pract Res Clin Endocrinol Metab 2015; 29: 261-73.  
2. The sale price of Libmeldy® will vary from jurisdiction to jurisdiction and could vary for a variety of reasons, some of which are outside of the company's control. The net price utilized on this slide is for illustrative purposes only and is not an estimate or prediction of the average net price of Libmeldy® globally.

# Development Pipelines: OTL-203, OTL-201

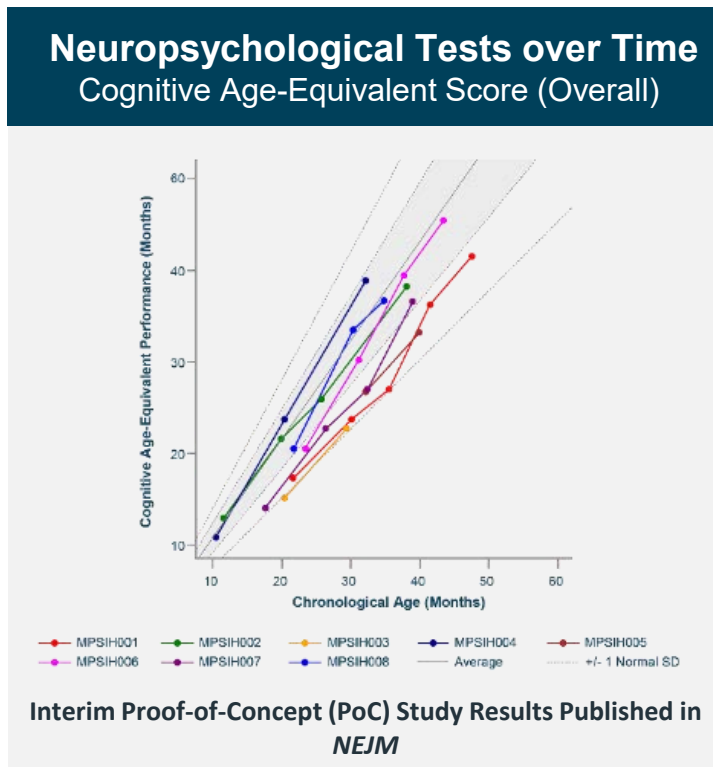
## OTL-203

### ■ Indication: MPS-IH<sup>1</sup>

- Multisystemic neurometabolic condition affecting cognition, growth and skeletal function
- ~1:100,000 live births; NBS<sup>2</sup> established in some geographies, incl. U.S.

### ■ Current Status

- Interim PoC results published in NEJM<sup>3</sup>
- Moving into a Pivotal (Ph3) study in 2H 2023



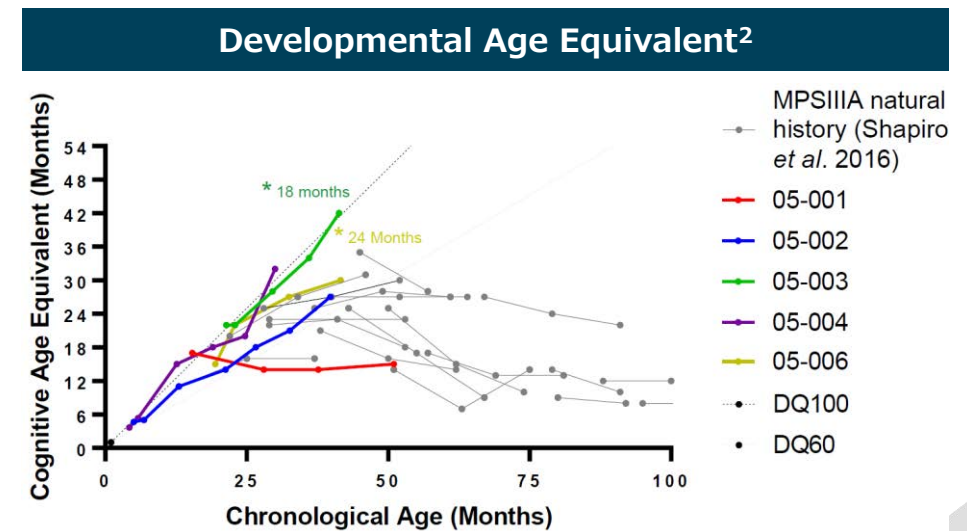
## OTL-201

### ■ Indication: MPS-III A<sup>4</sup>

- Accumulation of substrate heparan sulfate leading to severe CNS degeneration w/ somatic manifestations
- Development slows from 3 years of age, followed by cognitive decline, behavioral disturbances, loss of skills and eventual death, No successful treatment options

### ■ Current Status

- PoC study (Ph1/2) is ongoing
- Biochemical/clinical data reported in 2023 ASGCT meeting



# Expected Synergy

## Further Development as a Japan-Based Global Specialty Pharmaceutical Company

- To be a Japan-based Global Specialty Pharmaceutical Company providing life-changing value to high unmet medical needs in concert with our existing business through Crysvita and Poteligeo

## Reinforcement of Innovative New Drug Discovery & Development

### Kyowa Kirin

- Experience and expertise of R&D and commercialization in Biologics and Antibody Drugs
- Proprietary next-generation antibody technology
- Continuous efforts on new modalities



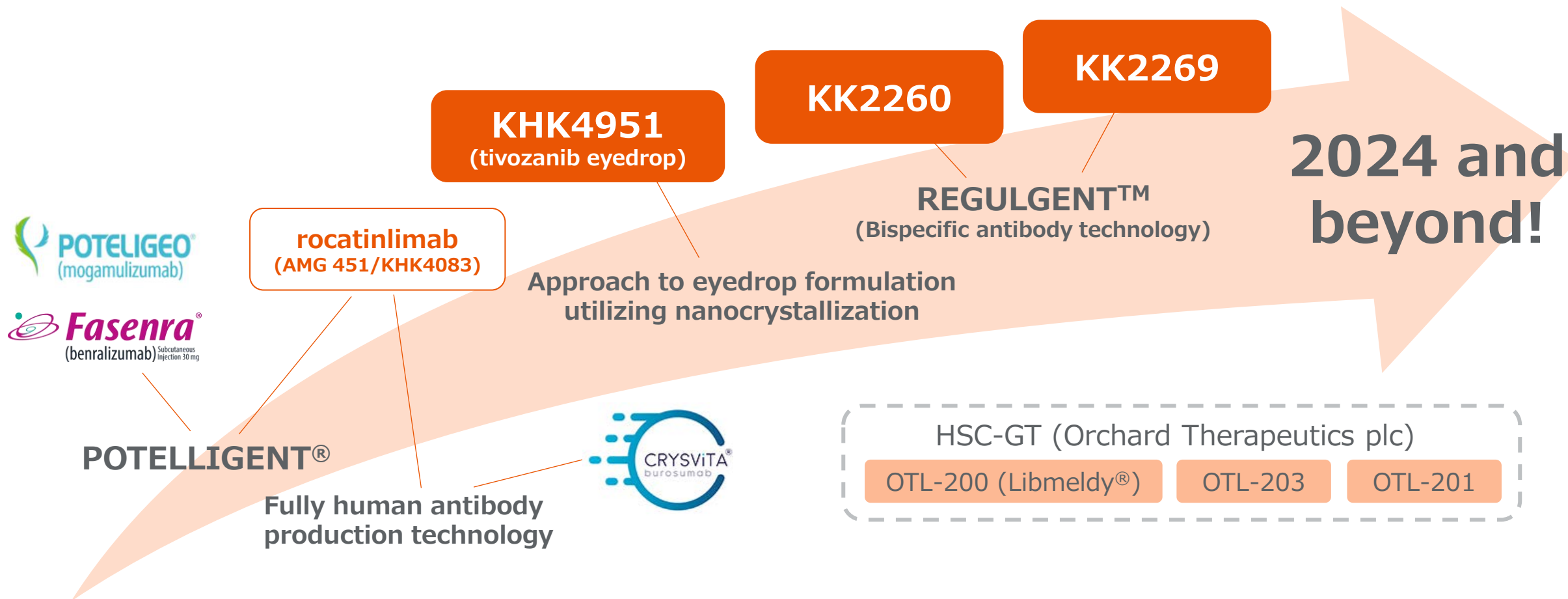
### Orchard Therapeutics

- Experience and know-how in the marketing HSC-GT<sup>1</sup> in EU
- High technology in HSC-GT<sup>1</sup> (Research, CMC, SCM, etc.)
- Patient access and collaboration with medical institutions
- Efforts and experience in new modalities

- A key step toward delivering advanced value to patients
  - Pursuing the potential for “One-time treatment in life”
  - Challenge to correct the underlying cause of a genetic disease
  - Personalized medicine / Precision medicine
  - Providing treatment beyond the existing drugs
- Address a broader range of UMN

1. Hematopoietic Stem Cell Gene Therapy

# Innovative New Drug Creation by Kyowa Kirin Drug Discovery Technology



Kyowa Kirin will realize the successful creation and delivery of life-changing value that ultimately makes people smile

**KYOWA KIRIN**