



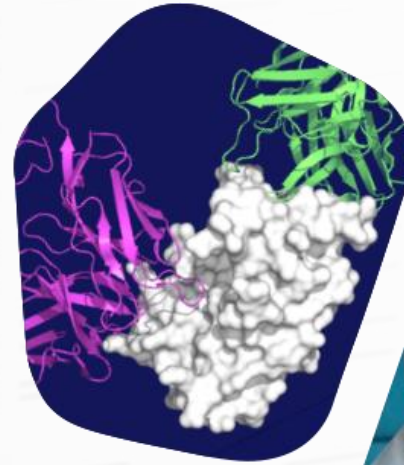
NGM Biopharmaceuticals, Inc.

NASDAQ: NGM

R&D Day

December 9, 2020

Novel Biology. Powerful Medicines. Transformative Impact.



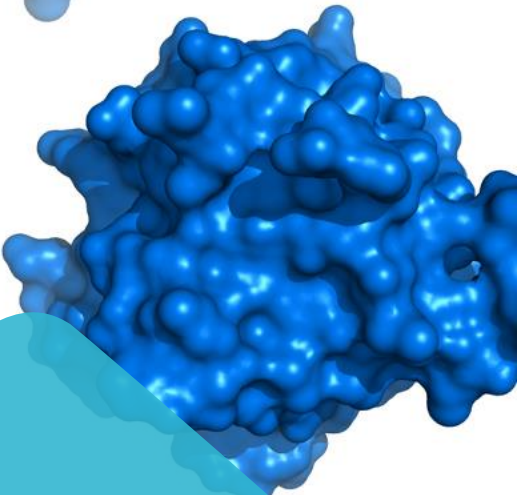
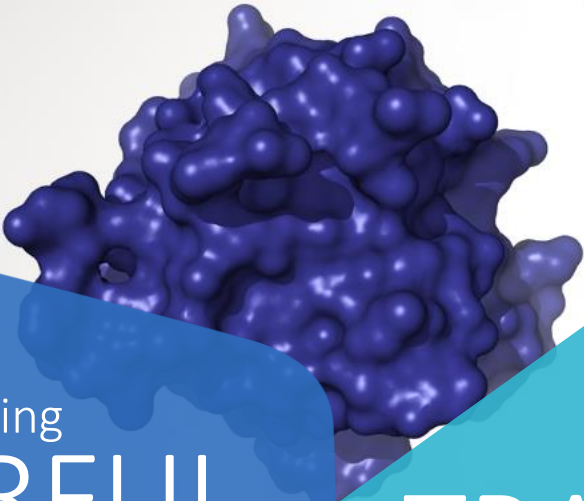
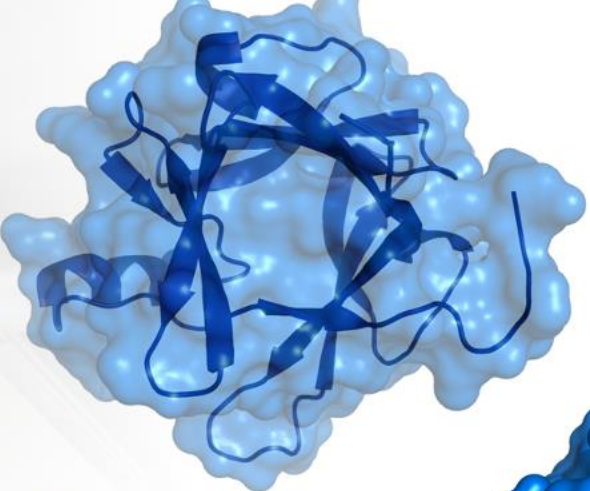


David Woodhouse, Ph.D.
Chief Executive Officer



Safe Harbor Statement

The following series of presentations contain forward-looking statements, including, but not limited to, statements regarding potential indications for, planned development of, and therapeutic potential of, product candidates in NGM's pipeline, including aldafermin, MK-3655 (NGM313), NGM621, NGM120, NGM438 and NGM707; the planned timing of initiation, enrollment and results of NGM's clinical trials; potential future late-stage development of product candidates in NGM's pipeline, including aldafermin and NGM621; the potential activity, complementarity, safety, tolerability and efficacy of NGM's product candidates, including the potential for MK-3655 and aldafermin to be complementary treatments for non-alcoholic steatohepatitis (NASH); the potential roles of ILT2, ILT4 and LAIR1 in cancer and the potential consequences of ILT2, ILT4 and LAIR1 blockade; anticipated regulatory submissions and actions; NGM's option to participate in the economic return of any programs licensed by NGM's collaborator, Merck, and Merck's funding commitments under NGM's collaboration with Merck; NGM's opportunities for value creation and its ability to deliver powerful or transformational treatments; and any other statements other than statements of historical facts. Because such statements deal with future events and are based on NGM's current plans, objectives, estimates and expectations, they are subject to various significant risks and uncertainties and actual results, performance and achievements and the timing of events could differ materially from those described in or implied by the statements herein. Such risks and uncertainties include, without limitation, those associated with the costly and time-consuming pharmaceutical product development process and the uncertainty of clinical success, including risks related to failures or delays in successfully initiating, enrolling or completing clinical trials; the risk that results obtained in NGM's clinical trials to date may not be indicative of results obtained in ongoing or future trials, including pivotal trials, including the risk that ongoing or future studies will not show that aldafermin and/or MK-3655 are tolerable or effective treatments for NASH patients or that NGM621 is a tolerable or effective treatment for geographic atrophy (GA); the risk that preclinical studies or modeling may not be indicative of results in future human clinical trials; the risk that clinical trials of NGM438, NGM707 and NGM120 will not show that NGM438, NGM707 and/or NGM120 are tolerable or effective treatments in cancer indications; the risk that others may discover, develop or commercialize products before or more successfully than NGM, including in NASH; the ongoing COVID-19 pandemic which has adversely affected, and could materially and adversely affect in the future, NGM's business and operations, including NGM's ability to timely supply, initiate, enroll and complete its ongoing and future clinical trials; the time-consuming and uncertain regulatory approval process, including the risk that NGM or Merck may not receive marketing approvals for any of NGM's product candidates in a timely manner, or at all; seeking and maintaining protection of intellectual property; NGM's reliance on third party manufacturers and delays or problems in the manufacture of product candidates; NGM's dependence on its collaboration with Merck for the development and potential commercialization of its product candidates, including the risk that Merck may unilaterally terminate its annual funding of NGM's research and development program; the sufficiency of NGM's cash resources and need for additional capital; and other risks and uncertainties affecting NGM and its research and development programs, including those described under the caption "Risk Factors" and elsewhere in NGM's quarterly report on Form 10-Q for the quarter ended September 30, 2020 and future filings and reports of NGM with the Securities and Exchange Commission. The forward-looking statements contained in the following series of presentations are made only as of the date hereof or as of the dates indicated in the forward-looking statements, even if they are subsequently made available by NGM on its website or otherwise. NGM undertakes no obligation to update or supplement any forward-looking statements after the date hereof, or to update the reasons why actual results may differ or differ materially from those anticipated in the forward-looking statements.



Interrogating
**HUMAN
BIOLOGY**

Engineering
**POWERFUL
BIOLOGICS**

To
**TRANSFORM
TREATMENT**

In
**LARGE PATIENT
POPULATIONS**



With
**SIGNIFICANT
NEED**



Our Vision: Build an Iconic Biologics Therapeutic Company

NGM Approach

NGM

Four Guiding Principles

1. Focus on emerging human biology
2. Develop novel, transformational medicines
3. Multi-pronged approach: parallel drug discovery programs, constant discipline and prioritization
4. Biologics-focused, but modality flexible

DELIVER TRANSFORMATIVE TREATMENTS

3

Therapeutic areas

7

Disclosed programs

5

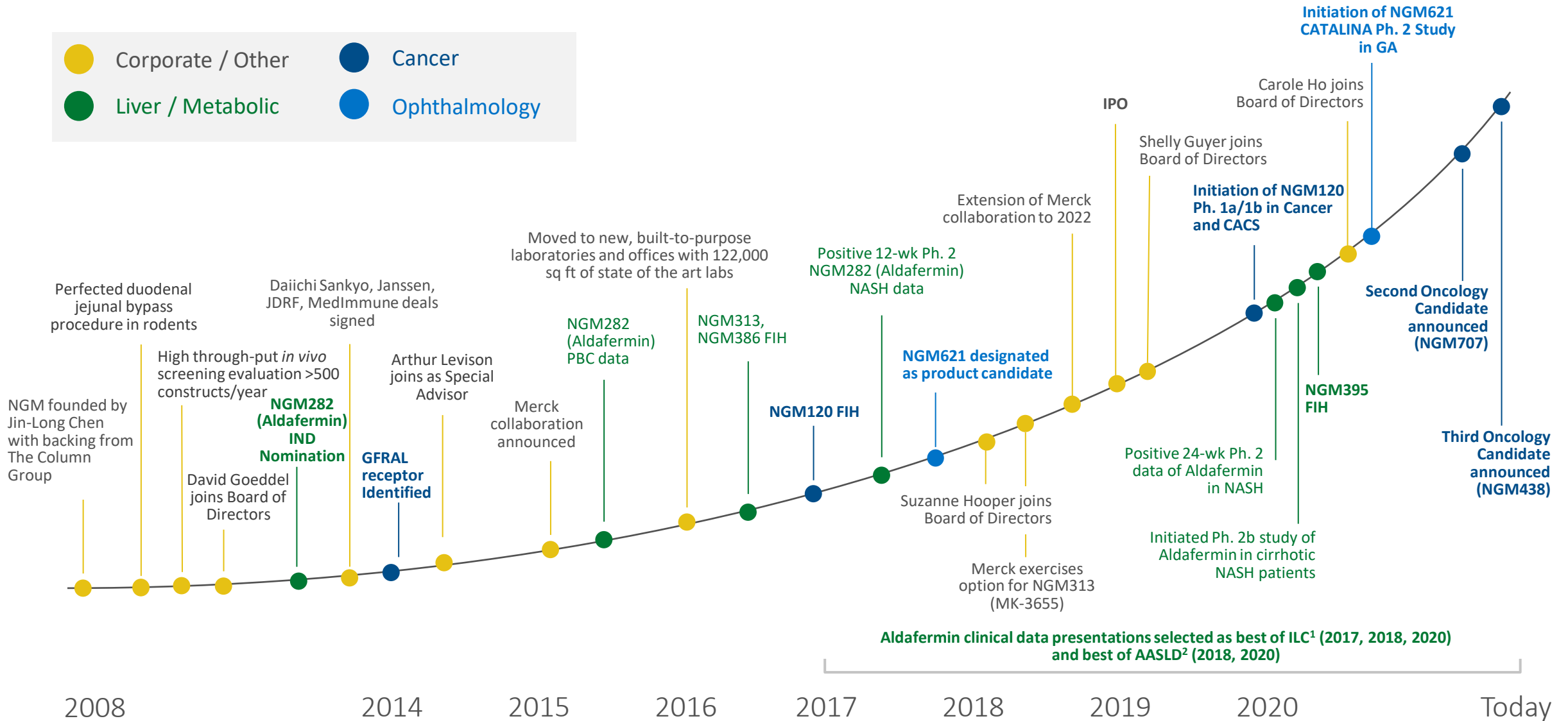
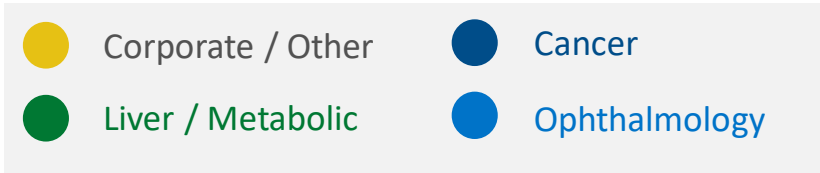
Programs in clinical development

3

Programs in Ph2b/Ph3-enabling studies

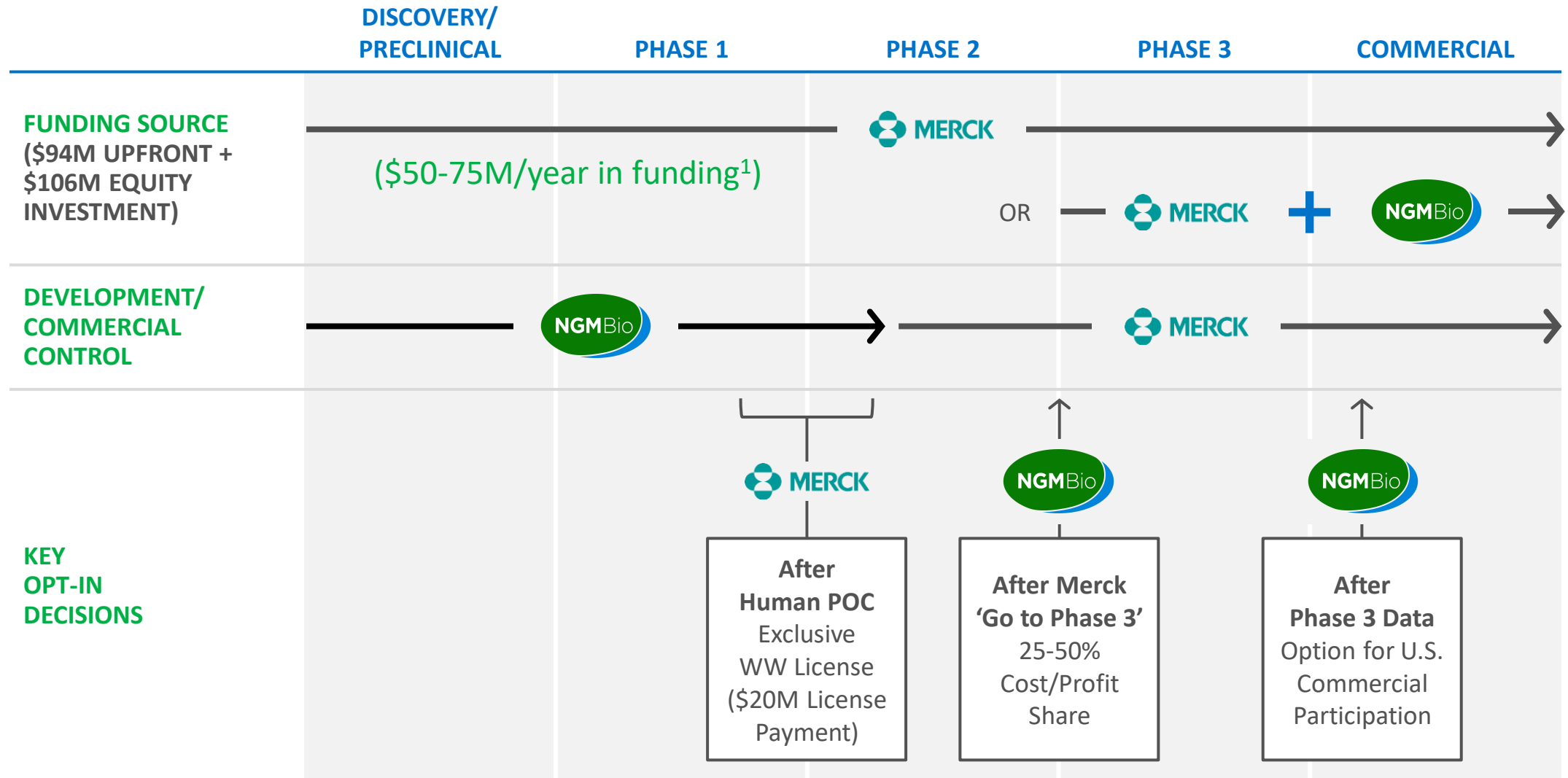
REPEATABLE & SCALABLE

This Strategy has Fueled our Growth to Date



¹American Associate for the Study of Liver Diseases – The Liver Meeting; ²EASL International Liver Congress™ ; FIH – First In Human

Merck Partnership Allows Us to Maximize Value of R&D Engine



¹ Merck has committed to provide R&D reimbursement of up to \$50 million per year through the current two-year extension of the research phase of our collaboration with Merck through March 16, 2022. If our R&D expenses exceed \$50 million in a given year, Merck can either reimburse up to an additional \$25 million for use in funding IND-enabling or later-staged activities or provide us with the equivalent value in in-kind services for such activities.

Diverse Pipeline, Many Opportunities for Value Creation

Programs to be discussed today:

LIVER & METABOLIC DISEASES				
NASH F2/F3	Aldafermin	FGF19 Analog	PHASE 2B	Topline Data Expected 2Q21
NASH F4	Aldafermin	FGF19 Analog	PHASE 2B	Enrolling
NASH	MK-3655	FGFR1c/KLB Agonistic Antibody	PHASE 1A/1B	Ph2b Initiation Expected 4Q20
RETINAL DISEASES				
Geographic Atrophy	NGM621	Anti-Complement C3 Antibody	PHASE 2	Enrolling
CANCER				
Cancer & CACS	NGM120	GFRAL Antagonistic Antibody	PHASE 1A/1B	Enrolling
Advanced Solid Tumors	NGM707	ILT2/ILT4 Dual Antagonist Antibody	IND-ENABLING STUDIES	Ph1 Initiation Expected Mid-21
Advanced Solid Tumors	NGM438	To be discussed later today	IND-ENABLING STUDIES	Ph1 Initiation Expected 4Q21

NASH = non-alcoholic steatohepatitis; FGF = fibroblast growth factor; GDF = growth differentiation factor; KLB = klotho beta; C3 = Component 3; GFRAL = glial cell-derived neurotrophic factor receptor alpha-like; CACS = Cancer Anorexia-Cachexia Syndrome; ILT2 = Immunoglobulin-like transcript 2; ILT4 = Immunoglobulin-like transcript 4

The NGM Team by the Numbers

205
Employees



100+
Researchers



122,000 sq. ft. total footprint
including **60,000 sq. ft.**
of active lab space



A team that has contributed to **10+**
commercially successful medicines

>\$500M



Received from business
development collaborations

37



Patents held



Experienced Management Team



William Rieflin
Executive Chairman



Siobhan Nolan Mangini
Chief Financial Officer



Marc Learned, Ph.D.
Vice President,
Research Operations



David Woodhouse, Ph.D.
Chief Executive Officer



Brian Muma
Vice President,
Human Resources



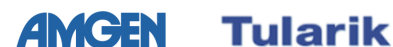
Valerie Pierce
Senior Vice President,
General Counsel and Chief
Compliance Officer



Jin-Long Chen, Ph.D.
Founder and Chief
Scientific Officer



Hui Tian, Ph.D.
Senior Vice President,
Research



Wenyan (David) Shen, Ph.D.
Senior Vice President,
Biologics and CMC



Hsiao D. Lieu, M.D.
Senior Vice President,
Chief Medical Officer



Alex DePaoli, M.D.
Senior Vice President,
Chief Translational Officer



AGENDA



TOPIC	SPEAKERS
Discover, Develop, Deliver	<ul style="list-style-type: none"> • David Woodhouse, Ph.D. - <i>Chief Executive Officer, NGM</i>
R&D Blueprint	<ul style="list-style-type: none"> • Jin-Long Chen, Ph.D. - <i>Founder and Chief Scientific Officer, NGM</i>
Oncology - Cancer & CACS (NGM120) - Advanced Solid Tumors (NGM707 and NGM438)	<ul style="list-style-type: none"> • Alex DePaoli, M.D. - <i>SVP and Chief Translational Officer, NGM</i> • Daniel Von Hoff, M.D., F.A.C.P. - <i>The Translational Genomics Research Institute</i> • Robert Schreiber, Ph.D. - <i>Washington University School of Medicine</i> • Daniel Kaplan, Ph.D. - <i>Director, Biology, NGM</i> • James Sissons, Ph.D. - <i>Director, Biology, NGM</i> • Oncology Q&A
Geographic Atrophy (NGM621)	<ul style="list-style-type: none"> • Erin Henry, Ph.D. - <i>Sr. Director, Clinical Development Ophthalmology, NGM</i> • Charles Wykoff, M.D., Ph.D. - <i>Retina Consultants Houston</i> • Geographic Atrophy Q&A
NASH (Aldafermin, MK-3655)	<ul style="list-style-type: none"> • Hsiao Lieu, M.D. - <i>SVP and Chief Medical Officer, NGM</i> • Corinne Foo-Atkins, M.D., MBA, MSc - <i>VP of Product Strategy, NGM</i> • Manal Abdelmalek, M.D. - <i>Duke University</i> • NASH Q&A
Fireside Chat: A Conversation with Merck Research Laboratories	<ul style="list-style-type: none"> • Roger Perlmutter, M.D., Ph.D. - <i>Executive Vice President and President, Merck Research Laboratories (MRL)</i> • Dean Li, M.D., Ph.D. - <i>Senior Vice President of Discovery Sciences and Translational Medicine, MRL</i> • <i>Moderated by Jin-Long Chen and Bill Rieflin, NGM</i>
Final Q&A	<ul style="list-style-type: none"> • Bill Rieflin - <i>Executive Chairman, NGM</i> • Jin-Long Chen, Ph.D. - <i>Founder and Chief Scientific Officer, NGM</i> • David Woodhouse, Ph.D. - <i>Chief Executive Officer, NGM</i> • Siobhan Nolan Mangini - <i>Chief Financial Officer</i> • Hsiao Lieu, M.D. - <i>SVP and Chief Medical Officer, NGM</i> • Alex DePaoli, M.D. - <i>SVP and Chief Translational Officer, NGM</i>
Closing Remarks	<ul style="list-style-type: none"> • David Woodhouse, Ph.D. - <i>Chief Executive Officer, NGM</i>



Jin-Long Chen, Ph.D.
Founder, Chief Scientific Officer



Foundational Ingredients

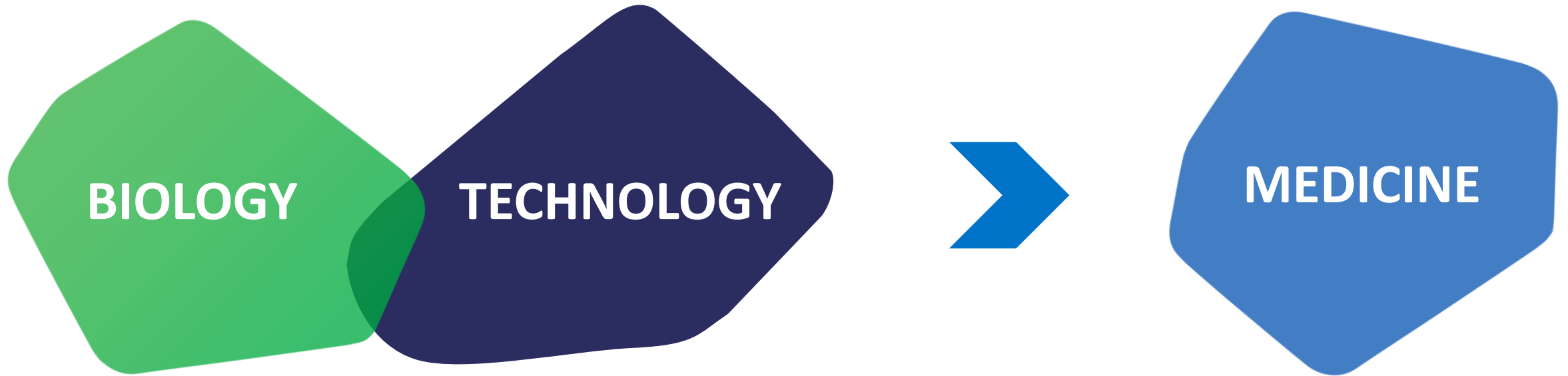
- Build from scratch
- Biology-driven drug discovery
- Guiding focus: patient need

- ▶ Assemble the Team

- ▶ Continually Evolve the Tools

- ▶ Tackle the Tough Problems

NGM R&D Engine: An Integrated Approach to Create New Medicines



Biology-Driven Drug Discovery: Connecting the Dots

BIOLOGY

TECHNOLOGY

MEDICINE

Systematic
interrogation of
complex disease-
associated biology

- ▶ Whole Body Biology
- ▶ Pathological Tissues
- ▶ Specialized Cells
- ▶ Molecules / Targets

Biology-Driven Drug Discovery: Connecting the Dots

BIOLOGY

TECHNOLOGY

MEDICINE

**Empirical Approach:
Integrated, powerful,
multi-disciplinary
platform**

- ▶ Genetics: human and model systems
- ▶ Industrial-scale functional genomics
 - *in vivo*-based discovery
 - High content *in vitro* analysis
 - Orphan ligand-receptor matching
- ▶ Computational biology

Biology-driven Drug Discovery: Designing Unique Solutions for Complex Problems



BIOLOGY

TECHNOLOGY

MEDICINE

**Versatile
Biologics
Platform**

Fit-for-purpose design

- ▶ Engineered proteins
- ▶ Engineered antibodies
- ▶ Multi-specific / multi-functional therapeutics

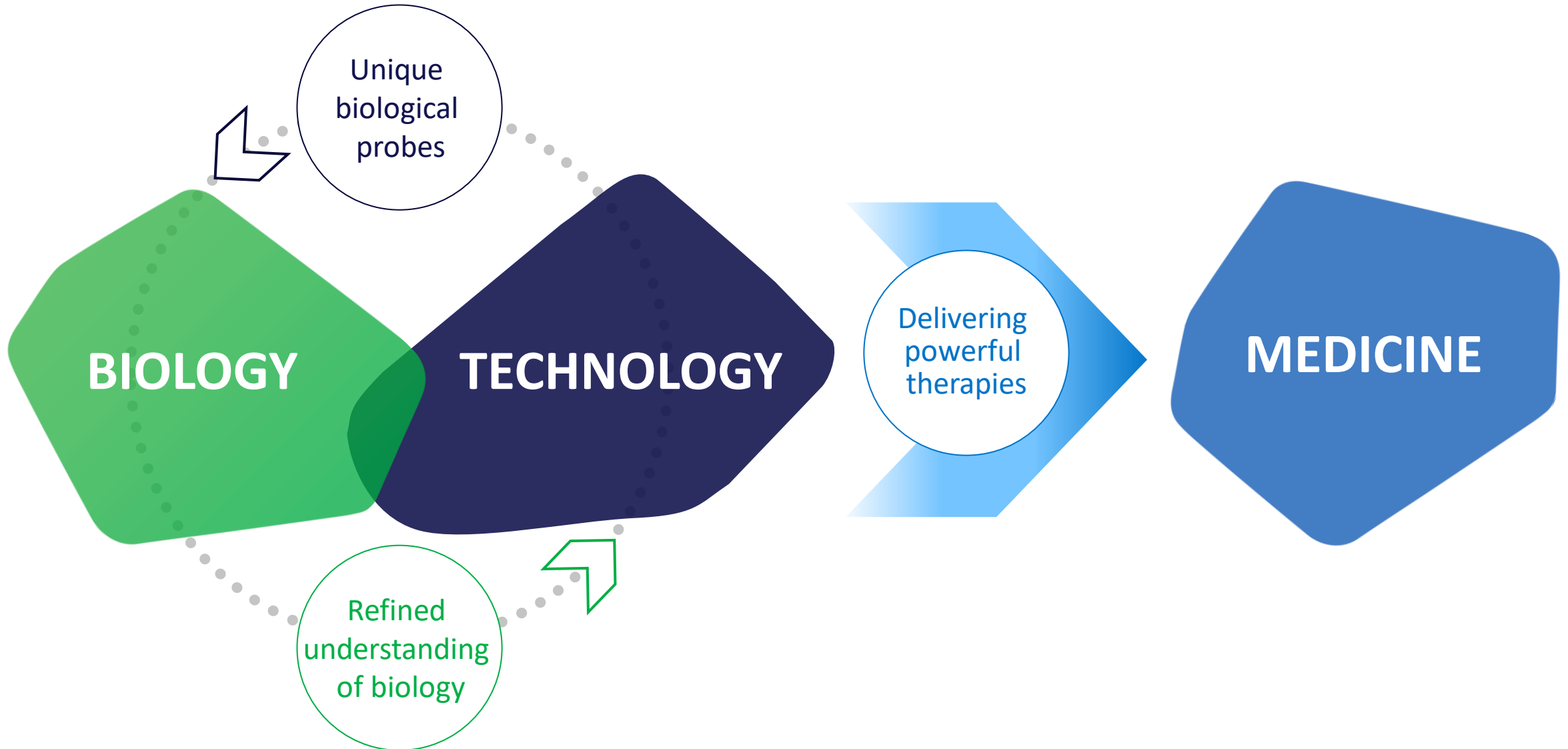
Flexible targeting

- ▶ Hormones
- ▶ Ligands / receptors
- ▶ Enzymes
- ▶ Transporters / ion channels
- ▶ Cell-cell interactions

Tunable pharmacology

- ▶ Antagonists / inhibitors
- ▶ Agonists / activators
- ▶ Modulators
- ▶ Biased ligands
- ▶ Multi
 - specificity
 - functionality
 - valency
- ▶ Tissue specificity

Biology-driven Drug Discovery: Seamless Integration of Biology and Technology



NGM's Goal: Deliver Powerful Medicines

BIOLOGY

TECHNOLOGY

MEDICINE

Focused on:

- Grievous diseases
- Significant medical needs
- Impactful therapies

Liver and Metabolic Diseases

- ▶ Aldafermin
- ▶ MK-3655 / NGM313

Retinal Diseases

- ▶ NGM621

Cancer

- ▶ NGM120
- ▶ NGM707
- ▶ NGM438

Discovery programs (ongoing)



Alex DePaoli, M.D.

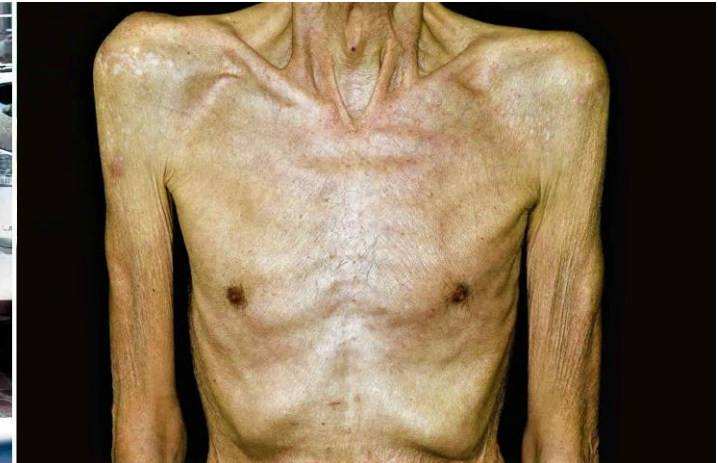
SVP and Chief Translational Officer, NGM



NGM120: An inhibitor of GDF15 Signaling for the Treatment of Cancer and Cancer Anorexia Cachexia Syndrome

Cancer Anorexia Cachexia Syndrome (Cachexia)

- Common 'wasting' syndrome linked to many cancers
 - No effective therapy
 - Significant contribution to morbidity and mortality
- Cachexia is estimated affect **to 60% to 80% of advanced cancer patients** and to be responsible for **~30% of all cancer deaths**¹
- Weight loss exacerbated by many chemotherapies
 - Often linked to nausea and vomiting
 - May require dose reduction of chemotherapy
- Elevated GDF15 associated with both chemotherapy and cancer cachexia



NGM120 is an Antagonist Antibody Inhibiting GFRAL

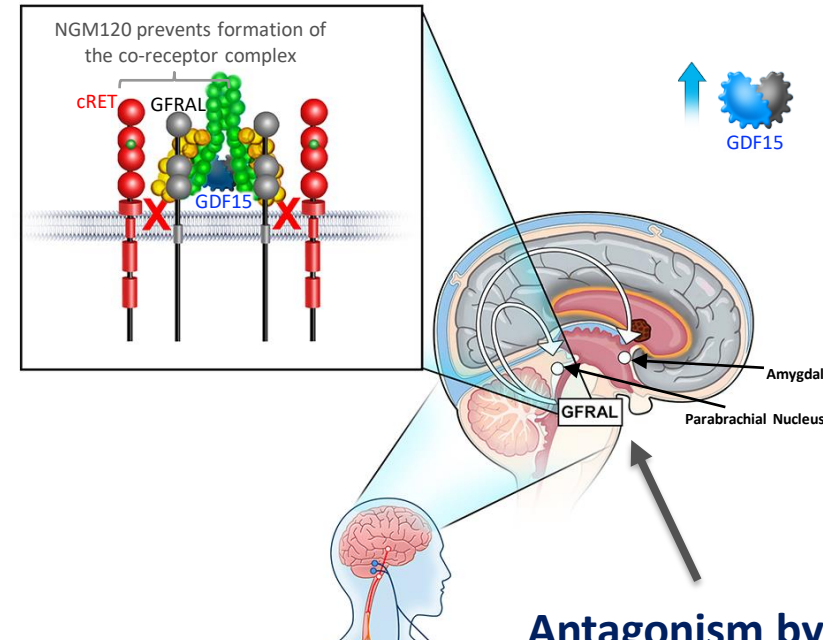
Potent, first-in-class antibody targeting the GDNF Family Receptor Alpha-Like (GFRAL)

Potential to regulate the GDF15/GFRAL pathway in the brain stem that is known to signal feeding and the autonomic nervous system

Preclinical studies suggest that NGM120 may:

- Reverse human tumor-induced body weight loss in mice
- Reduce tumor growth and improves survival in syngeneic orthotopic pancreatic tumor model
- Prevent cisplatin-induced GDF15-mediated weight loss in mice

Ph1b study of NGM120 in patients with metastatic pancreatic cancer is ongoing



GDF15 levels are increased by:

- Tumor
- Chemotherapy
- Infection
- Inflammation
- Other stressors

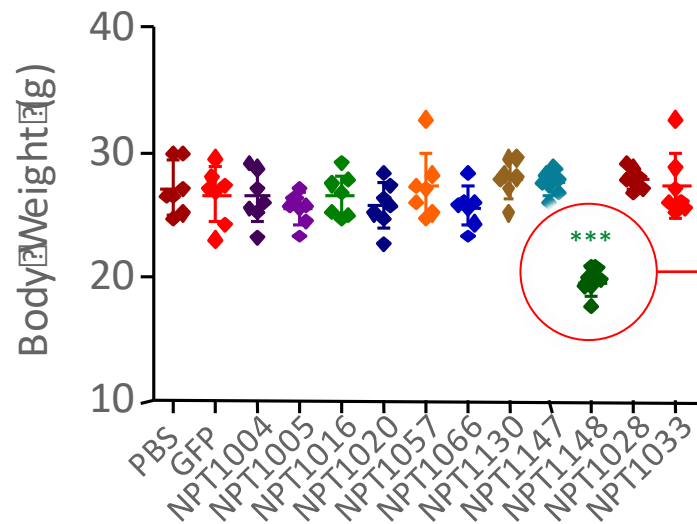
Antagonism by NGM120 may result in:

- Appetite Regulation
- Metabolic Regulation
- Immune Modulation

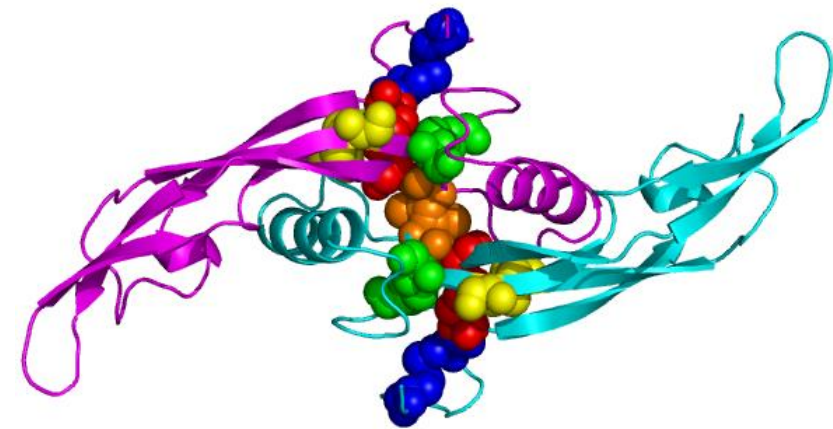
Growth Differentiation Factor 15 (GDF15): A Powerful Biological Pathway

- Identified GDF15 'wow biology' through the systematic *in vivo* screening of >1000 secreted factors
- GDF15 is secreted by macrophages, endothelial cells, myocytes, adipocytes, and multiple tumor types in response to cellular stress
- GDF15 regulates feeding, metabolism and immune function

In-Vivo Systematic Screening of Human Genes using AAV*



GDF15

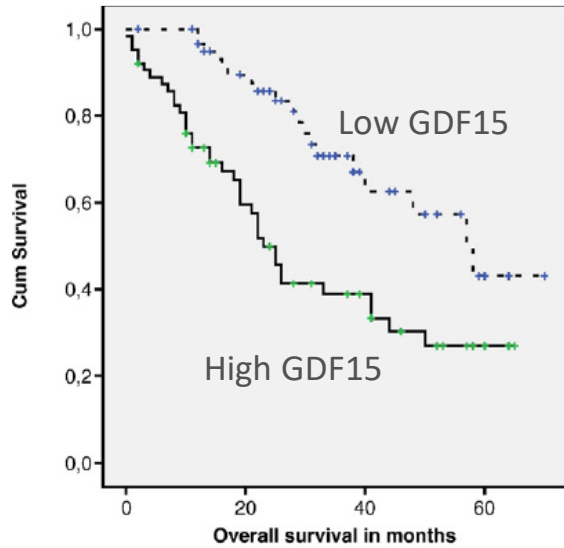


X-ray Crystal Structure of dimeric GDF15
(1.97Å resolution, NGM)

*AAV – Adeno-Associated Virus

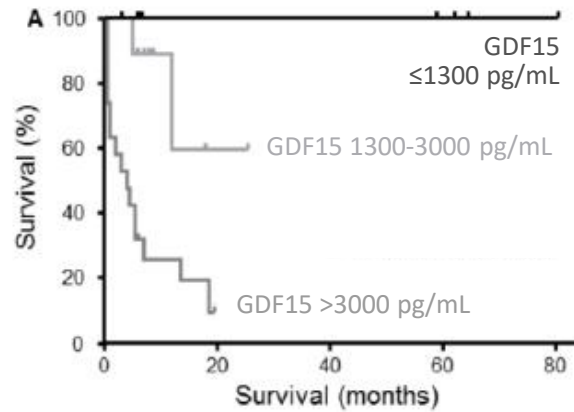
Elevated GDF15 Levels are Linked to Poor Survival in Multiple Cancers

Ovarian Cancer



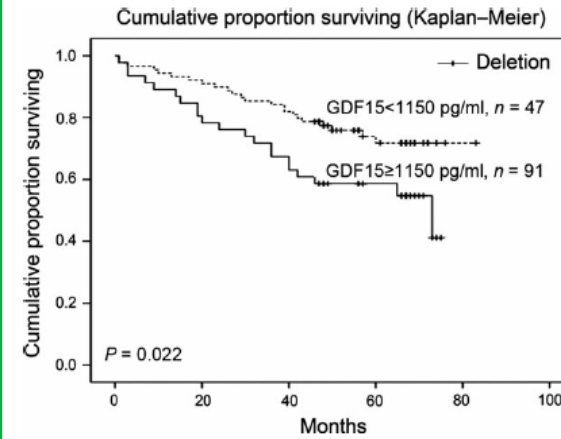
Staff et al., *Gynecologic Oncology* 2010

Prostate Cancer



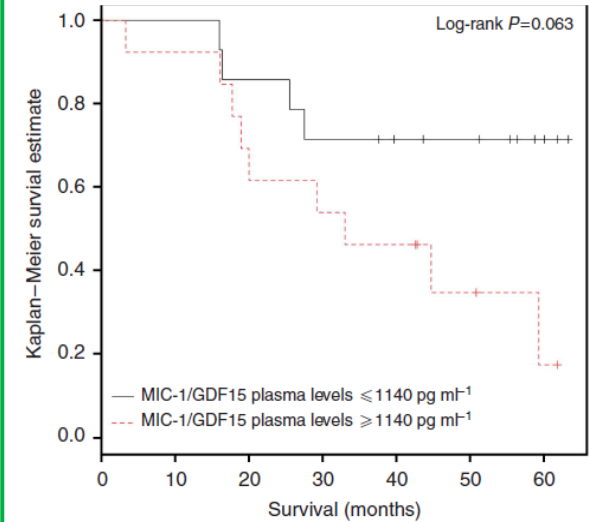
Winand et al., *J Mol Biomark Diagn* 2014

Colorectal Cancer (CRC)



Li et al., *J Cell Mol Med* 2016

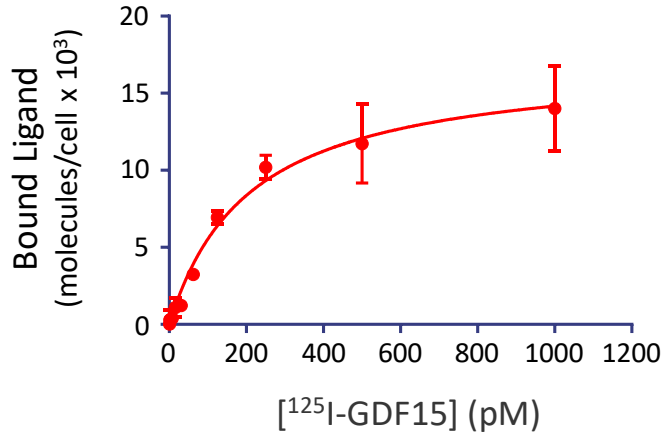
Esophageal Cancer



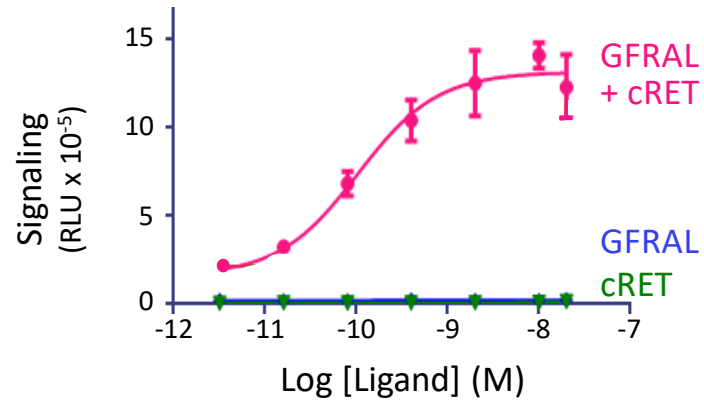
Fisher et al., *BJC* 2015

Identification of GFRAL (GDNF Family Receptor Alpha-Like): The Receptor for GDF15

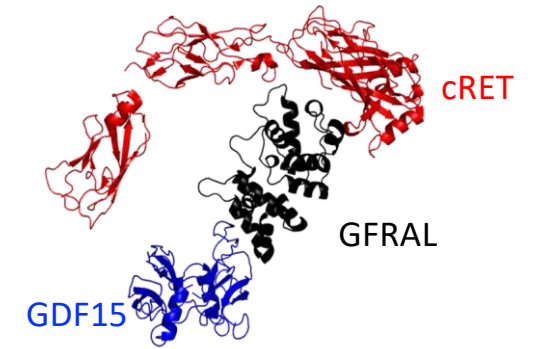
GDF15 binding to GFRAL



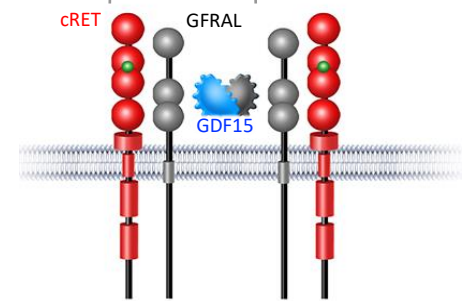
GFRAL-cRET co-receptor complex mediates GDF15 signaling



GDF15-GFRAL-cRET Ternary Complex

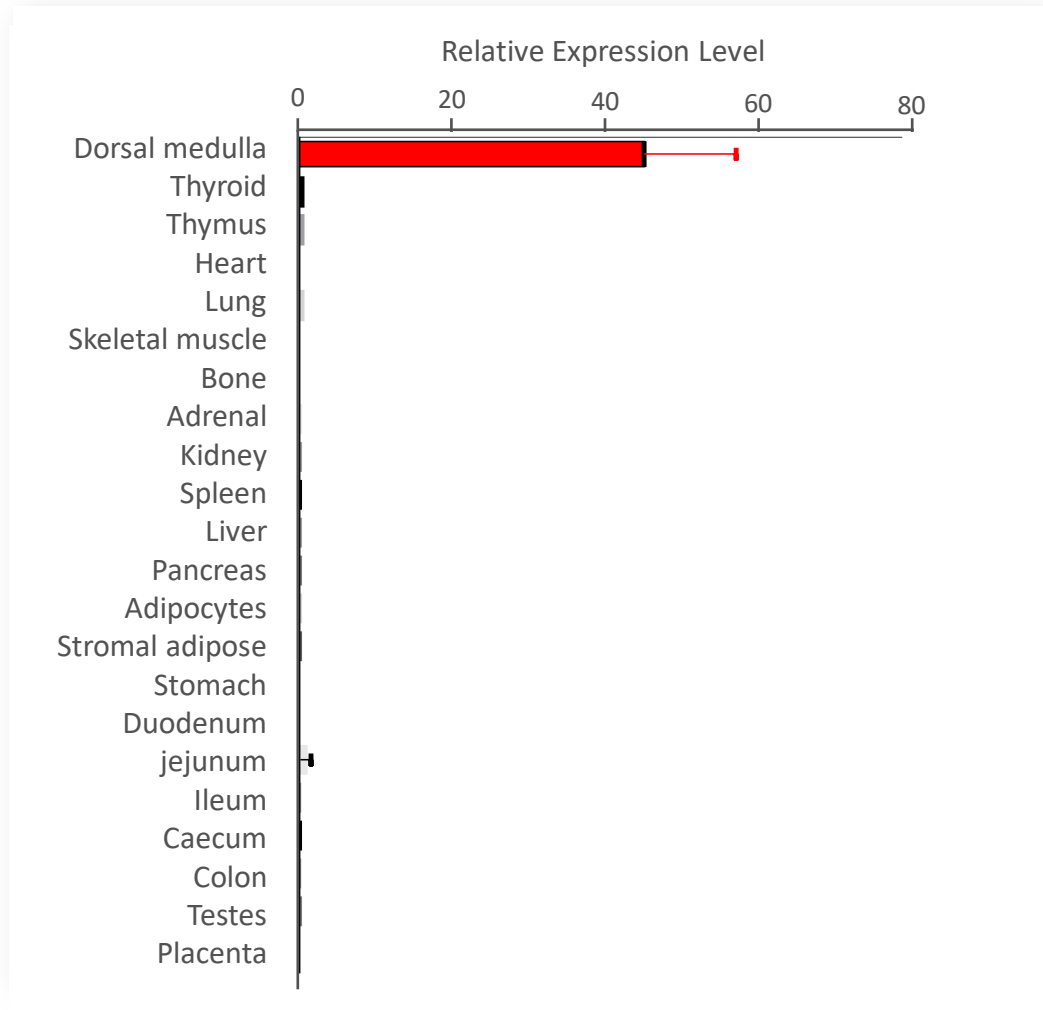


GDF15 co-receptor Complex with cRET

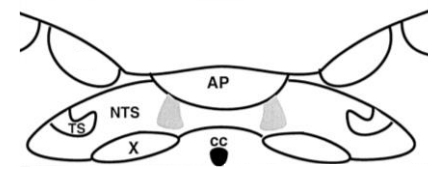


The GDF15 Receptor, GFRAL, is Exclusively Expressed in the Brain Stem

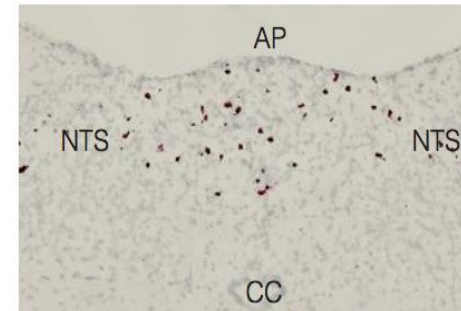
GFRAL Gene Expression Profile



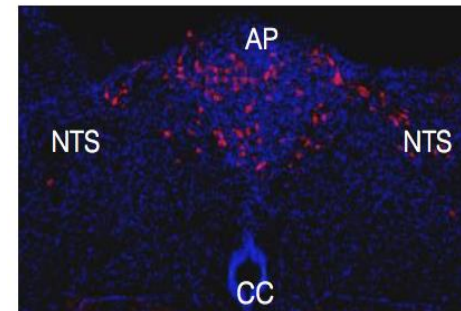
GFRAL Expression in the Dorsal Medulla, Exclusively Expressed in the Brain Stem



AP: Area Postrema
NTS: Nucleus of Solitary Tract
CC: Central Canal



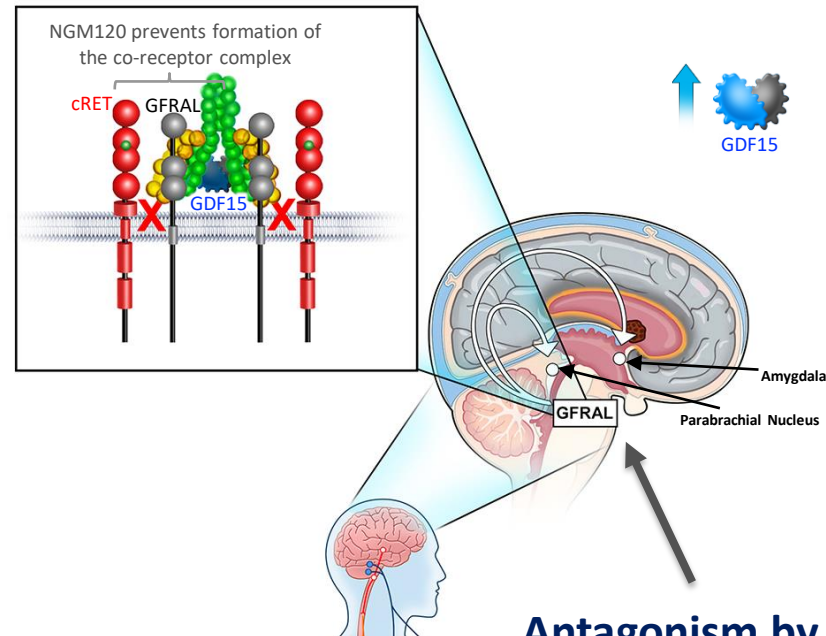
in situ
hybridization



Immunofluorescence

NGM120: An inhibitor of GDF15 Signaling

GDF15/GFRAL Pathway Modulates Food Intake, Metabolic and Immune Function



GDF15 levels are increased by:

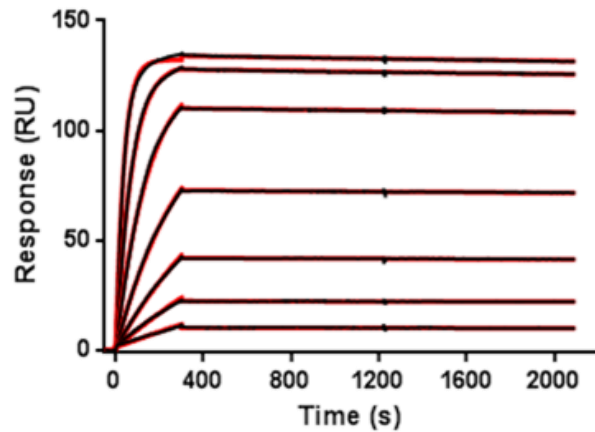
- Tumor
- Chemotherapy
- Infection
- Inflammation
- Other stressors

Antagonism by NGM120 may result in:

- Appetite Regulation
- Metabolic Regulation
- Immune Modulation

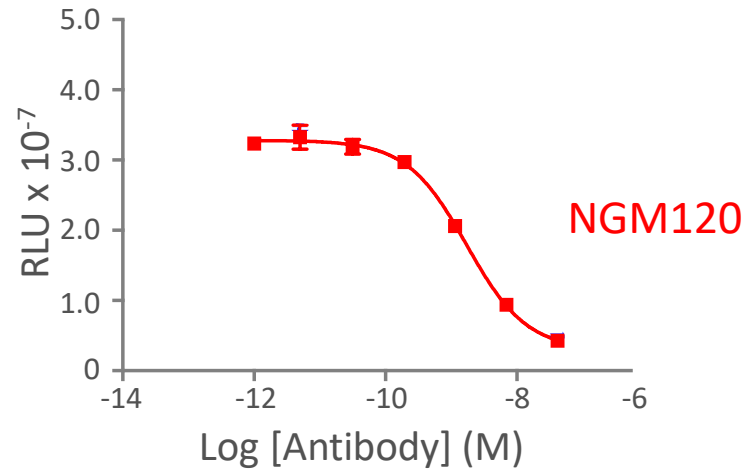
NGM120 Binds with High Affinity to GFRAL and Acts as a Non-competitive Antagonist of Receptor-mediated Signaling

NGM120 binding to GFRAL (Biacore)

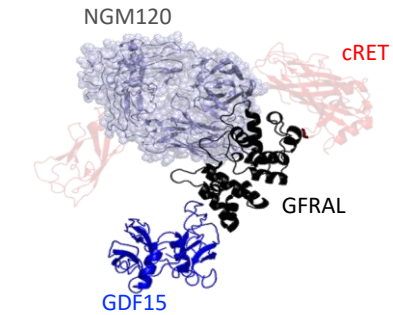


$K_D = 785$ fM
(KinExA)

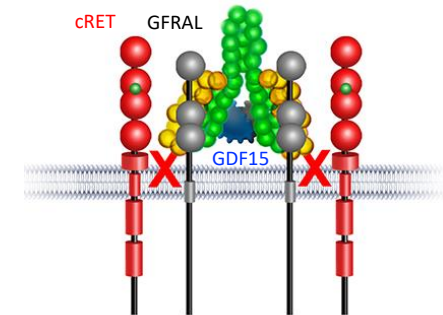
Inhibition of GDF15 signaling by NGM120



NGM120 prevents formation of the co-receptor complex



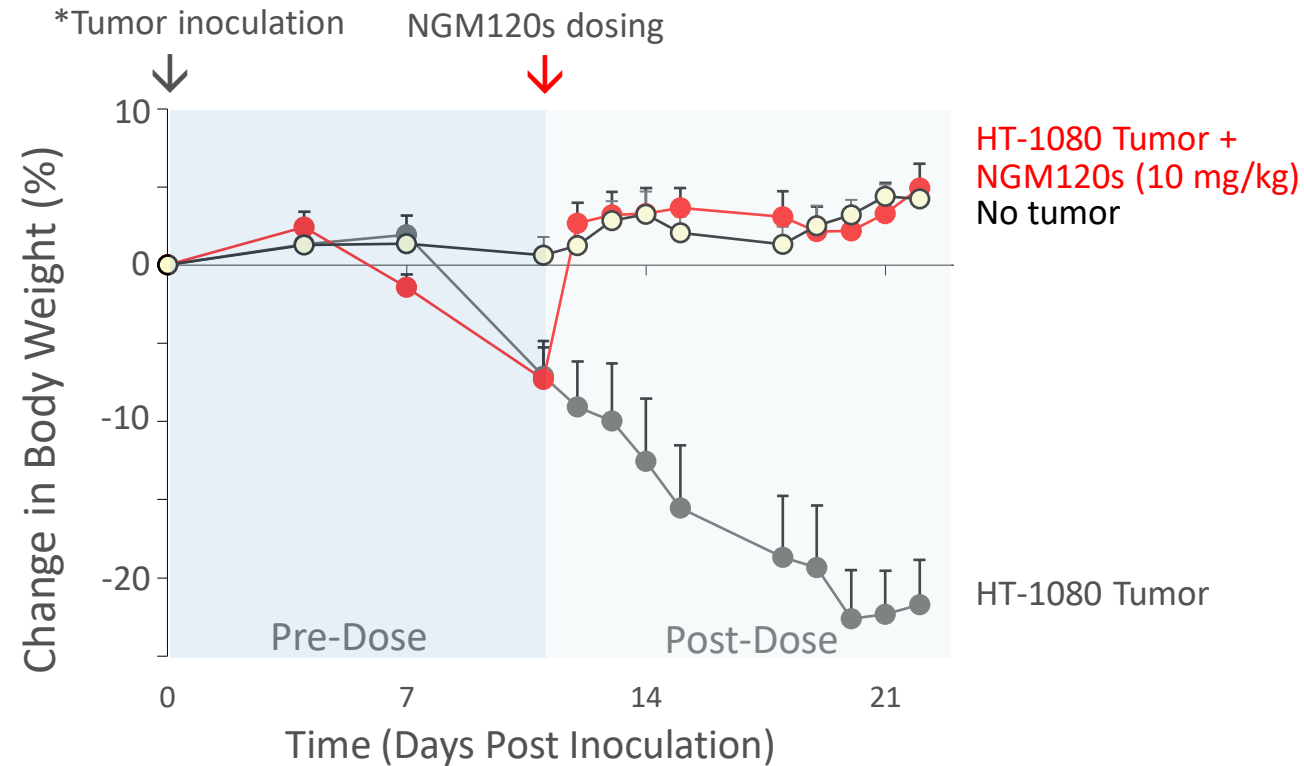
GDF15 co-receptor
Complex with cRET



NGM120s Rapidly Reverses Human Tumor-Induced Body Weight Loss in a Murine Cachexia Model



A Murine Model of Cancer Cachexia Syndrome



Study Model: Tumor-bearing (HT-1080 (Human fibrosarcoma cell line)) SCID mice; (n=6/group)

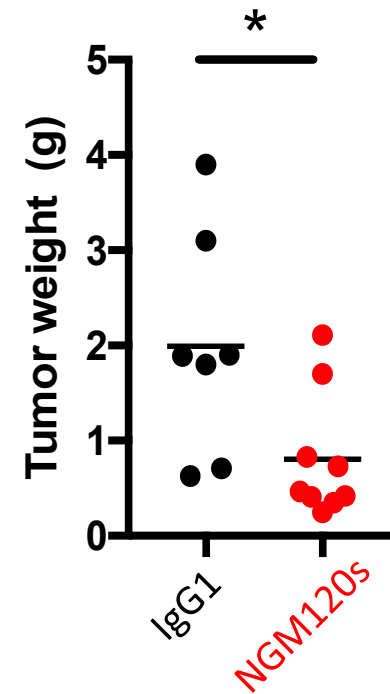
NGM120s Reduces Tumor Growth and Improves Survival in a Pancreatic Tumor Model



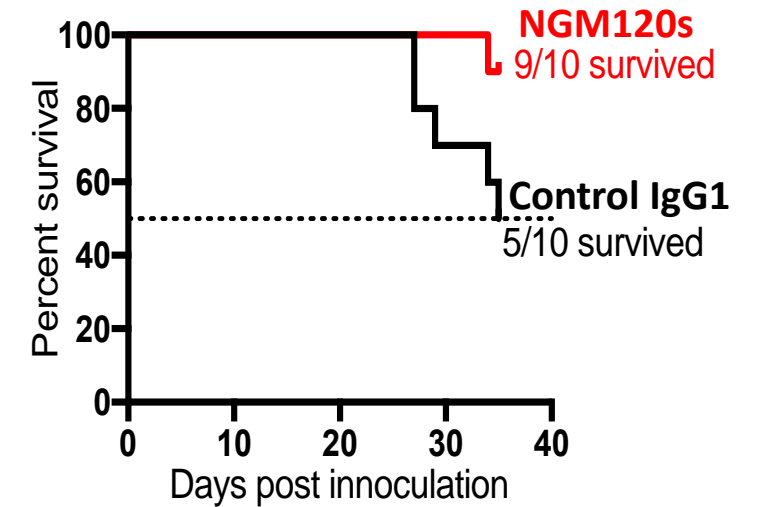
Tumor Model

- Orthotopic syngeneic tumor model
- Pancreatic cancer
- NGM120 dosed weekly

Tumor Weight



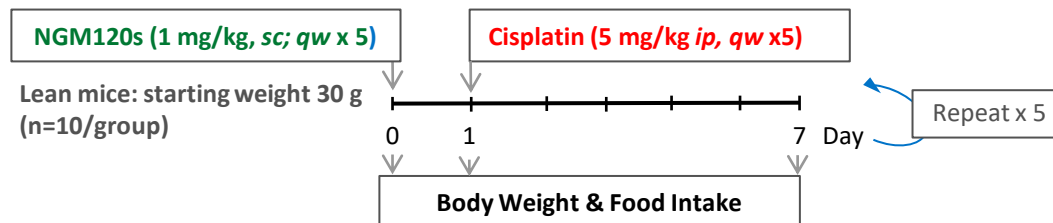
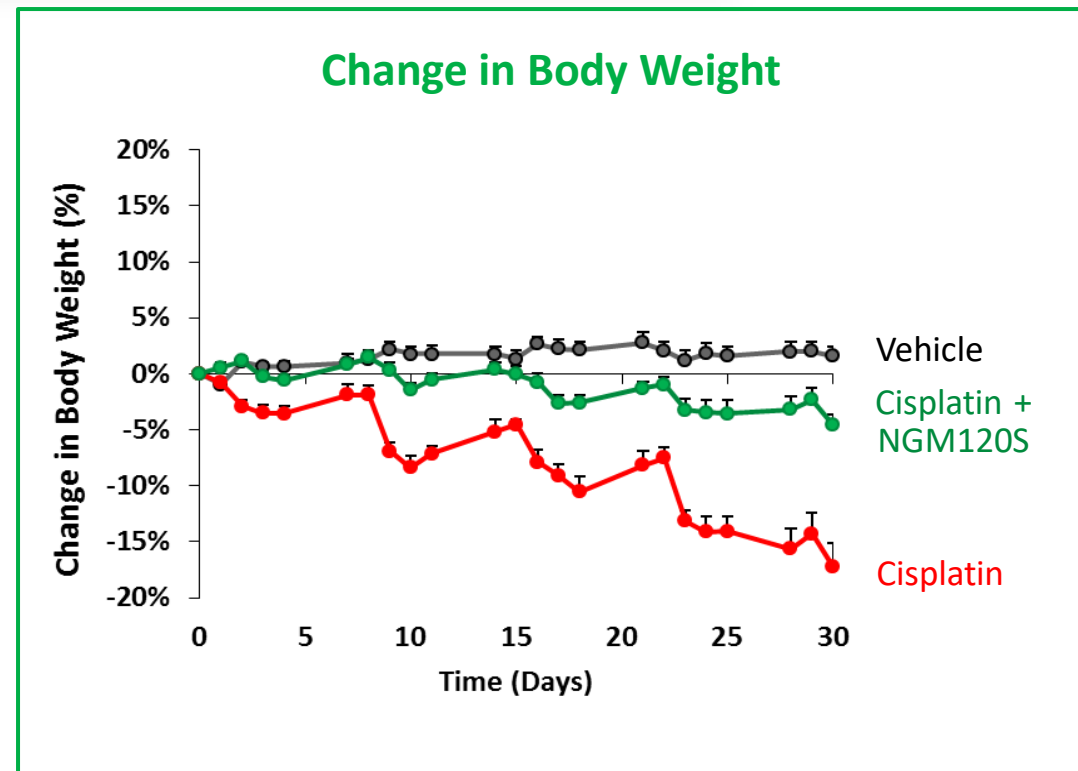
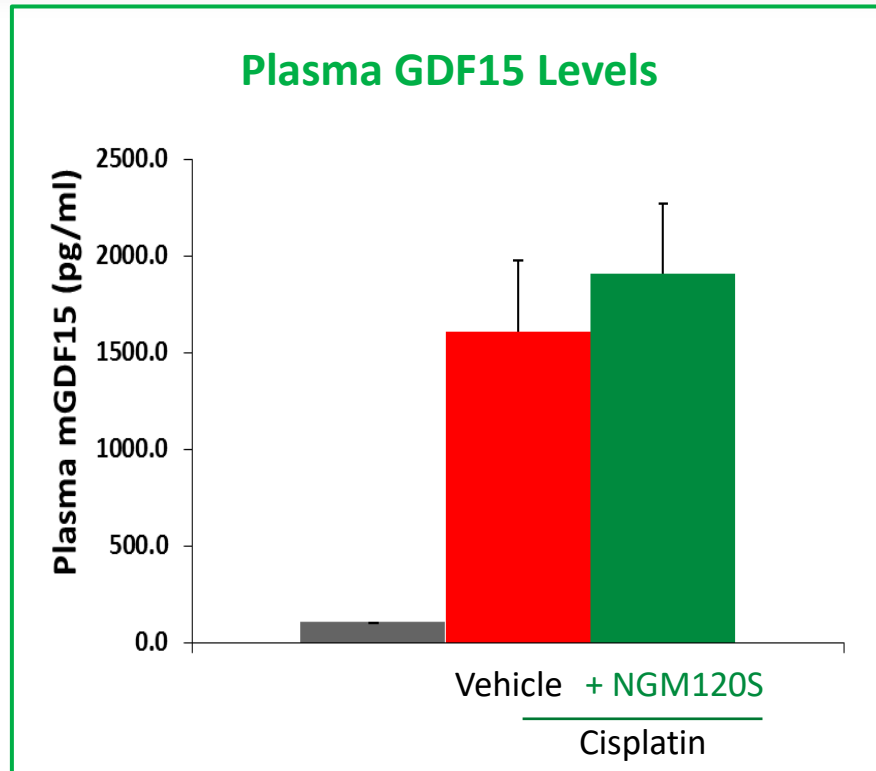
Survival



NGM120s Prevents Cisplatin-induced GDF15-mediated Weight Loss in Mice



- Administration of NGM120 also preserved lean body mass and muscle function in mice treated with cisplatin



NGM120 Clinical Development in Cancer and Cancer Anorexia-Cachexia Syndrome



- Completed single (n=48) and multiple (n=44) ascending dose cohorts in first-in-human healthy volunteer studies
 - Well-tolerated at all doses
 - No serious adverse events or adverse event of interest
 - $T_{1/2}$ approximately 35 days
- Completed enrollment in dose finding studies for Ph1a monotherapy (n=12) in patients with select solid tumors and Ph1b in combination with gemcitabine and abraxane (n=8) in patients with metastatic pancreatic cancer
- Planned Ph1b expansion study in metastatic pancreatic carcinoma patients
 - Randomized, placebo-controlled study (n=60)
 - Anticipate initiation in 1Q21
 - Metastatic pancreatic carcinoma patients treated with gemcitabine and abraxane and either NGM120 (n=30) or placebo (n=30)
 - Assessment of both cancer and cancer anorexia cachexia syndrome endpoints
 - Tumor assessment by RECIST 1.1, body weight, body composition, functional status and PRO measures



Daniel Von Hoff, MD, F.A.C.P.
Distinguished Professor, The Translational
Genomics Research Institute



Perspective on The Clinical Issues

Daniel D. Von Hoff, MD, FACP, FASCO, FAACR

Distinguished Professor, Translational Genomics Research Institute (TGen)

Virginia G. Piper, Distinguished Chair for Innovative Cancer Research, Honor Health

Margaret Givan Larkin Endowed Chair in

Developmental Cancer Therapeutics, Hoag Family Cancer Institute

Professor of Medicine University of Arizona and Mayo Clinic

**Distinguished Professor, Department of Medical Oncology and Therapeutic Research,
City of Hope**

- **32 years as medical oncologist at the bedside**
 - **Conducted >300 phase I trials with new anticancer and supportive care agents**
 - **PI on pivotal clinical trials for 3 of 4 FDA approved drugs that improve survival for patients with stage IV pancreatic cancer (and approval of multiple other agents)**
 - **Learned to recognize that unique mechanisms of action and the best science based approaches work in the clinic**
 - **Wanting to further improve the situation**
-

Why Did I Contact NGM Bio When I Heard About This Program?

1. **Cancer Cachexia (Greek for “bad condition”) is a significant clinical problem for our patients**
 - “Look – Dad is wasting away”
 - Often looked upon as a “prelude to death” (not only in cancer but AIDS, COPD and cardiac disease)
 - Cachexia is “the last illness you have”
2. **Syndrome defined by ongoing loss of skeletal muscle (sarcopenia)**
 - With or without loss of fat
 - Functional impairment of performance status
 - Can’t be reversed by nutritional support
3. **Cachexia**
 - Affects 60-80% cancer patients (depending on tumor type and stage)
 - Associated with increased risk treatment failure and a worse survival
 - Contributes to patients demise by
 - Pneumonia (weak respiratory muscles)
 - Thrombosis (pulmonary embolism/stroke)
 - Infection - compromise of immune system

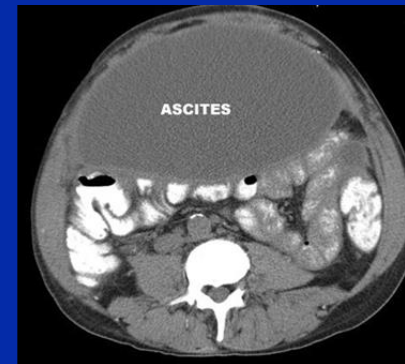


Perhaps Lesser Known Facts About Cachexia

1. Can start a median of 8.7 years before diagnosis of pancreas cancer
 - Signs of breakdown of muscle (branched-chain amino acids in plasma (Mayers et al, Nature Med 2014)
2. Low serum albumin (one measure of nutritional status and of inflammation)
 - Terrible prognostic factor for patients
 - If albumin <3.0 not eligible for therapeutic clinical trials
 - Causes vascular leak (low oncotic pressure)
 - Tremendous edema
 - Ascites (fluid in the abdomen) (10-40% of pts)



Carrying around excess of 5-6 liters of fluid



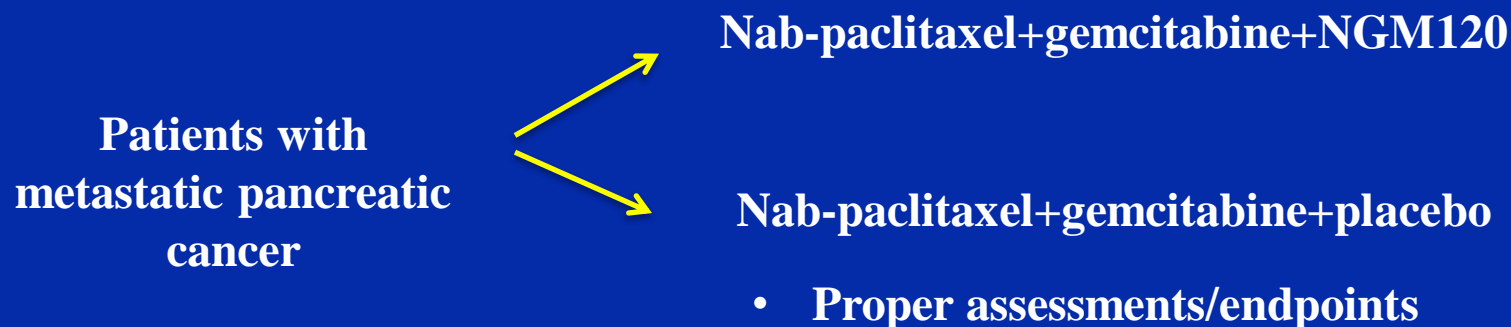
Abdominal pain, can't eat - "I can't go on like this" – Take it off and decreases albumin

Cachexia is a Tremendous Unmet Medical Need – Supportive Care

- 1. We don't have much approved that we can try (and that work)**
 - Megestrol acetate**
 - More edema, worry about increased thrombosis**
 - Glucocorticoids**
 - Immune suppression, diabetes out of control, muscle atrophy**
 - Anabolic steroids**
 - Liver issues**
 - THC-like compounds**
 - Marinol**
 - Multiple others tried but not approved**
 - Ghrelin, L-carnitine, glutamine, omega-3 fatty acids**
 - 2. There is a great need in this area of supportive care for our oncology patients**
 - Patients are very willing to participate in clinical trials**
 - Investigators really anxious to have something to offer their patients**
-

The Proposed Clinical Development Plan Builds on This New Science

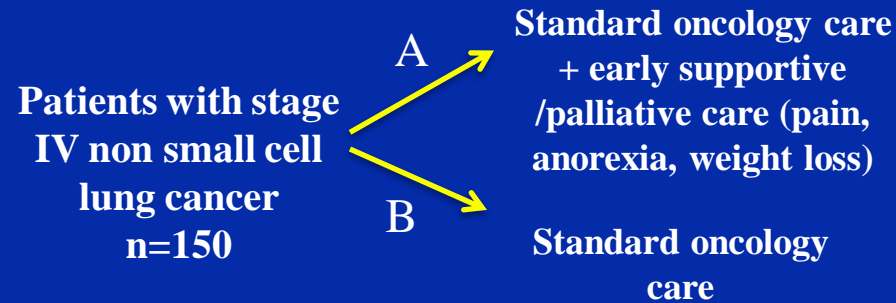
1. Excellent trial design



- ## 2. Trial is of even more interest because of the potential for antitumor activity of NGM120 by itself
- Documented in a preclinical pancreatic cancer model
-

One Final Point Regarding Anything in the Supportive Care Area (Because Improved Survival is A Goal Too)

1. A landmark paper



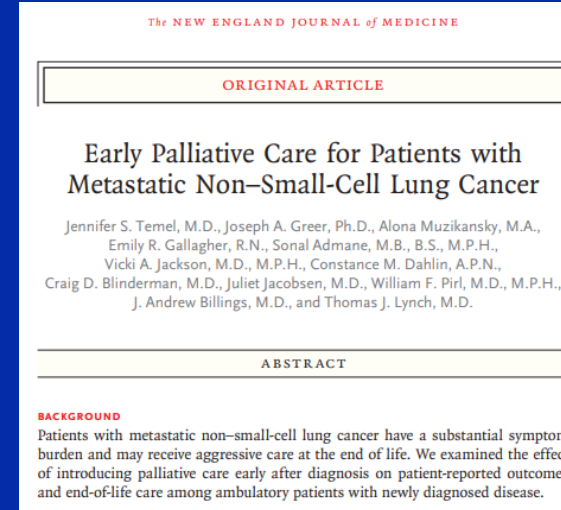
2. Results

- Arm A
 - Better quality of life (p=0.03)
 - Less depression (p=0.01)
 - Longer median survival 11.6 vs 8.9 months (p=0.02)

3. A logical interpretation

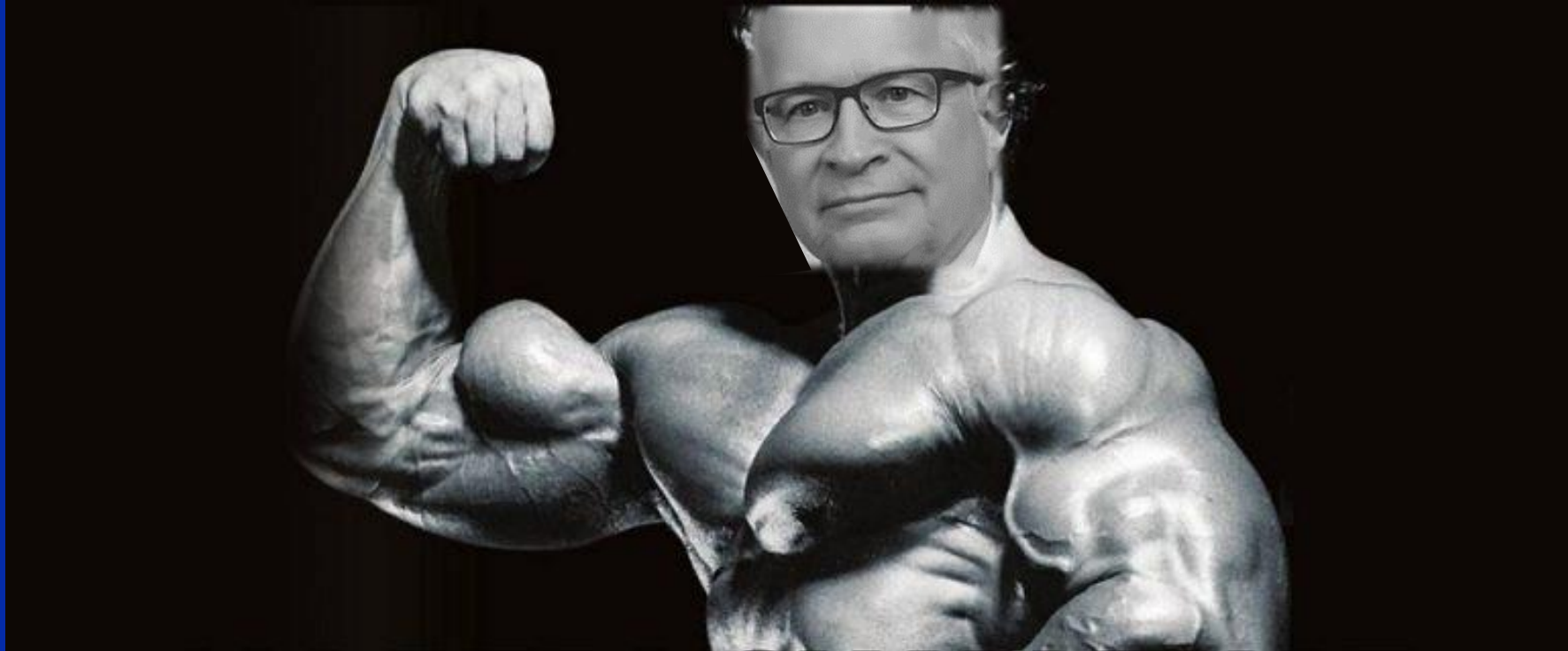
- Duh – If you feel better, you probably will want to live longer

4. We need more tools for supportive care - NGM120 could be one of them



Temel et al, NEJM 363: 733-742, 2010

Thank You For Listening!





Robert Schreiber, Ph.D.
Distinguished Professor,
Pathology & Immunology,
Washington University School of Medicine

 Washington
University in St. Louis
SCHOOL OF MEDICINE

WHY TARGET THE MYELOID COMPARTMENT IN CANCER?

NGM Bio Research Day
December 9, 2020

Robert D. Schreiber, PhD

Andrew M. & Jane M. Bursky Distinguished Professor

Interim Chief of the Division of Immunobiology

Department of Pathology & Immunology

Director, Bursky Center for Human Immunology & Immunotherapy Programs

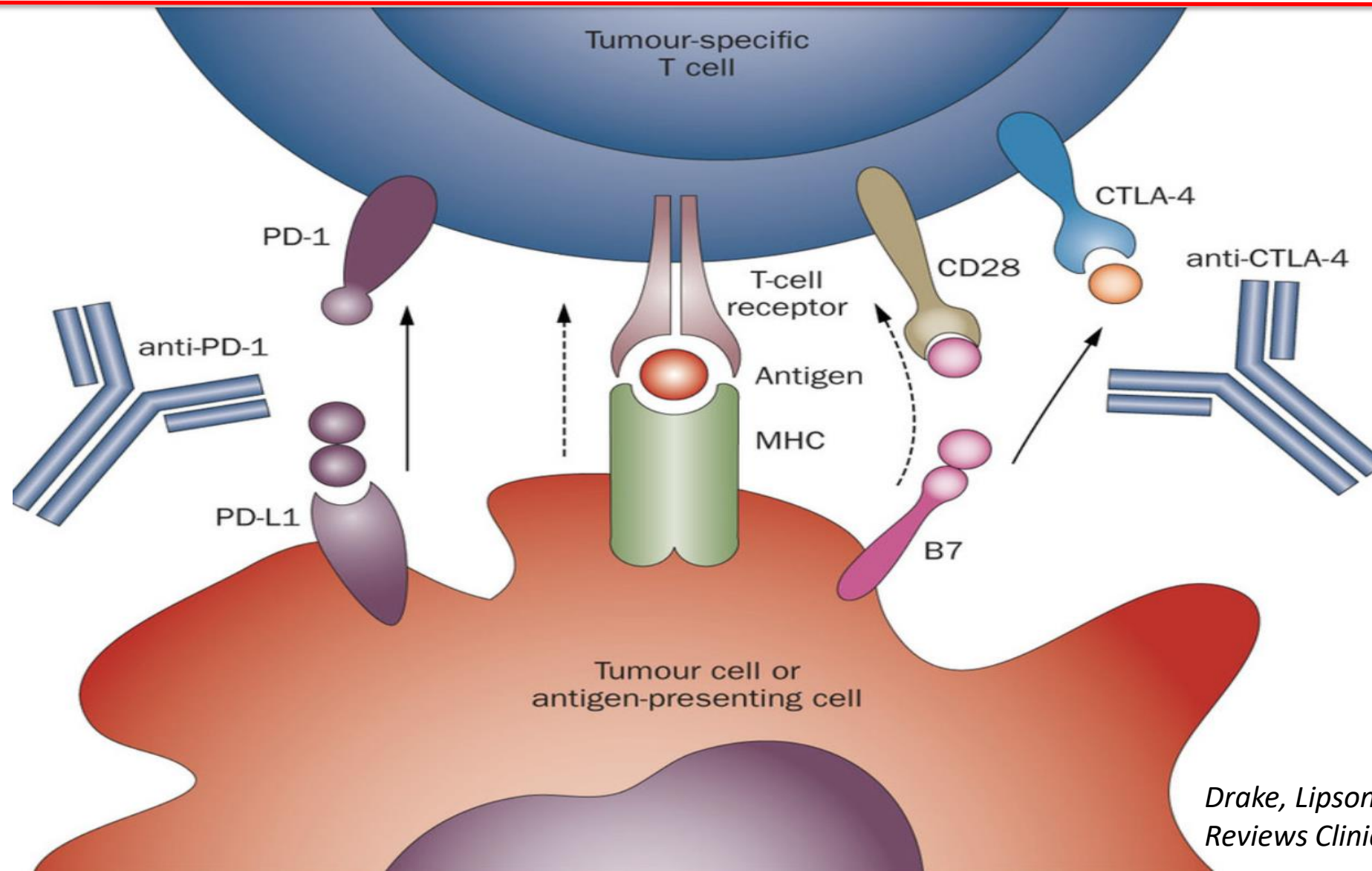
Co-Leader of the Tumor Immunology Program at the Siteman Cancer Center

Washington University School of Medicine, St. Louis, MO

Universal Excitement Over Cancer Immunotherapy



Immune Checkpoint Therapy: Taking the Brakes Off The Immune System



Immune Checkpoint Therapy Can be a Profoundly Effective and Durable Cancer Treatment

Screening



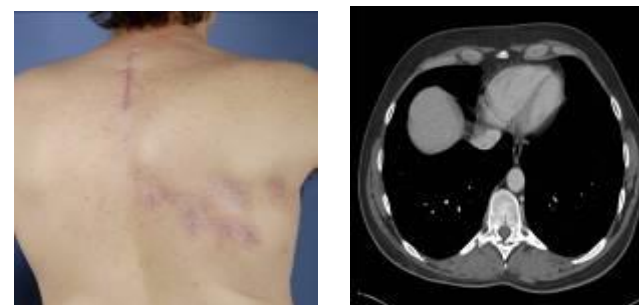
Week 12
Initial increase in total tumor burden (mWHO PD)



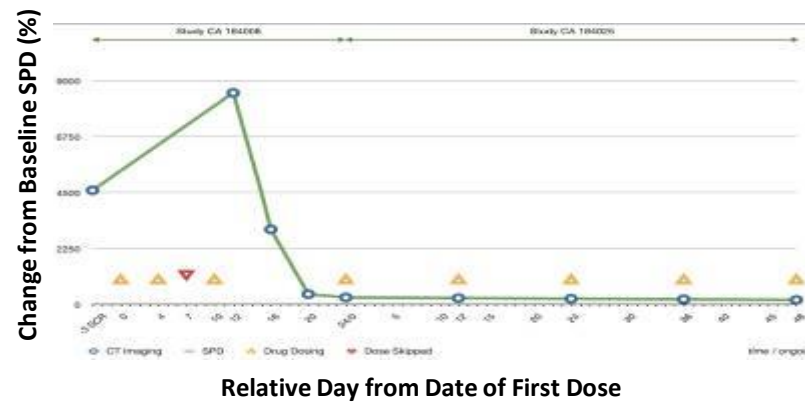
Week 16
Responding



Week 72
Durable & ongoing response without signs of IRAEs



*Hoos et al.
J. Natl Cancer
Inst, 2001*

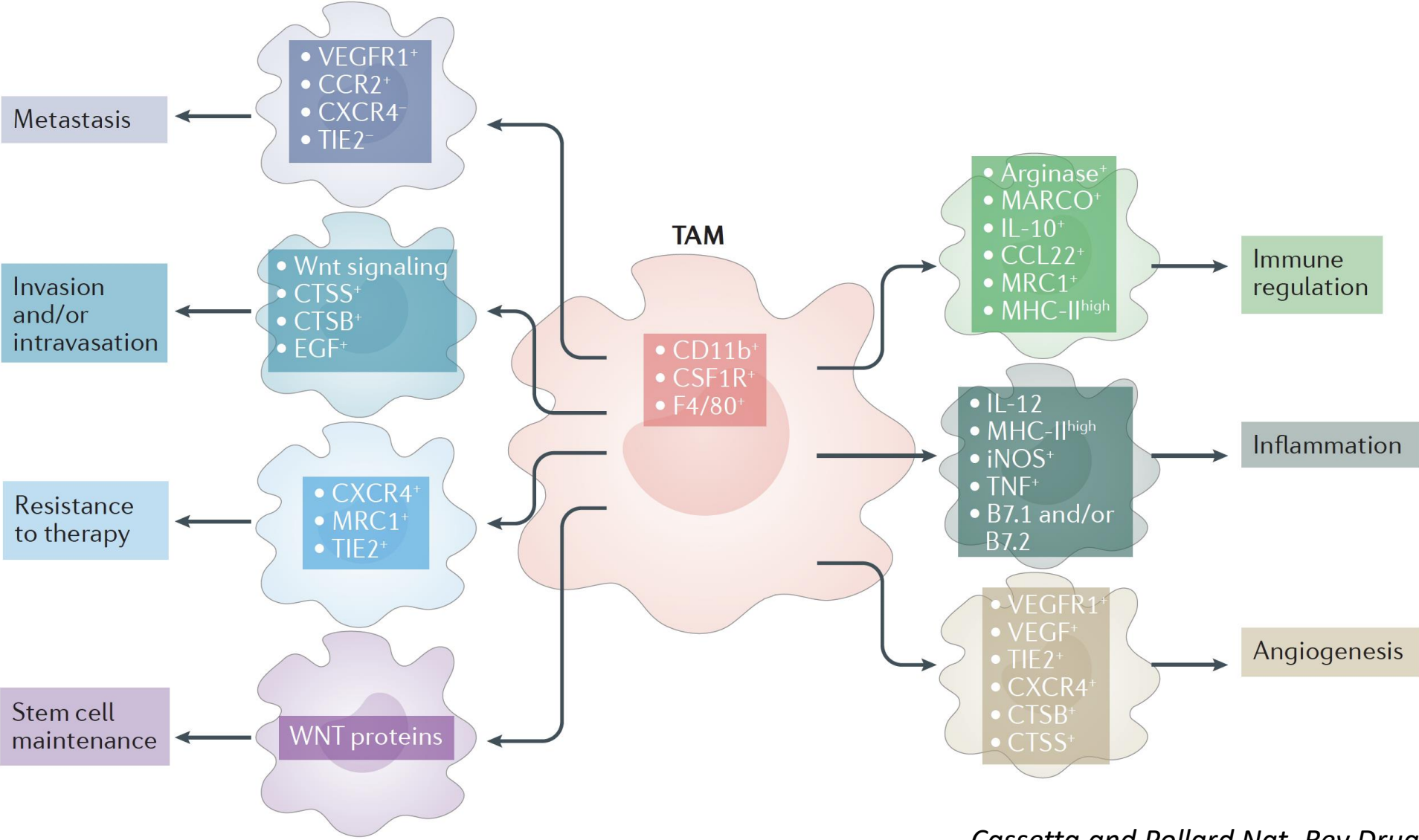


*Wolchok et al.
Clin Can Res, 2009*

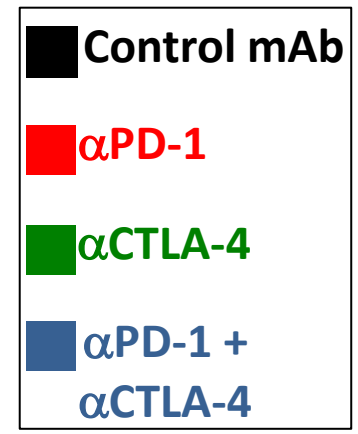
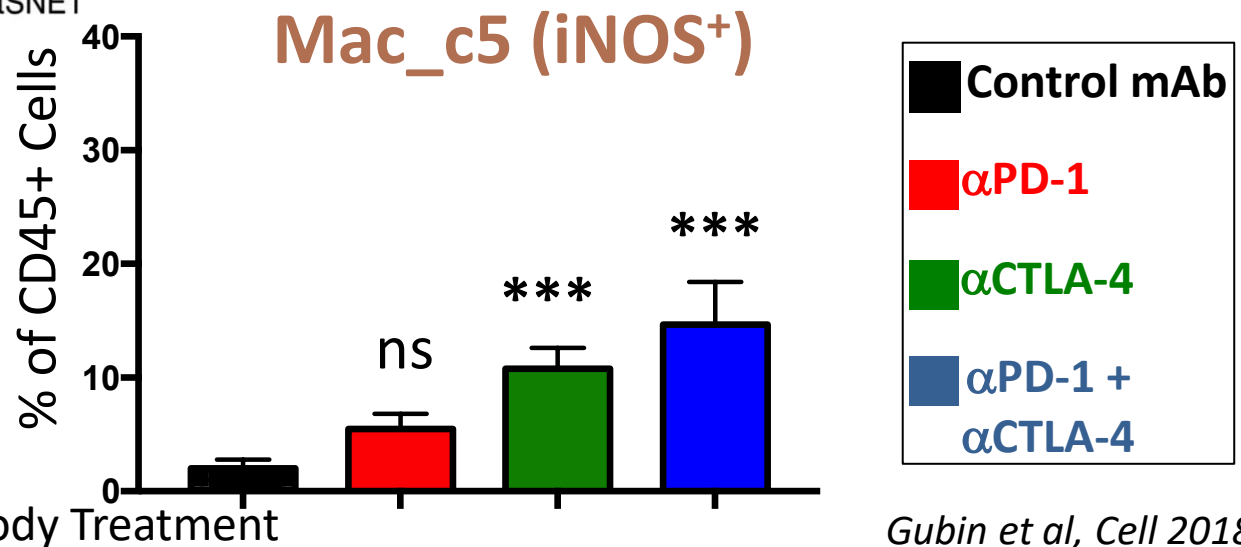
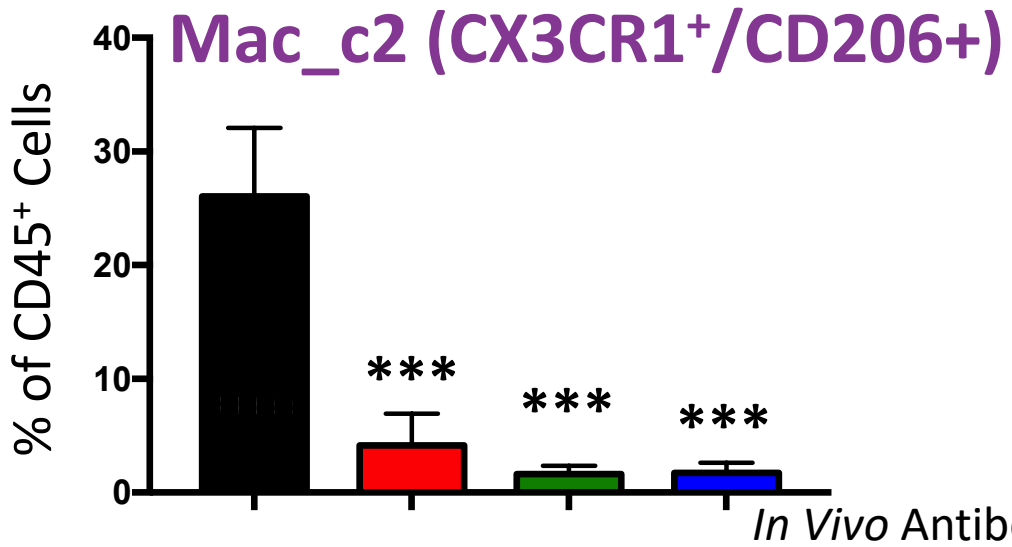
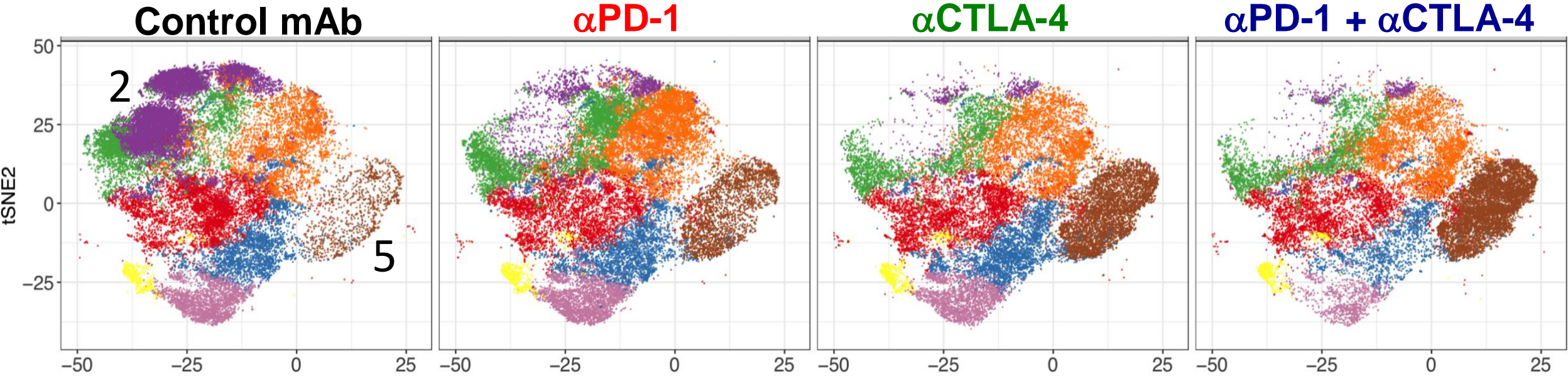
But—There Are Still Many Questions That Need to be Addressed

- How can we increase the success rate (i.e., the effectiveness) of immune checkpoint cancer therapy (ICT)?
- How can we improve the specificity and safety of ICT?
- What additional immune checkpoints should be targeted?
- What are the cellular sources of these additional checkpoints and what are their targets?

Macrophages Can Promote Tumorigenesis & Depress Tumor Immunity

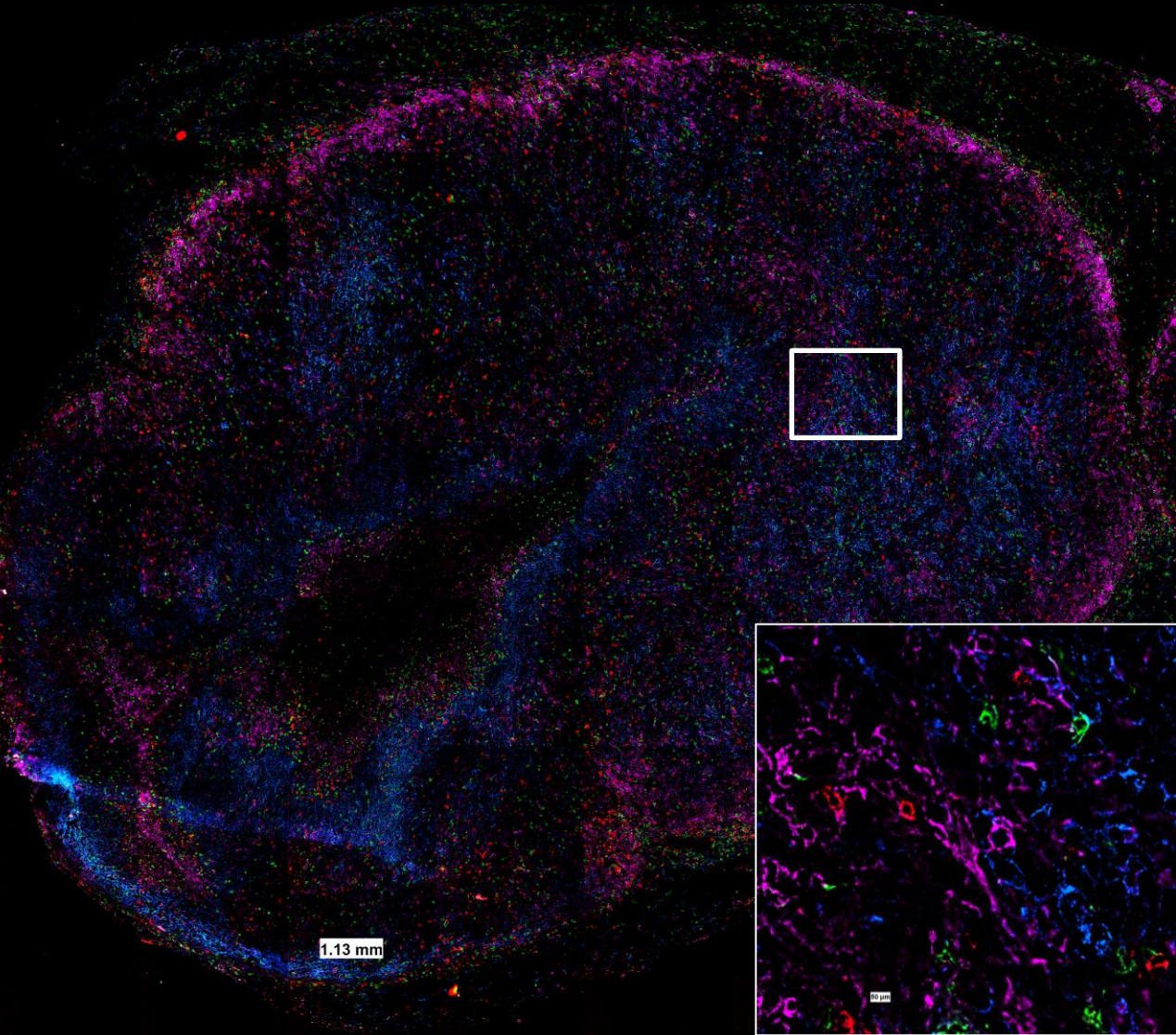


The Complexity of the Intratumoral Macrophage Compartment and its Remodeling Following Successful Immunotherapy

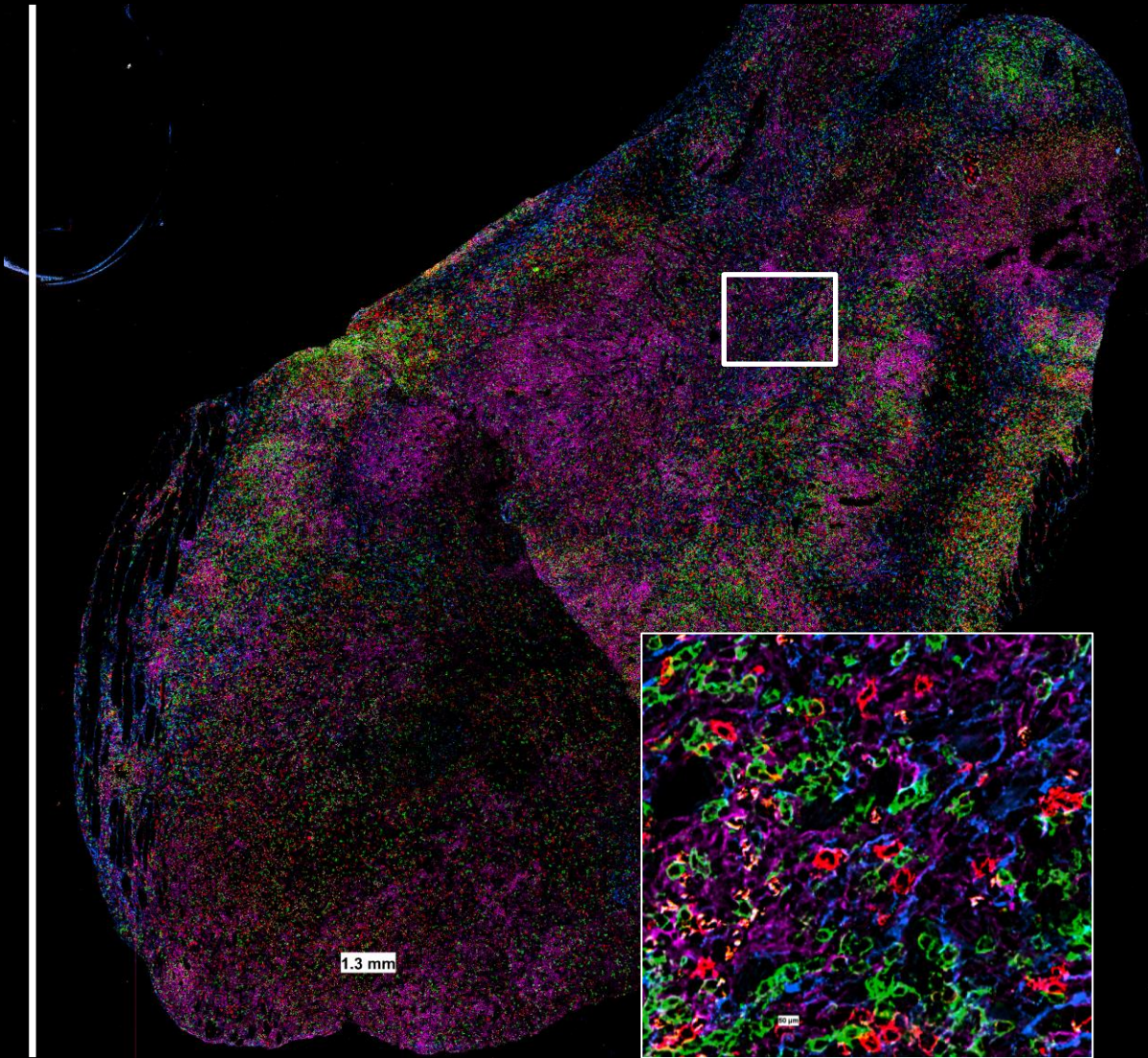


CD140a CD4 CD8 CD11C

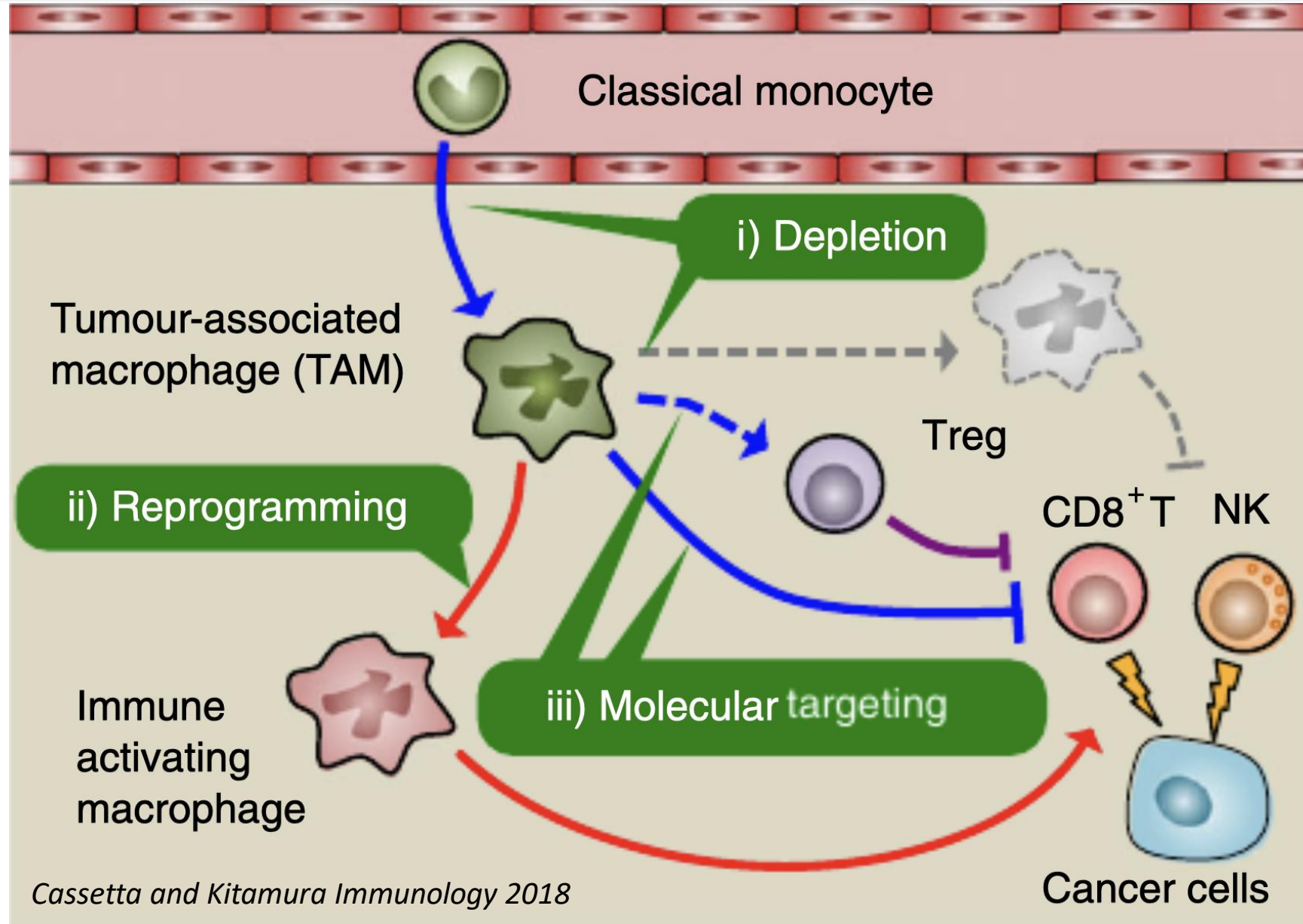
CONTROL



α -CTLA-4/ α -PD-1



Strategies to Circumvent Myeloid Cell Immunosuppression



Rationale for Focusing on the Myeloid Compartment

- Most current immunotherapy efforts target the T cell compartment
- However, myeloid cells represent a substantial percentage of hematopoietic cells that reside in tumors and they participate in directing the specificity and action of tumor specific T cells
- Myeloid cells can reversibly take on different activation states and thereby paradoxically facilitate either pro- or anti-tumor functions
- Thus, it would be preferable to re-program these cells (rather than eliminating them altogether) to concomitantly promote their capacity to facilitate tumor immune elimination and reduce their capacity to facilitate tumor outgrowth



Dan Kaplan, Ph.D.

Director, Biology

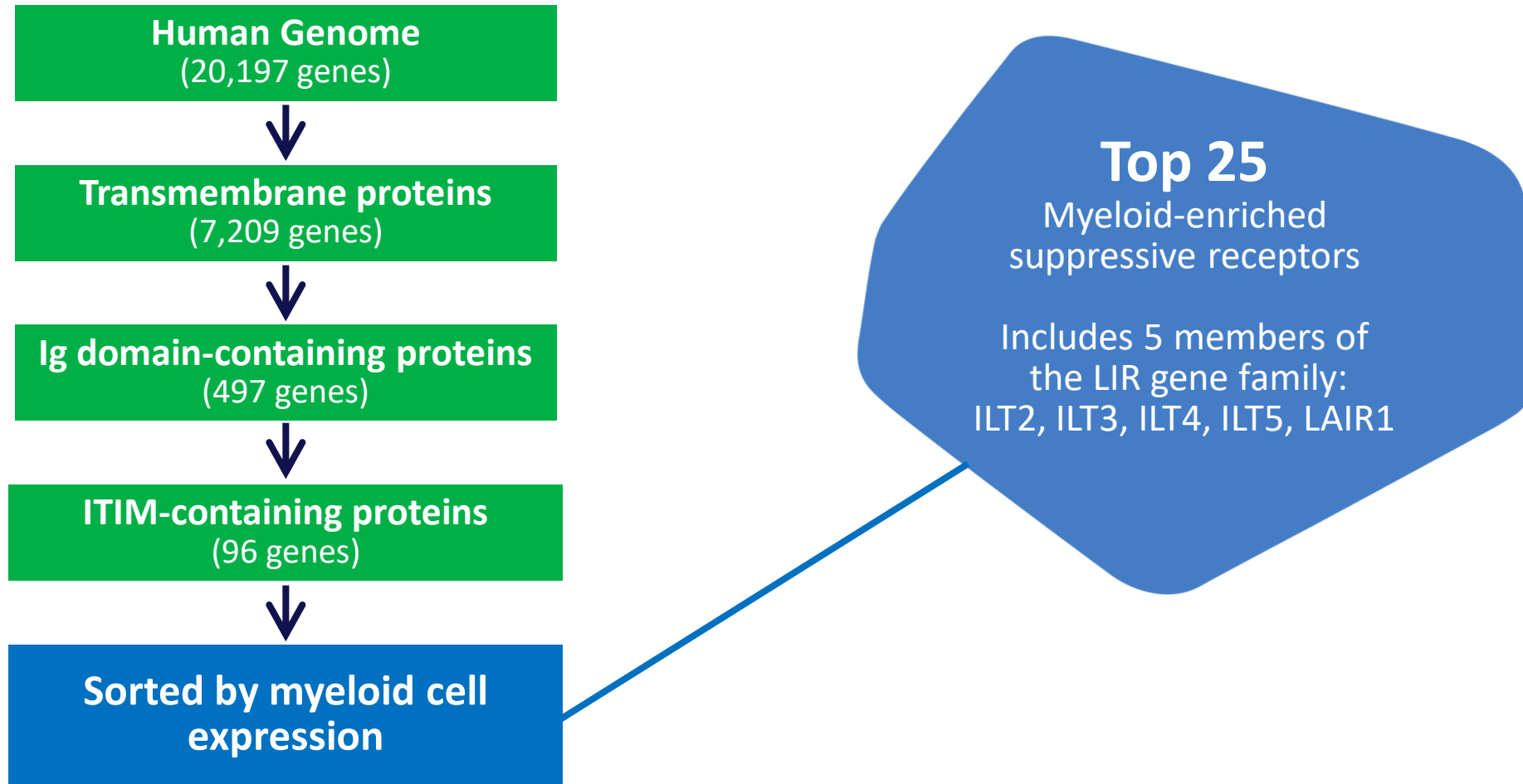


James Sissons, Ph.D.

Director, Biology



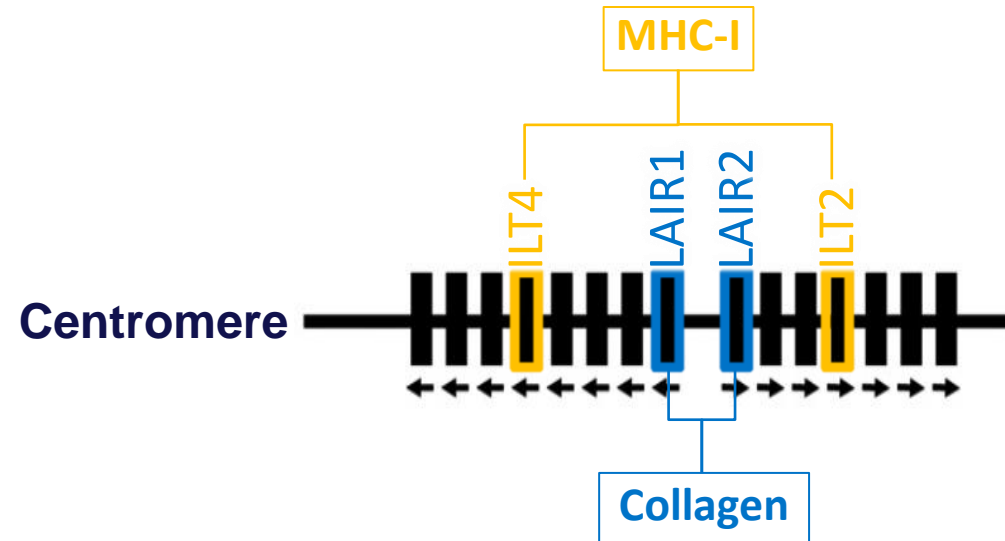
Selection of LIR Family Receptors as Targets to Induce Myeloid Reprogramming



Prioritization of LIR Family Receptors that Recognize Ligands Highly Expressed in Tumors

Inhibitory receptors of the LIR locus **evolved to mediate immune tolerance** through interactions with constitutively-expressed ligands

Leukocyte Ig-like Receptor (LIR) locus on human chromosome 19



NGM707
Dual antagonist antibody targeting *both* ILT2 and ILT4

NGM438
LAIR1 antagonist antibody

NGM707 in Advanced Solid Tumors

NGM707 is a Dual Antagonist Antibody Inhibiting ILT2 and ILT4

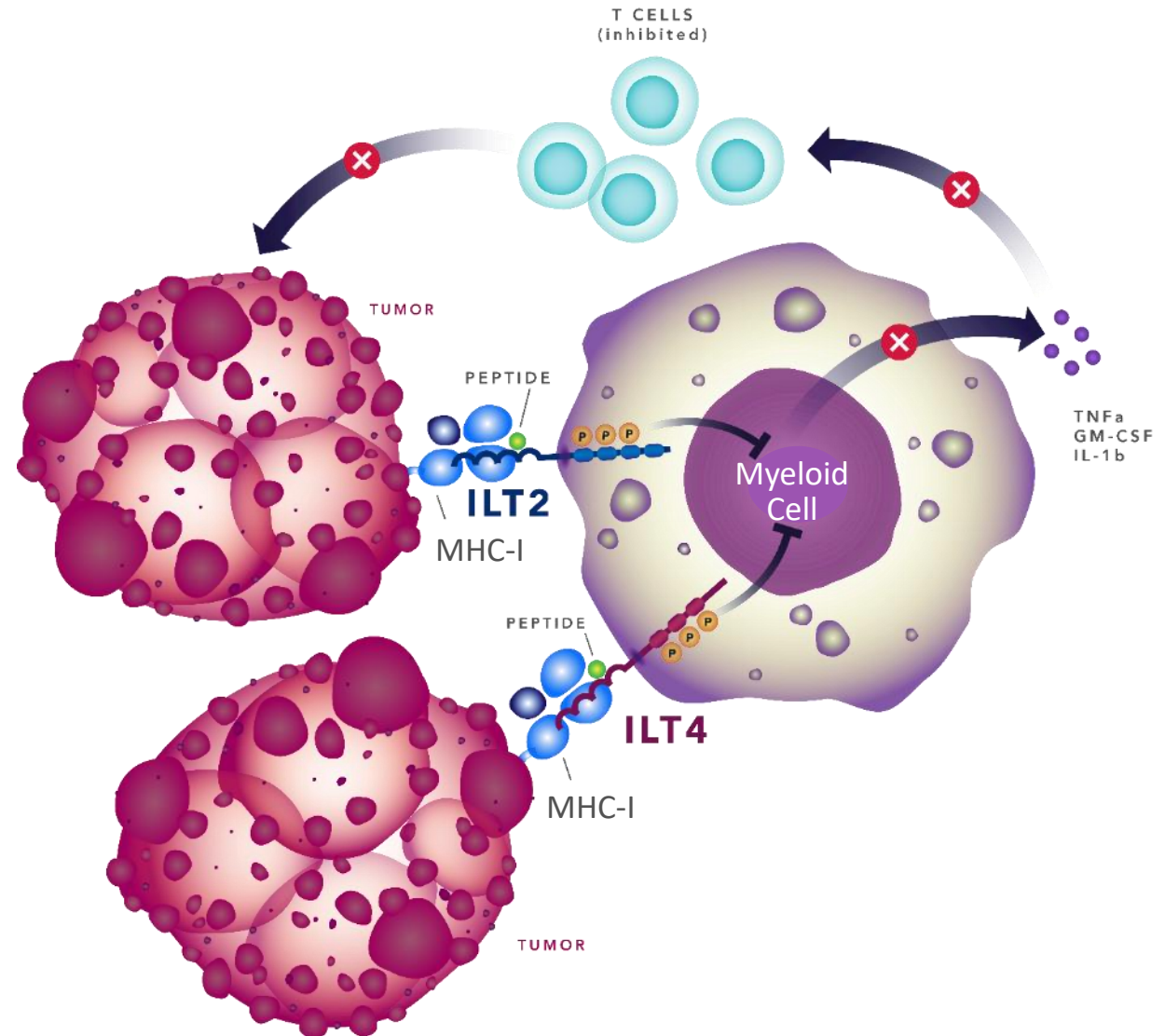
Potent, first-in-class antibody targeting the myeloid-enriched inhibitory receptors ILT2 (LILRB1) and ILT4 (LILRB2)

Potential to reprogram ILT4-expressing myeloid cells and stimulate the activity of ILT2-expressing myeloid and lymphoid cells

Preclinical studies of NGM707 suggest that:

- ILT4 blockade reverses myeloid cell immune suppression
- ILT2 blockade promotes tumor cell killing by NK and CD8+ T cells as well as tumor cell phagocytosis by macrophages
- Dual blockade of ILT2 and ILT4 acts synergistically to reverse suppression of Fc receptor signaling

Plan to initiate first-in-human study of NGM707 in mid-2021



ILT2 and ILT4: Key Myeloid and Lymphoid Checkpoints and Their Potential Roles in Cancer

Upregulated in certain cancer types¹⁻⁵

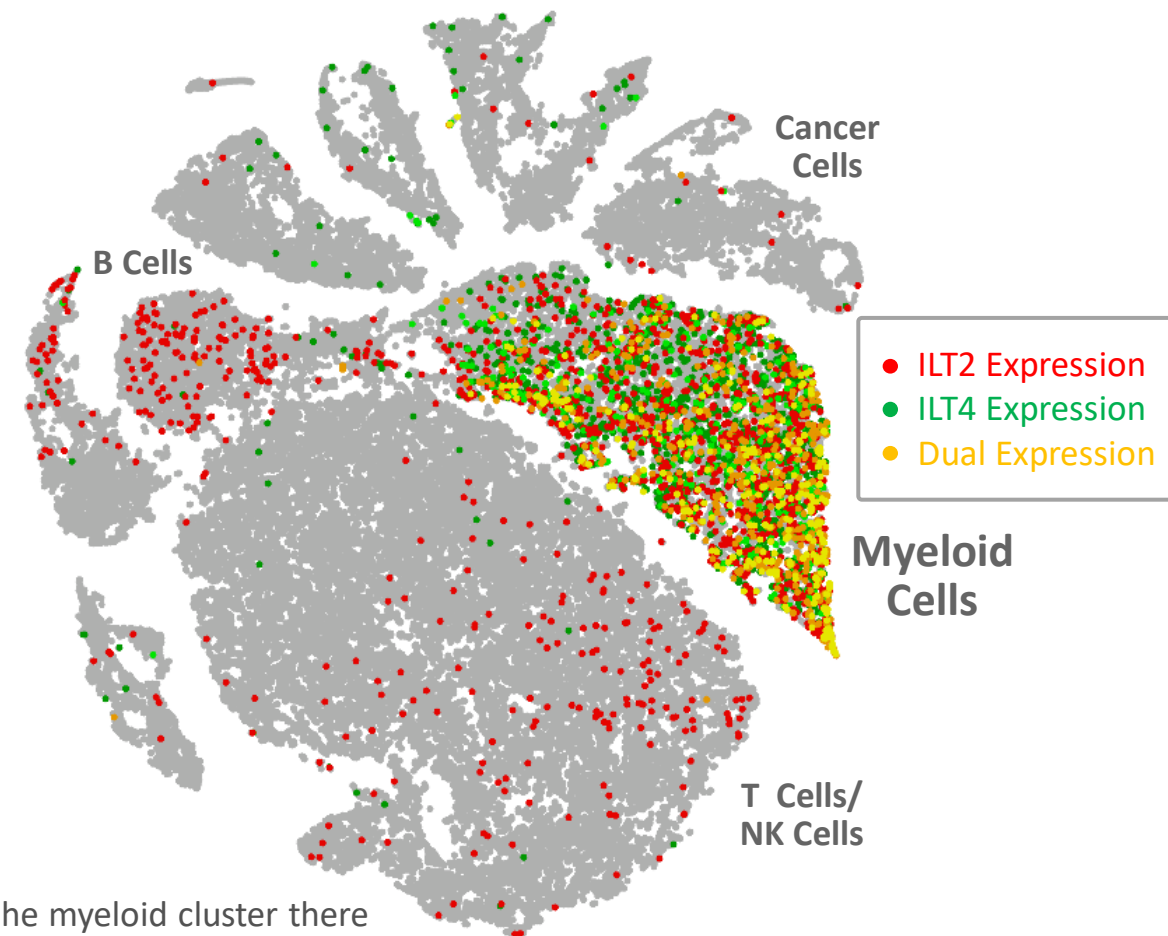
- ILT2 and ILT4 receptors are expressed on myeloid cells (APCs, MDSCs, macrophages, granulocytes) in the tumor microenvironment
- ILT2 additionally exhibits expression on natural killer (NK) cells, B cells and a subset of highly cytolytic T cells

Restrict anti-tumor immunity and promote a tolerogenic state

- By suppressing anti-tumor immune responses, ILT2 and ILT4 may enable tumors to evade immune detection

Contribute to T cell checkpoint inhibitor resistance⁶

- ILT2 and ILT4 are upregulated on macrophages in the tumor microenvironment of certain cancer patients that are non-responders to T cell checkpoint inhibitor therapy

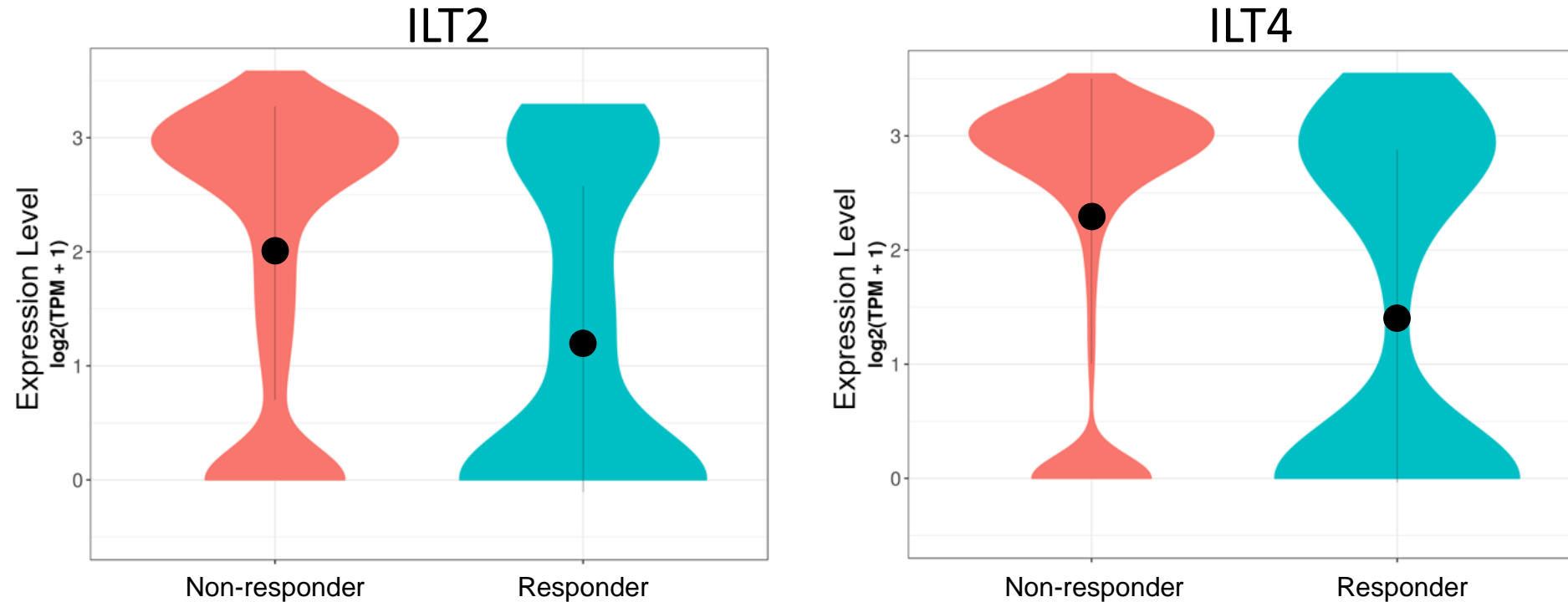


Within the myeloid cluster there are distinct subsets of cells:

ILT2+, ILT4-	} Blocking both ILT2 and ILT4 may provide further benefit
ILT2-, ILT4+	
ILT2+, ILT4+	

ILT2 and ILT4 May Represent Resistance Mechanisms to T Cell Checkpoint Inhibitors

ILT2 and ILT4 are upregulated in melanoma on macrophages of T cell checkpoint inhibitor non-responders¹



GSE120575 – scRNAseq analysis 48 tumors treated with:

- Anti-PD1 (n=35)
- Anti-PD1+Anti-CTLA4 (n=11)
- Anti-CTLA4 (n=2)

17 responders, 31 non-responders

cluster

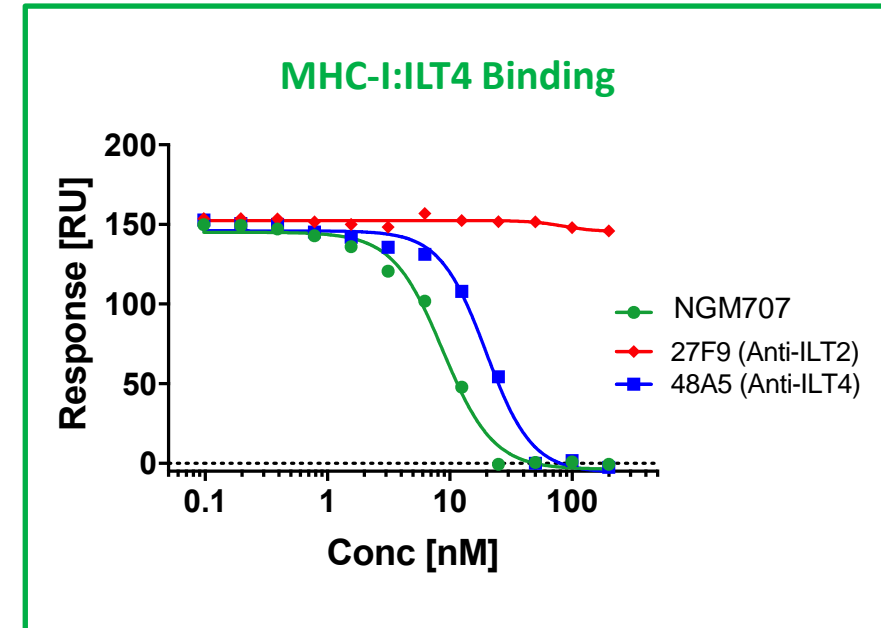
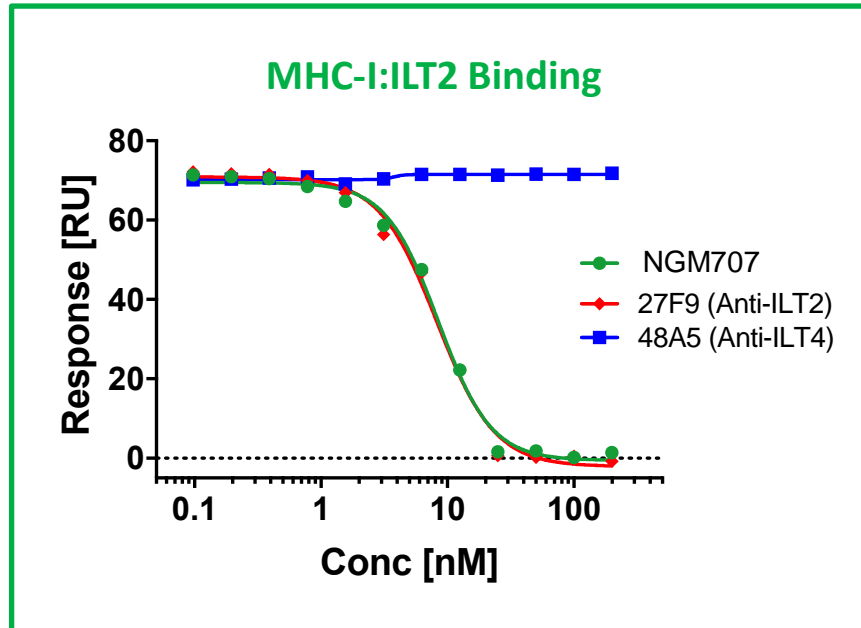
- Non-responder
- Responder

NGM707 Molecular Pharmacology

NGM707 is a Potent Inhibitor of Both ILT2 and ILT4 Interactions with MHC-I



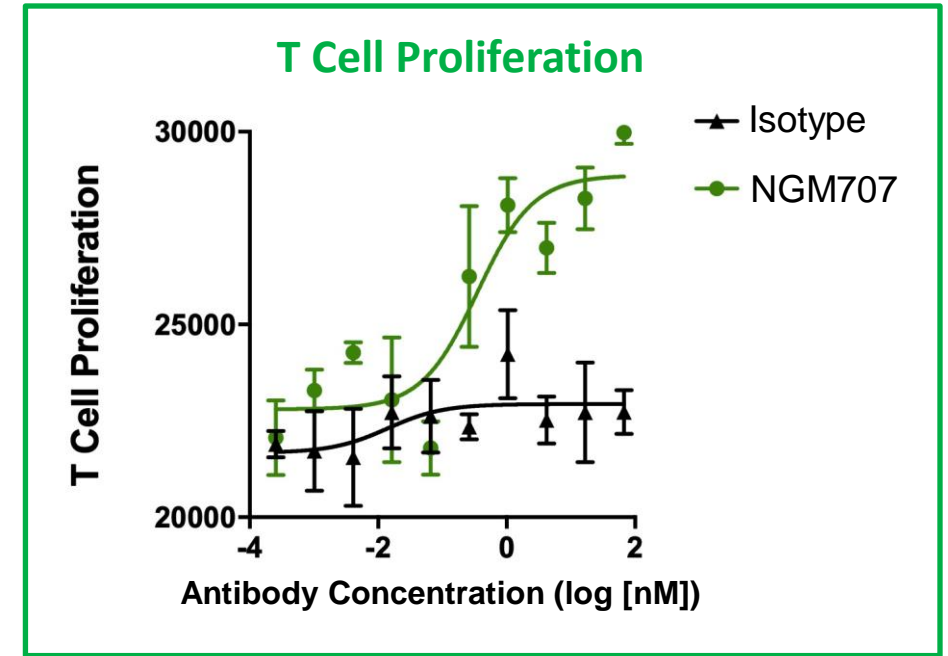
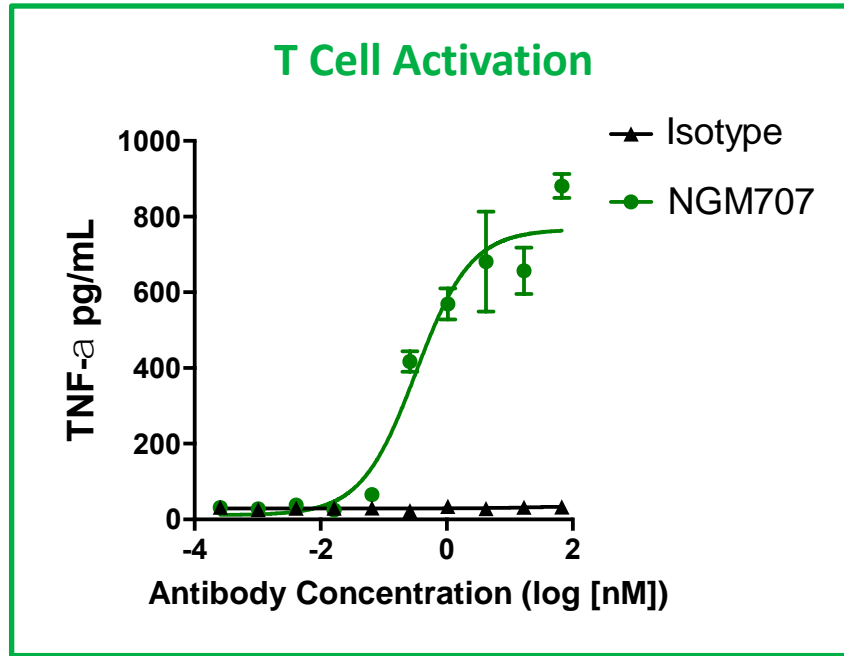
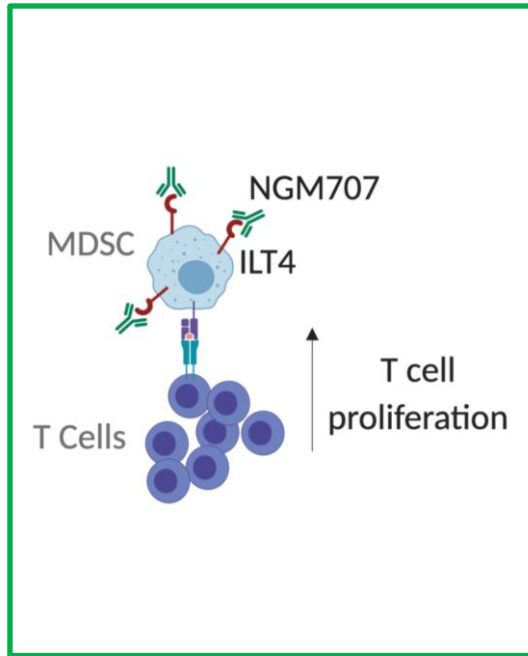
Complete and potent inhibition of MHC-I:ILT2 and MHC-I:ILT4 interactions in Biacore-based binding assays



ILT4 Blockade Reprograms Tumor-conditioned Myeloid-derived Suppressor Cells (MDSC)



ILT4 antagonism enhances T cell activity and proliferation



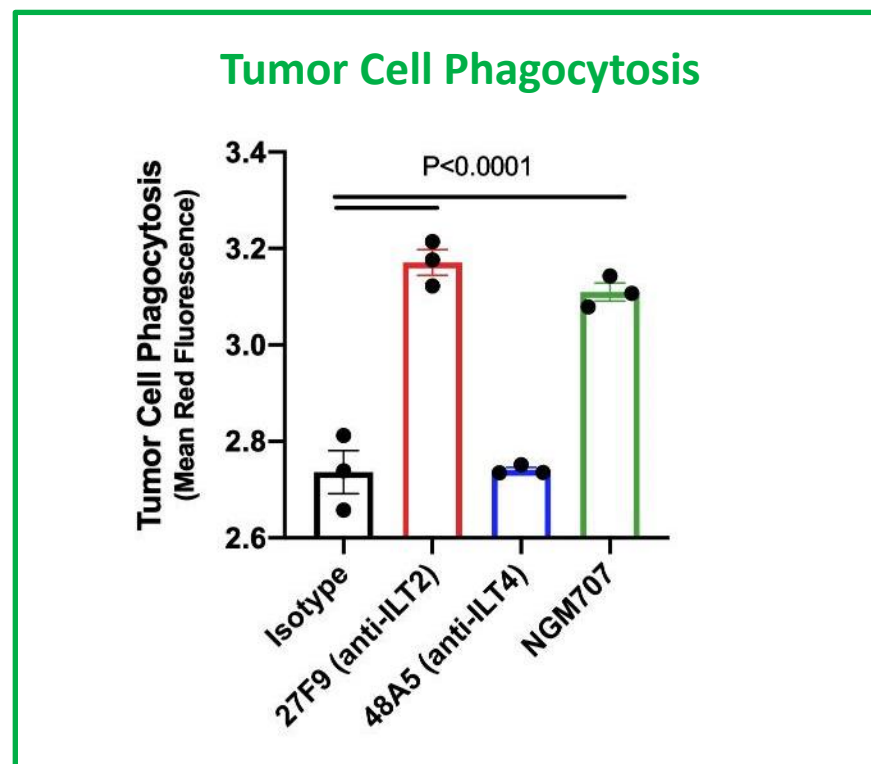
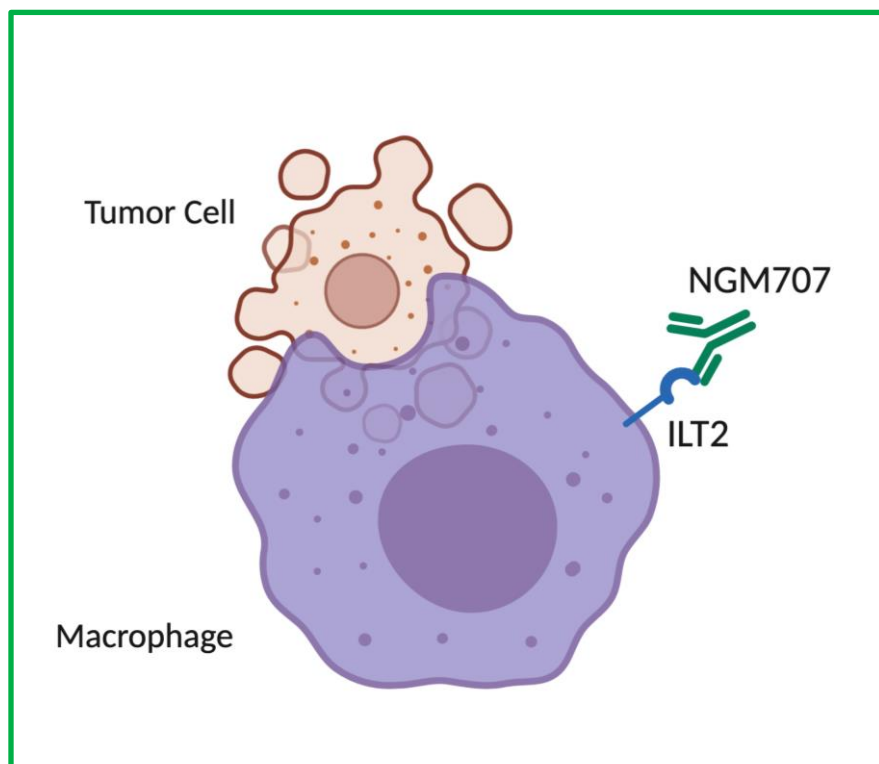
MDSC generated from monocytes using cancer cell-conditioned media (OVICE cells)
MLR performed by mixing MDSC with allogeneic T cells

ILT2 Blockade Enhances Macrophage Phagocytosis of Tumor Cells

- Increased macrophage phagocytosis of cancer cells with ILT2 blockade

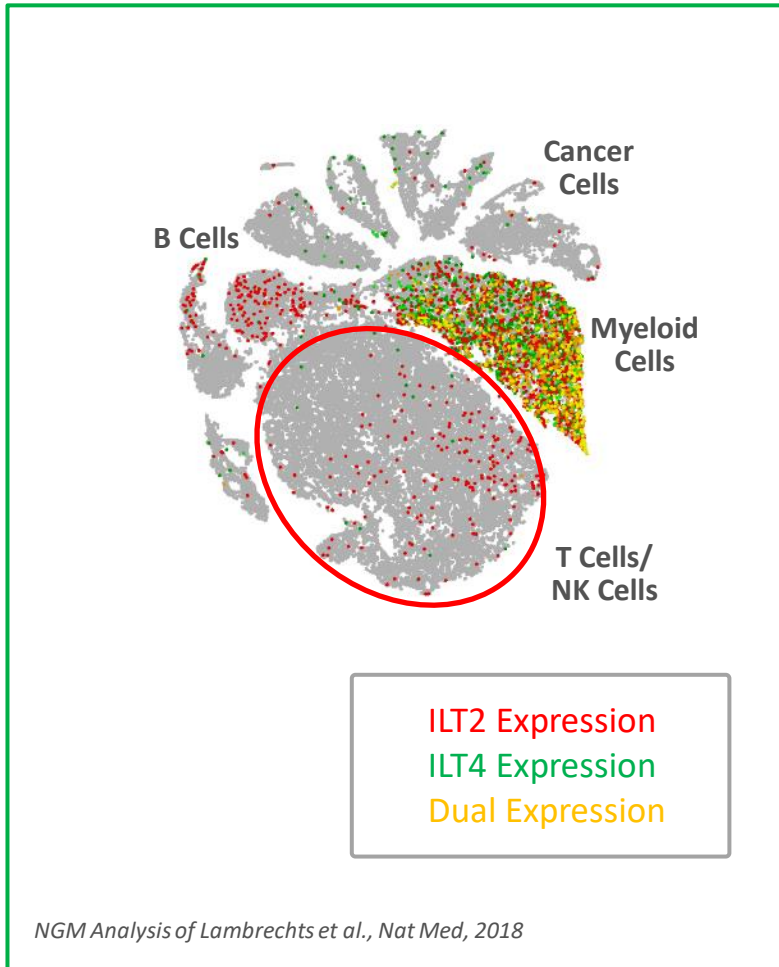
- Macrophage phagocytosis may increase tumor killing and potentially drive antigen spread
- Activity is specific to ILT2/MHC-I interaction despite ILT4 co-expression on macrophages

Macrophage Phagocytosis of Tumor Cells

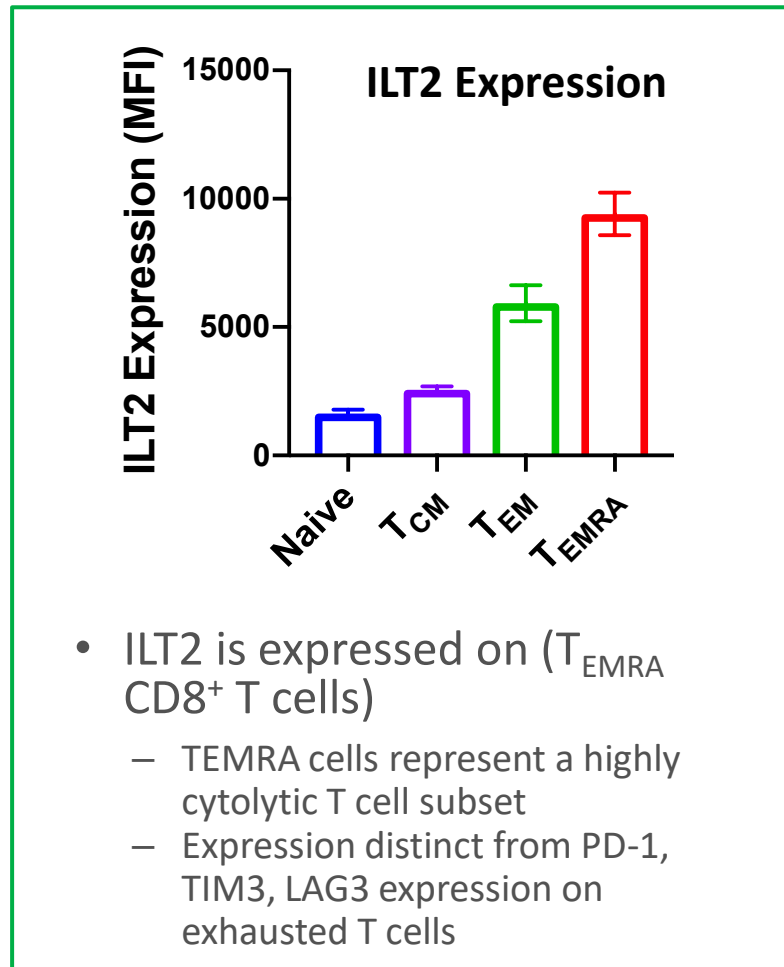


ILT2 Blockade Enhances CD8+ T Cell Cytolytic Activity

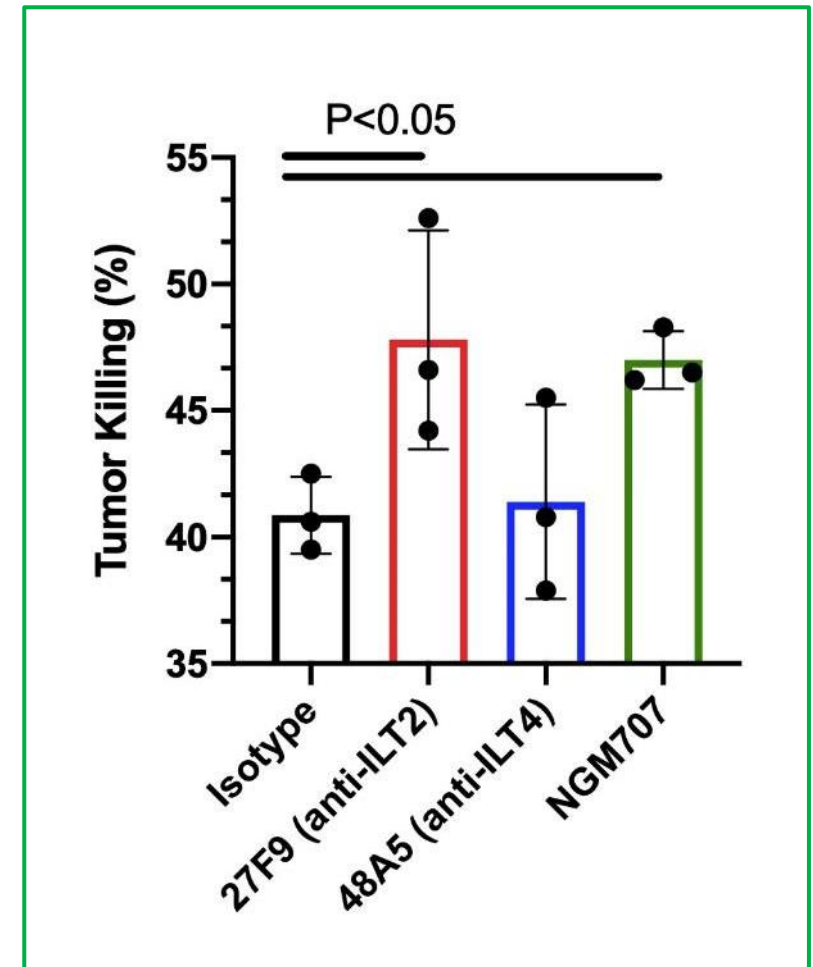
Intra-tumoral ILT2 Expression on CD8+ T cells and NK cells (NSCLC)



ILT2+ expression on CD8+ TEMRA T-cells

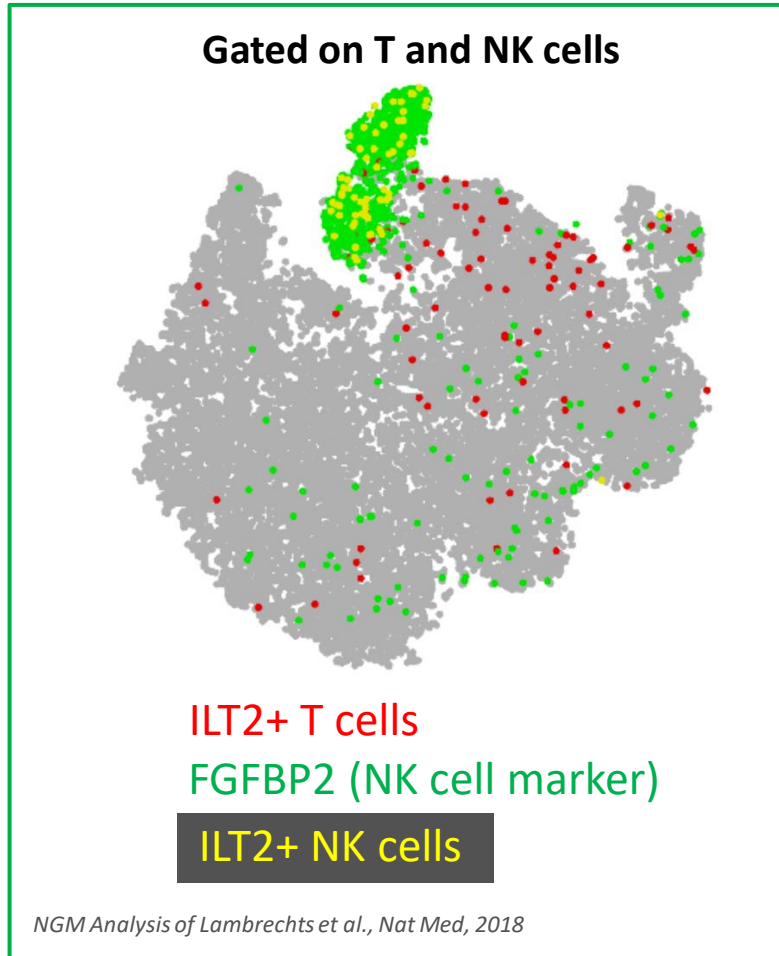


NGM707 enhanced CD8+ T cell cytolytic activity against a tumor B cell line expressing HLA-G

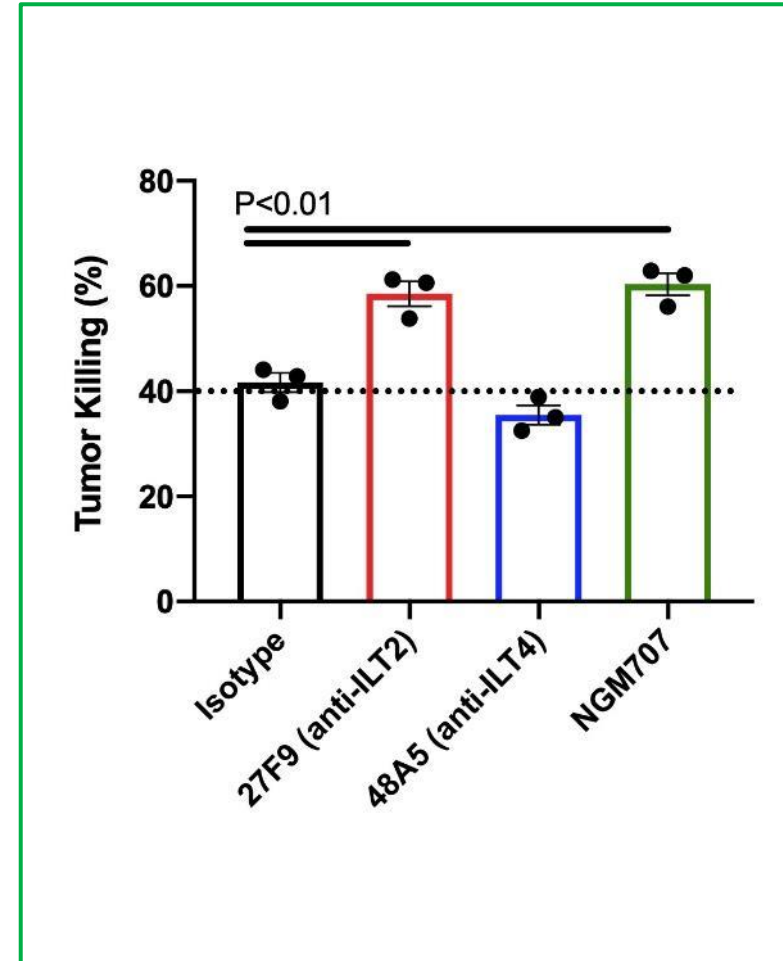


ILT2 Blockade Enhances Primary NK Cell Killing Activity

ILT2 expression on T and NK cells in NSCLC

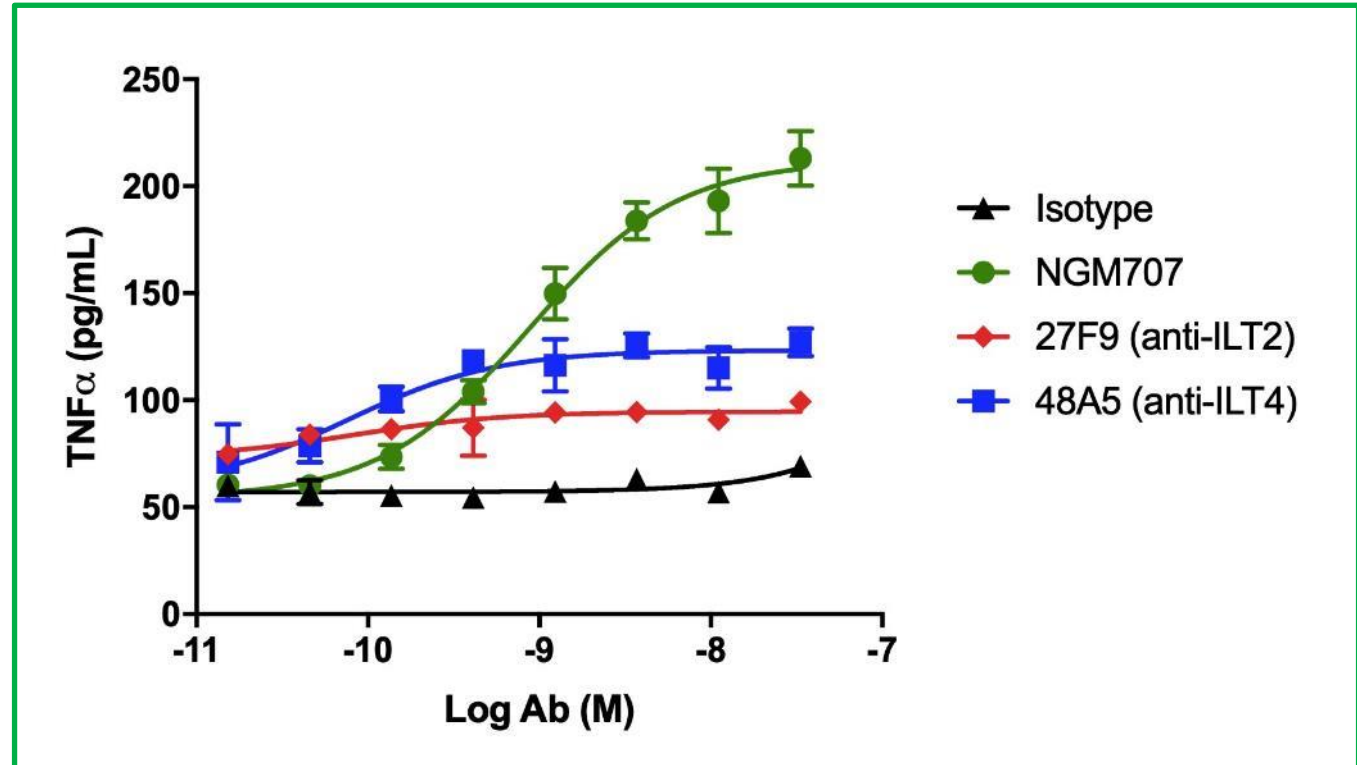
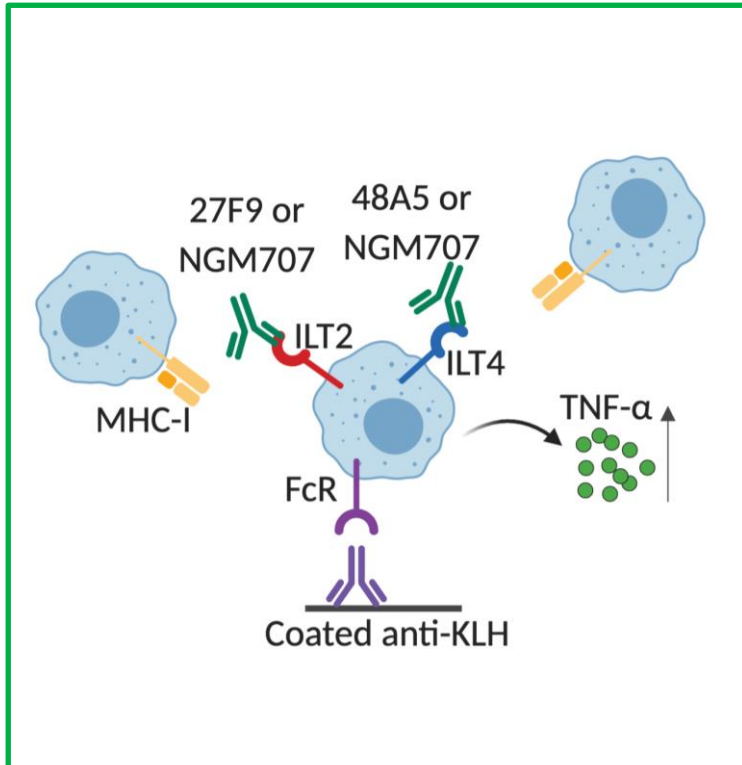


NGM707 enhances primary NK cell tumor killing activity



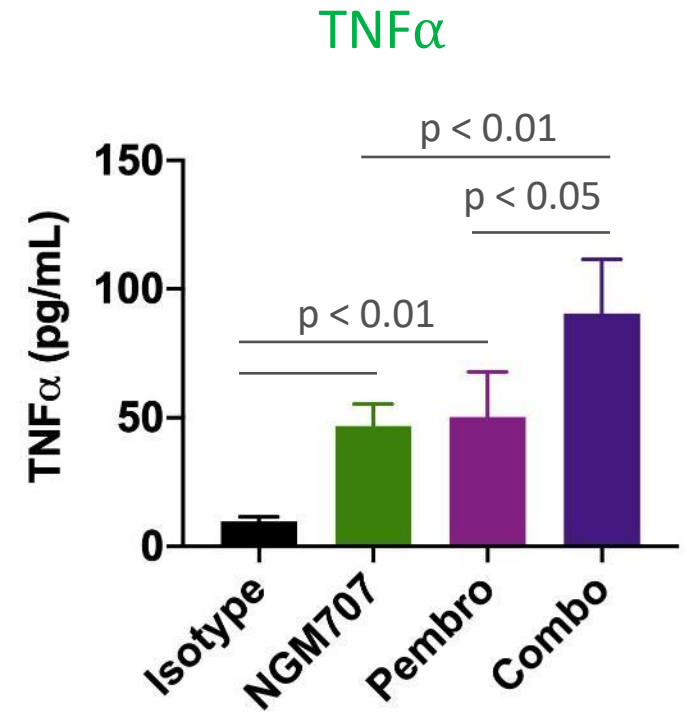
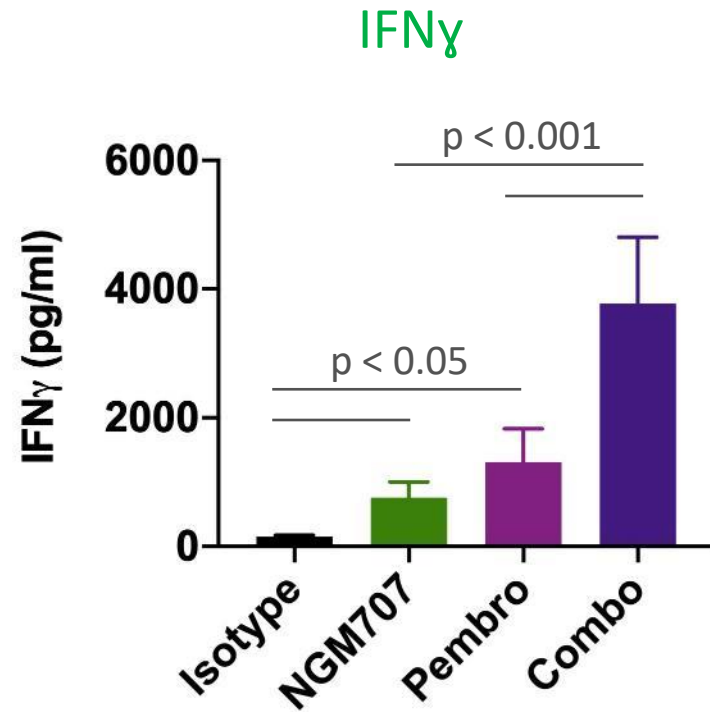
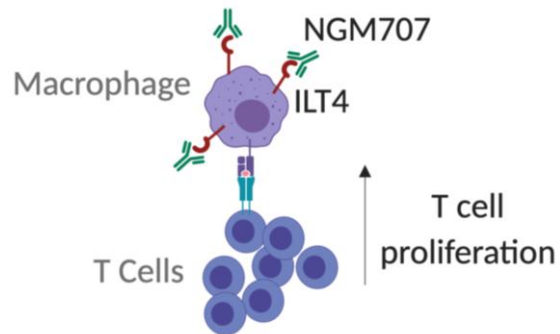
ILT2 and ILT4 Blockade Act Additively to Enhance Myeloid Cell Activation

- **Fc receptors represent key stimulatory receptors on myeloid cells**
 - Inhibition of Fc receptor signaling by ILT2 and ILT4 promotes a suppressive myeloid cell phenotype
- **Dual blockade of ILT2 and ILT4 strongly potentiates Fc receptor signaling**
 - Blockade of ILT2 or ILT4 alone leads to a modest increase in Fc receptor signaling



NGM707 and Pembrolizumab Act Additively to Enhance T Cell Activation in a Mixed Lymphocyte Reaction

- NGM707 or pembrolizumab alone **modestly** enhance T cell activation and increase in cytokine secretion (IFN γ , IL-2, TNF α , GM-CSF)
- Combination of NGM707 and pembrolizumab leads to an **additive** increase in T cell activation and cytokine secretion
- Monocytes from two individuals differentiated into macrophages and tested in mixed lymphocyte reactions with T cells from 12 individuals

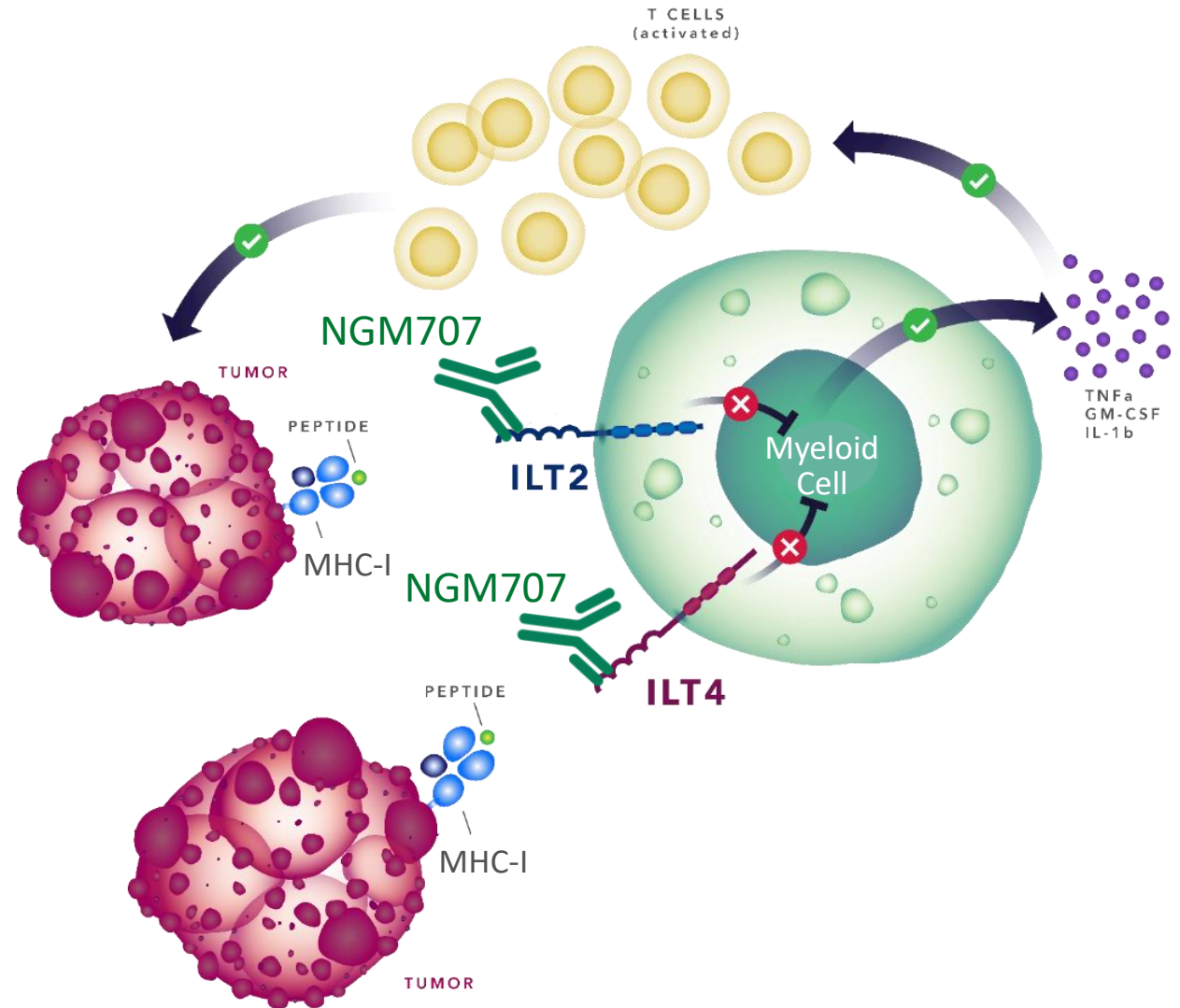


NGM707 is a Dual Antagonist Antibody Inhibiting ILT2 and ILT4

Preclinical studies suggest that NGM707 may:

1. Reprogram tumor-conditioned myeloid-derived suppressor cells to a stimulatory phenotype
2. Enhance macrophage phagocytosis
3. Enhance CD8+ T cell cytolytic activity
4. Enhance primary NK cell killing activity
5. Suppress Fc receptor signaling
6. Act additively with pembrolizumab to enhance T cell activation

➤ **Plan to initiate first-in-human study of NGM707 in mid-2021**



NGM438 in Advanced Solid Tumors

NGM438 is an Antagonist Antibody Inhibiting LAIR1

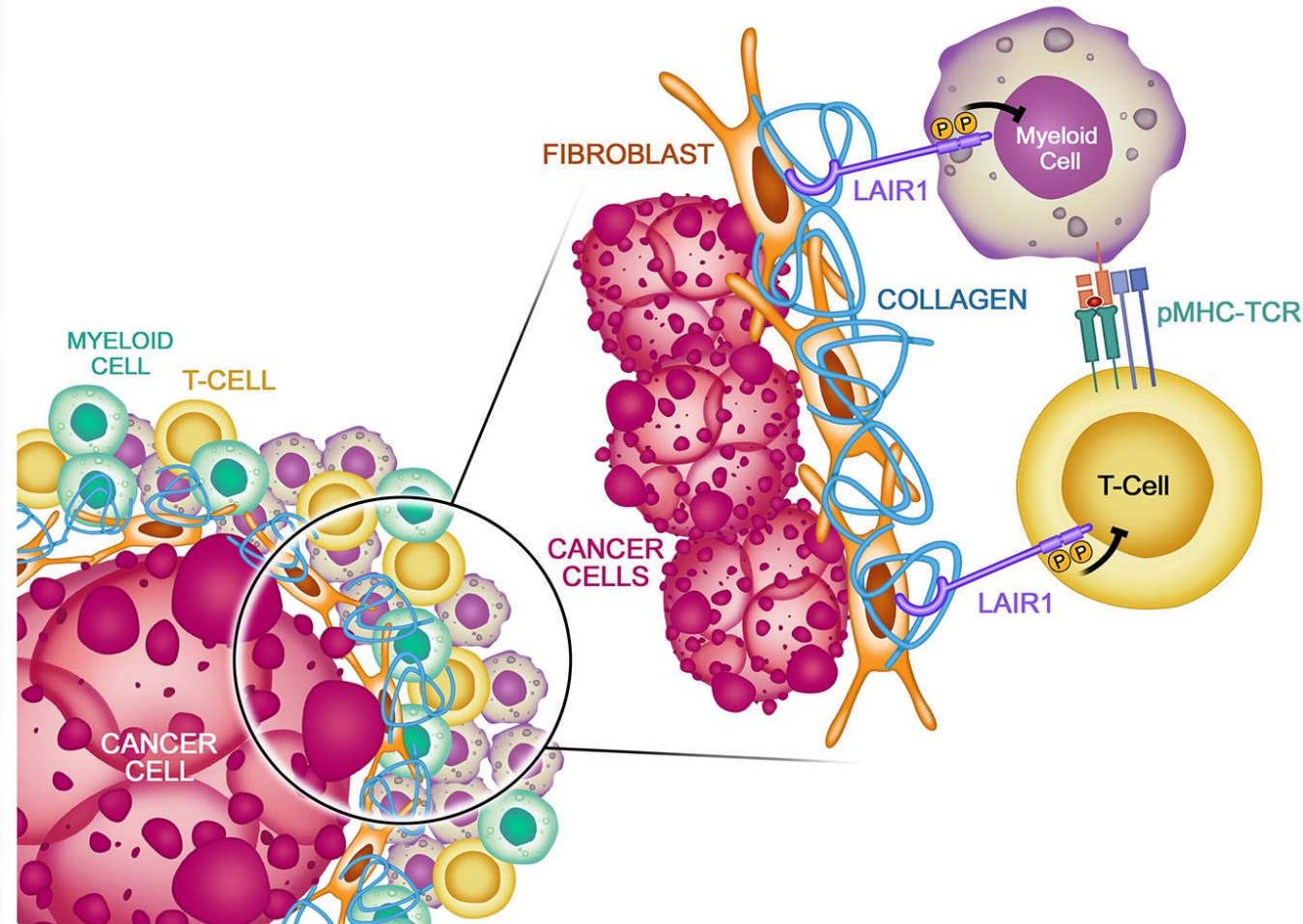
Potent, first-in-class antibody targeting the myeloid-enriched inhibitory receptor LAIR1

Potential to reprogram LAIR1-expressing suppressive myeloid cells within the tumor via disruption of Collagen-LAIR1 mediated immune cell signaling

Preclinical studies suggest that NGM438 may:

1. Reverse collagen mediated suppression of myeloid cells to a stimulatory phenotype
2. Stimulate inflammatory cytokine production in myeloid and T cells
3. Reprogram collagen suppressed myeloid cells to stimulate T cell activation
4. Enhance cellular proliferation of collagen suppressed T cells

Plan to initiate first-in-human study of NGM438 in 4Q21



LAIR1: Key Stromal Checkpoint and its Potential Roles in Cancer

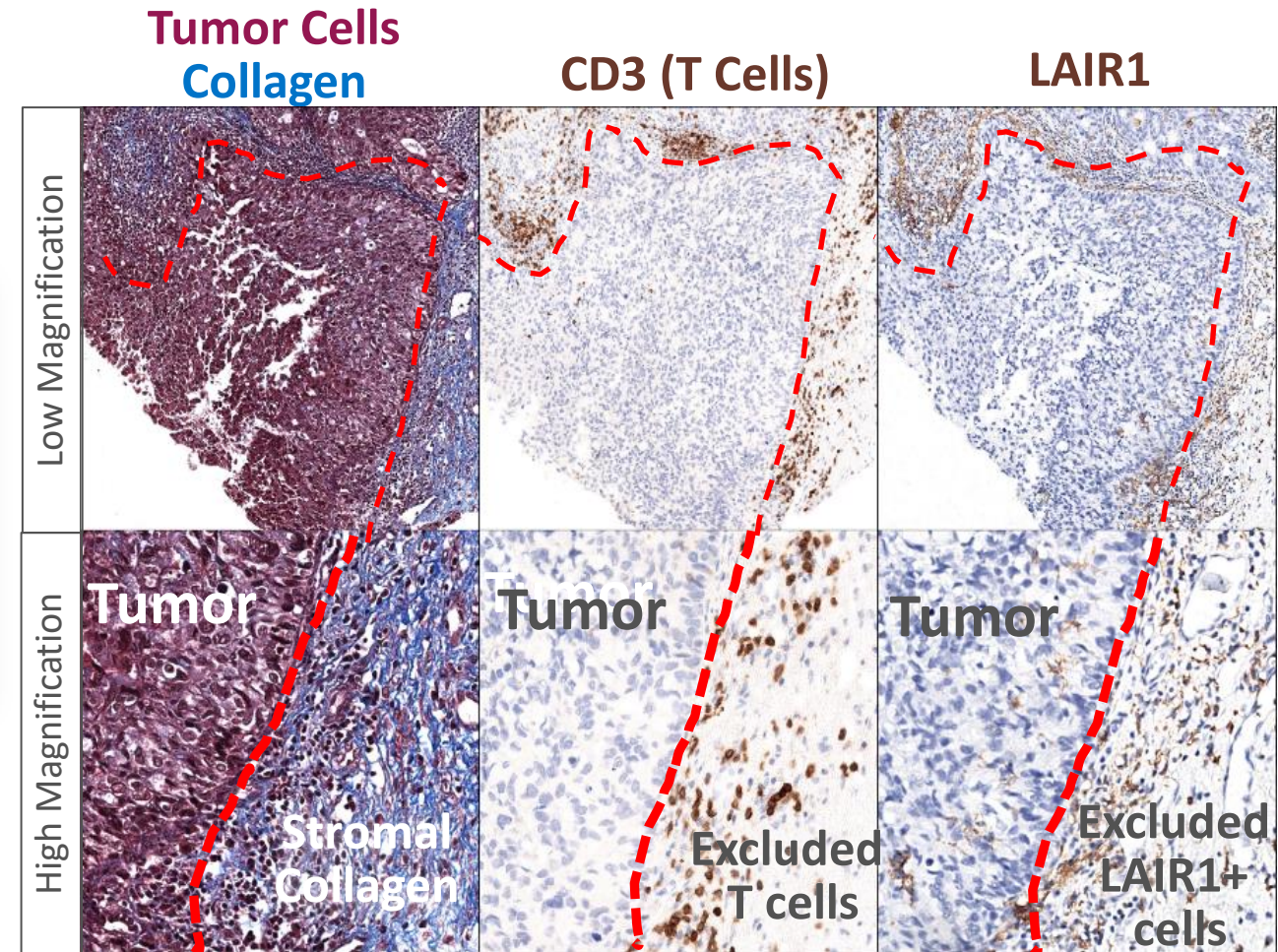
LAIR1 is a collagen-binding inhibitory signaling receptor expressed on immune cells: T cells, B cells, NK cells and myeloid cells¹⁻²

LAIR1 and Collagens are upregulated in certain cancer types³⁻⁷ and impose signal-based immune suppression⁸⁻⁹

- Collagens act as a stromal checkpoint to physically impede anti-tumor immunity
- Co-localization of LAIR1-expressing immune cells and stromal collagen may impose signaling-based immune suppression

Stromal derived factors, such as Collagen expression, and LAIR1-expressing myeloid cells are associated with poor responses to checkpoint inhibitors

LAIR1-Expressing Immune Cells in Pancreatic Tumor

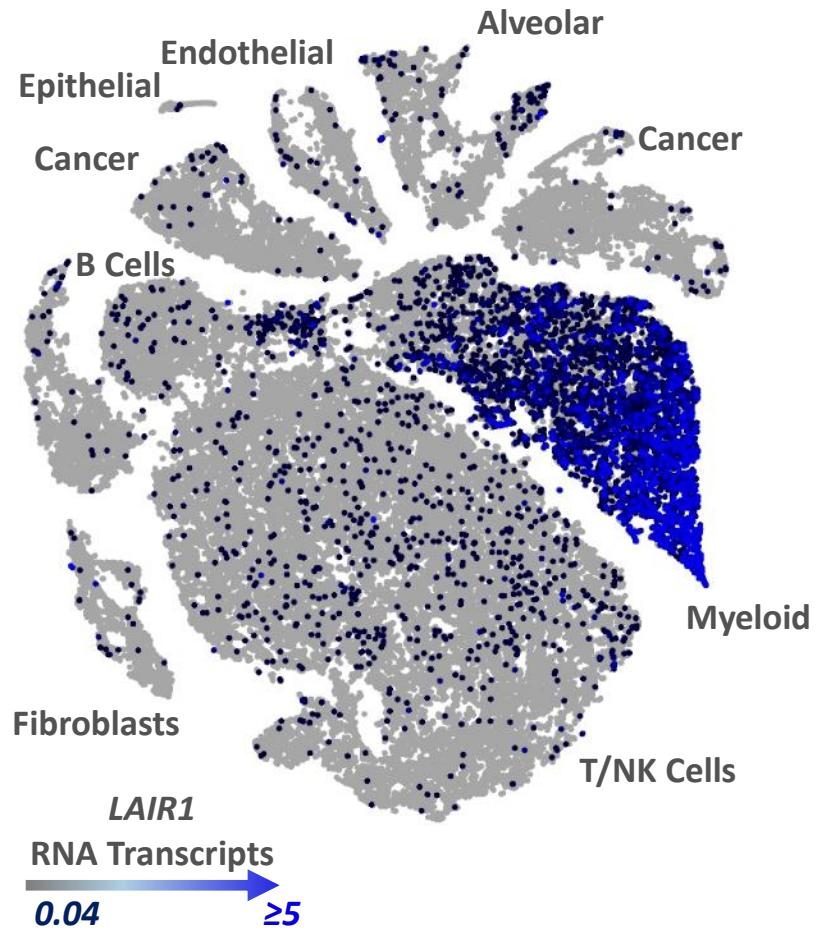


Pancreatic ductal adenocarcinoma tumor section

LAIR1-Expressing Myeloid Cells are Present in Many Human Tumors

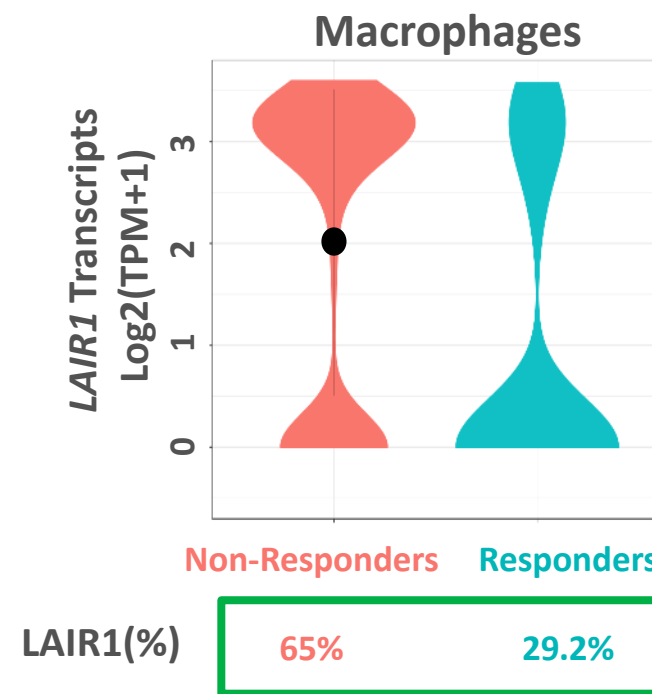
LAIR1 Expression is Elevated in Myeloid Cells in Checkpoint Inhibitor Non-Responders

LAIR1 RNA Enriched in Myeloid Cells and Lymphoid Cells In NSCLC



Lambrechts et al., Nat Med, 2018

LAIR1 Expression is Elevated in Macrophages in Checkpoint Inhibitor (CPI) Non-Responders in Metastatic Melanoma



Tumor samples categorized by RECIST/radiological assessment:
35 anti-PD-1, 11 anti-CTLA4+PD-1, 2 anti-CTLA4
Sage-Feldman, et al., 2019

- LAIR1 may represent a novel myeloid checkpoint in checkpoint inhibitor non-responders
- LAIR1 may represent a resistance mechanism to checkpoint inhibitor therapies

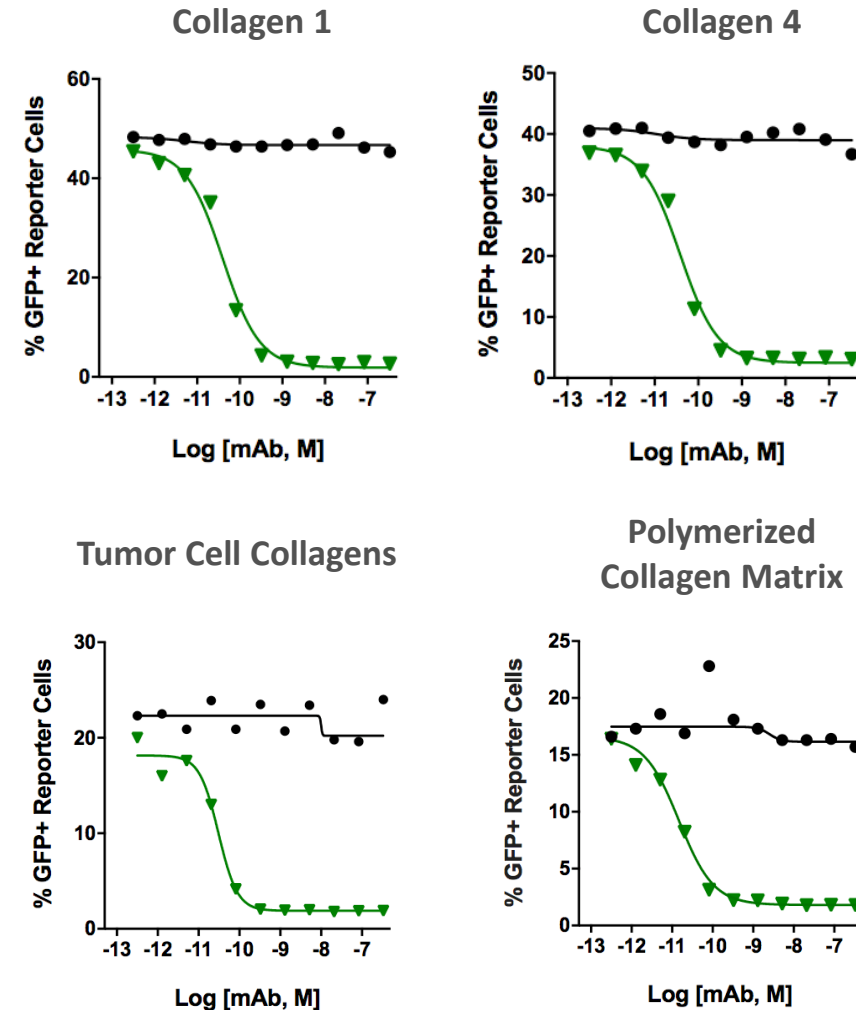
NGM438 Molecular Pharmacology

NGM438 is an Antagonist of LAIR1-Collagen Signaling

LAIR1 Reporter Cell Activity Blocking Assay

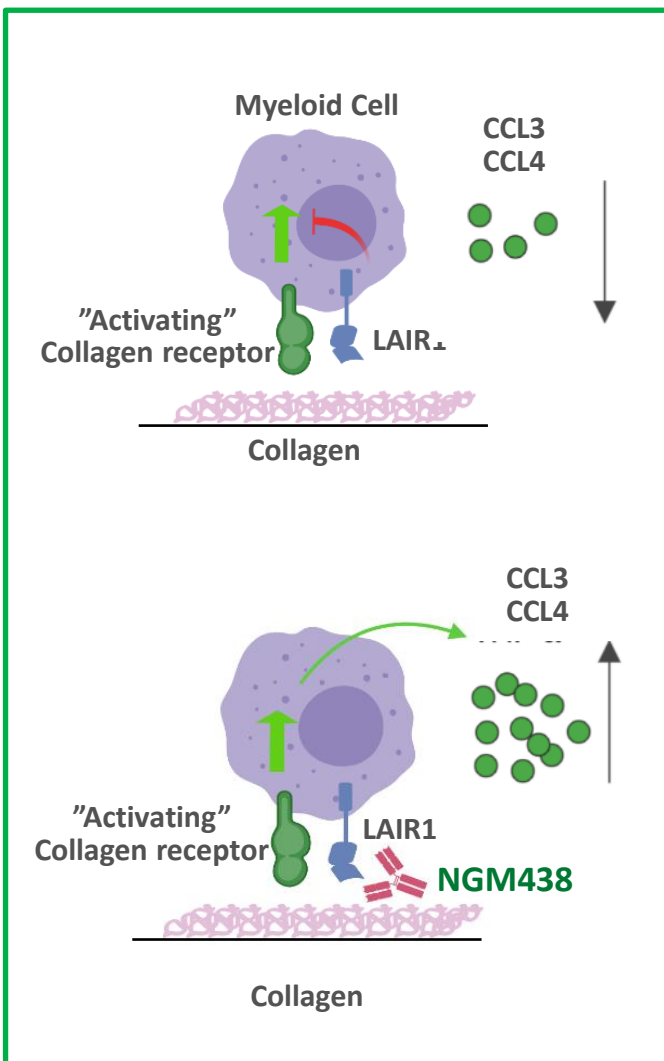
IC ₅₀ (M)	NGM438
Collagen 1	3.2x10 ⁻¹¹
Collagen 4	3.2x10 ⁻¹¹
Tumor Cell Collagens	1.6x10 ⁻¹¹
Polymerized Collagen Matrix	3.0x10 ⁻¹¹

LAIR1 Reporter cells were incubated on plates coated with ligands with soluble antagonists in the media



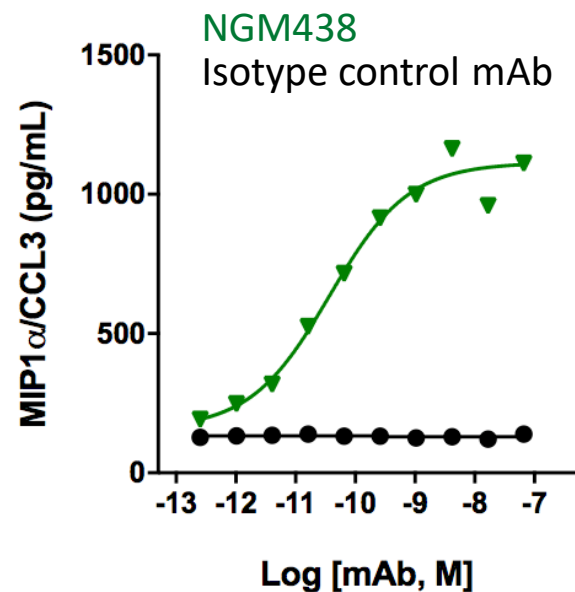
NGM438
Isotype
control mAb

NGM438 Reverses Collagen-Mediated Suppression and Induces Reprogramming in Myeloid Antigen Presenting Cells

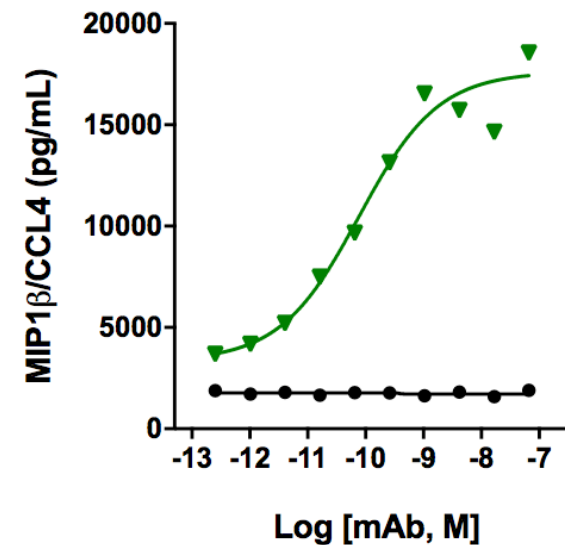


- Collagen receptors, such as integrins, represent key stimulatory receptors on myeloid cells
 - Inhibition of activating receptors via Collagen-LAIR1 signaling promotes a suppressive myeloid cell phenotype
- **NGM438 blockade of LAIR1-Collagen binding reprograms myeloid cells to be pro-inflammatory**
 - Blockade of Collagen-LAIR1 leads to a potent increase in inflammatory cytokines, including CCL3 and CCL4 that are involved in recruiting lymphocytes to areas of inflammation

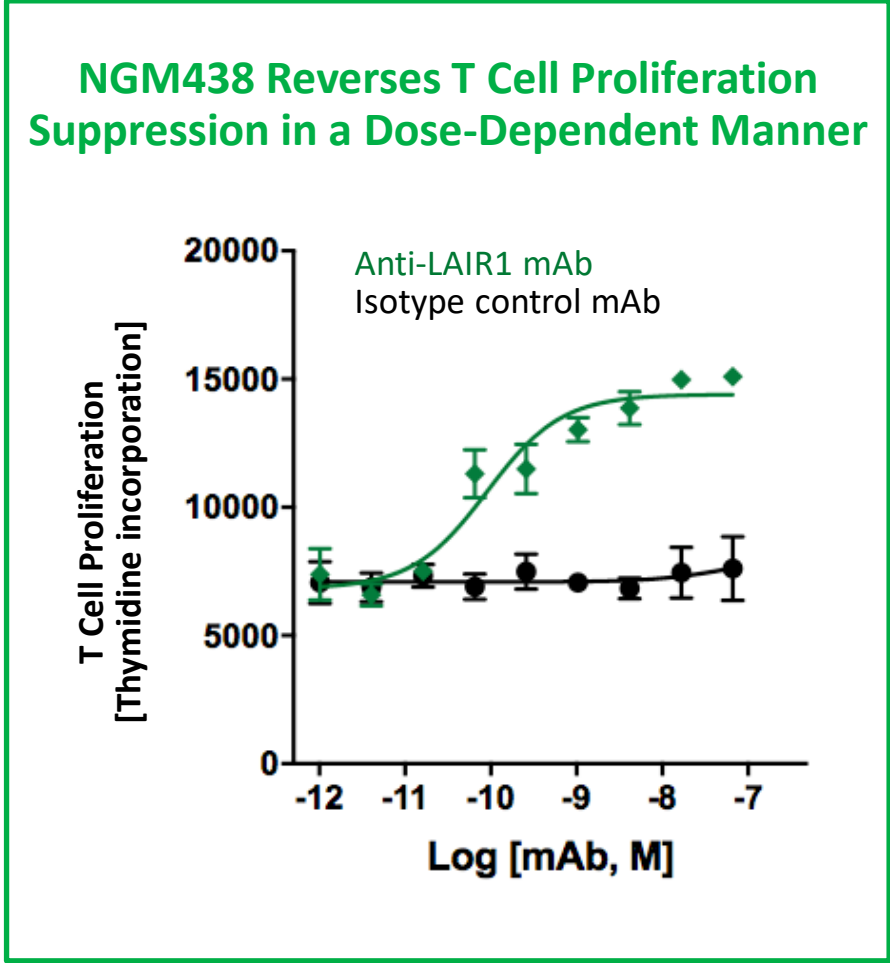
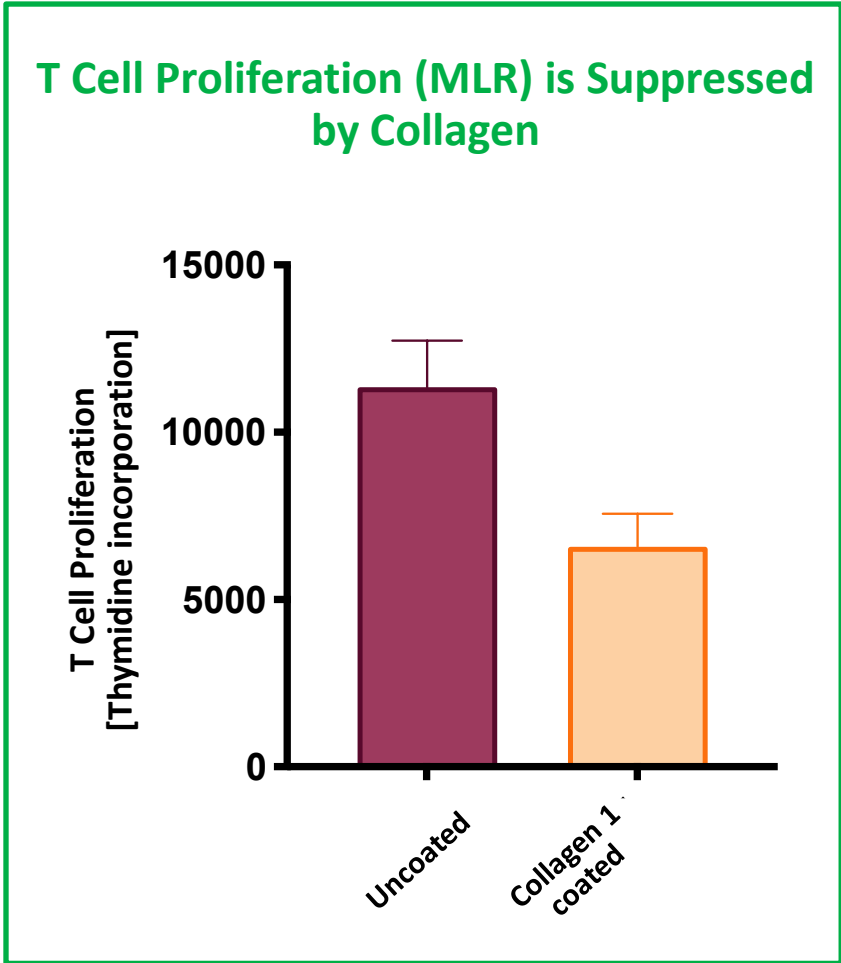
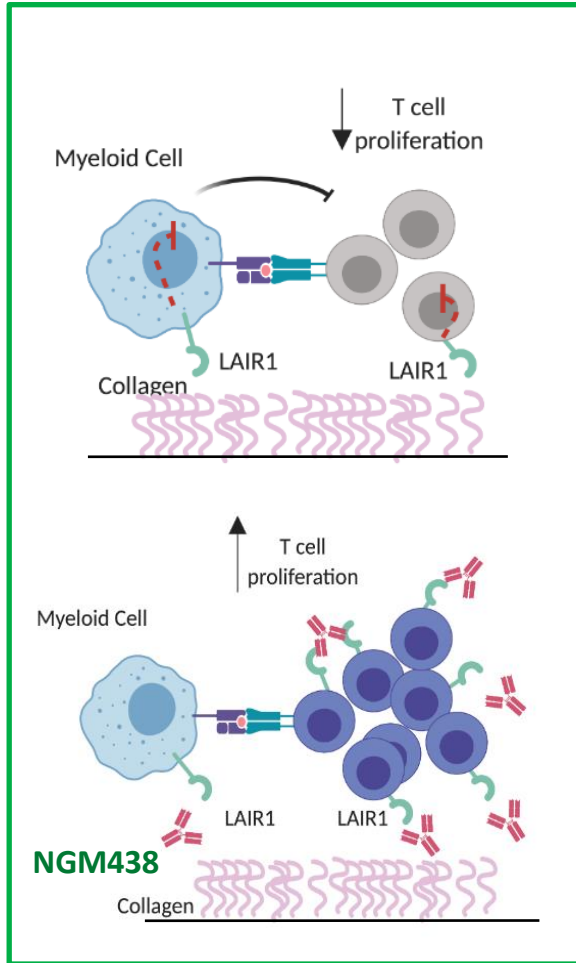
CCL3 production



CCL4 production



LAIR1 Blockade Reverses Suppression of Myeloid Cells by Collagen Leading to Enhanced T Cell Proliferation

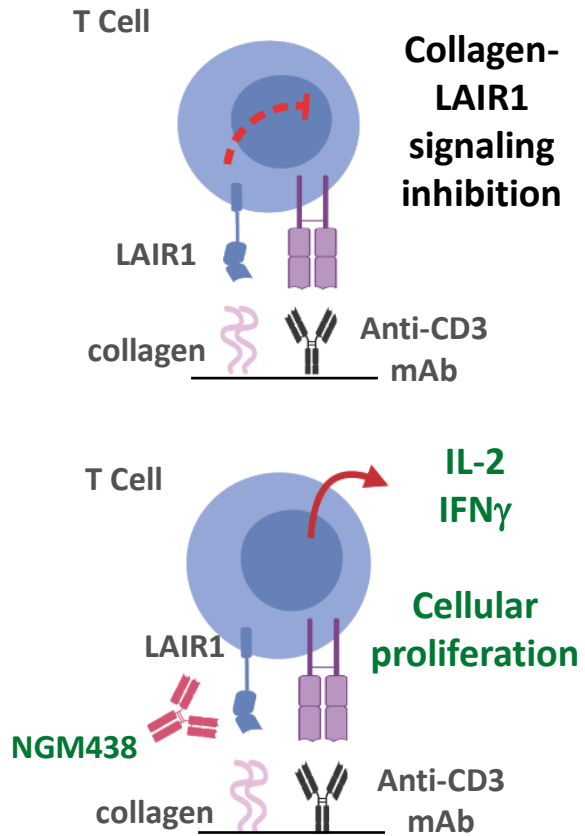


donor-mismatched monocyte-derived dendritic cells and T cells were incubated on plates coated with human collagen type 1 with soluble antagonists in the media

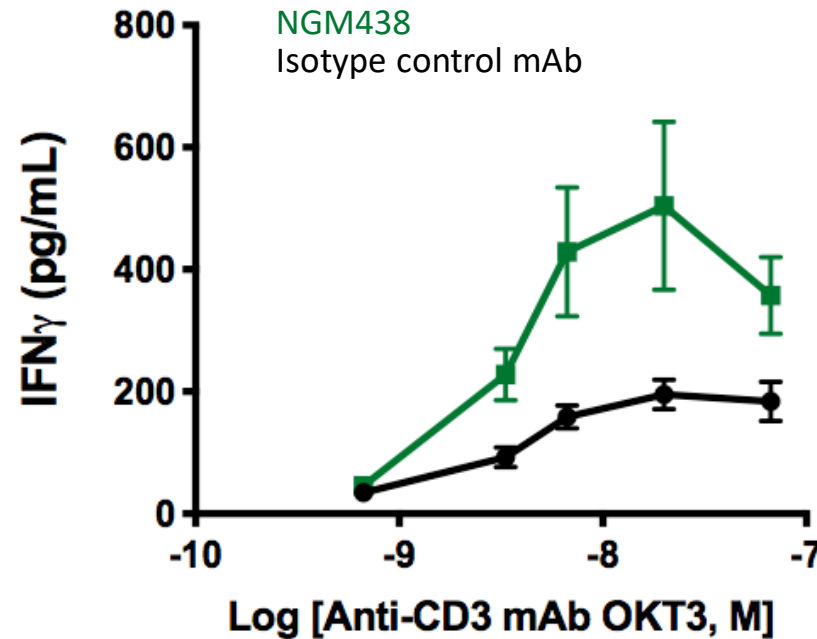
MLR = Mixed Lymphocyte Reaction

NGM438 Enhances Inflammatory Cytokine Secretion and T Cell Proliferation in Collagen-suppressed T Cells

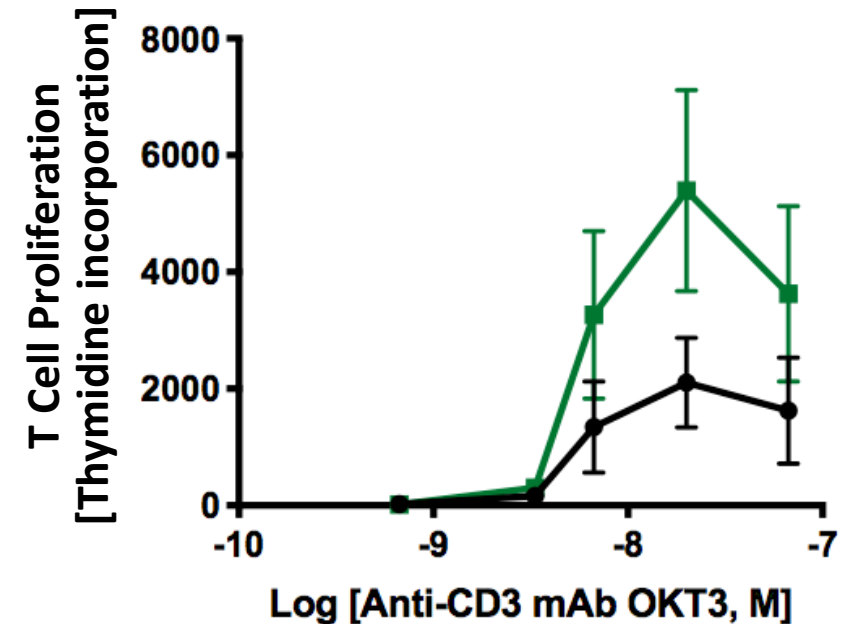
Collagen-Suppressed T cell Assay



NGM438 Promotes Th1 Cytokine Production



NGM438 Enhances T Cell Proliferation *in vitro*

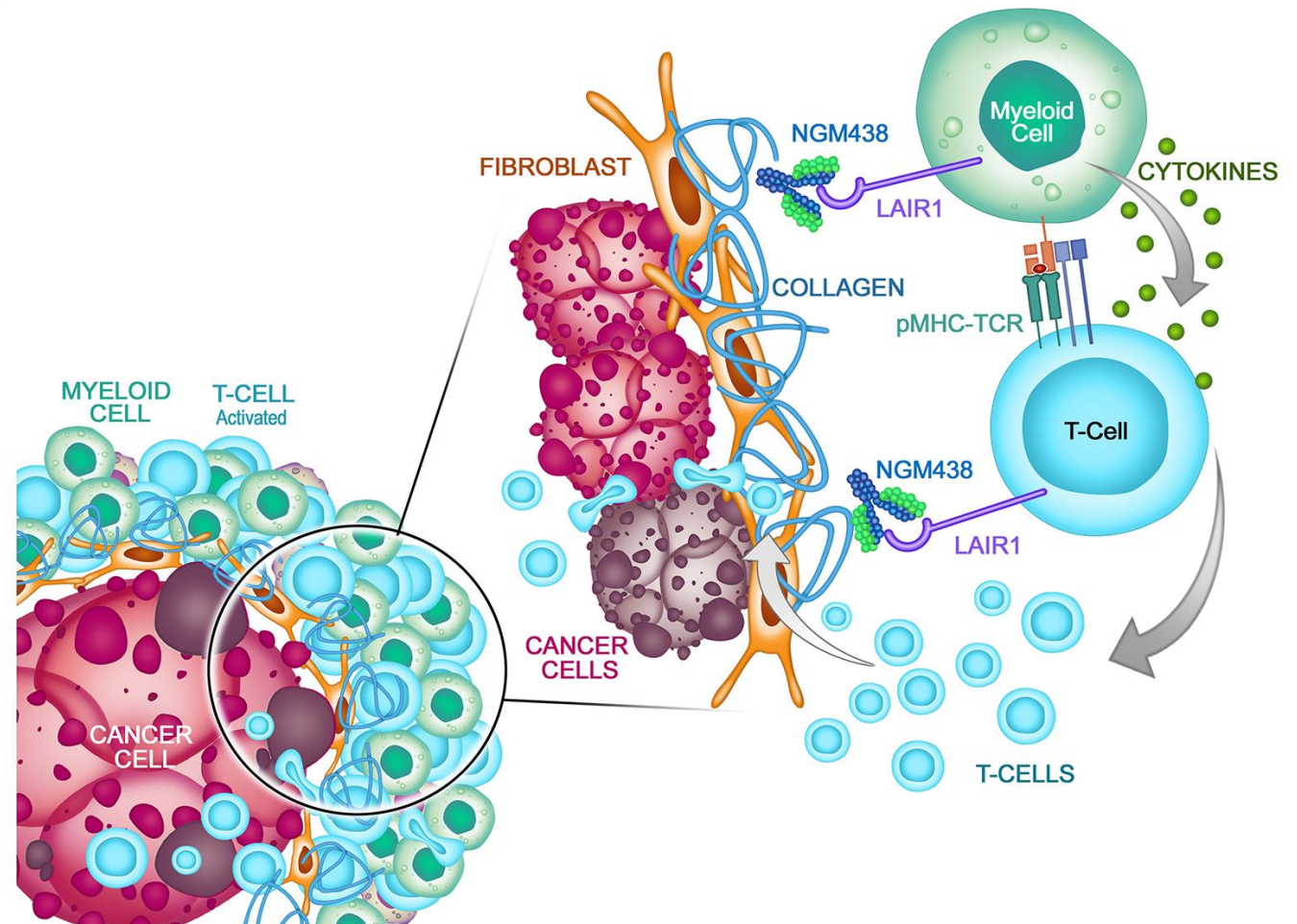


NGM438 is an Antagonist Antibody Inhibiting LAIR1

Preclinical studies suggest that NGM438 may:

1. Reverse collagen mediated suppression of myeloid cells to a stimulatory phenotype
2. Stimulate inflammatory cytokine production in myeloid and T cells
3. Reprogram collagen suppressed myeloid cells to stimulate T cell activation
4. Enhance cellular proliferation of collagen suppressed T cells

➤ **Plan to initiate first-in-human study of NGM438 in 4Q21**



Q&A



Alex DePaoli, M.D.
SVP and Chief Translational
Officer, NGM



Daniel Kaplan, Ph.D.
Director, Biology, NGM



James Sissons, Ph.D.
Director, Biology, NGM



Daniel Von Hoff, MD, F.A.C.P.
Distinguished Professor,
The Translational Genomics
Research Institute



Robert Schreiber, Ph.D.
Distinguished Professor, Pathology &
Immunology, Washington University
School of Medicine



David Woodhouse, Ph.D.
Chief Executive Officer, NGM

NGM621 for Geographic Atrophy Secondary to Age-Related Macular Degeneration (AMD)



Erin Henry, Ph.D.
Head of Ophthalmology

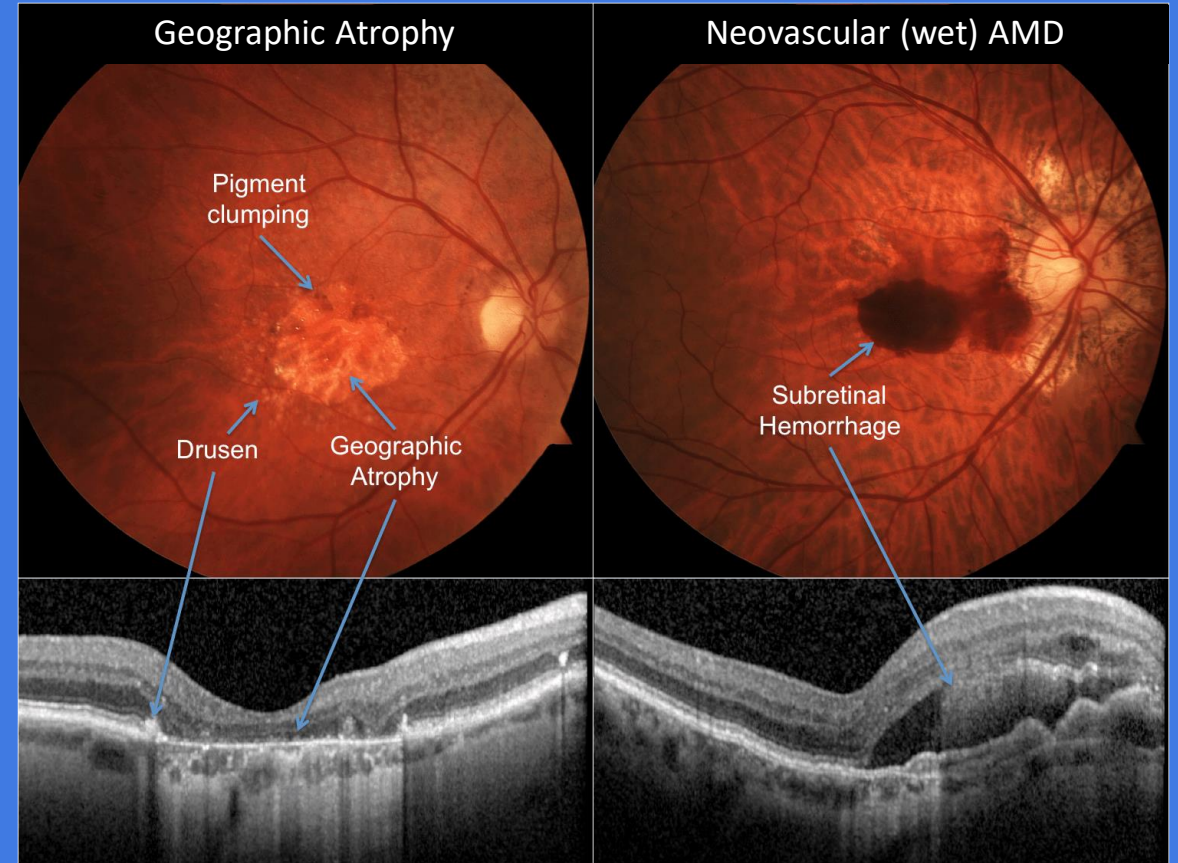


Geographic Atrophy is a Leading Cause of Blindness with no Approved Treatments



- GA and neovascular (wet) AMD are the **advanced forms of AMD**
 - prevalence rates are similar in the US, and both **rise exponentially with age**
 - wet AMD has approved treatment options
 - GA has **no FDA-approved treatments** and is a **leading cause of blindness** in the developed world
- GA affects **>5 million globally** and **~1 million** in the U.S. ^{1,2}

AMD is the most common cause of blindness in the developed world, accounting for 8.7% of blindness worldwide.^{3,4}



Geographic Atrophy and wet AMD are not mutually exclusive

¹Fleckenstein, 2018; ²Friedman, 2004; BrightFocus® Foundation

³As of 2016. Eye Vis (Lond). 2016; 3: 34.

⁴Wong et al. NEJM 2014.

<https://www.acms.org/2019/03/age-related-macular-degeneration-in-2019>

Geographic Atrophy is an Age-Related, Progressive Retinal Degenerative Disease Associated with Irreversible Loss of Vision



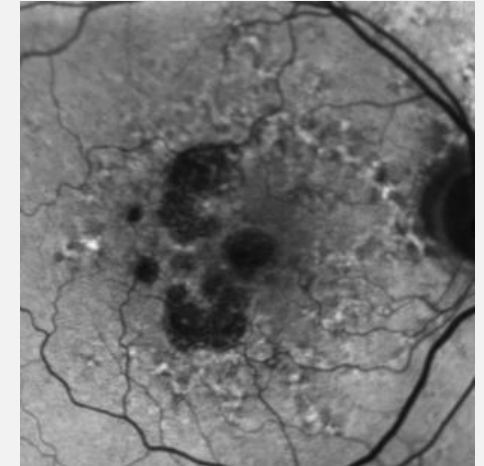
GA is characterized by the progressive loss of photoreceptors, retinal pigment epithelium (RPE) and choriocapillaris in the macular region of the retina.

GA typically impacts both eyes, exacting a striking toll on patients' central vision:

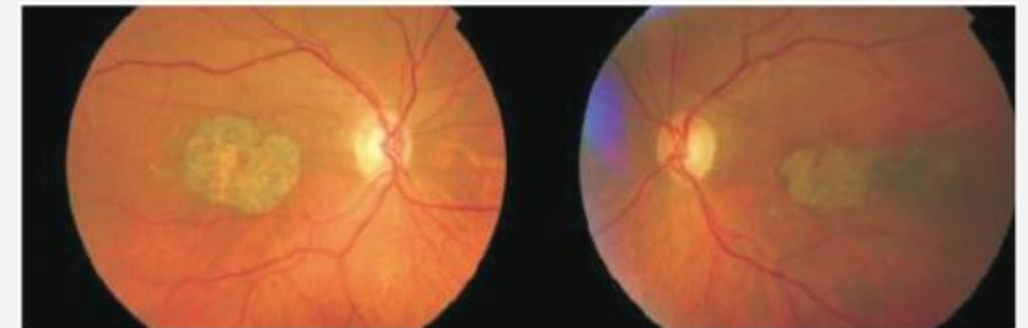
- Recent studies have reported,
 - 2/3rds of GA patients became **ineligible to drive** within 2 years of diagnosis
 - 1 in 6 people became **legally blind within 6 years** of diagnosis
 - GA patients on average **lost a line of vision a year** due to their disease progression
- GA disease progression, and accompanying vision decline, may **lead to loss of independence**, poorer quality of life, depression and an increased incidence of falls and fractures



HEALTHY RETINA



RETINA WITH GA

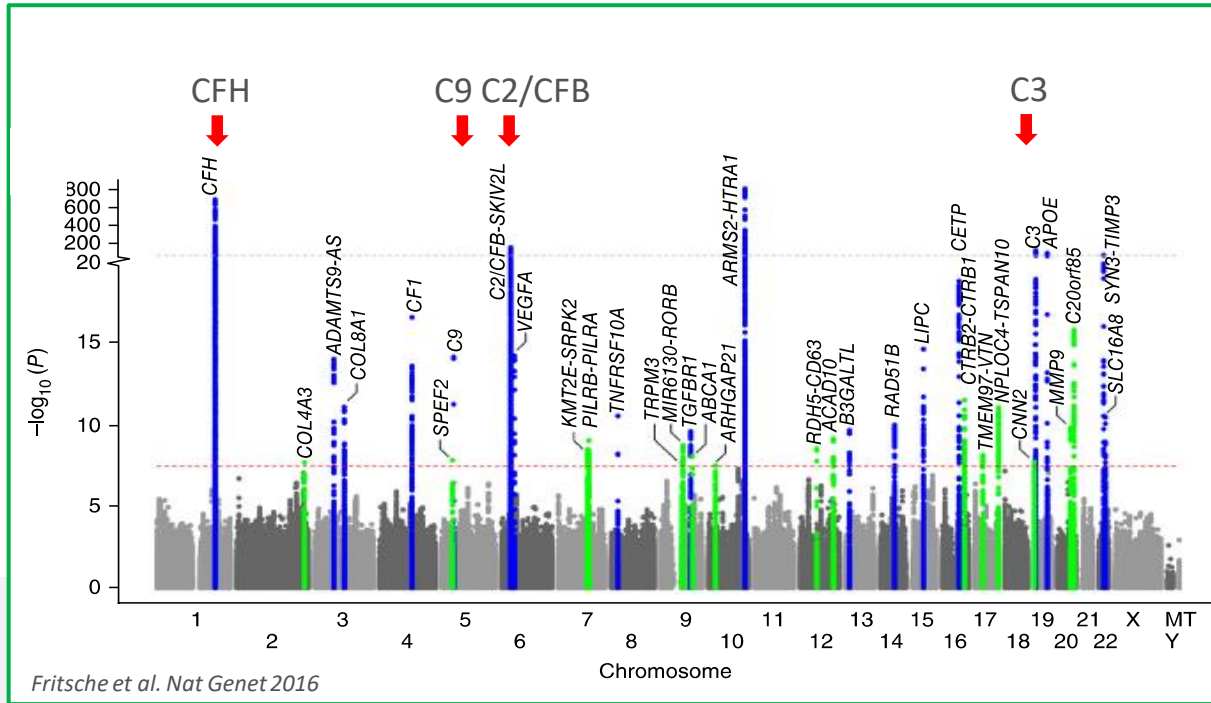


BILATERAL GA

Fundus images show hypopigmented areas in the macula where the RPE and photoreceptors are absent

Evidence Strongly Supports the Pathological Role of Dysregulated Complement Activation in GA

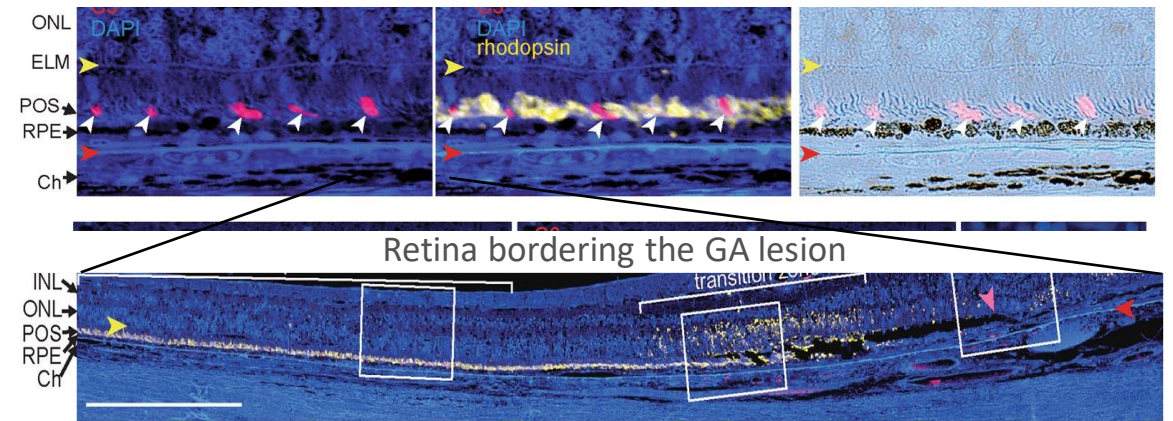
GENETIC EVIDENCE



Variants in the complement pathway account for the majority of the known genetic risk for GA/AMD

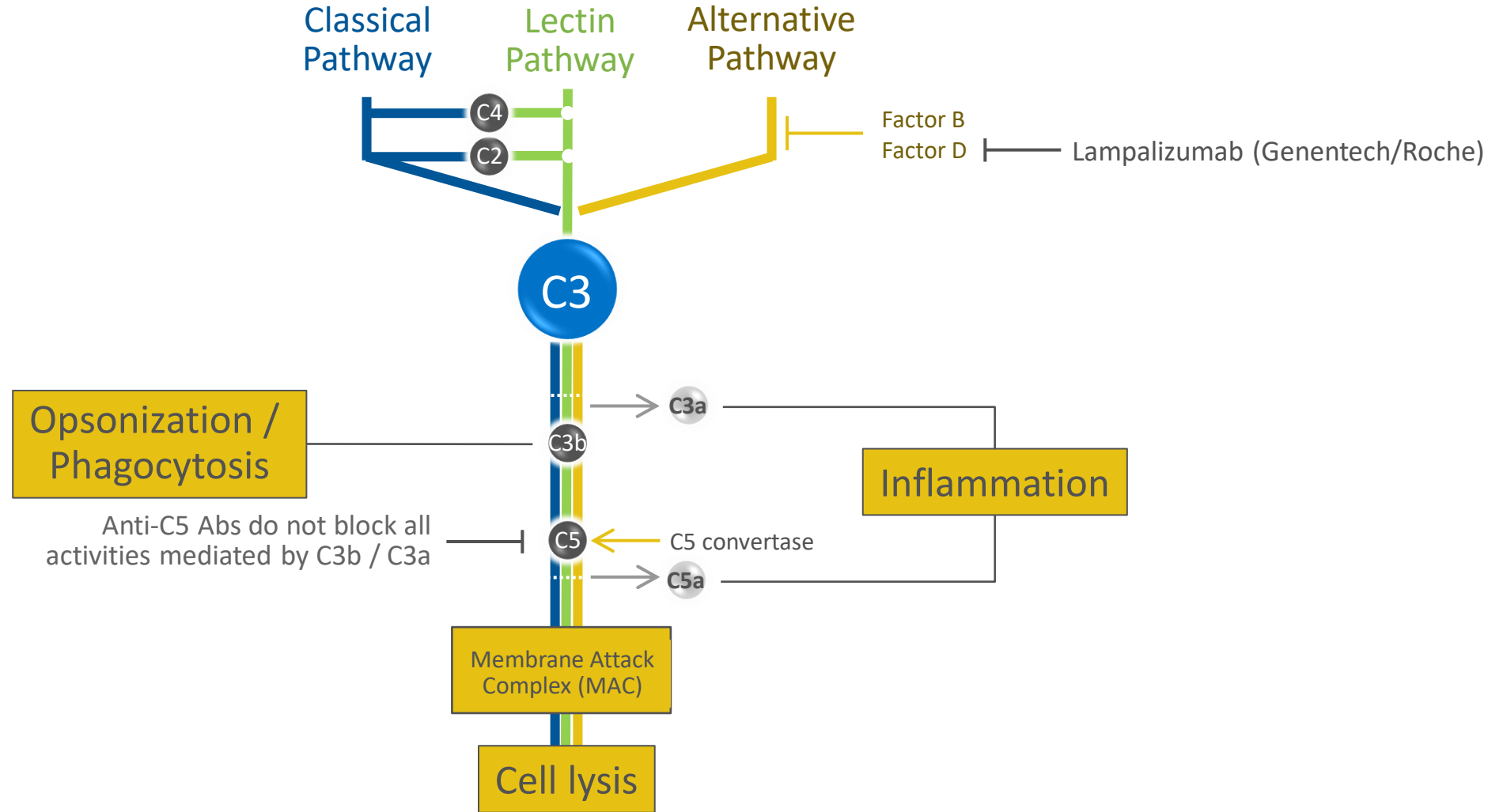
HISTOPATHOLOGICAL EVIDENCE

C3 Deposition on Photoreceptors Precedes their Degeneration in Human GA Eyes

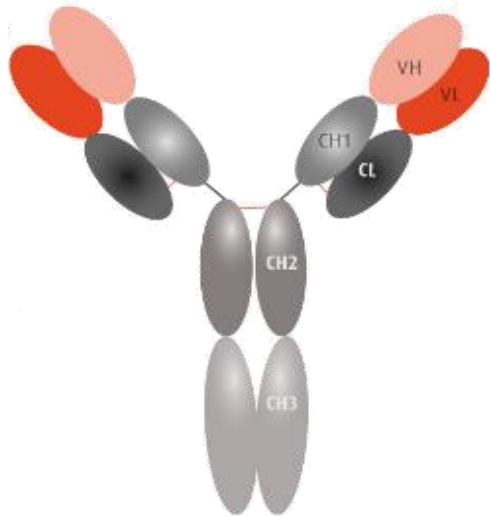


Pathological activation of complement system is strongly implicated in development and progression of GA

NGM621 Targets Complement C3, Blocking All Pathways of Complement Activation



NGM621 for Treatment of Geographic Atrophy



NGM621

NOVEL C3 INHIBITOR

Anti-C3 Monoclonal Antibody

- Dysregulated activation of complement is implicated in GA onset and progression
- NGM621 is designed to inhibit all complement pathway activation

Differentiated Design

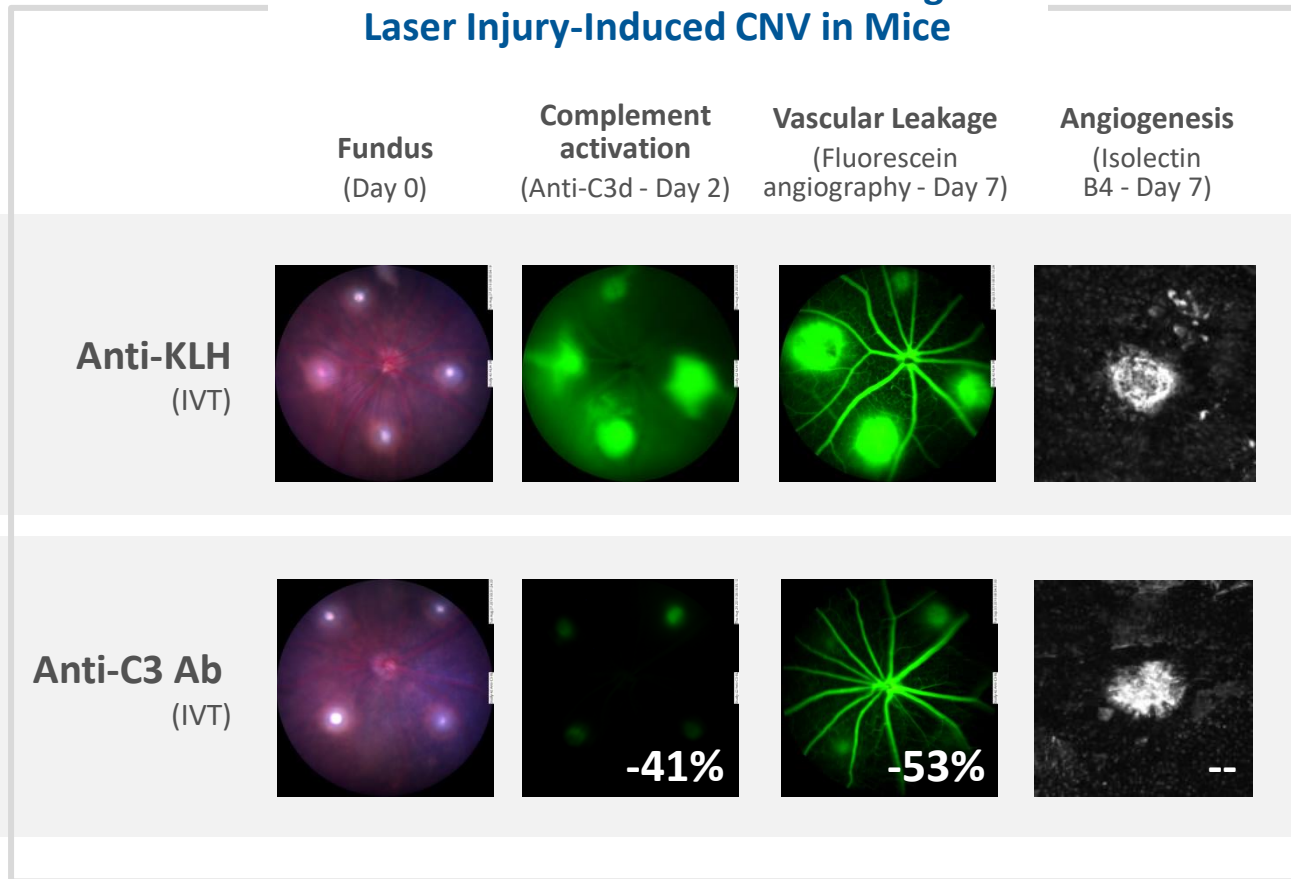
- Engineered to potently inhibit C3
- High affinity binding to C3
- Potential for extended dosing up to 2 months (8 weeks)
- Potential to not trigger choroidal neovascularization (CNV) development

NGM621 MOLECULE ATTRIBUTES

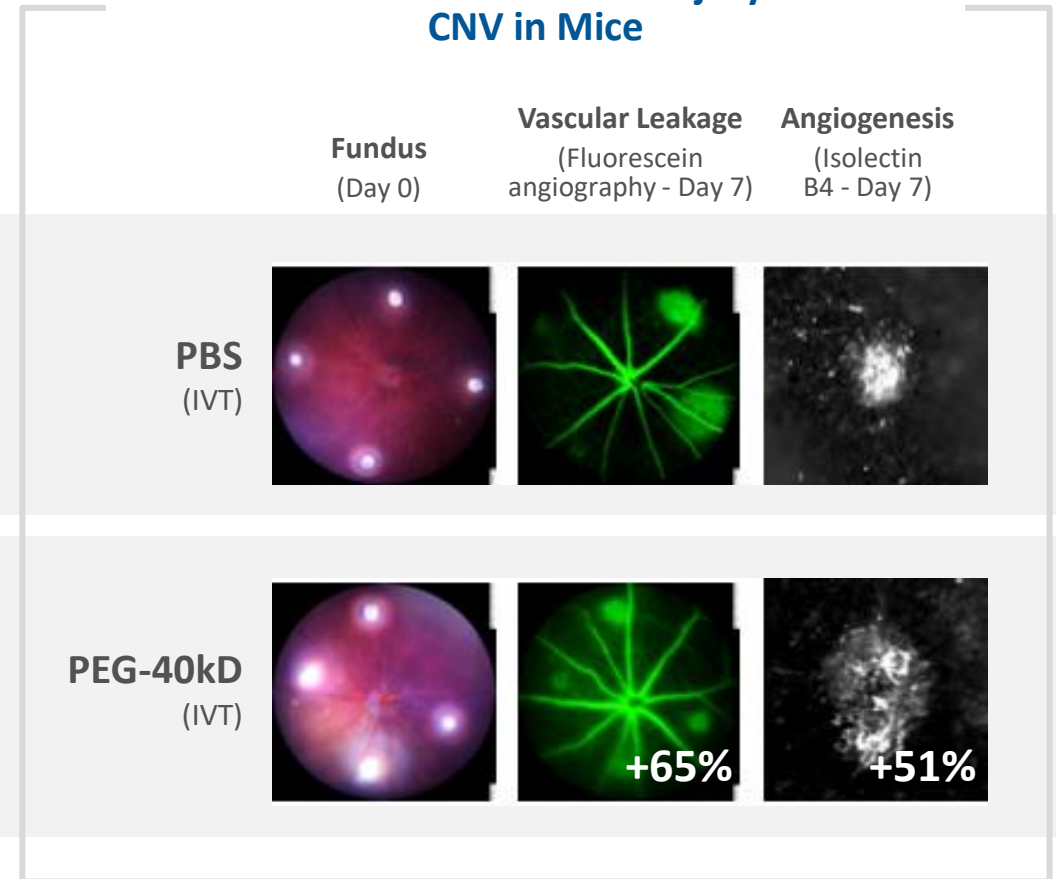
Type	Humanized IgG1 monoclonal antibody
Target	Binds & inhibits Complement C3
Affinity	$K_D = 0.34 \text{ nM}$, >100 fold specific to C3 over C3b
Potency (hemolytic assays)	AP $IC_{50} = 2 \text{ nM}$; CP $IC_{50} = 2 \text{ nM}$ (10-50 nM C3 concentration)
Effector Function	2-point mutations in the Fc region eliminate effector function
Route of Administration	Intravitreal Injection
Formulation	Liquid
Dosing Frequency	4 weeks or 8 weeks (QM or Q2M)

Preclinical Data Shows PEG Can Exacerbate CNV Post-Laser Injury

Anti-C3 Ab Reduces Vascular Leakage in Laser Injury-Induced CNV in Mice



PEG-40KD Exacerbates Laser Injury-induced CNV in Mice



The absence of PEG may provide a safety profile advantage for NGM621.

Clinical Development of NGM621 is Rapidly Advancing

ADVANCING CLINICAL DEVELOPMENT

- ✓ **Phase 1** in GA patients successfully completed
 - ✓ Data presented at AAO in November
 - ✓ NGM621 well tolerated
 - ✓ No drug-related adverse events or serious adverse events

- ✓ **Phase 2** sham-controlled, double-masked study for GA (CATALINA) **enrollment ongoing**
 - Evaluating the safety and efficacy of intravitreal NGM621 dosed every 4 or 8 weeks compared to matched sham arms
 - 240 patients from US sites
 - Designed to be a Phase 3-enabling study
 - First-Patient-In achieved July 2020



Charles Wykoff, M.D., Ph.D.

Director of Research
Retina Consultants Houston



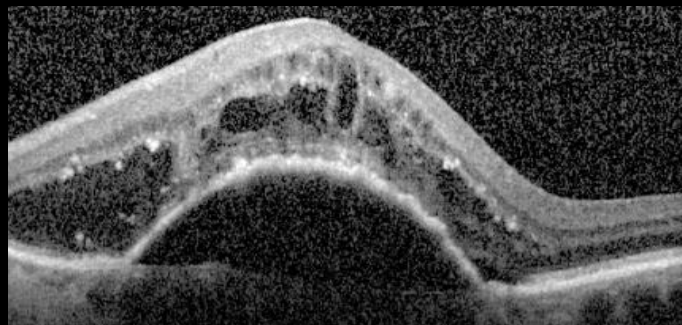
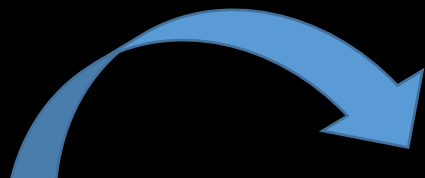
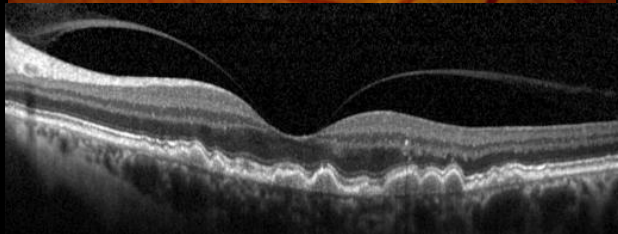
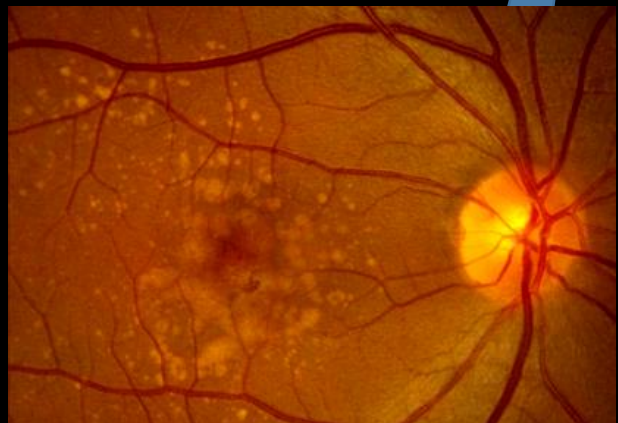
RETINA
Consultants of America



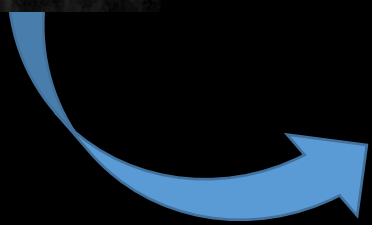
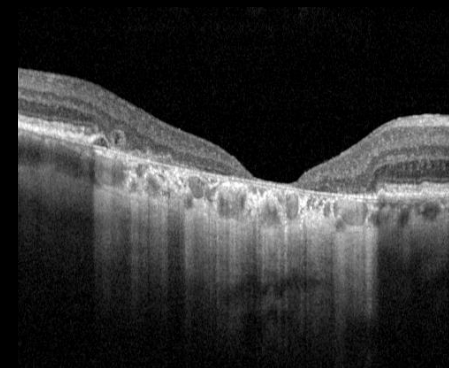
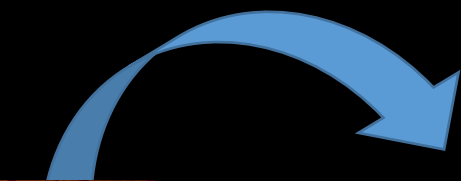
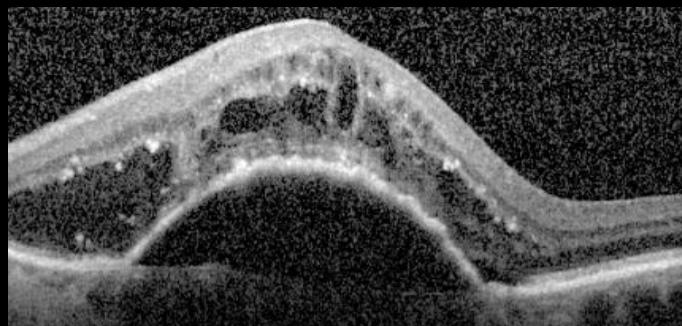
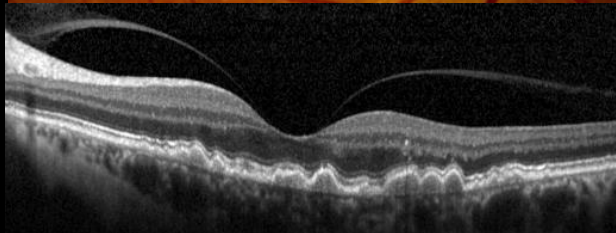
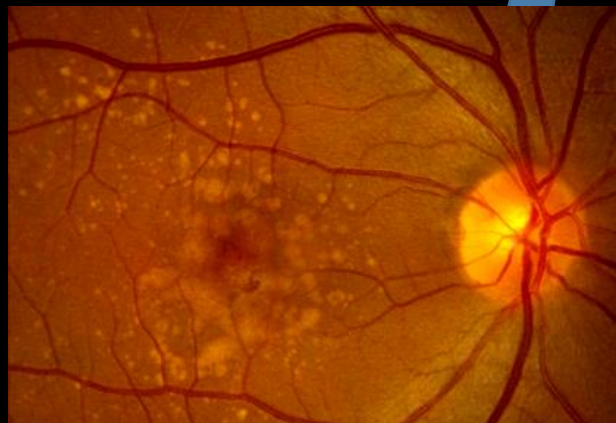
AMD = Leading Cause of Blindness in US



AMD = Leading Cause of Blindness in US



AMD = Leading Cause of Blindness in US



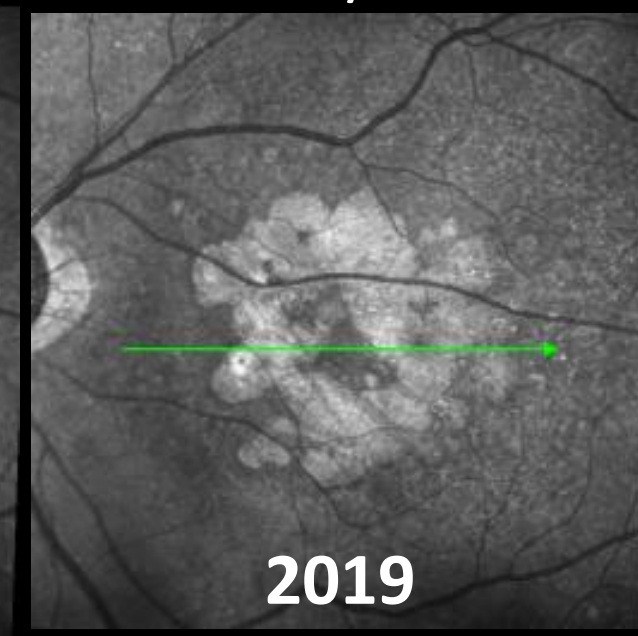
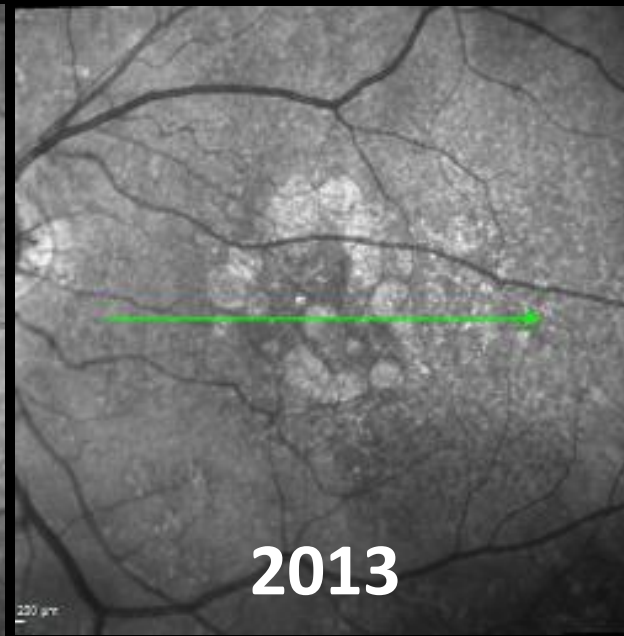
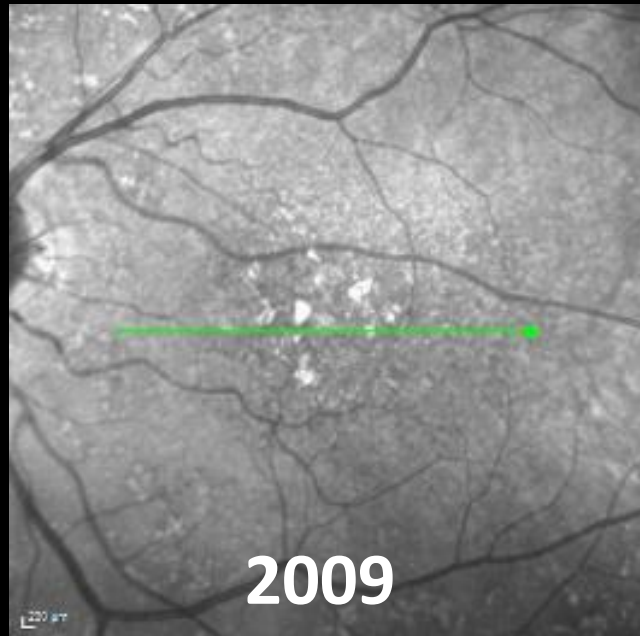
Geographic Atrophy Secondary to AMD

20/20

20/20

20/20

20/40



Progressive degeneration of the macula over time

Characterizing Disease Burden and Progression of Geographic Atrophy Secondary to Age-Related Macular Degeneration

Data from UK EMR systems at 10 clinical sites: 2000 – 2016

- Among patients OU GA
- Loss of 6-10 letters / 2 years
- 2/3rd unable to drive within 2 years

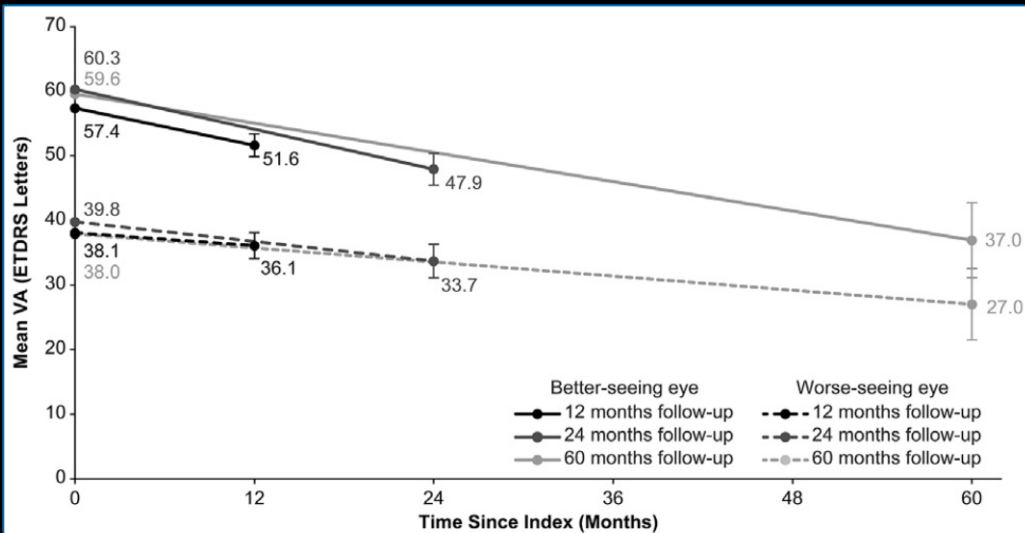
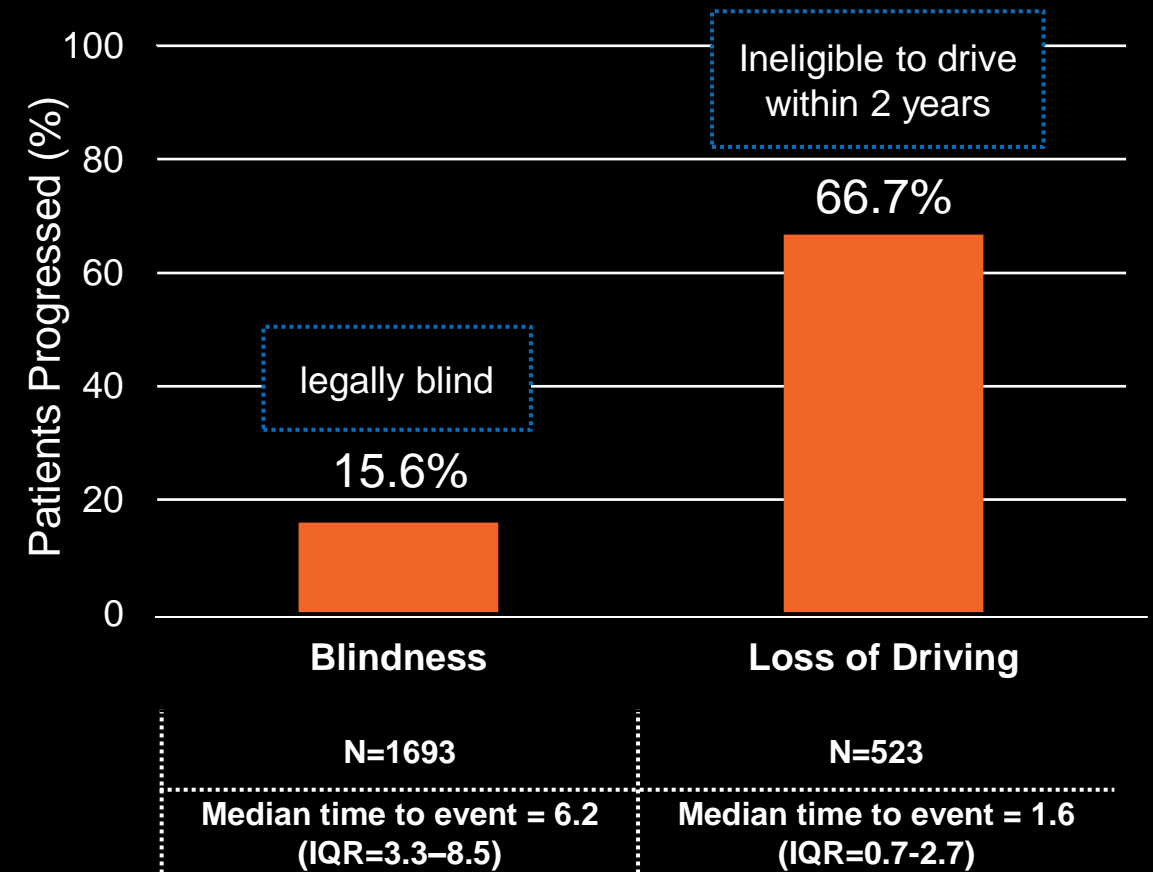


Figure 2. Change in mean visual acuity (VA) from baseline in the worse-seeing (study) eye and better-seeing (fellow) eye through 60 months' follow-up in patients with bilateral geographic atrophy identified in the

Quantifying the Burden of GA



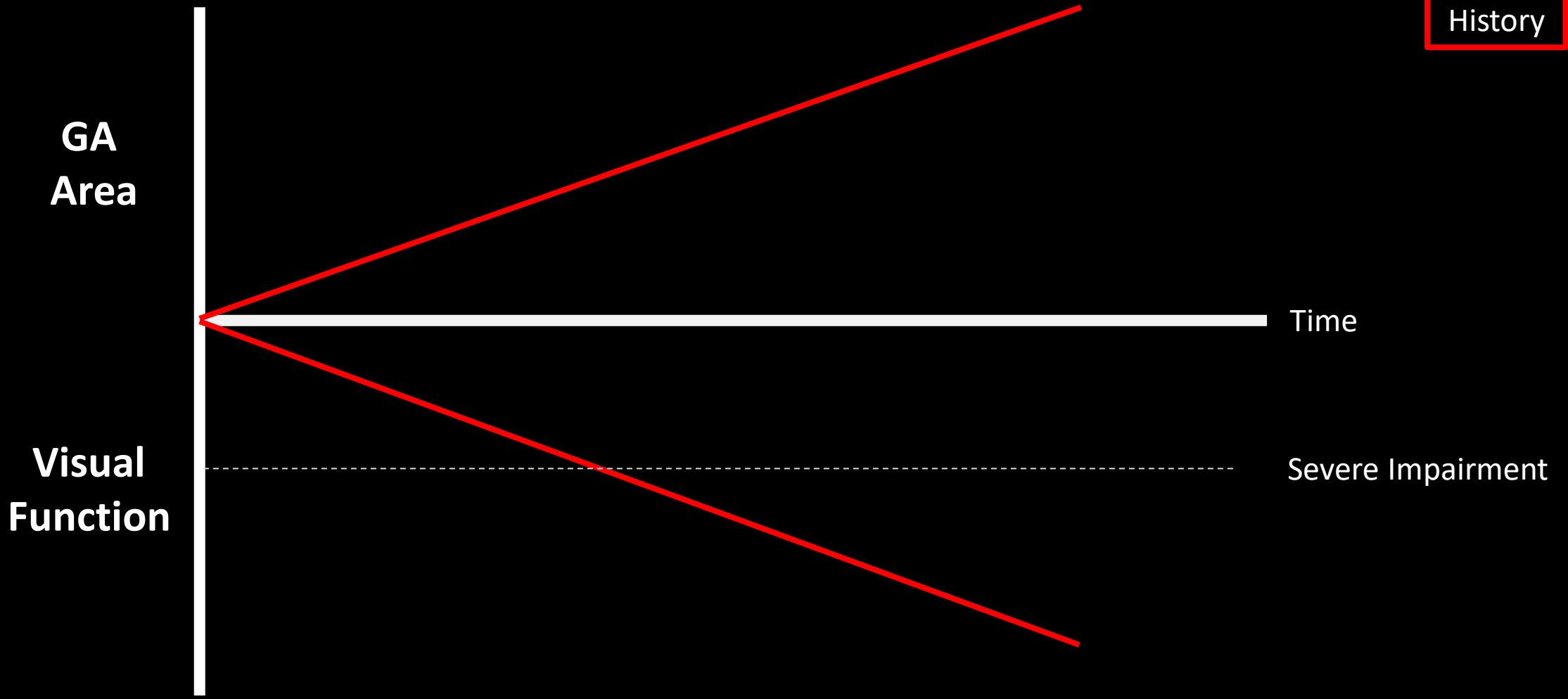
Goal of Therapy = Reduction of Progression



*1.93 mm²/year in lampalizumab phase 3 program sham arm

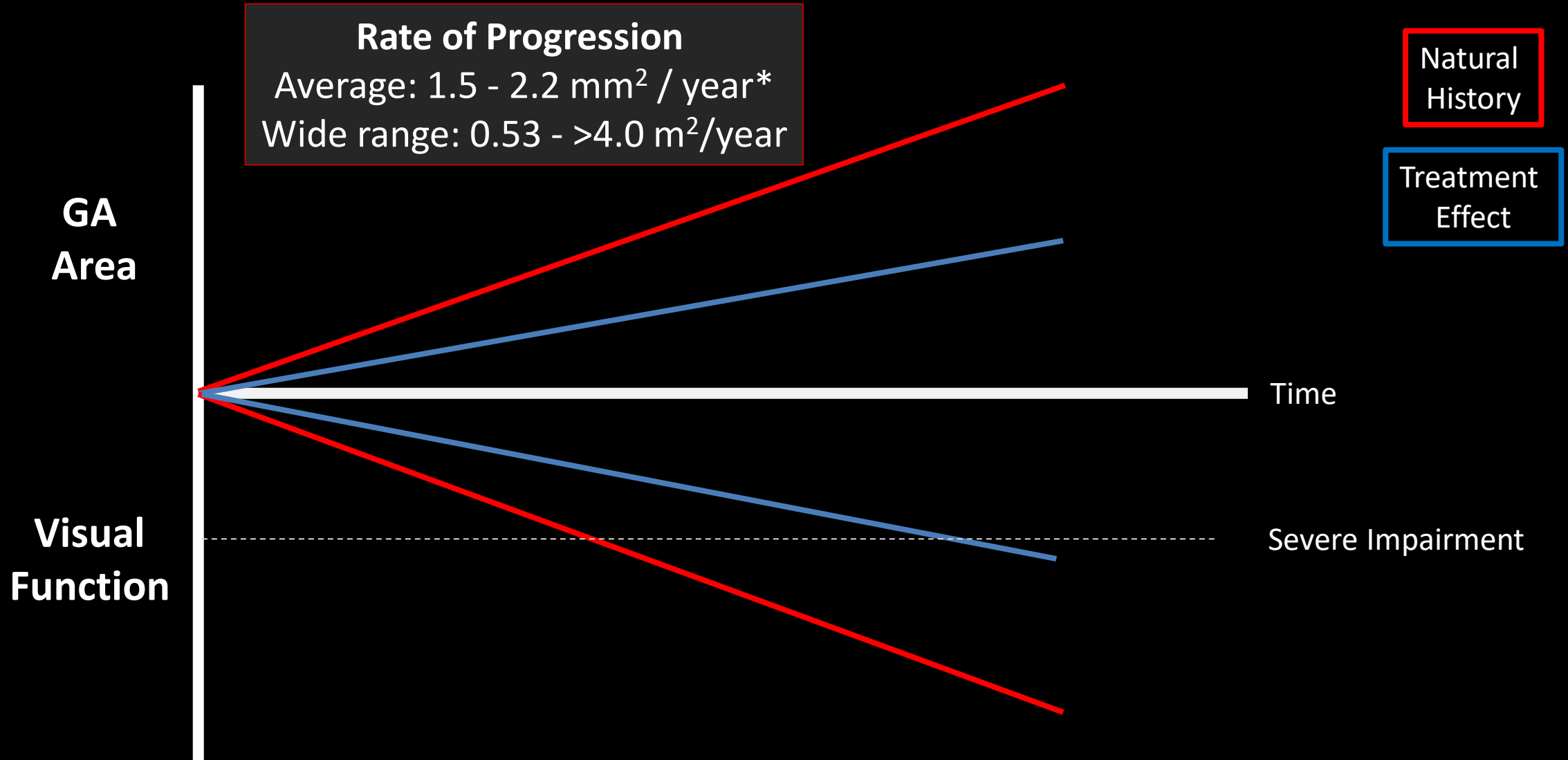
Goal of Therapy = Reduction of Progression

Natural History



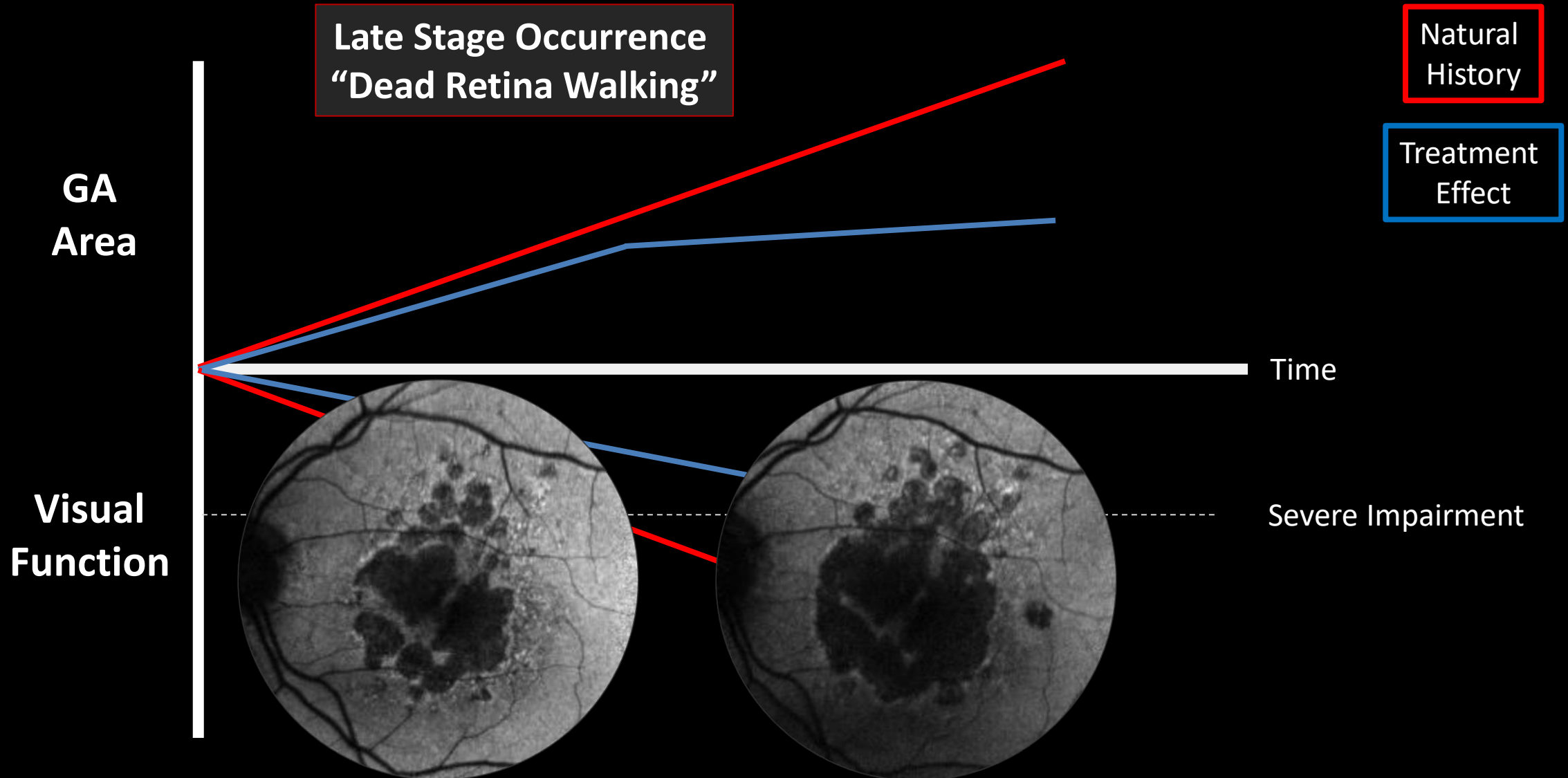
*1.93 mm²/year in lampalizumab phase 3 program sham arm

Goal of Therapy = Reduction of Progression

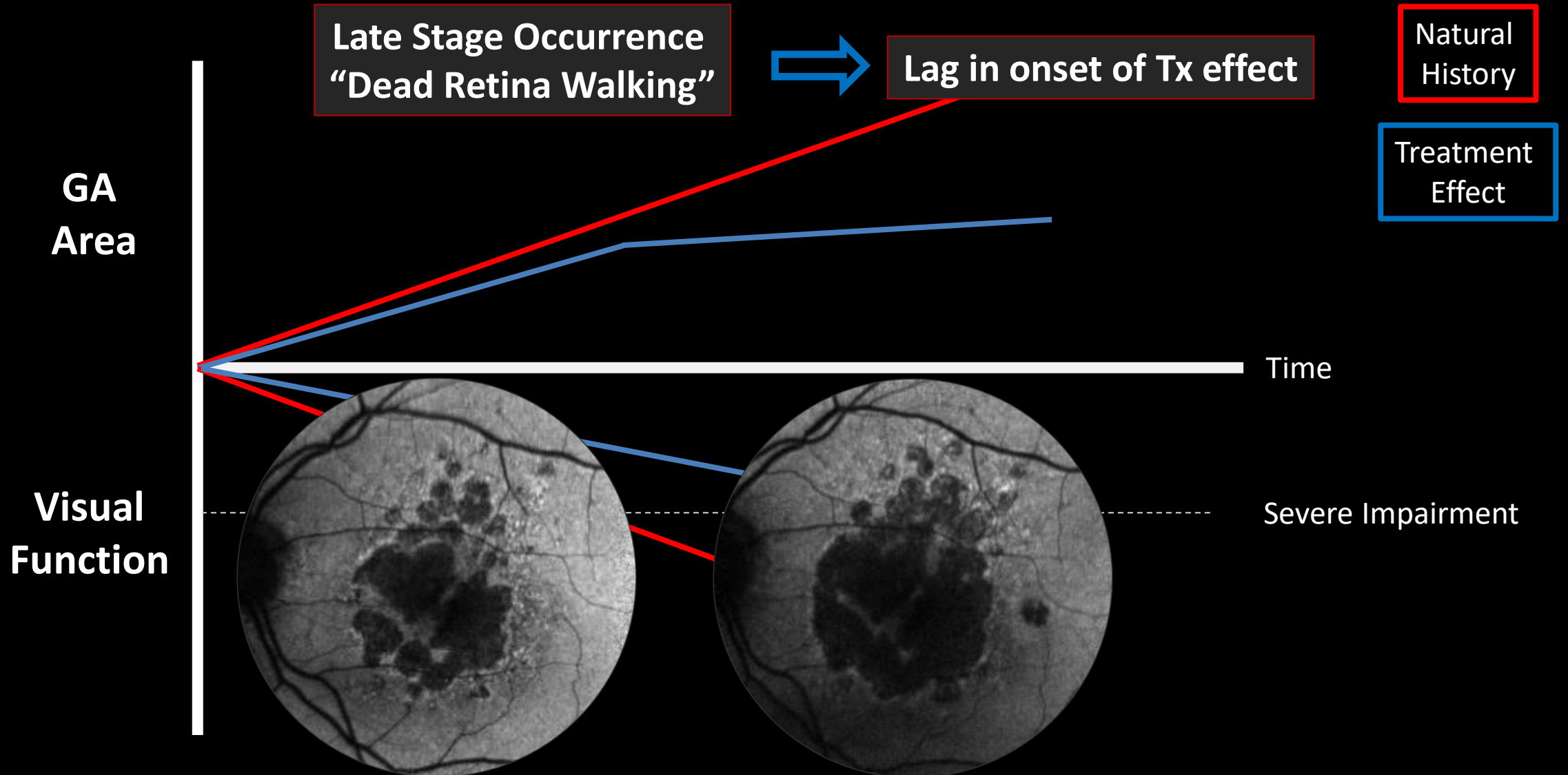


*1.93 mm²/year in lampalizumab phase 3 program sham arm

Goal of Therapy = Reduction of Progression

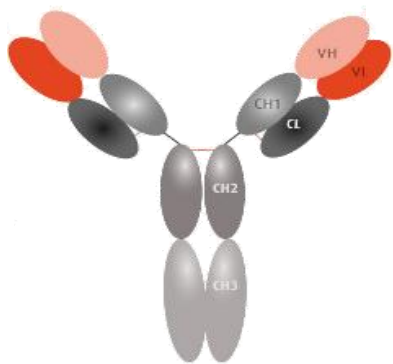


Goal of Therapy = Reduction of Progression



NGM621: Potent Anti-C3 Monoclonal Antibody

NGM621 MOLECULE ATTRIBUTES



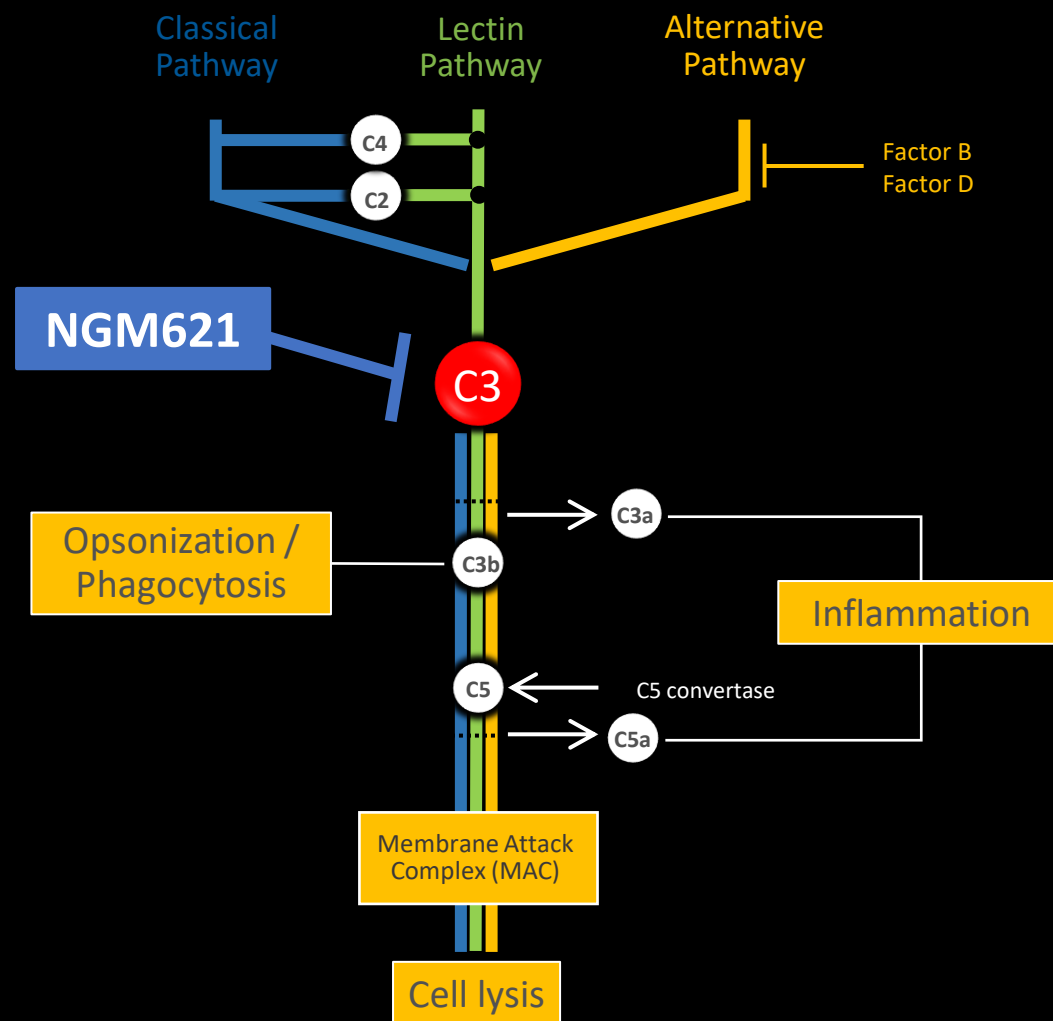
NGM621

Type	Humanized IgG1 monoclonal antibody
Target	Complement C3
MW	~150 kDa
Affinity	$K_D = 340\text{pM}$
Effector Function	Fc mutations eliminating effector function

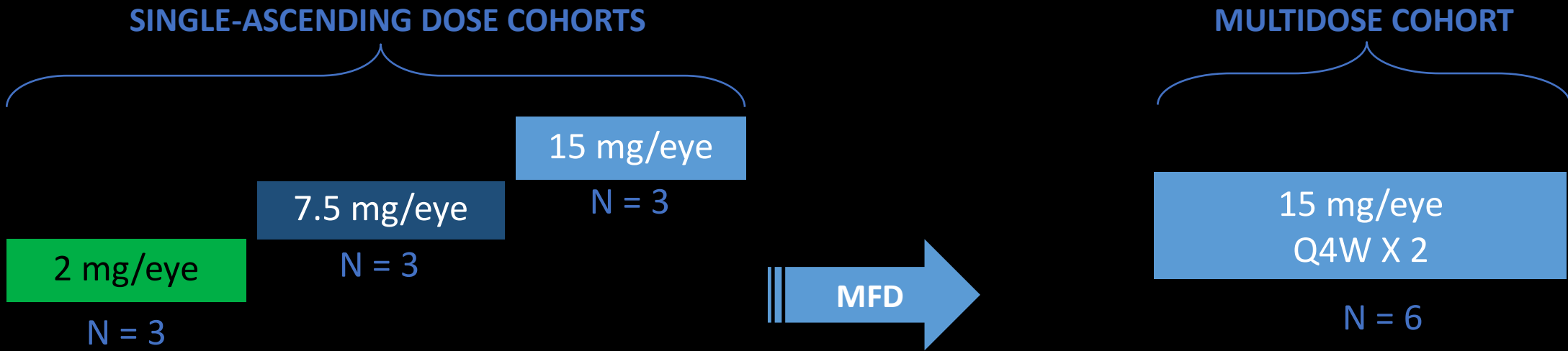
SCIENTIFIC RATIONALE: NGM621 FOR GEOGRAPHIC ATROPHY

- Complement dysregulation is implicated in GA/AMD; C3 is the central convergence point in the complement cascade
- NGM621 is a novel monoclonal antibody that potently inhibits C3, blocking all complement pathways and associated downstream effects, with the potential for extended dosing without PEGylation

COMPLEMENT CASCADE



Phase 1 Study Objectives and Design



STUDY OBJECTIVES

- **Primary:** To evaluate the safety and tolerability of single and multiple IVT injection(s) of NGM621 in patients with GA
- **Secondary:** To characterize the PK of single or multiple doses of and evaluate immunogenicity of NGM621 (serum ADA levels) NGM621

COHORT DESIGN

- 3 Single-Ascending Dose Cohorts of 2mg, 7.5mg, and 15mg
- 1 Multidose Cohort of 15mg NGM621 given twice, 4 weeks apart
- Patients dosed sequentially, followed for 12 weeks
- Safety review performed after sentinel patient dosed and prior to enrollment proceeded to subsequent cohorts

Phase 1: Key Patient Eligibility and Assessments

PATIENT ELIGIBILITY

- GA secondary to AMD in at least one eye
- ≥ 50 years of age
- GA lesion size in the study eye of $\geq 2.5 \text{ mm}^2$
 - If the GA is multifocal, at least one lesion must be $>1.5 \text{ mm}^2$ with the total lesion size $\geq 2.5 \text{ mm}^2$ on the Screening FAF
- ETDRS BCVA between 54 and 4 letters (20/80 to 20/400 Snellen equivalent) in study eye
 - Fellow eye must have BCVA of at least 34 letters (Snellen equivalent 20/200)
- No history or evidence of CNV in either eye (including subclinical neovascular AMD)

DOSING AND KEY ASSESSMENTS

- Cohorts 1-3: Single-Ascending Dose
 - NGM621 dosed on Day 1
- Cohort 4: Multidose
 - NGM621 dosed on Days 1 and 28
- All cohorts were followed for 12 weeks (85 days)
- Key Assessments Included:
 - Slit Lamp Biomicroscopy, Fundus Exam
 - Ocular imaging: FAF, CFP, OCT/OCT-A
 - Visual Acuity: ETDRS BCVA & LLVA
 - Vitals / Labs / ECG
 - Serum / Plasma Samples

Phase 1: Patient Demographics and Baseline Characteristics

	SAD Cohort 1 NGM621 2mg (N = 3)	SAD Cohort 2 NGM621 7.5mg (N = 3)	SAD Cohort 3 NGM621 15mg (N = 3)	MD Cohort 4 NGM621 15mg (N=6)	Total (N = 15)
Age Mean (SD) Years	84.3 (3.06)	79.0 (9.64)	76.7 (4.04)	76.5 (7.04)	78.6 (6.66)
Sex					
Male	100.0%	100.0%	33.3%	33.3%	60.0%
Female	0	0	66.7%	66.7%	40%
Race					
White	100.0%	100.0%	100.0%	100.0%	100.0%
BCVA, Mean (SD) ETDRS letter score	19.3 (16.3)	23.7 (16.1)	36.7 (13.3)	38.8 (12.8)	31.5 (14.7)
Snellen Equivalent	20/400	20/320	20/200	20/160	20/250
GA lesion size, Mean (SD) mm²	5.7 (3)	9.6 (8.5)	21.4 (14.5)	18.7 (11.2)	14.9 (10.8)
Unifocal lesions	66.7%	100%	100%	66.7%	80%
Foveal-involved GA (Yes)	66.7%	100%	100%	83.3%	86.7%

Primary Analysis: Key Safety & Tolerability Observations

- No safety or tolerability signals observed in any cohort
 - No safety events attributed to study drug
 - No SAEs or deaths
 - No endophthalmitis or IOI
 - No cases of CNV
 - Ocular AEs were representative of those seen with intravitreal injections
- No vision-related safety signals detected
 - On average, patients maintained their visual acuity over the 12-week follow-up

SUMMARY OF ADVERSE EVENTS BY DECREASING FREQUENCY*

	SAD Cohort 1 NGM621 2 mg (N = 3)	SAD Cohort 2 NGM621 7.5 mg (N = 3)	SAD Cohort 3 NGM621 15 mg (N = 3)	MD Cohort 4 NGM621 15 mg (N = 6)	Total (N = 15)
At least one AE	3	3	2	6	14
Conjunctival hemorrhage	0	0	0	3	3
Eye pruritus	0	1	0	1	2
Basal cell carcinoma	1	0	0	0	1
Benign prostatic hyperplasia	1	0	0	0	1
Diarrhea	0	1	0	0	1
Diverticulitis	0	1	0	0	1
Headache	0	0	0	1	1
Hypaesthesia	0	0	0	1	1
Pneumonia	1	0	0	0	1
Sciatica	0	0	1	0	1
Ventricular extrasystoles	0	0	1	0	1

AEs, adverse events; CNV, choroidal neovascularization; IOI, intraocular inflammation; MD, multidose cohort; SAD, single ascending dose cohort; SAEs, serious adverse events.

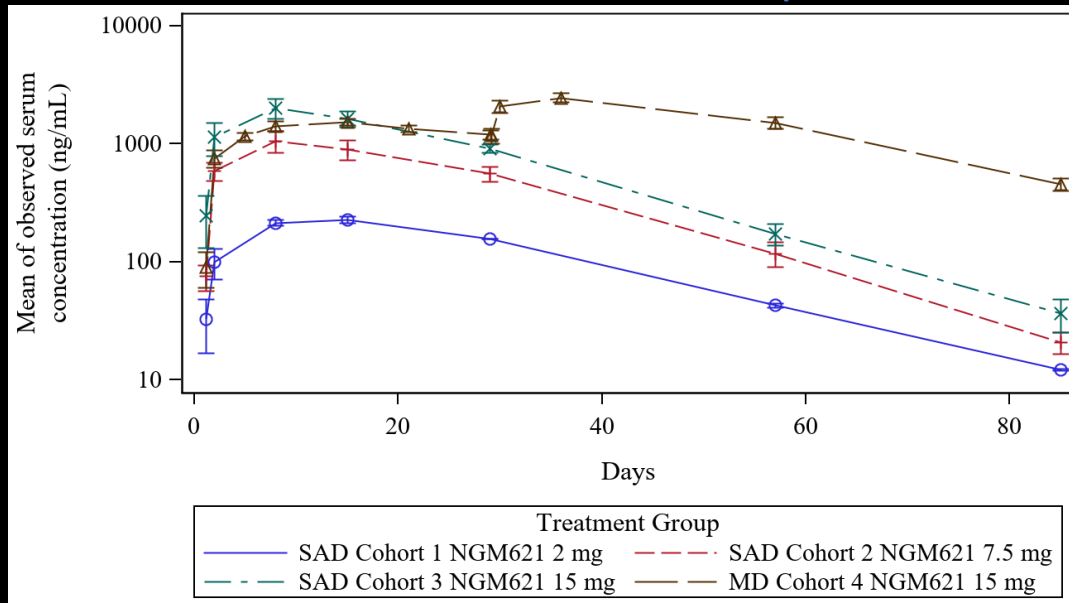
*Defined as treatment emergent events; includes any events not present prior to initiation of drug treatment or events that were already present that worsen intensity or frequency.

NGM621 Human Serum PK Profile and Ocular PK/PD Modeling Support Dosing Regimen Being Explored in Ongoing CATALINA Phase 2

PHASE 1 SERUM PK POST-IVT SINGLE & REPEAT DOSING

- The serum PK of NGM621 was linear and dose-proportional with low accumulation following every 4-week repeat IVT dosing
- NGM621 serum exposure was below concentrations that produce systemic complement inhibition at the highest IVT dose of 15mg
- All subjects were ADA negative at all timepoints

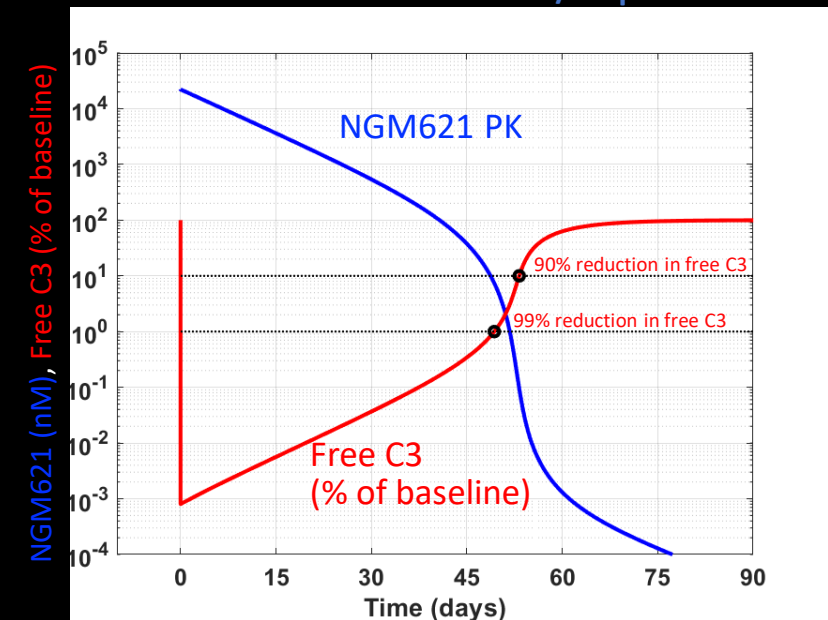
Mean Serum Concentration-time Profile post-IVT of NGM621



OCULAR PK/PD MODELING*

- Preclinical modeling suggests that NGM621 may achieve >90% C3 target engagement in the eye for 7 weeks following a single IVT dose of 15 mg based on a PK/PD model
- PK/PD modeling and simulation support exploring an every 8-week IVT dosing regimen at the 15 mg dose level

Predicted vitreous humor PK/PD profile



ADA, anti-drug antibodies; IVT, intravitreal; MD, multidose cohort; PD, pharmacodynamics; PK, pharmacokinetic; SAD, single ascending dose cohort.

*ocular PK was not collected in Phase 1; model based on pre-clinical ocular PK data.

Encouraging Phase 1 Results Support Continued Clinical Development of NGM621 for GA

- NGM621 up to 15mg was well tolerated in this first-in-human study
 - All patients completed the 12-week follow-up
 - No SAEs
 - No drug-related AEs
 - No CNV
- NGM621 serum exposures appeared dose-proportional indicating linear PK in the studied range
 - PK/PD modeling supports exploring NGM621 dose intervals of up to 8 weeks

THANK YOU TO THE NGM621 PHASE 1 STUDY SITES, INVESTIGATORS, AND PATIENTS!

Principle Investigators: Drs. Brian Berger, Tom Chang, David Eichenbaum, Vrinda Hershberger, Charlie Wykoff

Thank you as well to Harish Shankaran (Merck) for support of the PK/PD modeling work and to Neang Ly (NGMBio) for supporting the PK/ADA analyses efforts.

Now Recruiting: CATALINA Phase 2 GA Study

Dosing with NGM621 every 4 or 8 weeks vs Sham

PATIENTS WITH GA SECONDARY TO AMD; N = 240¹

Randomized 2:1:2:1



Primary Objective

To evaluate the efficacy and safety of NGM621 IVT injections administered every 4 or 8 weeks in GA patients compared to sham control

Design

Phase 2 Multicenter, Randomized, Double-Masked, Sham-Controlled

¹ Target enrollment; enrollment ongoing NCT04465955.

AMD, age-related macular degeneration; FAF, fundus autofluorescence; GA, geographic atrophy; IVT, intravitreal; Q4, every 4 weeks; Q8, every 8 weeks.

Q&A



Charles Wykoff, M.D., Ph.D.

Retina Consultants Houston



Erin Henry, Ph.D.

Head of Ophthalmology, NGM



David Woodhouse, Ph.D.

Chief Executive Officer, NGM



Hsiao D. Lieu, M.D., F.A.C.C.

Chief Medical Officer



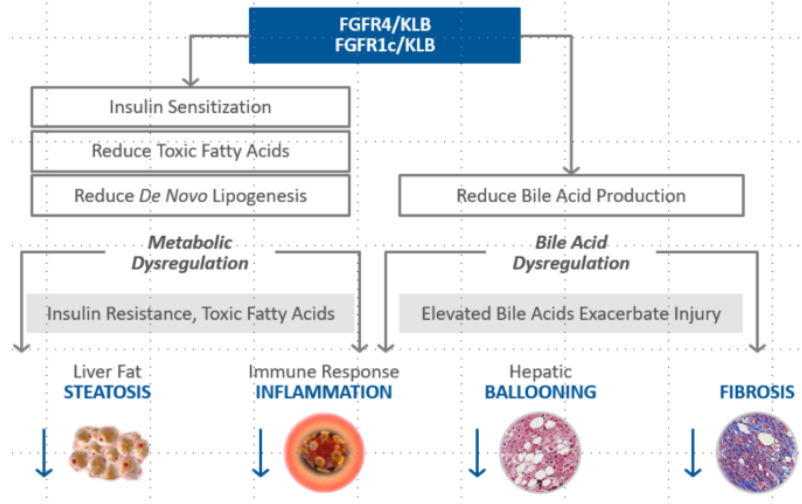
NGM Has Deep Expertise in the FGF Pathways



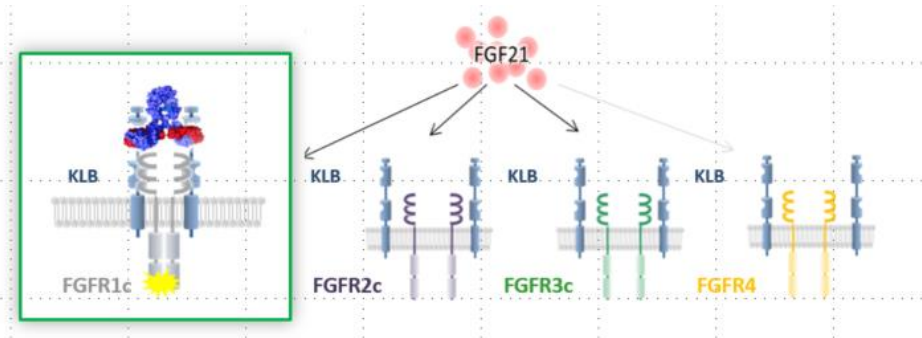
NGM

Licensed to Merck

FGF19 Analogue: aldafermin

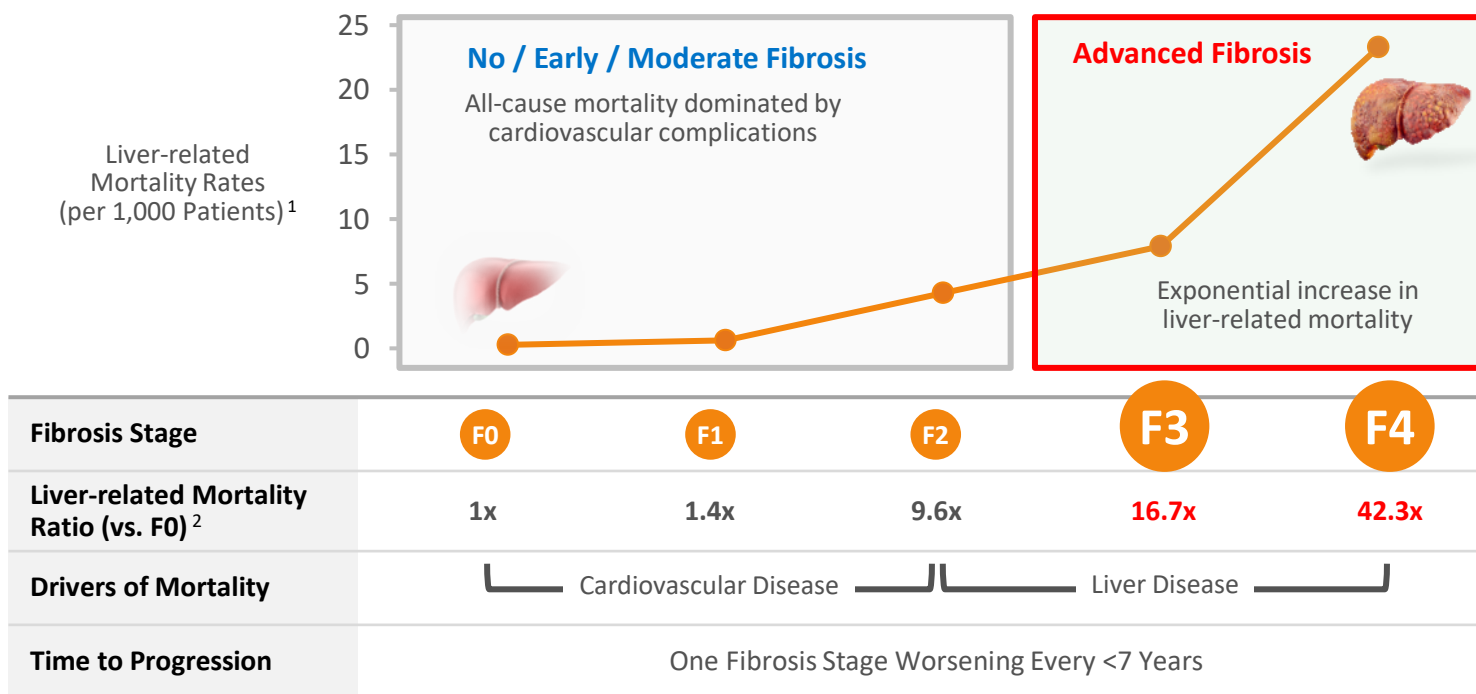


FGFR1c/KLB agonistic Ab: MK-3655 (NGM313)



FGF19 and FGF21 pathways impact different benefits to address the needs from the various patient segments of a large heterogeneous NASH population

Higher Unmet Need Especially in Advanced Fibrotic NASH Patients



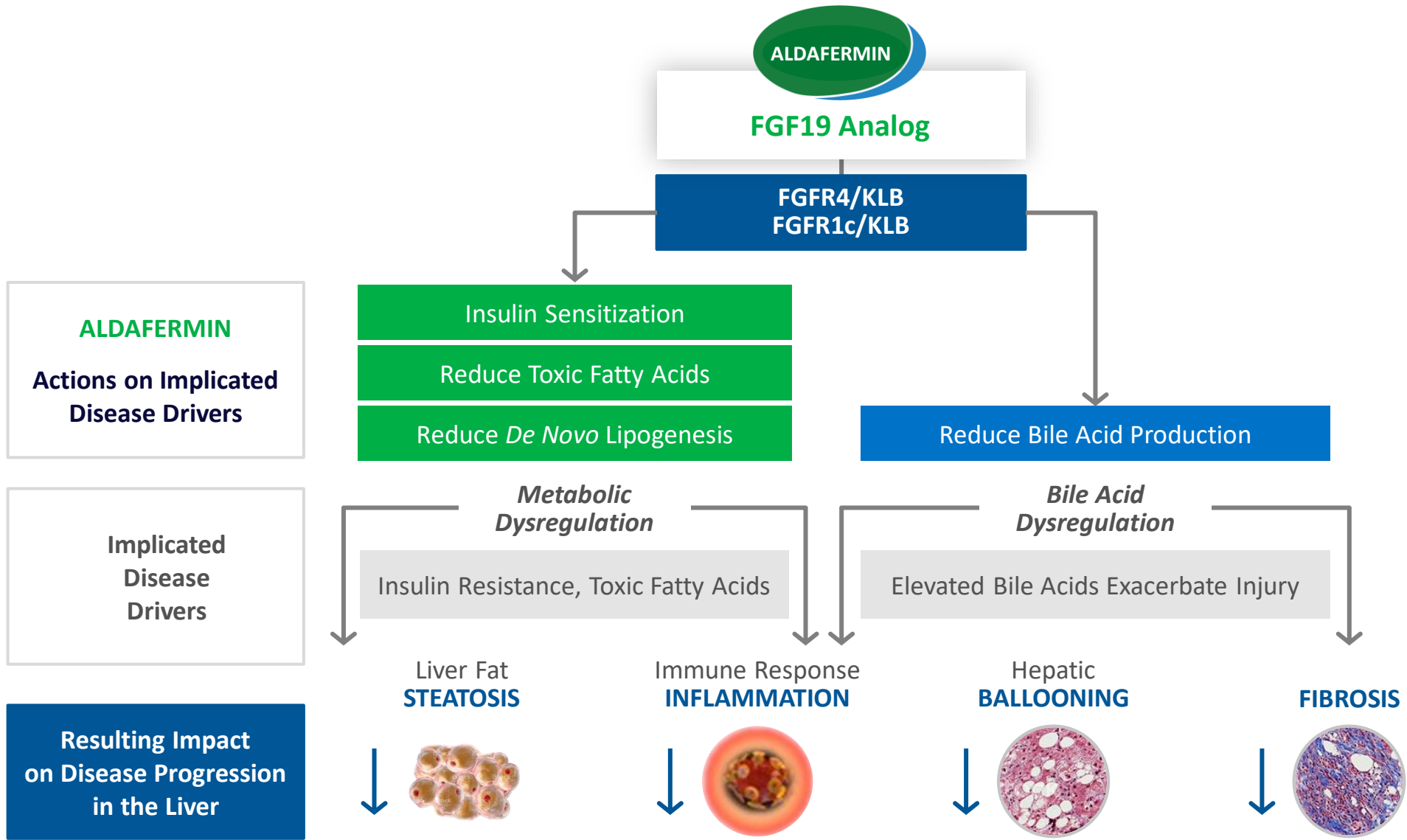
- ▶ **Advanced Liver fibrosis** has higher rates of mortality and morbidity in NASH¹
- ▶ ~ **22%** of F3 patients progress to cirrhosis in 29 months³
- ▶ The higher the fibrosis stage, the greater the urgency to reverse fibrosis quickly

¹ Angulo et al., Gastroenterology 2015;149:389-397; Ekstedt et al., Hepatology 2015;61:1547-1554;

² Dulai et al., Hepatology 2017;65:1557-1565

³ Sanyal et al., Hepatology. 2019 Dec;70(6):1913-1927

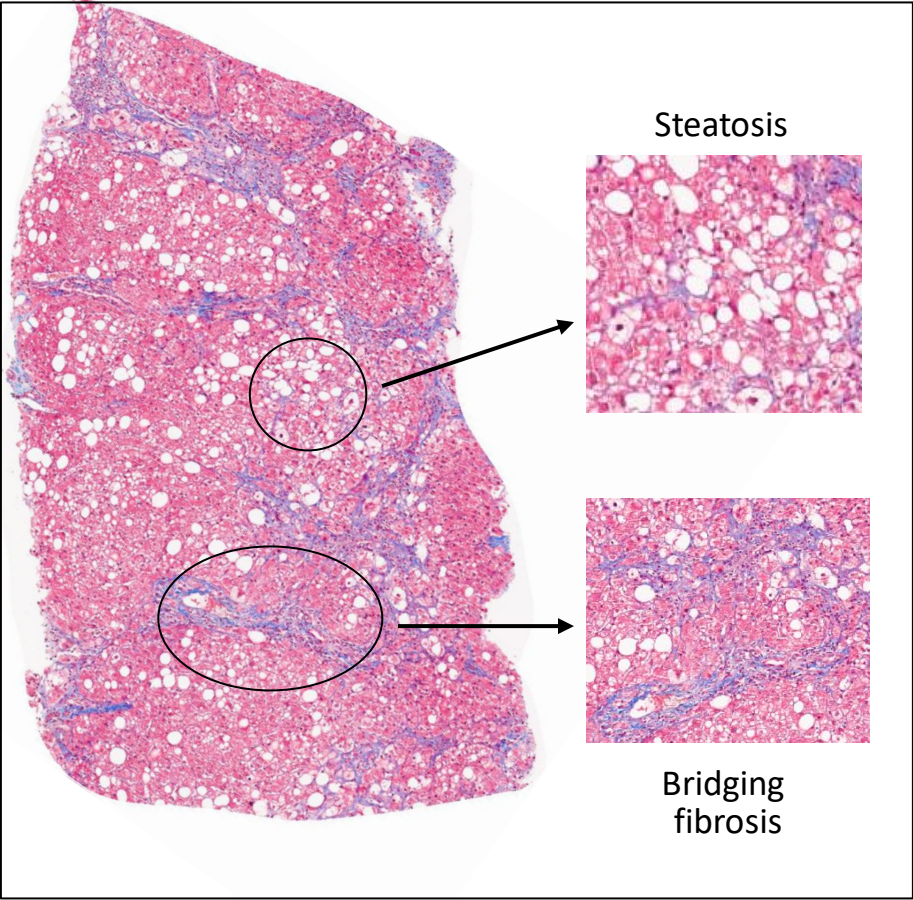
Aldafermin Impacts the Key Drivers of NASH Pathogenesis



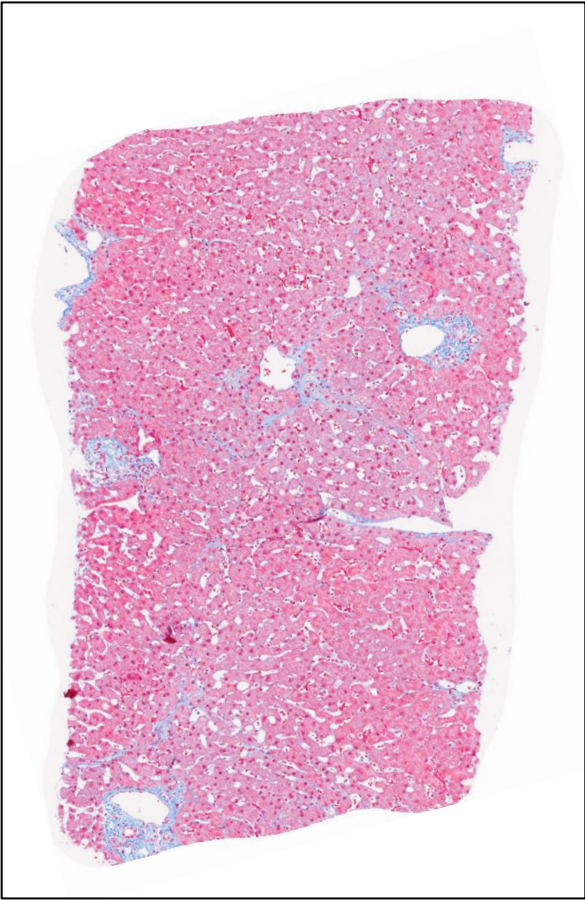
Aldafermin Induces Rapid Fibrosis Regression in 12 Weeks



Baseline: F3



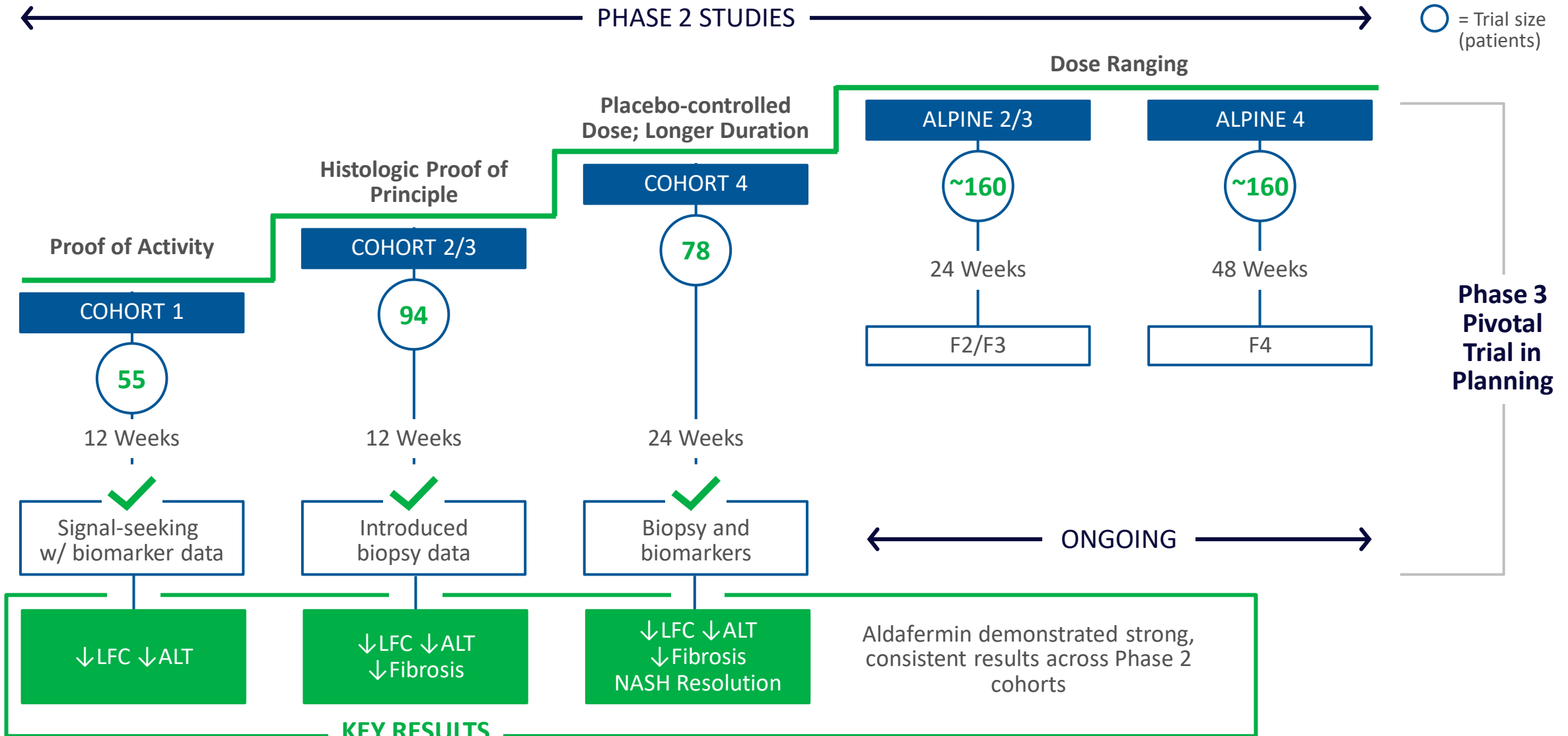
Week 12: F2



Aldafermin
→

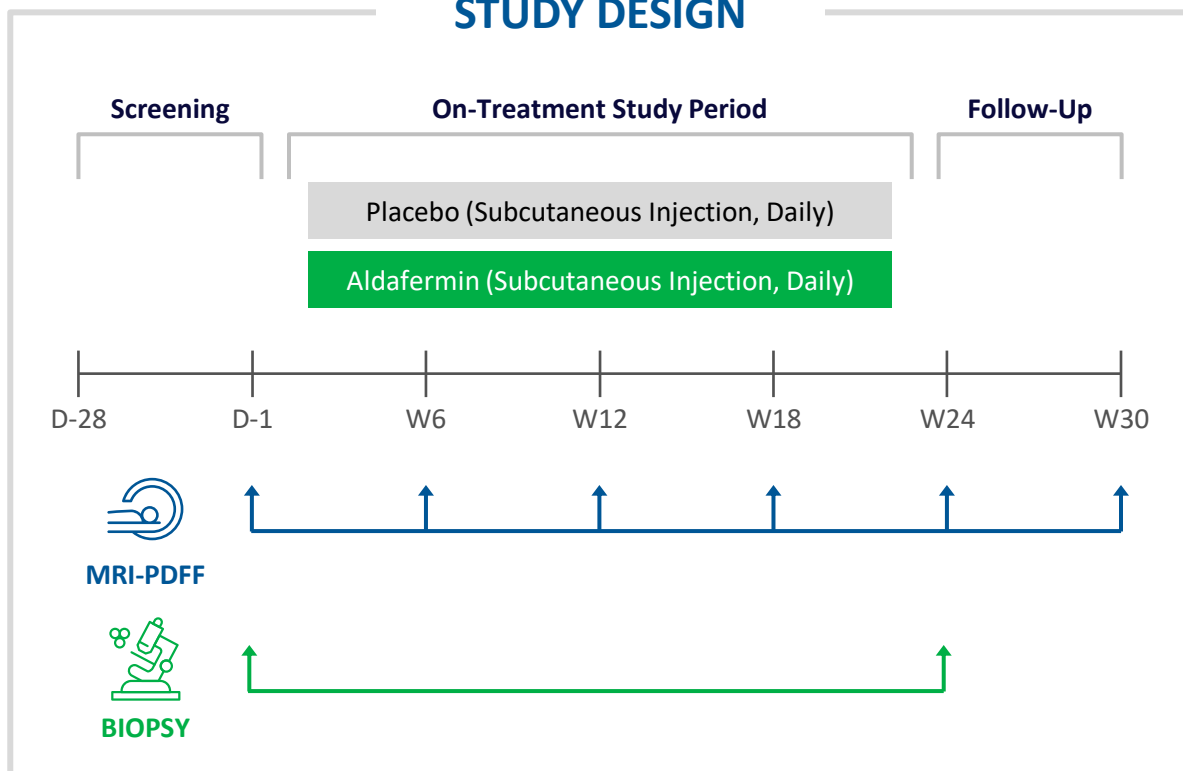
- Blue as indicated by Trichrome stain represents collagen, or fibrosis
- Open white space represents steatosis

Robust Clinical Evidence in Completed Phase 2 Trial Shows Consistent and Strong Aldafermin Effect in NASH Patients



Cohort 4: Study Design and Demographics

STUDY DESIGN



DEMOGRAPHICS AND INCLUSION CRITERIA

Mean Parameters	Placebo (n=25)	Aldafermin 1 mg (n=52)
Age (years)	54.1	53.0
BMI (kg/m ²)	36.8	35.8
Type 2 Diabetes (%)	64%	60%
NAFLD Activity Score (NAS)	5.4	5.7
Fibrosis Stage F3 (%)	41%	46%
LFC (% by MRI-PDFF)	18.5	18.0
ALT (IU/L)	55.1	73.3
AST (IU/L)	44.3	54.5

KEY INCLUSION CRITERIA

- Biopsy-confirmed NASH (F2 or F3 liver fibrosis by NASH CRN criteria) with NAS ≥ 4 (1 point in each component)
- Absolute liver fat content (LFC) $\geq 8\%$ by MRI-PDFF
- ALT > 19 IU/L in females, ALT > 30 IU/L in males

ENDPOINTS

Primary endpoint: change from baseline in absolute LFC (as measured by MRI-PDFF) at W24
Secondary and exploratory endpoints included ALT, AST, biomarkers of fibrosis and effect on liver histology at W24

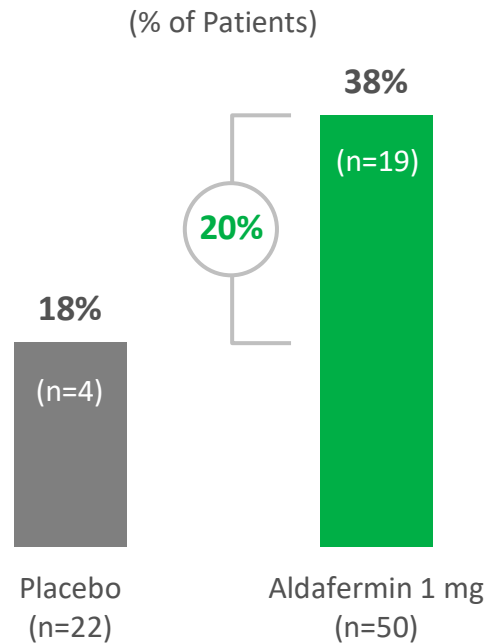
¹ Liver histology population (aldafermin n=50; placebo n=22); LFC = Liver Fat Content; ALT = alanine aminotransferase; AST; Aspartate Transaminase; MRI-PDFF: magnetic resonance imaging-estimated proton density fat fraction

Cohort 4: Efficacy Results on FDA Guided Histological Endpoints

#1

Fibrosis Reversal

Fibrosis Improvement ≥ 1 Stage with No Worsening of NASH¹ at W24

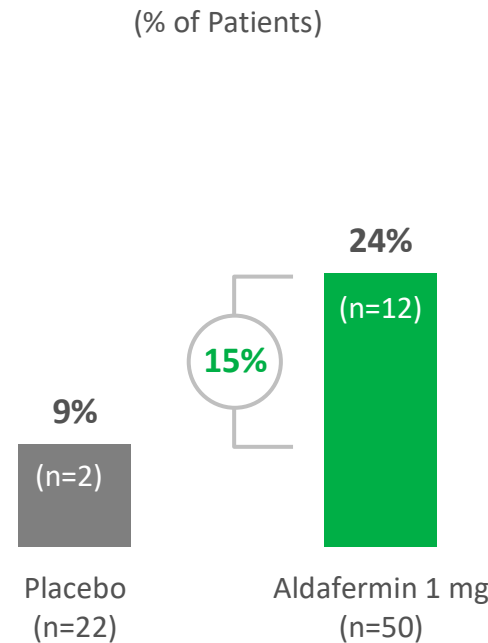


¹ Defined as patients who have an improvement in liver fibrosis by ≥ 1 stage with no worsening of NASH (no worsening of steatosis, lobular inflammation or hepatocyte ballooning grade) from baseline to W24 (not powered for statistical significance)

#2

NASH Resolution

Resolution of NASH without Worsening of Fibrosis² at W24

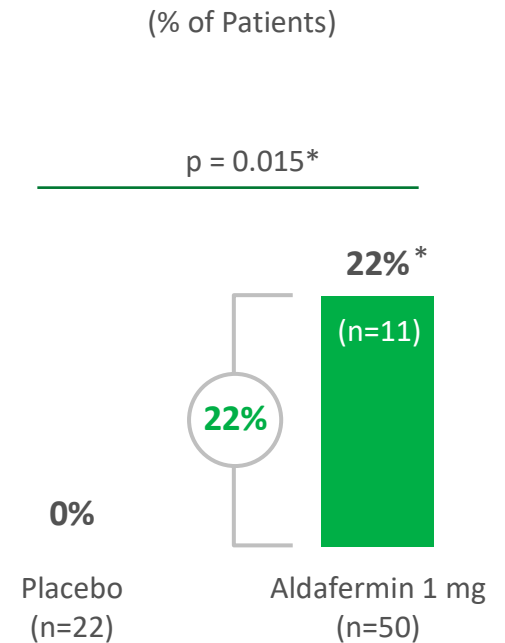


² Defined as subjects having a NAS score of 0 or 1 for inflammation and 0 for ballooning, with no worsening of fibrosis (no progression of NASH CRN fibrosis stage) from baseline to W24 (not powered for statistical significance)

Composite Endpoint

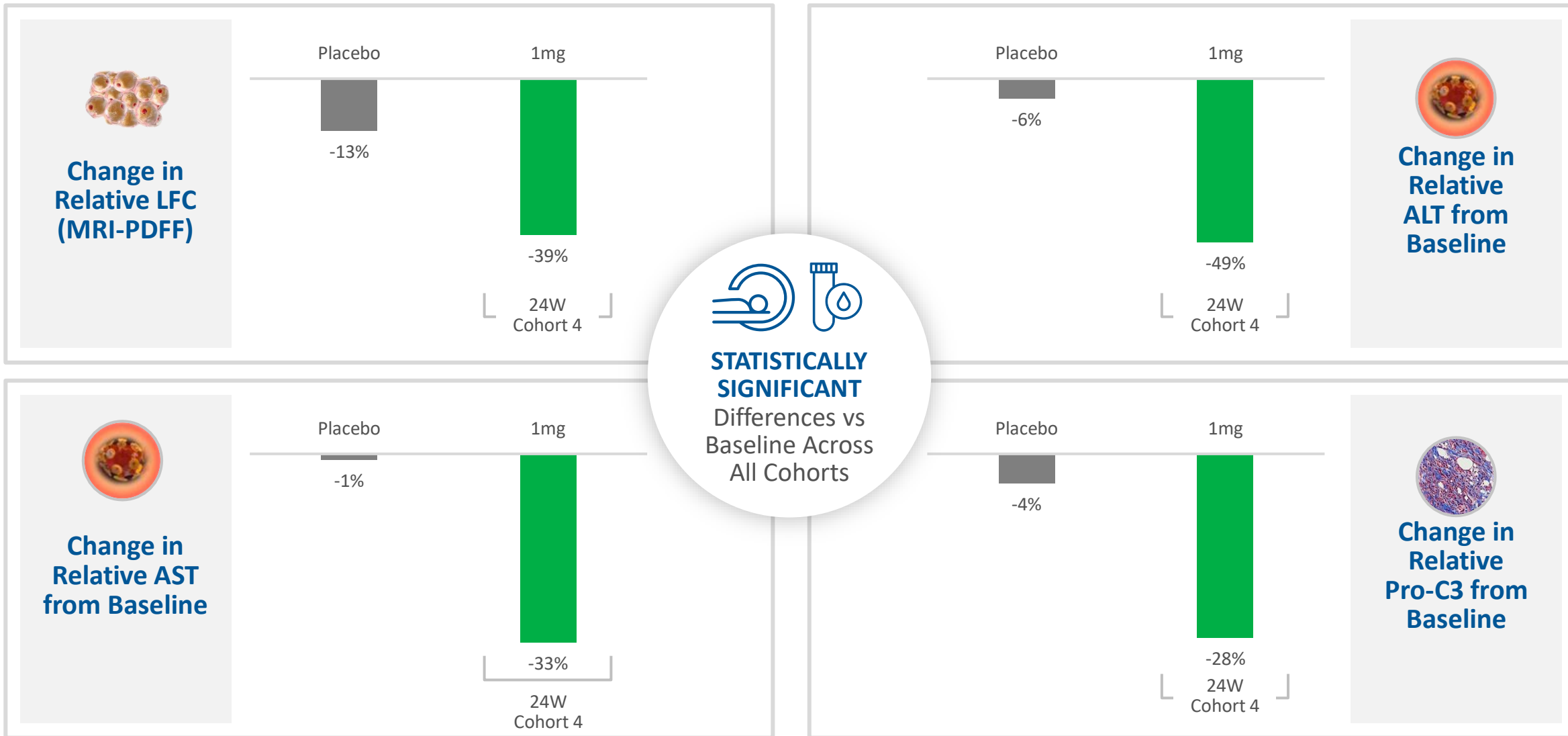
Reverse Fibrosis and Resolve NASH

Fibrosis Improvement and Resolution of NASH³ at W24



³ Defined as patients who have an improvement in liver fibrosis by ≥ 1 stage AND have a NAS score of 0 or 1 for inflammation and 0 for ballooning at W24 (not powered for statistical significance)

Cohort 4: Strong, Consistent Results Across Non-Invasive Measures



Cohort 4: Aldafermin was Well Tolerated and AEs Generally Comparable to Placebo



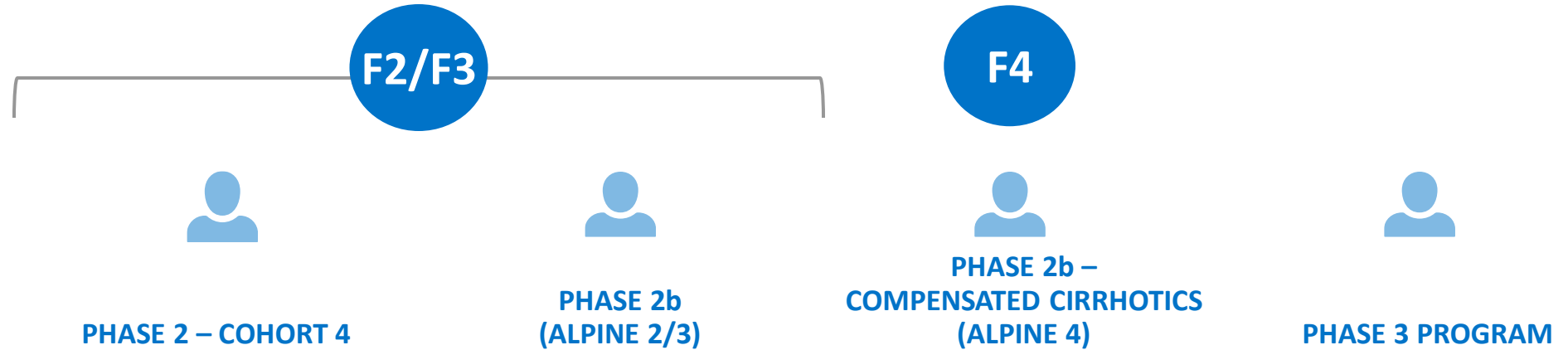
COHORT 4

TREATMENT EMERGENT ADVERSE EVENTS (TEAE)	Placebo (N=25)	Aldafermin 1 mg (N=53)
Any TEAE	22 (88.0%)	46 (86.8%)
TEAE Leading to Drug Withdrawal	1 (4.0%)	0
Serious Adverse Event (SAE)	3 (12.0%)	2 (3.8%)
Drug-Related TEAE	11 (44.0%)	27 (50.9%)
TEAE Leading to Death	0	0

Most Common (>10%) Adverse Events	Placebo (N=25)	Aldafermin 1 mg (N=53)
Diarrhea	6 (24.0%)	15 (28.3%)
Nausea	6 (24.0%)	5 (9.4%)
Headache	9 (36.0%)	7 (13.2%)
Fatigue	4 (16%)	3 (5.7%)
Abdominal Distension	3 (12.0%)	7 (13.2%)
Diabetes Mellitus	5 (20.0%)	2 (3.8%)
Peripheral Edema	3 (12.0%)	2 (3.8%)

- All SAEs were deemed to be not related to treatment by site investigator
- No increase in Pruritus (4% Aldafermin vs. 8% placebo)
- No increase in gastrointestinal adverse events

Aldafermin Development Plan

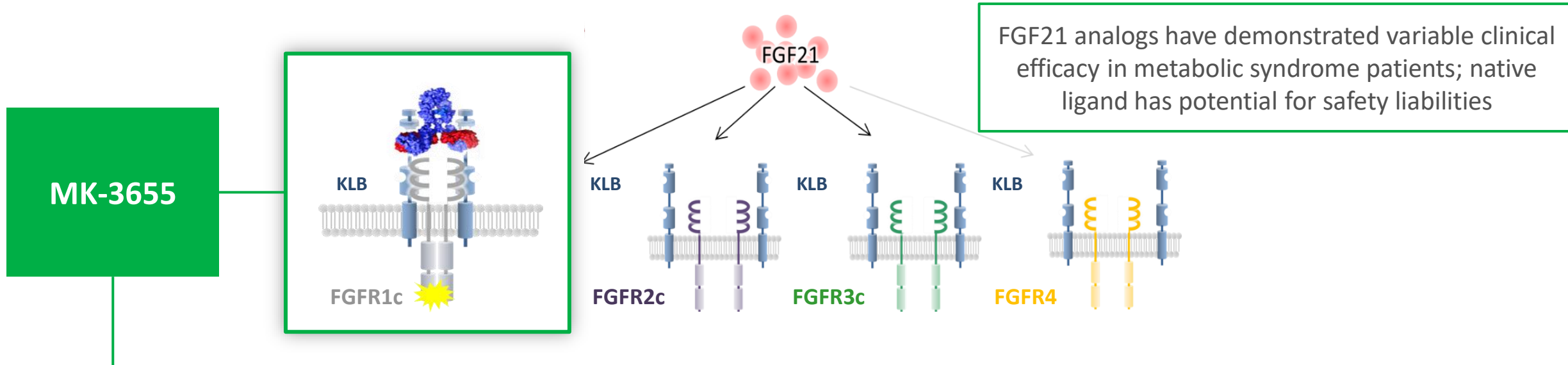


	PHASE 2 – COHORT 4	PHASE 2b (ALPINE 2/3)	PHASE 2b – COMPENSATED CIRRHOTICS (ALPINE 4)	PHASE 3 PROGRAM
Status	Topline Data – Feb 2020 EASL Presentation – Aug 2020	Fully enrolled Topline data expected – 2Q21	Enrolling	Planning
Duration	24 Weeks	24 Weeks	48 weeks	TBD
Aldafermin Dose (# Patients)	Placebo (25)	Placebo (~40)	Placebo (~40)	Placebo
	1 mg (53)	0.3 mg, 1 mg, 3 mg (~40 per dose level)	0.3 mg, 1 mg, 3 mg (~40 per dose level)	Dose Level(s) TBD

MK-3655 in NASH

A Monthly FGFR1c/KLB-specific Agonist Antibody Distinct from FGF21

MK-3655 (NGM313) for the Treatment of NASH

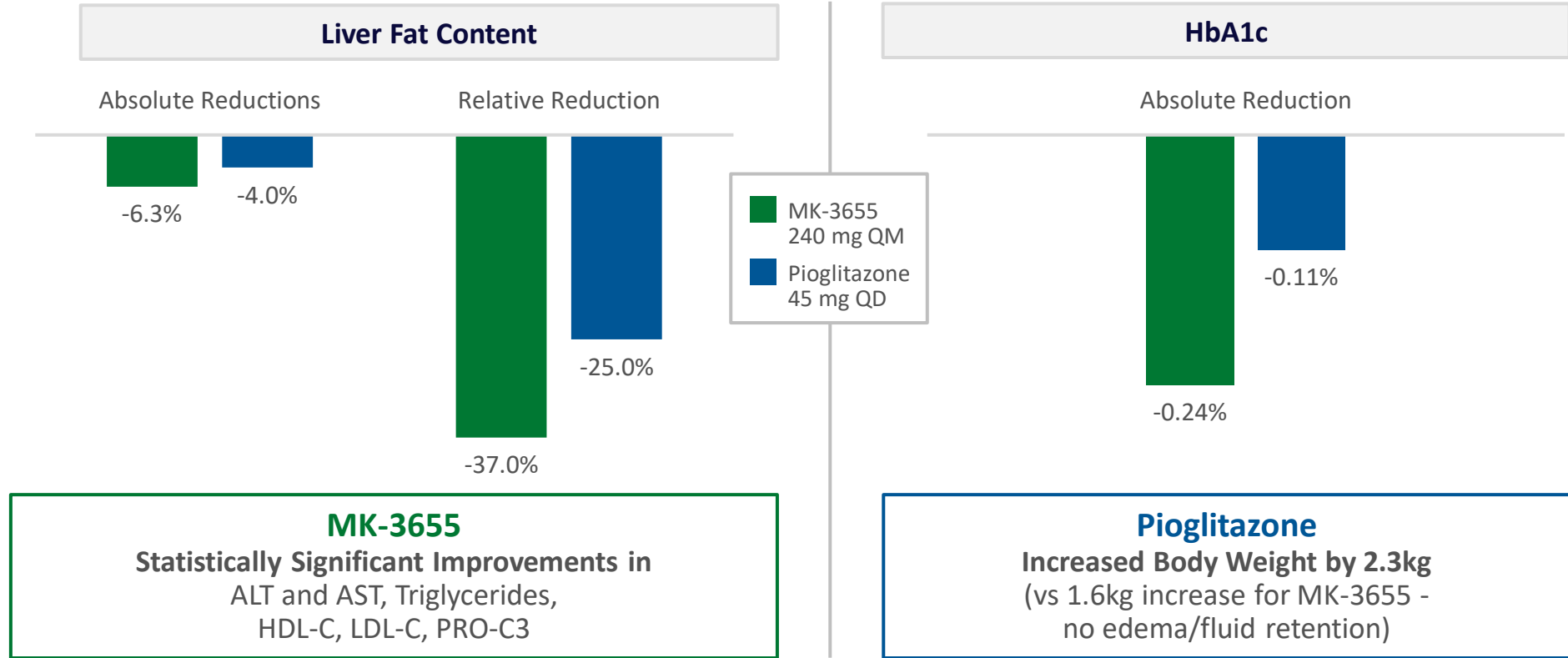


- Agonistic antibody that selectively activates FGFR1c / KLB to regulate energy metabolism
- Potential to be once-monthly injectable insulin sensitizer for treatment of NASH
- Completed Phase 1 SAD/MAD study in obese, insulin resistant subjects and Phase 1b study in subjects with NAFLD
- Single dose of MK-3655 resulted in **significant reductions in liver fat content and improvement in metabolic markers** based on preliminary data from a Phase 1b study in obese, insulin resistant subjects with NAFLD **after five weeks**
- **Merck exercised its option and licensed MK-3655 (NGM313)**

MK-3655 for the Treatment of NASH

Significant Reductions in Liver Fat Content and Improvement in Metabolic Markers (HbA1C) After 5 Weeks

Phase 1b Study in Obese, Insulin Resistant Subjects with NAFLD



Phase 1b Safety: MK-3655 was Well Tolerated and AEs Generally Comparable to Placebo



MK-3655 Safety Results

- Favorable safety and tolerability profile consistent with other MK-3655 studies
- All AEs were mild in severity
- No SAEs or Grade 2/3/4 AEs
- No pattern of AEs or organ system AEs of note
- No hypoglycemia
- Most common AEs (>10%) were injection site reaction (12%) and increased appetite (12%)
- No evidence of safety issues that have been associated with FGF21 analogues in clinical development
 - No tremor, no GI side effects, no effects on cortisol, no blood pressure changes

Aldafermin and MK-3655 Have Potential to be Complementary

Aldafermin

- Data from Cohort 4 Phase 2 study of Aldafermin 1 mg demonstrated:
 1. **Fibrosis reversal and NASH resolution**
 2. **Significant reductions in liver fat content**
 3. **Improvement in metabolic markers**
 - based on data from Phase 2 study in biopsy-confirmed NASH patients with F2-F3 fibrosis **after 24 weeks** of daily treatment¹
- Each cohort in the Phase 2 study demonstrated strong consistent results and added more evidence of effect
- Aldafermin was well tolerated and AEs generally comparable to placebo

MK-3655

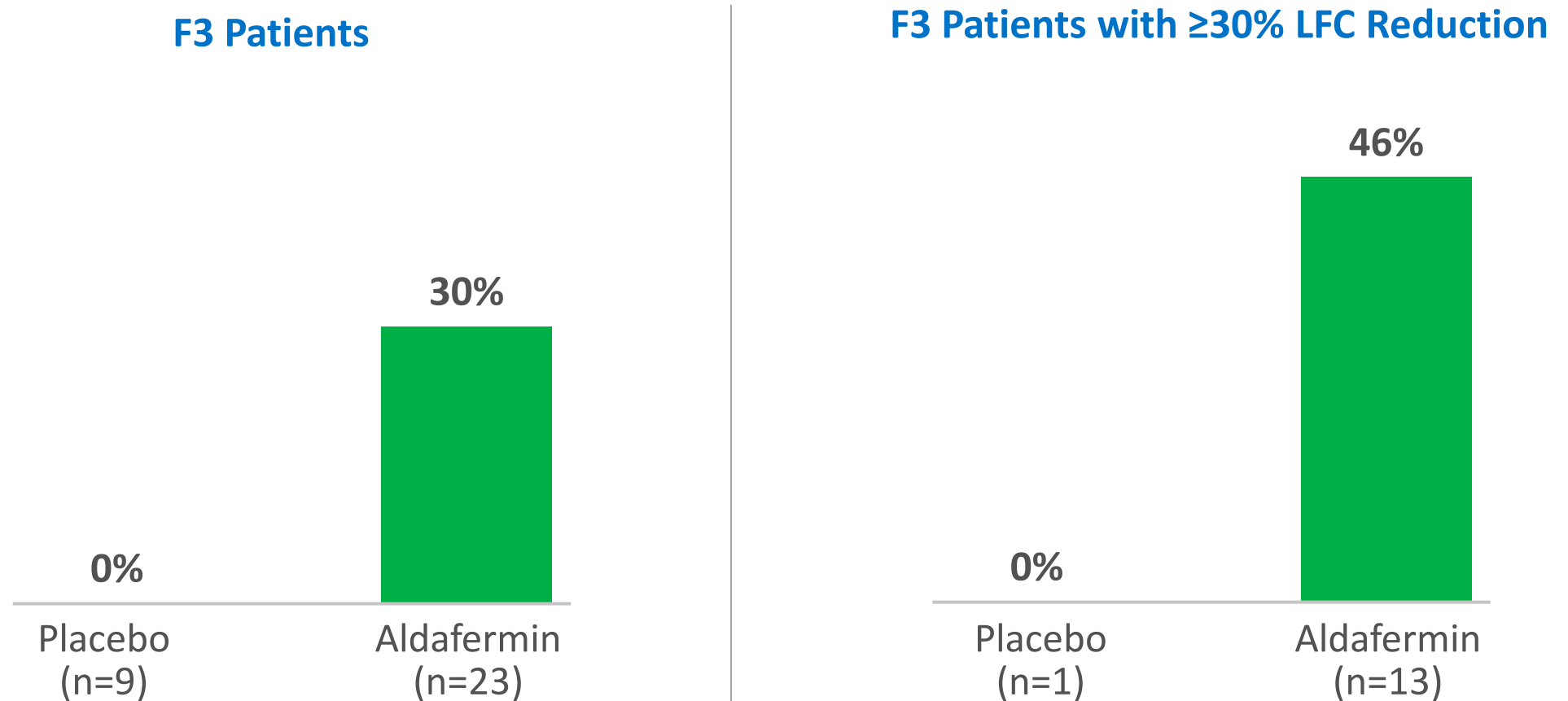
- Data from Phase 1b study of single dose of MK-3655 1 mg demonstrated:
 1. **Reductions in HbA1c**
 2. **Significant reductions in liver fat content**
 3. **Improvement in metabolic markers**
 - based on data from a Phase 1b study in obese, insulin resistant subjects with NAFLD **after five weeks**²
- Favorable safety and tolerability profile consistent with other MK-3655 studies
- No evidence of safety issues that have been associated with FGF21 analogues in clinical development
 - No tremor, no GI side effects, no effects on cortisol, no blood pressure changes, no bone effects

Aldafermin Phase 3 Development Planning

Cohort 4: Aldafermin Has Demonstrated Higher Anti-Fibrotic Effect in Patients with Advanced Disease (F3)



Fibrosis Improvement ≥ 1 Stage with No Worsening of NASH¹ at W24

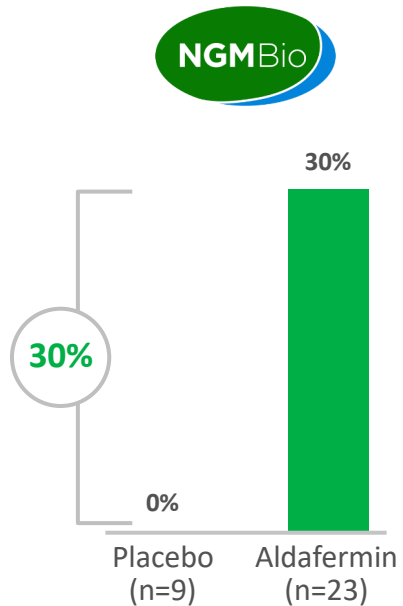


¹ Defined as patients who have an improvement in liver fibrosis by ≥ 1 stage with no worsening of NASH (no worsening of steatosis, lobular inflammation or hepatocyte ballooning grade) from baseline to W24 (not powered for statistical significance); LFC, liver fat content

NASH Development Landscape: Available Data on Fibrosis Improvement in Patients with Advanced Disease (F3)



Magnitude of Fibrosis Improvement ≥ 1 Stage with No Worsening of NASH in F3 Patients



No Data Available



Importance of Fibrosis Improvement in F3 Patients *versus* F2 Patients

- Efficacy in F3 may be more clinically meaningful to clinical hepatologists
 - Preventing progression to cirrhosis is a top priority for F3 patients
- A focus on F3 efficacy may be more clinically meaningful to NASH patients. We continue to gather more data to enable us to:
 - Understand how rapidly aldafermin may work
 - Understand how aldafermin works for the F3 fibrotic liver condition

Liver fibrosis is the most important determinant of mortality and morbidity in NASH¹

¹Angulo et al., Gastroenterology 2015;149:389-397; Ekstedt et al., Hepatology 2015;61:1547-1554; Dulai et al., Hepatology 2017;65:1557-1565

Phase 3/4 Program Planning

- We will be discussing a few novel Phase 3/4 designs with FDA
- Planning to enrich patients studied to emphasize F3 subjects
 - May decrease placebo variability and increase the probability of success in Phase 3
 - The higher event rate expected to be experienced by F3 patients in the Phase 4 portion may expedite final approval decision
- Awaiting ALPINE 2/3 data to determine final dose(s) for Phase 3
- Actively planning to start Phase 3



Corinne Foo-Atkins, MD MBA MSc

Vice President, Product Strategy

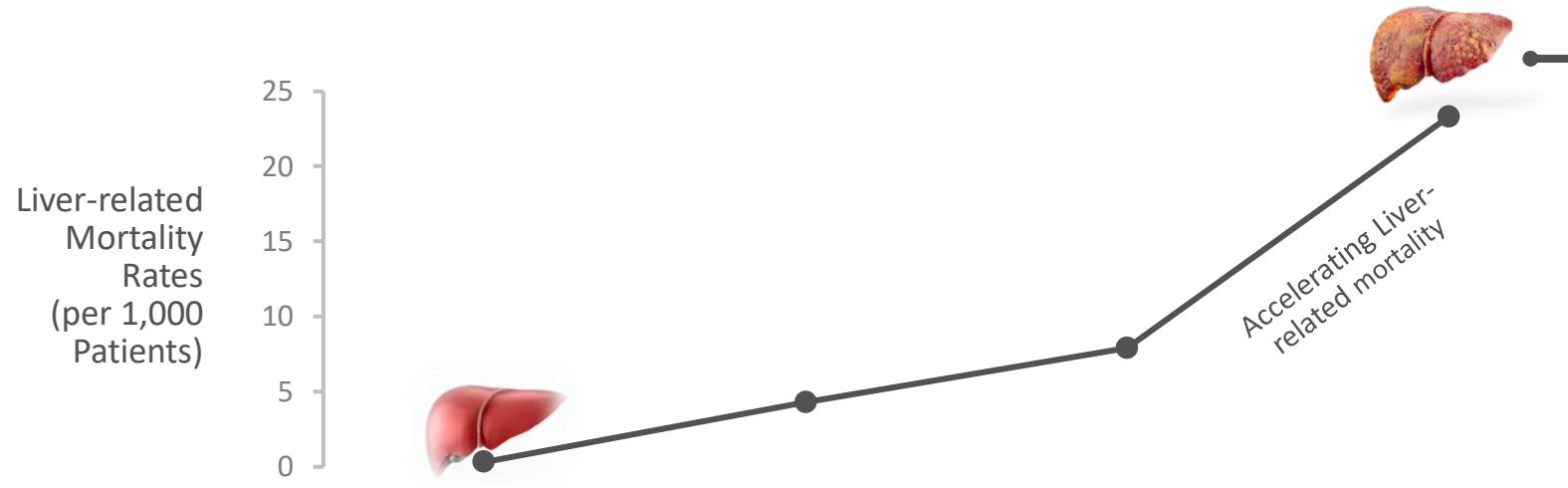


Genentech



McKinsey & Company

NASH: A Serious and Growing Disease, with Negative Outcomes Linked to Severity of Fibrosis



FIBROSIS STAGE	F0/F1	F2	F3	F4
US Prevalence - 2020	11.0M	4.1M	2.6M	1.6M
US Prevalence – 2030 (Est'd)	12.9M	6.1M	4.5M	3.5M

AN INCREASINGLY HEAVY BURDEN OF DISEASE

F4 (cirrhosis) drives negative liver-related outcomes and mortality

- ~7 year median survival
- >60% risk of cirrhosis-related complications: ascites, jaundice, hepatic encephalopathy, variceal bleed, liver cancer, liver transplant
- 3rd leading cause of death: liver-related complications in NASH cirrhosis (liver failure, variceal bleed, liver cancer)

Cirrhosis regression shown to reduce risk of liver events by 84%

Source: Adams et al, Gastroenterology 2005; 129:113-121. Sanyal A, AASLD 2020

Sources: Dulai et al, Hepatology 2017, 65(5):1557-1565; Singh et al, Clin Gastroenterol Hepatol. 2015, 13(4): 643–654; Estes et al, Hepatology 2018, 67(1): 123-133

F3/F4 NASH Exact a Severe Economic Toll on Both Patients and Society



Estimated average annual costs per U.S. NASH patient

	<u>F0</u>	<u>F1</u>	<u>F2</u>	<u>F3</u>	<u>F4</u>			
					<u>Comp.</u>	<u>Decomp.</u>	<u>HCC</u>	<u>Liver Transplant*</u>
NON-DRUG MEDICAL	\$0.4k			\$0.6k	\$19.6k	\$37.0k	\$97.0k	\$368.1k
DIRECT NON-MEDICAL	\$2.8k			\$4.8k	\$7.5k			
INDIRECT	\$7.9k			\$13.9k	\$21.3k			
Total Annual NASH Economic Burden per Patient**	\$11.1k			\$19.3k	\$48.4k → \$396.8k			

*Year 1 costs

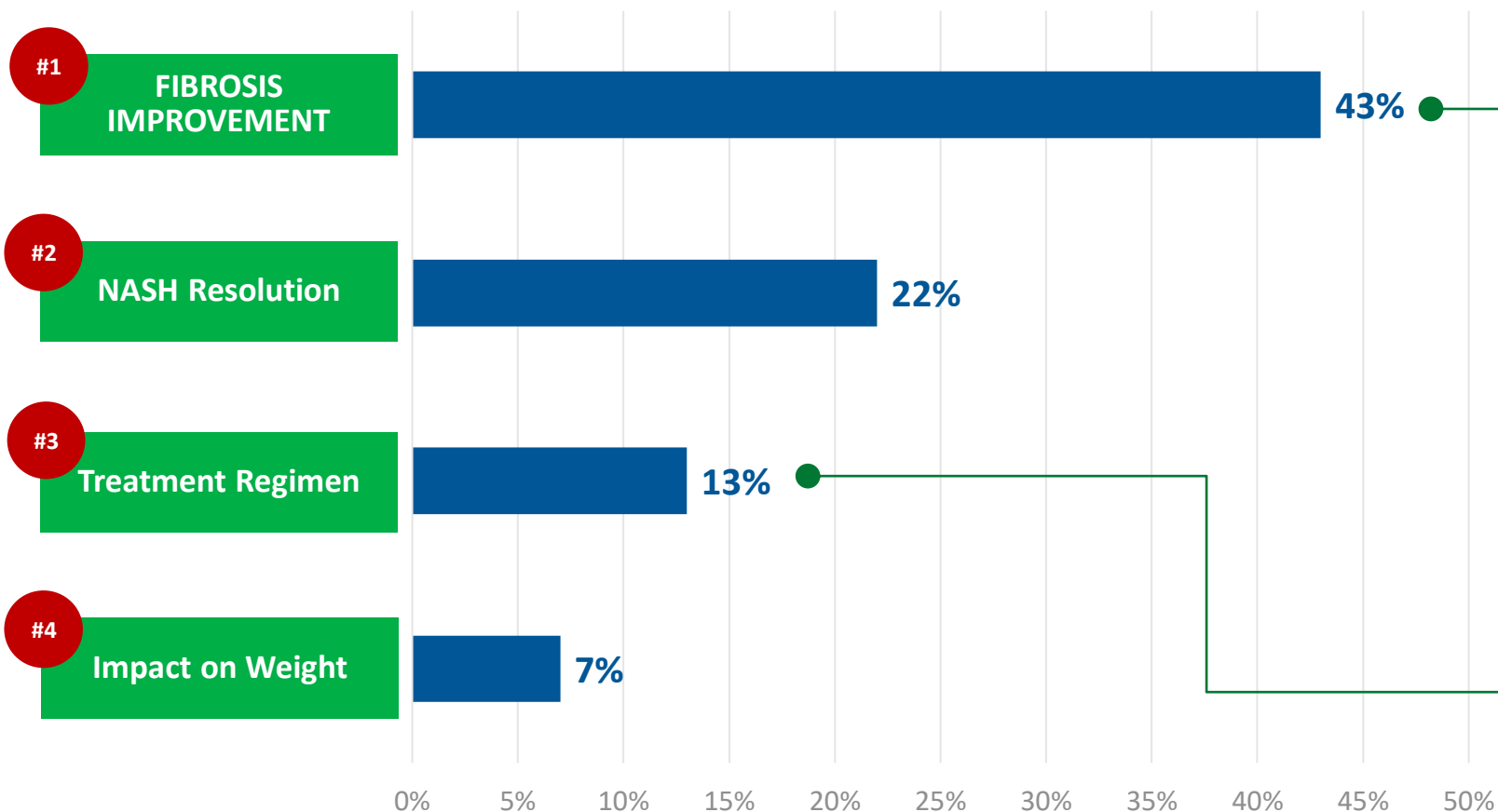
**Non-drug

FOCUS POPULATIONS

In Prescribing Decisions, Gastros/Heps Likely to be Most Driven by Fibrosis Data



RELATIVE CONTRIBUTION OF DRUG ATTRIBUTES IN NASH THERAPY SELECTION



“ I would put fibrosis as the single most important factor, because it's a good predictor. Especially if you have advanced fibrosis, that means there is injury and hopefully it can be reversed. There are more studies on fibrosis to show prognosis-wise in terms of decompensation, in terms of risk for cancer, especially if they're F3 or F4. ”
– Gastroenterologist

Reduced frequency of treatment is relevant to patient compliance, but ~50% of respondents stated **route of administration does not matter** for HCP treatment decisions

15% other factors.

Market Research Indicates that Injectable RoA is an Acceptable Tradeoff for Achieving Greater Efficacy



	 F2, High Liver Fat Content, Obese, Diabetic, Hypertensive	 F3, High Liver Fat Content/ Mod Inflammation, Obese, Diabetic, Hypertensive	 F3, Highly Inflamed Liver, Obese, Dyslipidemic, Hypertensive
Representative Patient Profile			
Physicians' Selection Criteria for Treatments	<ul style="list-style-type: none"> ✓ High efficacy with quick response ✓ May avoid therapies with weight gain 	<ul style="list-style-type: none"> ✓ Strong efficacy and rapid response prioritized ✓ Injectable RoA of less concern 	<ul style="list-style-type: none"> ✓ Dyslipidemia a concern for first-line Tx selection ✓ High switch rate to efficacious second-line
Patients' Preferences	<ul style="list-style-type: none"> ✓ Stops progression or even reverses fibrosis or cures NASH ✓ Injections acceptable, particularly if already on other injectable meds ✓ Mild side effects can be tolerated 		

Sources:
 1. 400-responder conjoint study with gastroenterologists, hepatologists, endocrinologists, internists and PCPs (2019); represent 95% of current NASH case load
 2. Patient Journey market research



Manal Abdelmalek, MD,
Professor of Medicine, Duke
University School of Medicine;
Director, NAFLD Clinical Research
Program, Duke University



NGM R&D Day
Dec. 9th, 2020

Nonalcoholic Steatohepatitis



DukeMedicine

Manal F. Abdelmalek, MD, MPH, FAASLD
Professor of Medicine
Division of Gastroenterology & Hepatology

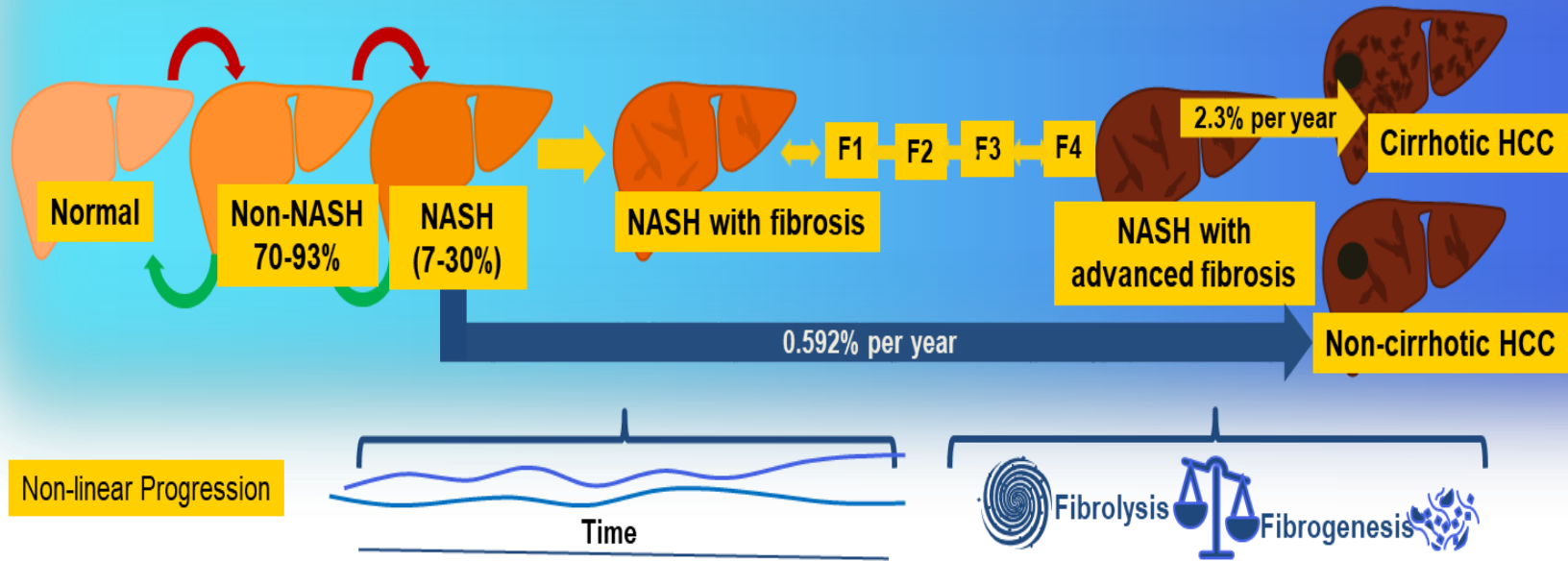




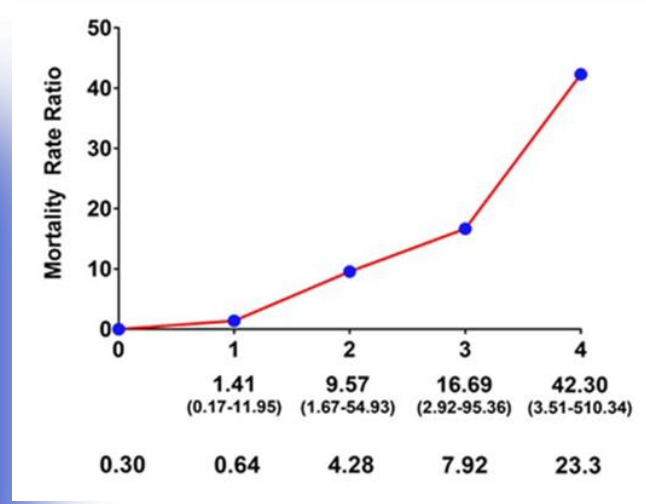
Natural History of NAFLD/NASH



The most common cause of death



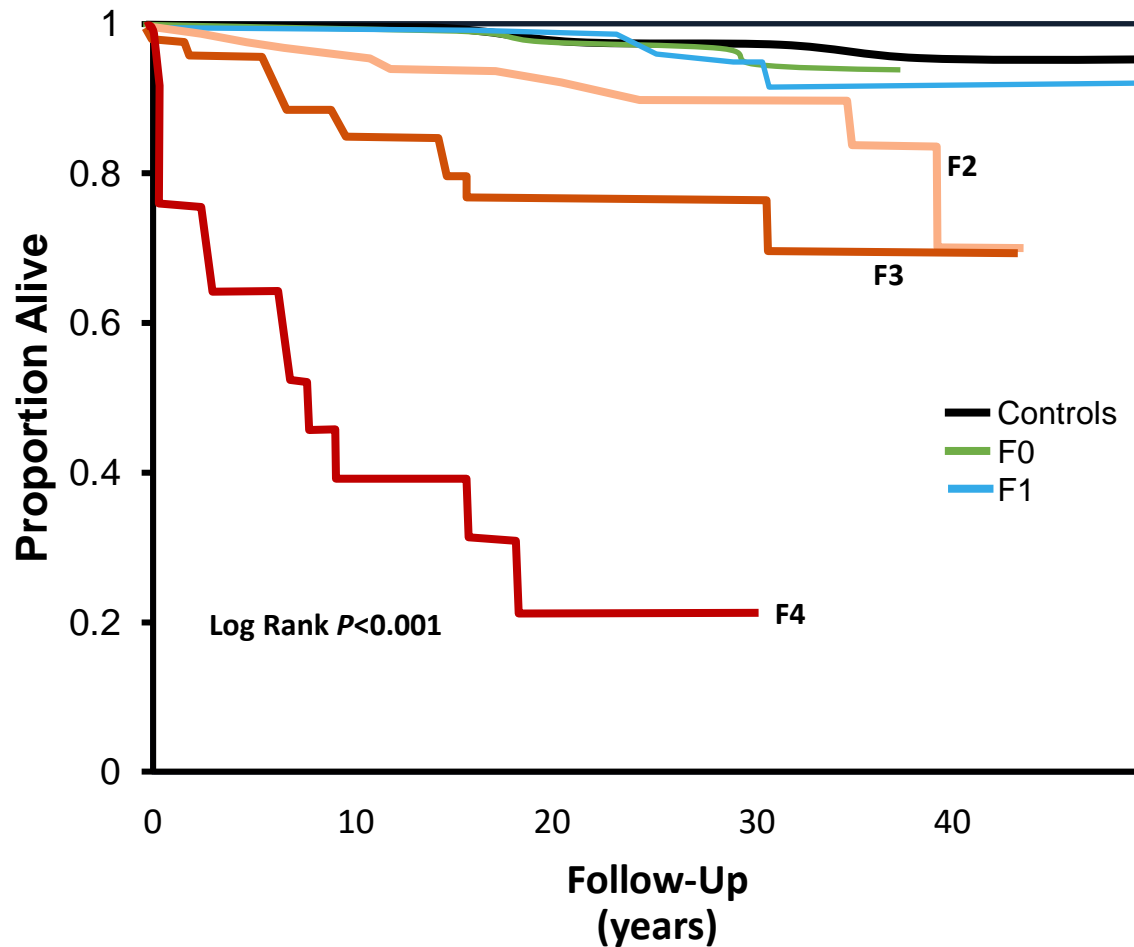
Liver-related mortality



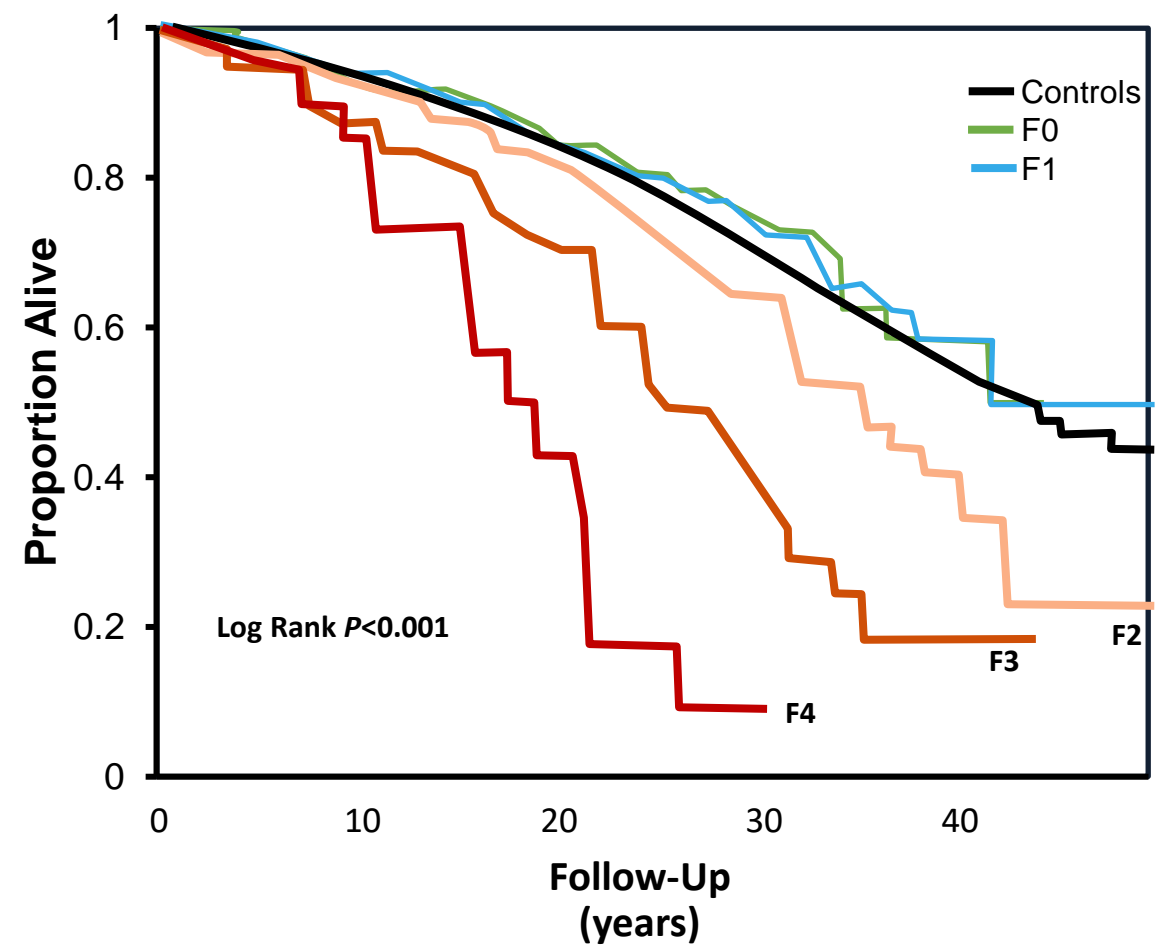
Fibrosis Stage But Not NASH Predicts Mortality



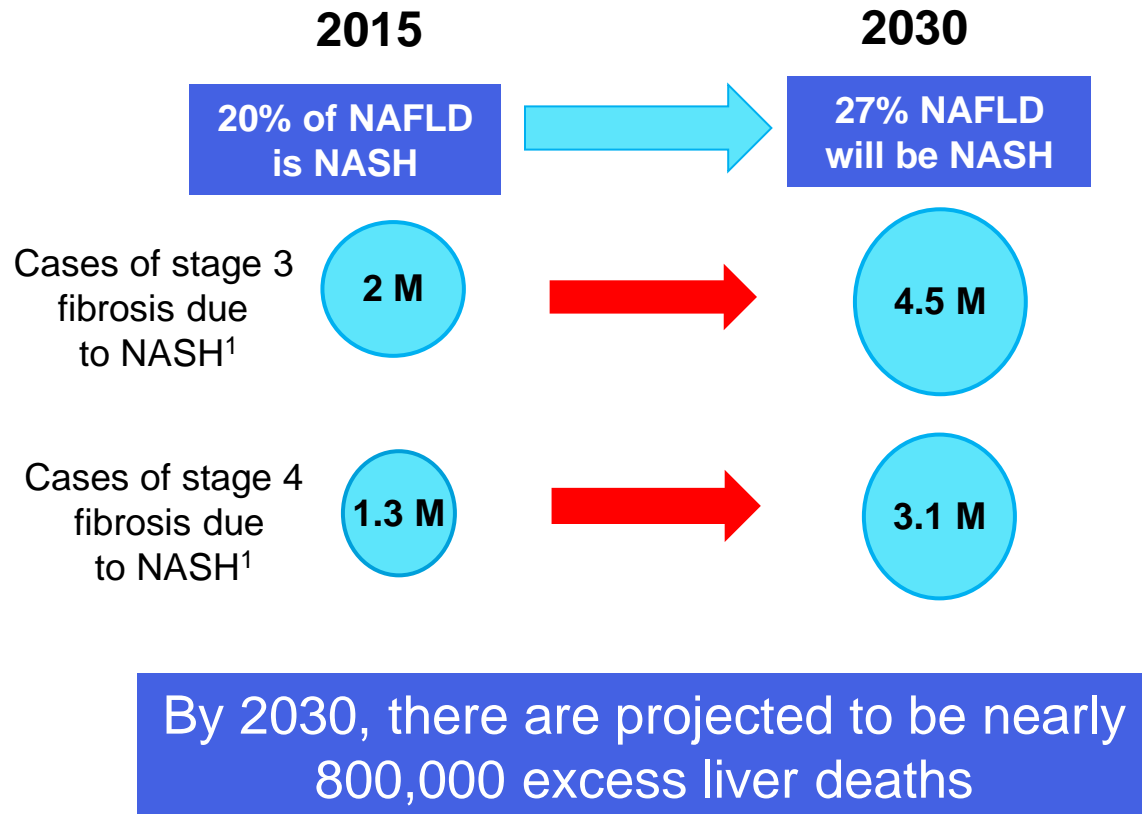
Liver-Related Mortality



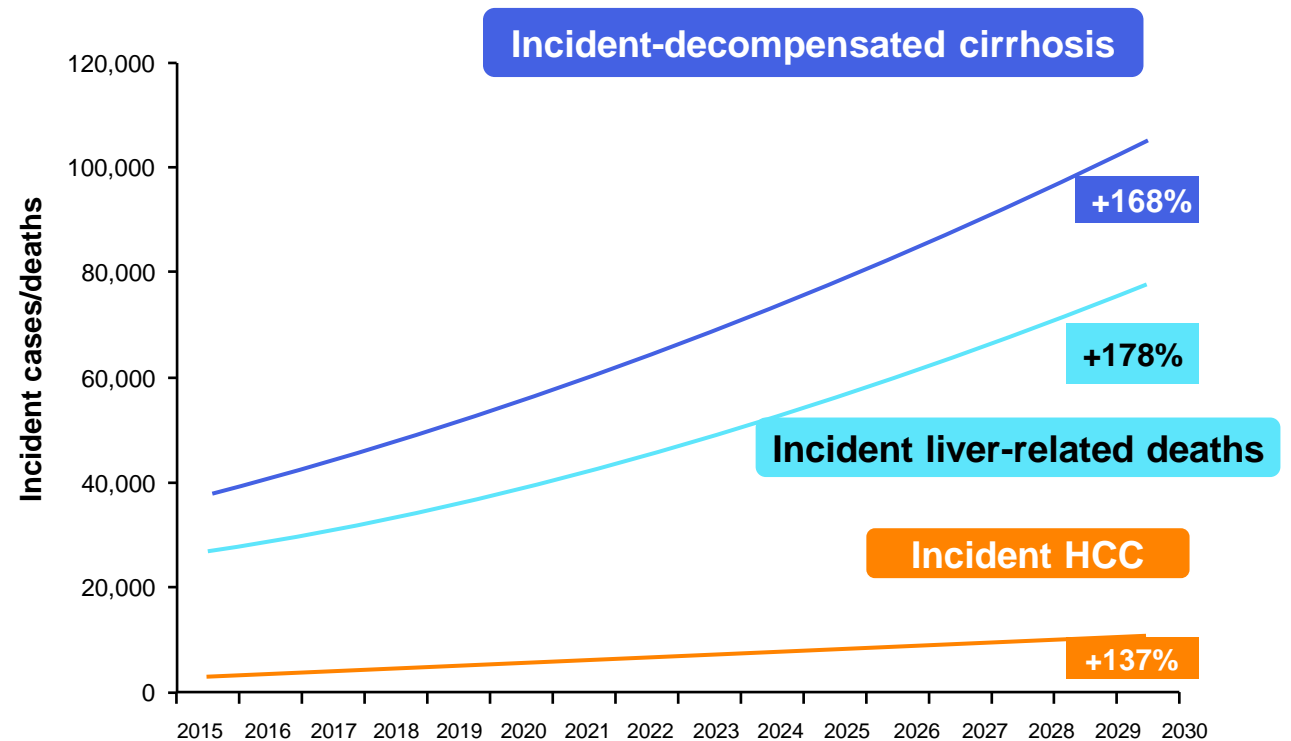
All-Cause Mortality



Models Suggest a Growing Clinical Burden Driven by Advanced NASH: Data from the United States



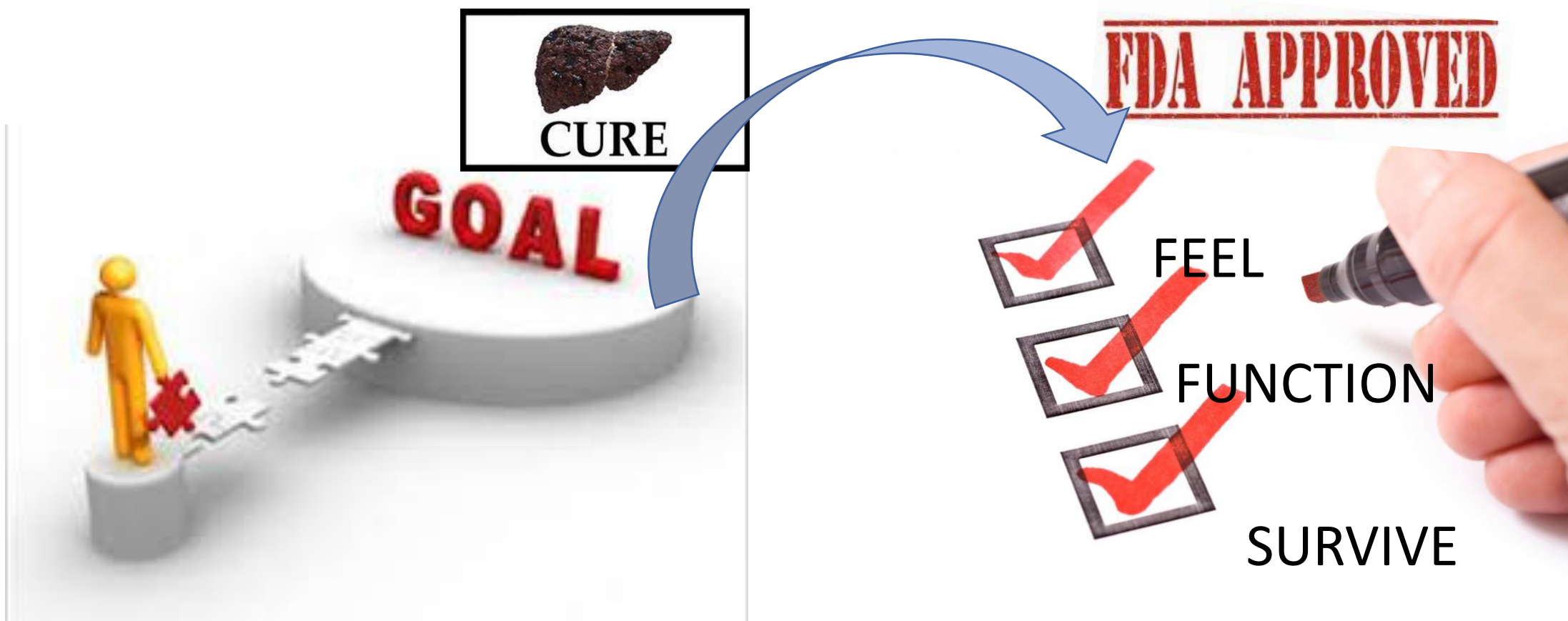
Incident decompensated cirrhosis, HCC and liver-related deaths



HCC, hepatocellular carcinoma; M, million; T2DM, type 2 diabetes mellitus. Estes C, et al. *Hepatology*. 2018;67:123–133.



Goal for Drug Development



Resolve NASH—strongest predictor of hepatic fibrosis
Improve fibrosis—strongest predictor of morbidity /mortality

Living with NASH: A Frustrating Ordeal for Patients



TYPICAL PATIENT'S JOURNEY



Vague Discomfort, Constant Fatigue

- NASH mostly picked up through workups for comorbidities

- Relief if told “only fatty liver”
- Fear, shock if told of seriousness
- Angry and frustrated at diagnosis delays (especially if already progressed to cirrhosis)

NASH Diagnosis Frequently Missed or Delayed

Few Treatment Options - Mostly Ineffective

- Defeated, frustrated at limited options and little/no information about NASH
- Dieting ineffective

Monitoring Visits Create Anxiety

- Feeling of desperation about potential progression

MARCELA'S STORY



- 43-year-old
- San Antonio, Texas
- Diagnosed in 2017

Diagnosis

“ For 6 months, I had diarrhea, heartburn, pain in my right upper abdomen, nausea ... my liver function test was very abnormal. My gall bladder was inflamed and was removed, and fortunately the doctor did a liver biopsy, which showed I had F3 disease.

Management

“ I changed my lifestyle and went on a diet and exercise regimen. And fortunately I got into a clinical trial. I was so motivated for myself and my family.

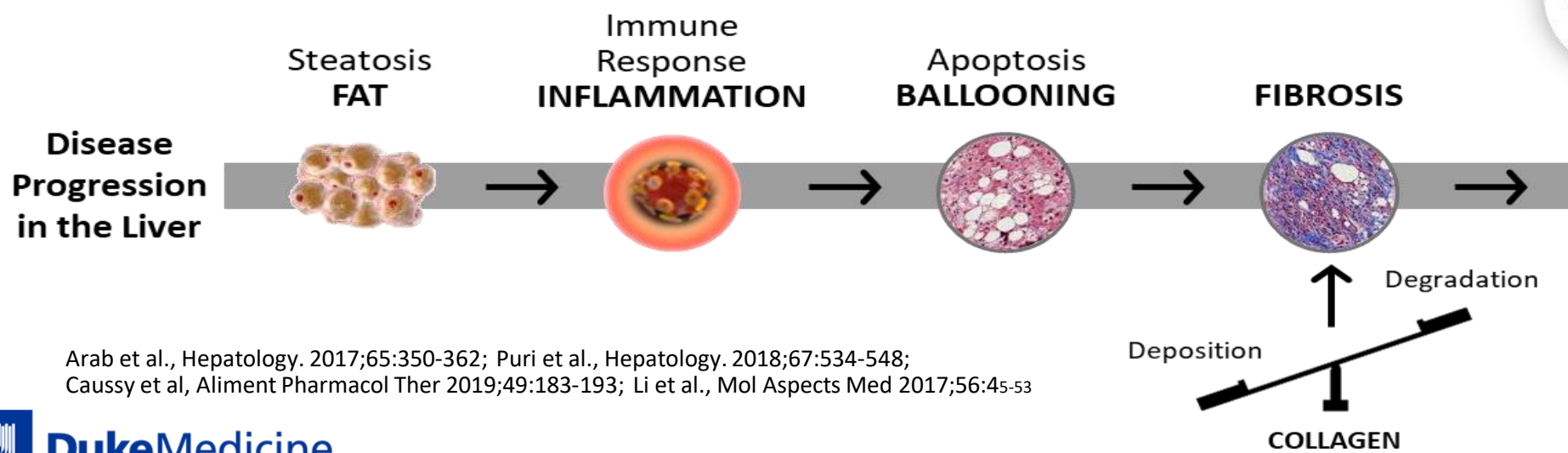
Knowing I can prevent cirrhosis, liver cancer, and liver failure keeps me positive.

I'm a single mom and want to be around for my 12-year old.

Bile Acid Dysregulation As a Key Driver of NASH Pathogenesis



- Bile acids accumulate in excess in the liver and blood in chronic liver diseases including NASH
- **Bile acid is a major driver of hepatic inflammation**, perpetuating the pro-inflammatory and pro-fibrotic cascades

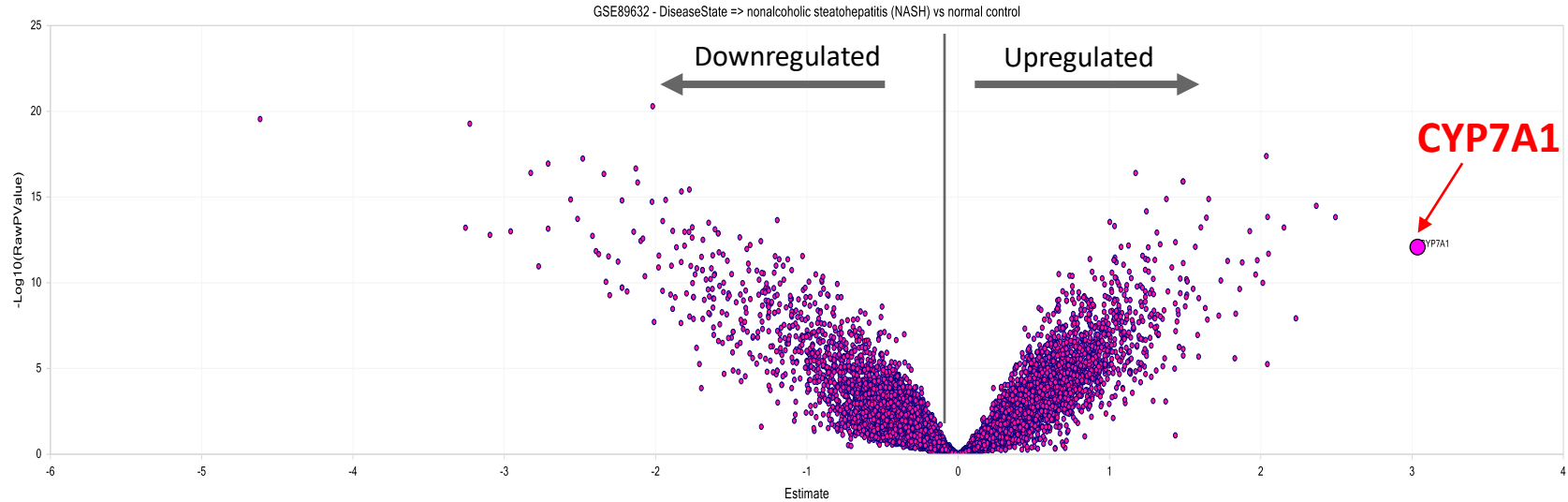


THE CIRRHOTIC LIVER

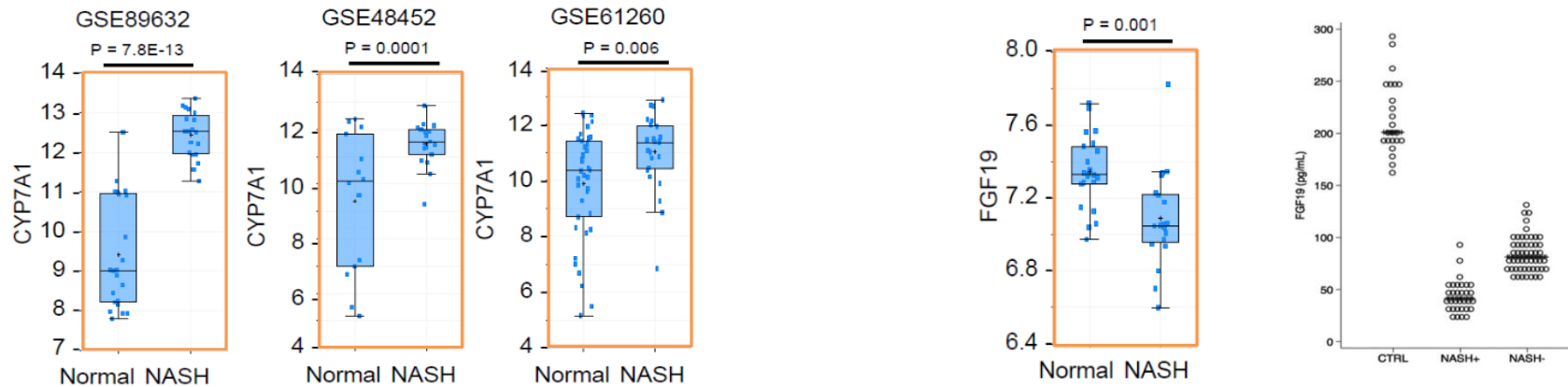
A heavily scarred organ incapable of adequately functioning and ultimately completely failing

Arab et al., Hepatology. 2017;65:350-362; Puri et al., Hepatology. 2018;67:534-548; Caussy et al, Aliment Pharmacol Ther 2019;49:183-193; Li et al., Mol Aspects Med 2017;56:45-53

Bile Acid Metabolism is Dysregulated in Patients with NASH

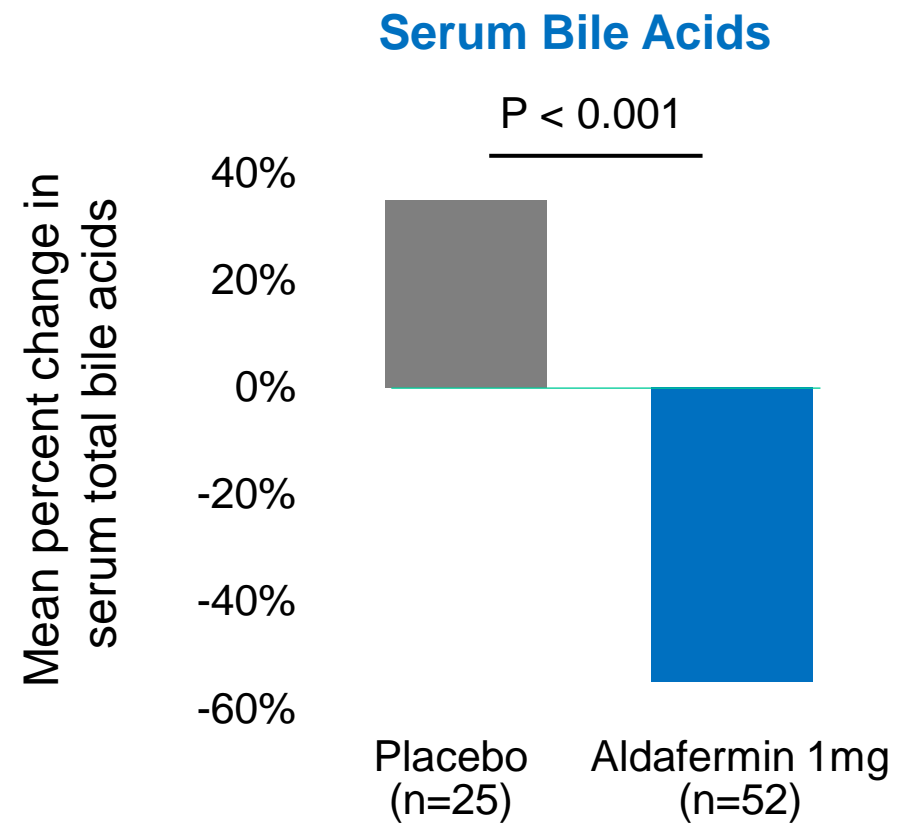
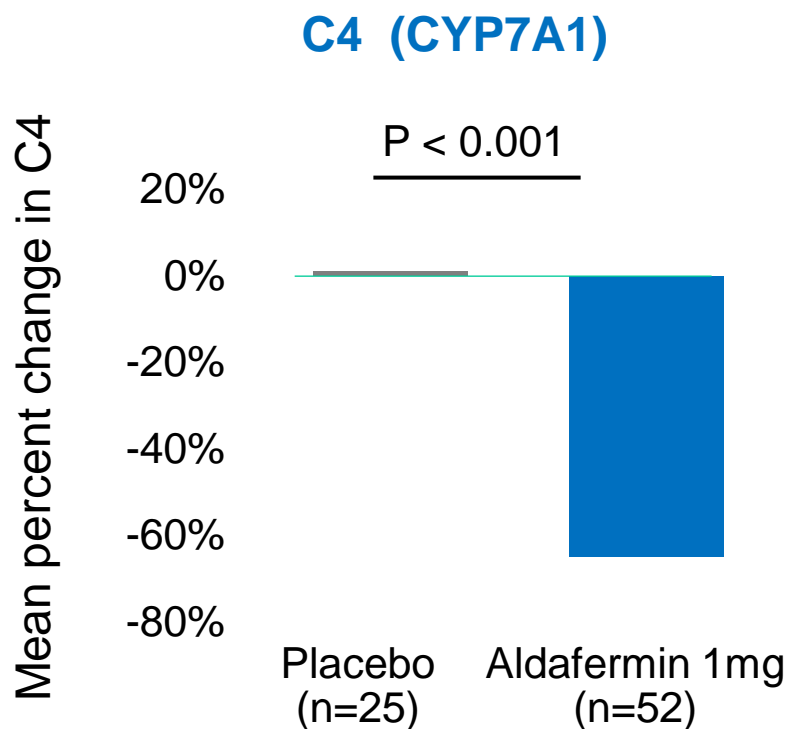


- **CYP7A1 is upregulated in NASH patients**
- **FGF19 is downregulated in NASH patients**





Cohort 4 Data: Aldafermin Robustly Reduces Serum Bile Acids and C4



My perspective on Regulatory Landscape



“It is imperative that any drug developed for NASH be at least neutral from a cardiovascular risk perspective and ideally also reduce cardiovascular risks”

My perspective on ICPT Complete Response Letter (CRL)

1. Lack of protocol driven management of OCA associated LDL-C elevations. –as with phase 2, management left to discretion of PI.
2. Primary outcome with small margin of efficacy over placebo with side effects including pruritus and increase in lipids.
3. Imperfect “gold” standard of histology with poor agreement between 2 different pathologists.
3. Surrogate biomarkers not approval endpoints.
4. No alarm signs (CV events) but want more time and more data to optimize confidence



"In hindsight, I believe that our oversight was shortsighted. At least that's my insight."

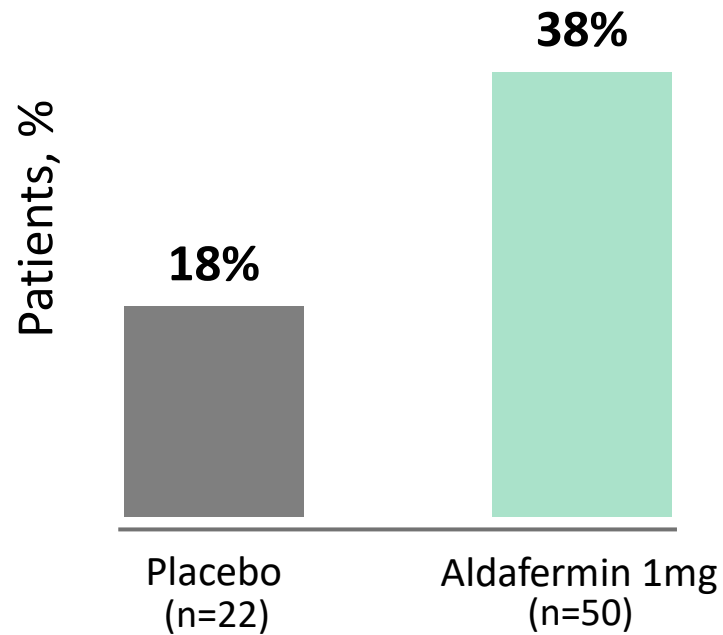


Cohort 4 Data: Aldafermin Shows A Robust Fibrosis Regression Data at W24

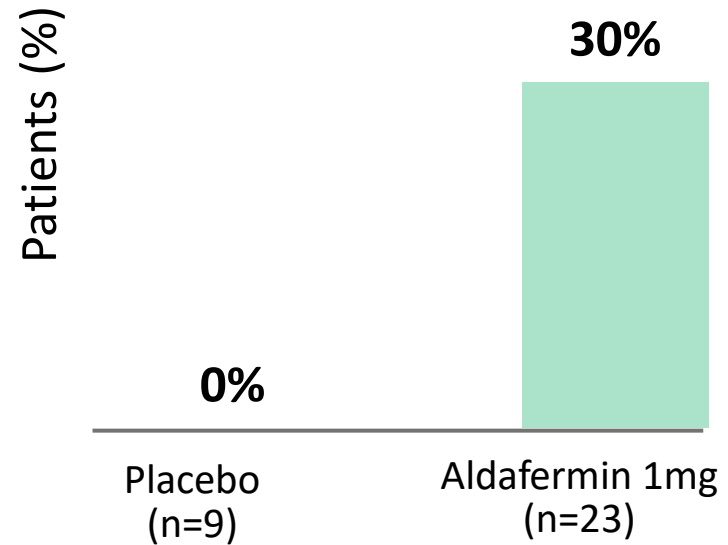


Fibrosis Improvement ≥ 1 Stage with No Worsening of NASH¹

F2/F3 Patients



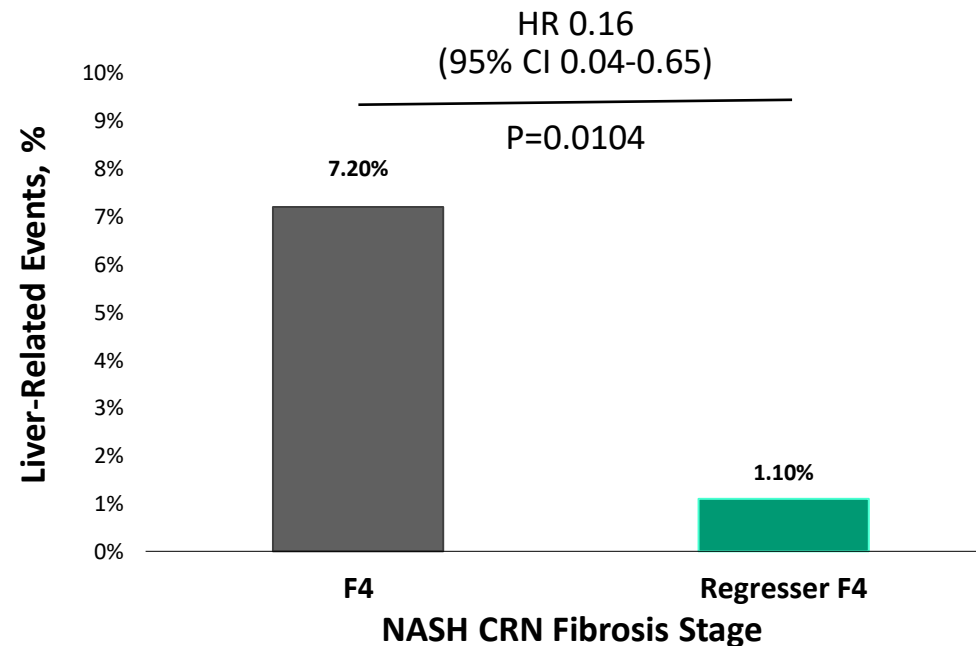
F3 Patients



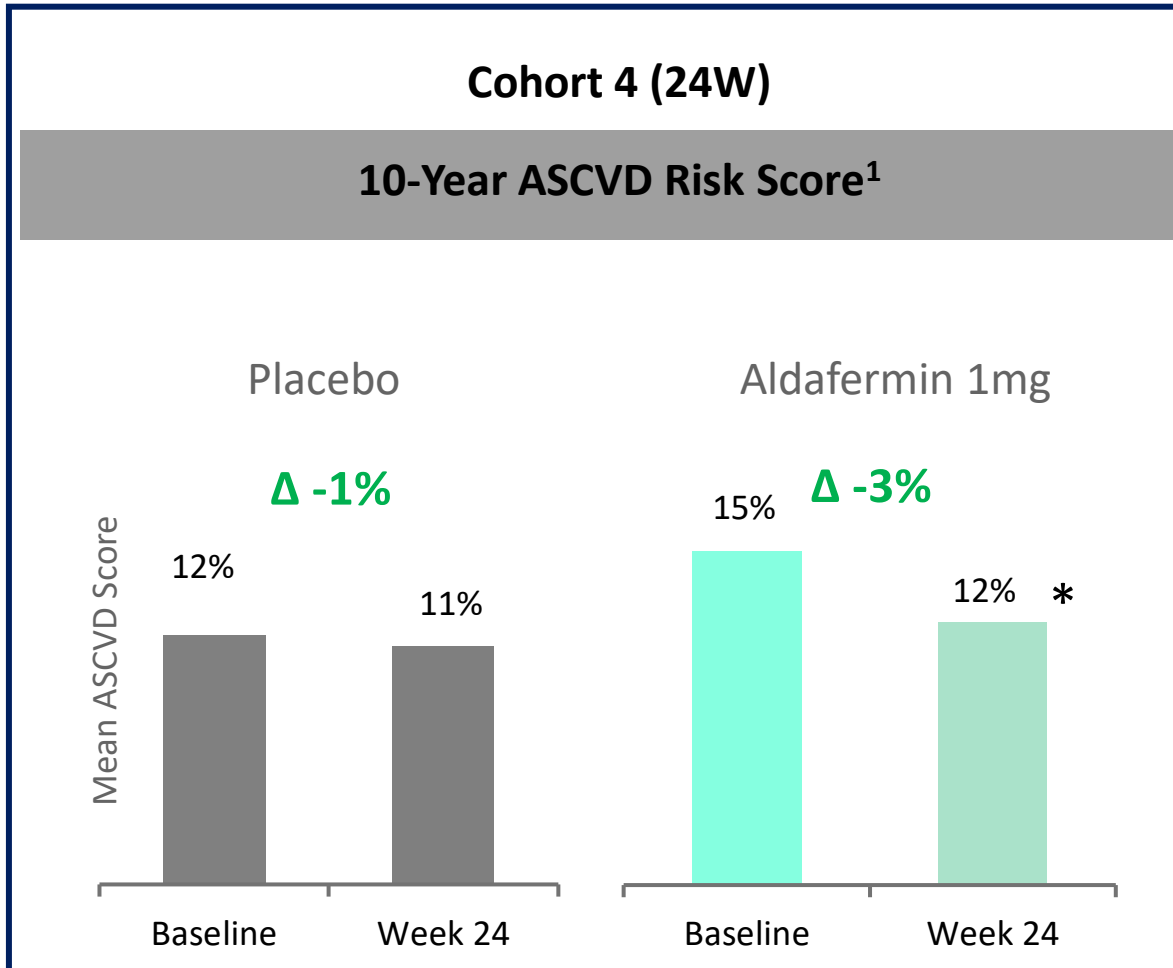
Fibrosis Regression is Associated with Reduction of Hepatic Events in Compensated Cirrhotic Patients



Fibrosis Regression in F4 Subjects Associated with Reduction of Hepatic Events¹



Cohort 4 Data: Optimized Lipid Management in NASH Decreases 10-yr ASCVD Risk Score



ASCVD Risk

- Optimal lipid management and reduction of ASCVD risk with rosuvastatin in this trial, including mitigating LDL increase from aldafermin
- At baseline, approx. 61% of NASH subjects had diabetes and qualified for statin use based on guidelines
- Only 32% of subjects on a statin at baseline
- In-trial lipid optimization with rosuvastatin at week 2 if LDL-C rise >10 mg/dL from baseline

*P=0.032 vs. placebo



Concluding Remarks

- Fibrosis –important!
 - Strongest predictor of clinical outcomes
 - Improved fibrosis decreases risk of negative clinic outcomes
- NASH resolution
 - Strongest predictor of fibrosis improvement
- Either NASH resolution without worsening of fibrosis OR Fibrosis improvement without worsening of NASH (or BOTH) are ideal endpoints.
- NASH patients are at increased risk of CVD, cancer, and cirrhosis.
- Risk mitigation strategies to optimize safety and efficacy are essentials
- Given the large population eligible for treatment, any drug approved for NASH must have optimally high efficacy to safety profile





THANK YOU



Q&A



Manal Abdelmalek, MD,
Professor of Medicine, Duke University



Hsiao D. Lieu, MD
Chief Medical Officer



Corinne Foo-Atkins,
MD MBA MSc
Vice President, Product Strategy



David Woodhouse, Ph.D.
Chief Executive Officer, NGM

Fireside Chat



MERCK



Q&A



Bill Rieflin
Executive Chairman, NGM



Jin-Long Chen, Ph.D.
Founder and Chief Scientific Officer, NGM



David Woodhouse, Ph.D.
Chief Executive Officer, NGM



Siobhan Nolan Mangini
Chief Financial Officer, NGM



Hsiao D. Lieu, M.D.
Senior Vice President,
Chief Medical Officer, NGM

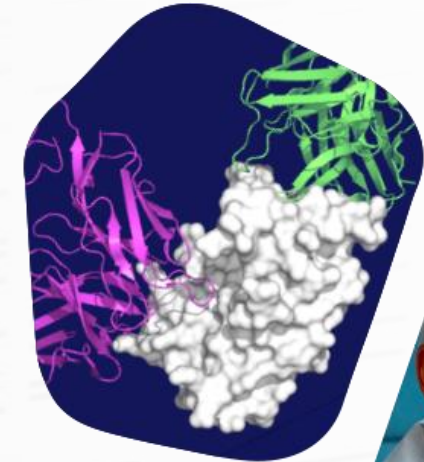


Alex DePaoli, M.D.
SVP and Chief Translational Officer,
NGM



Closing Remarks

David Woodhouse, Ph.D.
Chief Executive Officer, NGM





Thank You

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Novel Biology. Powerful Medicines. Transformative Impact.

