NGM Biopharmaceuticals, Inc. Corporate Overview

Novel Biology. Powerful Medicines. Transformative Impact.



NASDAQ: NGM

Safe Harbor Statement

This presentation contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, as amended. These forward-looking statements involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation, including statements regarding our future financial condition, results of operations, business strategy and plans, expected near-term milestones, and objectives of management for future operations, as well as statements regarding industry trends, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "anticipated," "believe," "continue," "can," "could," "estimate," "expect," "intend," "may," "plan," "potential" "predict," "preliminary," "should," "will" or the negative of these terms or other similar expressions. These statements include those related to potential indications for product candidates in NGM's clinical and preclinical pipeline; the planned development, timing, enrollment and results of NGM's clinical trials, including the announcement of topline data and other data from the Phase 2 clinical study of aldafermin (NGM282) in patients with NASH and the initiation of trials of NGM313 and NGM217; NGM's option to participate in the economic return of NGM313 or ability to receive milestone payments or royalties from NGM313; the potential complementarity of aldafermin and NGM313; the continued development and potential dosing of NGM621; the safety, tolerability and efficacy of NGM's product candidates; and NGM's expectation of potential value driving catalysts. Because such statements deal with future events and are based on NGM's current expectations, they are subject to various risks and uncertainties and actual results, performance or achievements of NGM could differ materially from those described in or implied by the statements in these slides and the accompanying presentation. These forward-looking statements are subject to risks and uncertainties, including those discussed in the sections titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in guarterly report on Form 10-Q for the guarter ended September 30, 2019 and other filings that we make from time to time with the Securities and Exchange Commission. Except as required by law, NGM assumes no obligation to update these forward-looking statements after the date of this presentation, or to update the reasons if actual results differ materially from those anticipated in the forward-looking statements.

Company Highlights



Aldafermin (NGM282) Wholly-owned, Phase 2b product candidate for treatment of NASH (non-alcoholic steatohepatitis) NGM313 (MK-3655) Insulin sensitizer for treatment of NASH and T2D; Completed Ph1b and licensed by Merck Pipeline of **four** additional product candidates in cardio-metabolic, oncologic and ophthalmic diseases

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Strategic collaboration with Merck providing robust R&D support and NGM option on future Merck late-stage programs



Experienced team with highly productive R&D engine generating on average ~1 development candidate/year Multiple key milestones and potential value

driving catalysts expected in the next 18 months

Our Expansive Pipeline



	PRODUCT CANDIDATE	PRODUCT DESCRIPTION (DOSING FREQUENCY)	POTENTIAL INDICATIONS	STAGE OF DEVELOPMENT	WORLDWIDE COMMERCIAL RIGHTS	
6 Development Programs	Aldafermin (NGM282)	FGF19 Analog (Once Daily)	NASH	Phase 2b	NGMBio	Wholly- Owned
	NGM313 (MK-3655)	FGFR1c/KLB Agonistic Antibody (Once Monthly)	NASH, Type 2 Diabetes	Phase 1b	MERCK Licensed	NGMBio
	NGM120	GFRAL Antagonistic Antibody (Long Acting)	Cancer Anorexia/Cachexia Syndrome (CACS)	Phase 1	NGMBio	MERCK Option
	NGM217	Undisclosed (Long Acting)	Diabetes	Phase 1	NGMBio	MERCK Option
	NGM621	Complement C3 Inhibitory Antibody (Long Acting)	Dry Age-Related Macular Degeneration (AMD)	Phase 1	NGMBio	MERCK Option
	NGM395	GDF15 Analog (Long Acting)	Metabolic	Preclinical	NGMBio What	olly-Owned

FGF19: fibroblast growth factor 19; FGFR1c/KLB: fibroblast growth factor receptor 1c/beta-klotho; GDF15: growth differentiation factor 15; GFRAL: glial-cell-derived neurotrophic factor receptor alpha-like



Improving Fibrosis Leads to Better Outcomes for NASH Patients



NASH expected to be the #1 cause of liver transplant by 2020¹

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. ¹ Canbay et al, Visc Med 2016, 32: 234-238.



Aldafermin Impacts the Key Drivers of NASH Pathogenesis



Unlike Many Other Drugs in Development, Aldafermin Targets Fibrosis Reversal and Cirrhosis Prevention in Advanced NASH Patients



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NASH Phase 2 Program Provides Foundation for Late Stage Development of Aldafermin





Cohort 4: A 24-Week, Double-Blind, Placebo-Controlled Multi-Center Ph2 Study of Aldafermin in Patients with Biopsy-Proven NASH





- 78 subjects randomized 2:1 to aldafermin 1 mg or placebo
- Key inclusion criteria include:
 - Biopsy confirmed NASH with NAS ≥4 (1 point in each component); stage 2 or 3 liver fibrosis (F2 or F3 by NASH CRN criteria);
 - Absolute liver fat content (LFC) \geq 8% by MRI-PDFF;
 - \circ ALT \geq 19 IU/L in females, ALT \geq 30 IU/L in males
- **Primary endpoint**: change from baseline in absolute LFC (as measured by MRI-PDFF) in subjects with histologically confirmed NASH after 24 weeks of treatment
- A pre-specified interim analysis on MRI-PDFF and select biomarkers was conducted when 38 subjects completed Week 24 procedures
- Rosuvastatin (ROS 20 mg) started at W2 if LDL-C rise of 10 mg/dL observed
 - ROS dose titrated up to 40 mg at W4 to W8 if LDL-C remains above baseline

Summary of Phase 2 Data: Liver Fat Content





Summary of Phase 2 Data: ALT





***P<0.001, **P<0.01, *P<0.05 vs baseline

Rapid and Sustained Decreases in ALT and AST with Aldafermin **NGM**Bio **INFLAMMATION** ALT (IU/L) AST (IU/L) 20 20 Change in ALT from Baseline (IU/L) Change in AST from Baseline (IU/L) Baseline Wk 2 Wk4 Wk 6 **Wk 8** Wk 12 Wk 18 Wk 24 -10 0 Baseline Wk 2 Wk4 Wk 6 **Wk 8** Wk 12 Wk 24 Wk 18 -40 -20 *** *** -70 -40 *** *** ---Placebo ---Placebo *** *** *** *** *** ----Aldafermin 1 mg ----Aldafermin 1 mg *** * * *** -100 -60 *** ***



Summary of Phase 2 Data: PRO-C3



***P<0.001, **P<0.01, *P<0.05 vs baseline

Rapid and Sustained Statistically Significant Reduction in PRO-C3 as Early as Week 2



***P<0.001, **P<0.01 vs. baseline (LS mean)

NGMBio

Cohort 4 Interim Analysis: LDL-C Changes Effectively Managed with Statin Therapy

Cohort 4 Interim Analysis: Adverse Event Summary

TEAE Classification	Placebo (N=13)	Aldafermin 1.0 mg (N=25)	
Any TEAE	11 (84.6%)	22 (88.0%)	
TEAE Leading to Drug Withdrawal	1 (7.7%)	0 (0%)	
Serious TEAE	2 (15.4%)	0 (0%)	
Drug-Related TEAE	8 (61.5%)	13 (52.0%)	
TEAE Leading to Death	0 (0 %)	0 (0%)	
MedDRA Preferred Term	Placebo (N=13)	Aldafermin 1.0 mg (N=25)	
Diarrhea	1 (7.7%)	7 (28%)	
Headache	5 (38.5%)	3 (12%)	
Nausea	4 (30.8%)	3 (12%)	
Arthralgia	0 (0%)	3 (12%)	
Diabetes Mellitus	2 (15.4%)	2 (8%)	
Influenza like Illness	2 (15.4%)	1 (4%)	
Loose stools	2 (15.4%)	1 (4%)	
Pruritus	2 (15.4%)	1 (4%)	
Hypertension	2 (15.4%)	1 (4%)	
Frequent bowel movements	0 (0%)	1 (4%)	
Increased frequency of defecation	0 (0%)	1 (4%)	
Peripheral Edema	2 (15.4%)	0 (0%)	
Fatigue	2 (15.4%)	0 (0%)	

Cohort 4 interim analysis; Preliminary data

Consistent Robust Reduction to Near Normal Levels Across Key Biomarkers of Disease

NEAR NORMAL LEVELS ACHIEVED WITH ALDAFERMIN TREATMENT

¹ Relative changes are calculated as mean change from baseline at end of treatment (EOT) Cohorts 1-3 and Cohort 4 interim analysis - Preliminary data

Rapid Regression of Fibrosis at Week 12

Fibrosis Histological Response at Week 12¹ (% of Patients; n=19 in 3 mg dose of Cohort 2, n=24 in 1 mg Cohort 3)

Exploratory Endpoints Achieved: All NASH Histological Parameters Improved at Week 12

NAS Histological Response at Week 12^{1,2} (% of Patients; n=19 in 3 mg dose of Cohort 2, n=24 in 1 mg Cohort 3)

¹ Preliminary data, Cohorts 2-3

² NAS: NAFLD Activity Score

Aldafermin Development Plan

IGM

NGM313 (MK-3655) for the Treatment of NASH and Type 2 Diabetes

- Agonistic antibody that selectively activates FGFR1c / KLB to regulate energy metabolism
- Potential to be once-monthly injectable insulin sensitizer for treatment of NASH and T2D
- Completed Phase 1 SAD/MAD study in obese, insulin resistant subjects and Phase 1b study in subjects with NAFLD
- Single dose of NGM313 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**
- Well-tolerated across Phase 1 and Phase 1b studies
- Merck exercised its option and licensed NGM313 and other FGFR1c/KLB agonists in 4Q18

NGME

NGM313 (MK-3655) has Potential to Complement Aldafermin by Targeting NASH Population with T2D

Beyond NASH, an Expansive Pipeline in Other Indications

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	NGM621	Complement C3 Inhibitory Antibody (Long Acting)	Dry Age-Related Macular Degeneration (AMD)	Phase 1	NGMBio Option	
	NGM395	GDF15 Analog (Long Acting)	Metabolic	Preclinical	NGMBio Wholly-Owne	ed

FGF19: fibroblast growth factor 19; FGFR1c/KLB: fibroblast growth factor receptor 1c/beta-klotho; GDF15: growth differentiation factor 15; GFRAL: glial-cell-derived neurotrophic factor receptor alpha-like

Geographic Atrophy (GA) is an Advanced Form of AMD

- Geographic atrophy (GA) is the dry form of advanced AMD, characterized by progressive and irreversible loss of photoreceptors, retinal pigment epithelium (RPE) and choriocapillaris
- GA is typically bilateral and lesion enlargement results into irreversible blindness
- GA affects ~5 million people globally and ~ 1 million people in the US
- Currently no approved treatment for GA

Fleckenstein et al, Ophthalmology 2018, 125(3): 369-390; Friedman et al, Arch Ophthalmol. 2004, 122: 564-572

Complement Activation is Associated with Development of Advanced AMD

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

NGMBic

NGM621 Targets Complement C3, Blocking All Three Pathways of Complement Activation

NGMBic

NGM621: A Potent Anti-Complement C3 Antibody

- Antibody that has high binding affinity for human C3 ($K_D < 1 \text{ nM}$)
- Potent inhibition of both classical and alternative pathways of complement activation ($IC_{50} \sim 5-6 \text{ nM}$)
- Potential for QM (monthly) or Q2M (EOM) intravitreal dosing

NGM621 Development

- Initiated Phase 1 open-label single dose and multiple dose study in patients with GA
- Primary objective to evaluate the safety, tolerability and pharmacokinetics of intravitreal injection(s) of single and multiple doses of NGM621
 - Estimated enrollment of ~24 patients with GA secondary to AMD
- Study enables a potential Phase 2 POC study in GA
- Favorable tolerability profile observed from 5W GLP toxicology study in monkey
- Program is subject to Merck option to license the program

Our Merck Collaboration: Growth-Accelerating Partnership

¹ Merck has committed to provide R&D reimbursement of up to \$50 million per year. 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.

Momentum with Potential Value-Driving Catalysts

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