

Corporate Brief Q2 2024

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Excellent Science - Combining Validated Targets with Breakthrough Chemistry We Aim to Cure

Experienced Management Team

Novel FUSION[™] System

BMF-219 – Phase II - Lead Asset

BMF-500 – Phase I

Discovery Programs



We Aim to Cure[™]

Biomea Fusion is a clinical-stage biopharmaceutical company focused on the discovery and development of **oral covalent small-molecule drugs** to treat patients with metabolic diseases and genetically defined cancers. We believe that our approach may lead to significant improvement and extension of life for patients. Our team is engaged in all phases of drug discovery and development, including target selection, small molecule design, and preclinical and clinical studies to develop innovative medicines.



Aiming to Develop some of the Most Impactful Medicines of our Time A Long History of Developing Successful Drugs - Together



Thomas Butler Chairman & CEO

 biomea FUSION[™]
Co-Founder
The FUSION[™] SYSTEM
BMF-219^{*}

Co-Inventor

imbruvica (ibrutinib)

60, 420, 280, 140 mg tablets | 140, 70 mg capsules

Veklury remdesivir Meeton Co-Inventor

biomea We Aim to Cure

FUSION



Ramses Erdtmann President & COO

biomea

imbruvica.

60, 420, 280, 140 mg tablets | 140, 70 mg capsules

Co-Founder

(ibrutinib)

FUSION



Juan Frías, M.D. Chief Medical Officer

mouniaro

(tirzepatide) injection 0.5 mL

╘╁╴

(dapagliflozin) 5mg & 10 tablets

ulaglutide) injection 0.5 mL

0.75 mg | 1.5 mg | 3.0 mg | 4.5 mg

Lyetta[®]

(exenatide) injection

OZEMPIC

semaglutide injection 0.5mg, 1mg, 2mg

farxiga

2.5 mg | 5 mg | 7.5 mg | 10 mg | 12.5 mg | 15 mg

trulicity. wegovy.

Jardiance[®]

(empagliflozin) tablets

semaglutide injection 2.4 mg

Januvia

sitagliptin

Canagliflozin) tablets



Naomi Cretcher Chief of People

(ibrutinib)

30 420 280 140 mg tablets

imbruvica

140,70 mg capsules



Heow Tan Chief Technical & Quality Officer



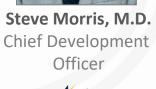














🔊 ZYKADIA

LORBRENA

ceritinib 150 mg tablets

alectinib ^{150 mg} capsules

ALUNBRIG

BRIGATINIB



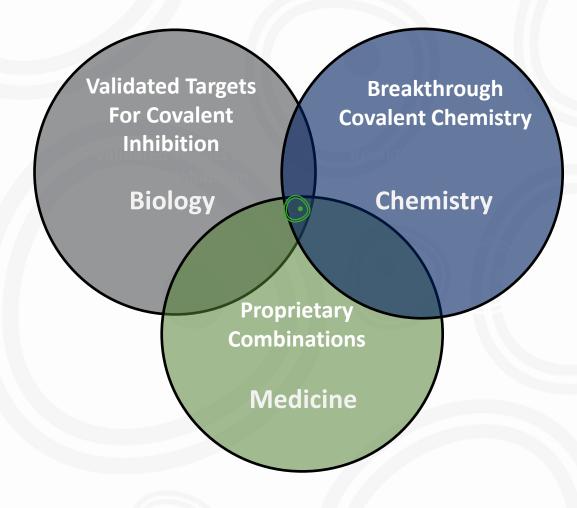
Franco Valle Chief Financial Officer

imbruvica (ibrutinib) 560,420,280,140 mg tablets | 140,70 mg capsules

*Note: BMF-219 is an investigational new drug

Confidential

Biomea Leverages the FUSION[™] System to Create a Suite of Novel Covalent Agents to Potentially Improve and Extend the Lives of Patients Biomea's Development Principles





Drugs pursuing <u>Validated Disease Targets</u> have a ~2x higher likelihood of approval than molecules pursuing a new mechanism of action

Sources: Nelson et al. (2015) Nat Genet.; Thomas et al. (2016) BIO; In a Landscape of 'Me Too' Drug Development, What Spurs Radical Innovation? HBS Weekly Review (Jun 2018)



<u>Covalent Small Molecule Inhibitors</u> provide deep target inactivation and a wider therapeutic window,

allowing for longer duration on therapy

Sources: Singh et al. (2011) Nature Reviews Drug Discovery; Cheng et al. (2020) Journal of Hematology & Oncology; Strelow (2017) SLAS Discovery; Kalgutkar & Dalvie (2012) Expert Opin. Drug Discov.;



Combination Therapy with non-overlapping

resistance mechanisms results in more durable

Proprietary Combinations responses and better outcomes Sources: Palmer et al. (2019) eLife; Mokhtari et al. (2017) Oncotarget



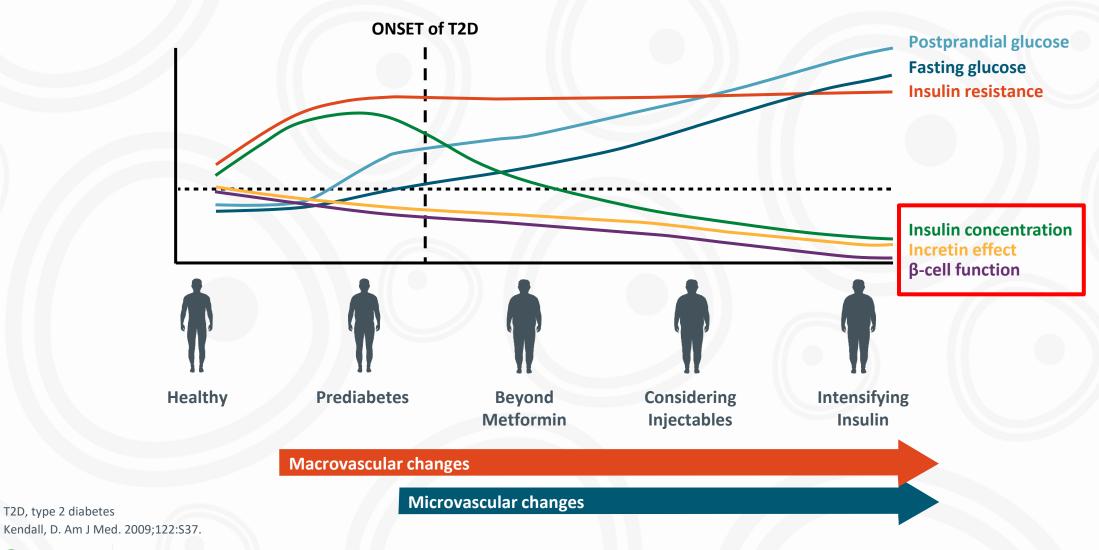
Biomea's Pipeline Expands into 5 Clinical Trials with 2 Novel Agents

Multiple Upcoming Milestones in the Near Term



The Role of Beta Cells in Diabetes

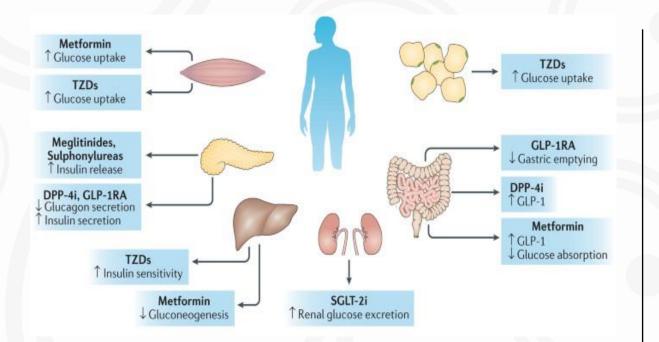
Natural History of Types 2 Diabetes – A Progressive Decline in Beta-Cell Function



T2D, type 2 diabetes

BMF-219 Mechanism of Action

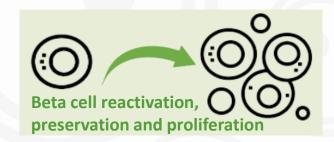
BMF-219 is a Potential First in Class Diabetic Agent – Addressing the Root Cause of Disease



Nat Rev Endocrinol 12, 337–346 (2016). https://doi.org/10.1038/nrendo.2016.51

Currently approved therapies are primarily targeting the **Symptoms of Type 2 Diabetes:** *Hyperglycemia*

BMF-219: Menin Inhibition a Potential New Class of Diabetes Agents



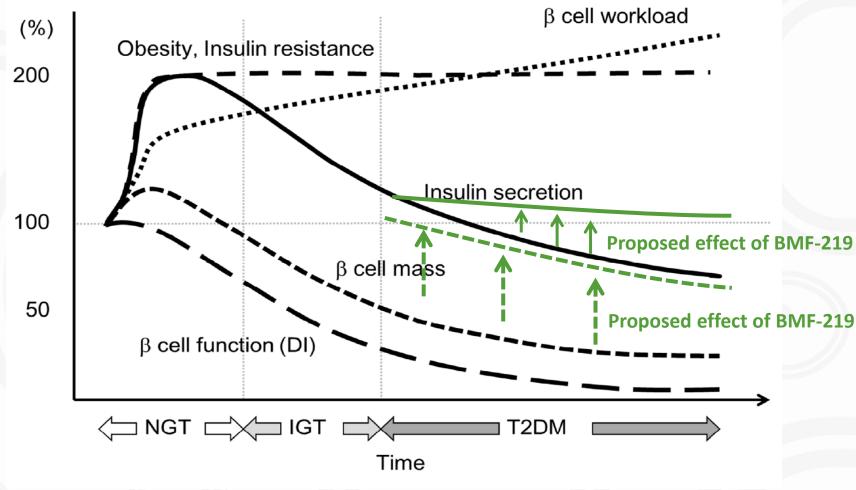
Beta Cell Mass ↑ Beta Cell Health ↑

Control of Glycemia even after Cessation of Dosing

BMF-219 represents a potential new class of diabetes
agents addressing the: Root Cause of Diabetes
Loss of Beta Cell Mass and Function -

BMF-219 – Mechanism of Action

The Goal for BMF-219 is to Improve Glycemic Control without Continuous Medication



BMF-219 is aimed to increase beta-cell mass and function, thereby increase insulin production in order to achieve glycemic control - without the need of continuous medication.

Int. J. Mol. Sci. 2016, 17, 744; doi:10.3390/ijms17050744

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Diabetes – the Biggest Epidemic of the 21st Century

Investigational BMF-219 Has a Unique Potential Value Proposition in Early Clinical Trials

How is BMF-219 Differentiated from Currently Available Diabetes Therapies?

Oral Small Molecule

Complementary Agent to Available Diabetes Therapies

Non-Chronic Dosing Well-Tolerated Safety Profile after First Read Out

Disease Modifying Potential Addressing the Root Cause of Diabetes Continued Glycemic Control even after Cessation of Dosing

Addressable Population may Include All People with Diabetes

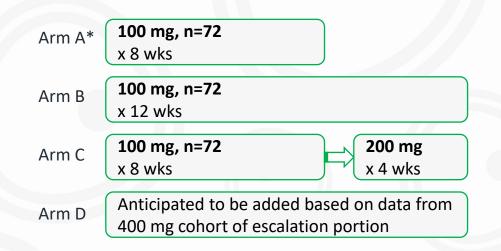


COVALENT-111 Study Design (Type 2 Diabetes)

Additional Dose Levels and Various Dosing Durations Are Being Explored in the Escalation and Expansion Portion of COVALENT-111

Part 1 Dose Escalation, 4 weeks dosing+ 22 weeks	follow up
Healthy Volunteers n=16	
50 mg QD, n=10 x 4 wks	
100 mg QD, n=20 x 4 wks	
200 mg QD / 100 mg BID, n=22 x 4 wks	
200 mg QD, x 2 wks, n=10 400 mg QD x 2 wks	

Part 2 Dose Expansion, n=216 – 288 incl. 12 weeks dosing + 40 weeks follow-up



*Redosing as required at Week 22 for another 4 weeks.

COVALENT-111 (Type 2 Diabetes) Study Oral Presentation WCIRDC - Dec 8, 2023 Case Study 2: 29-year-old man with 4-year history of T2D

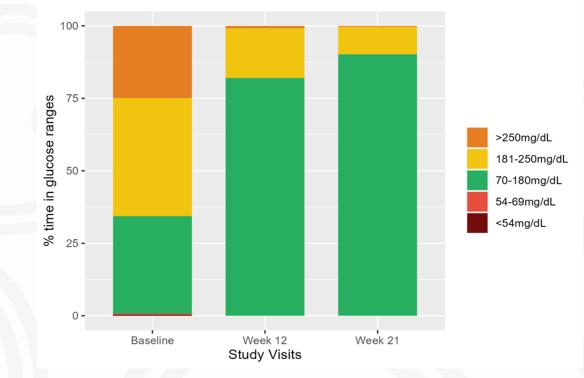
- 29-year-old man with 4-year history of T2D
- Metformin and empagliflozin
- HbA_{1c} 9.5%; FPG 146 mg/dL; BMI 25.6 kg/m²

Change in HbA_{1c} (%)

Period Defined Defi

• BMF-219 200 mg once daily without food for 4 weeks

- CGM at Week 21 with ~90% TIR_{70-180 mg/dL}
- No tolerability issues or related adverse events



Continuous Glucose Monitoring

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COVALENT-111 (Type 2 Diabetes) Study Oral Presentation WCIRDC - Dec 8, 2023

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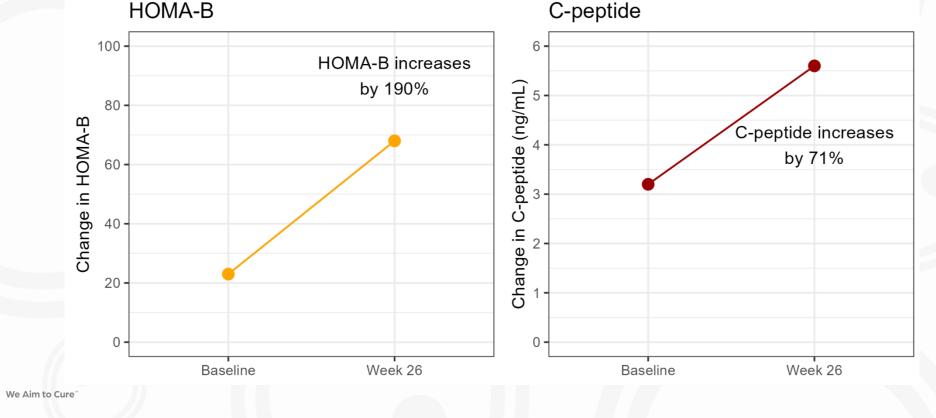
iomea

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Change at Week 26

COVALENT-111 (Type 2 Diabetes) Study Poster Session - March 6, 2024 Summary and Conclusion

- Patients in COVALENT-111 are displaying improved glycemic control while off therapy beyond Week 26 following the 28-day treatment with BMF-219, supporting enhanced beta-cell function as the mechanism of action
- BMF-219 was generally well tolerated with no serious adverse events and no adverse eventrelated study discontinuations, and no symptomatic or clinically significant hypoglycemia
- 100mg and 200mg dose levels have been selected for the first 3 Arms of the Expansion Phase, which will dose patients up to 12 weeks (compared to 4 weeks in the Escalation Phase) and extended follow-up to Week 52

Next Steps:

- The Expansion Phase of COVALENT-111 is currently enrolling on schedule.
- Initial 26-week data expected in 2H24



COVALENT-112 T1D Initial Data Readout – April 1, 2024

BMF-219 Induced C-Peptide Increase in the First Two Type 1 Diabetes Patients

Stage 3 Type 1 Diabetes Patients	Patient 1	Patient 2
Baseline Characteristics	58-year-old, diagnosed with type 1 diabetes 3 years ago	24-year-old, diagnosed with type 1 diabetes 7 years ago
Dose Level	BMF-219 200 mg once-daily	BMF-219 100 mg once-daily
Week 4	 Fasting C-peptide increased by 57% compared to Baseline (study Day 1). During a mixed-meal tolerance test (MMTT) the C-Peptide Index (AUC)¹ increased by 12%. 	 Fasting C-peptide increased by 16% compared to Baseline. During a MMTT the C-peptide Index (AUC)¹ increased by 30% Near-normal glucose response during the MMTT without receiving any meal-time insulin
Week 8	 Fasting C-peptide increased by 80% compared to Baseline. During a MMTT, C-peptide increased up to 200%. The C-Peptide Index (AUC) increased by 40% compared to Baseline 	-
Daily Insulin Usage	Pending	 Reduction in daily insulin usage during the first four weeks of the study
Safety	Well Tolerated	Well Tolerated

Data cutoff date: March 7, 2024

¹C-peptide index is the ratio of serum C-peptide to plasma glucose levels and is used to evaluate beta-cell function

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Next 4 Years BMF-219 in Diabetes

2024	Phase II Expansion Cohorts (n = 216+) initial response with 12 weeks of follow up provided Proof of concept in type 1 diabetes established (n = 40) Pivotal Phase III study in type 1 diabetes initiated
2025	Pivotal Phase III studies in type 2 diabetes initiated
2026	NDA for BMF-219 in type 1 diabetes filed
2027	NDA for BMF-219 in type 2 diabetes filed
•	



THANK YOU

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