

Additional Information and Where to Find It

The takeover offer described in this communication (the "Takeover Offer") has not yet commenced. This communication is neither an offer to purchase nor a solicitation of an offer to sell shares of MorphoSys AG (the "Company"). The final terms and further provisions regarding the Takeover Offer will be in the offer document once the publication of the offer document by Novartis BidCo AG (formerly known as Novartis data42 AG) (the "Bidder") has been approved by the German Federal Financial Supervisory Authority (the "BaFin"), after which the offer document will be filed with the U.S. Securities and Exchange Commission (the "SEC"). A solicitation and an offer to buy shares of the Company will be made only pursuant the offer document. In connection with the Takeover Offer, the Bidder and Novartis AG will file a Tender Offer Statement on Schedule TO with the SEC (together with the offer document, an Offer to Purchase including the means to tender and other related documents, the "Takeover Offer Documents"), the Company's management board and supervisory board will issue a joint reasoned statement in accordance with sec. 27 of the German Securities Acquisition and Takeover Act and the Company will file a Solicitation/Recommendation Statement on Schedule 14D-9 with the SEC (together with the joint reasoned statement, the "Recommendation Statements"). THE COMPANY'S STOCKHOLDERS AND OTHER INVESTORS ARE URGED TO READ THE TAKEOVER OFFER DOCUMENTS AND THE RECOMMENDATION STATEMENTS BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION WHICH SHOULD BE READ CAREFULLY BEFORE ANY DECISION IS MADE WITH RESPECT TO THE TAKEOVER OFFER. The Takeover Offer Documents and the Recommendation Statement on Schedule 14D-9 will be made available for free at the SEC's website at www.sec.gov. Additional copies may be obtained for free by contacting the Bidder or the Company. Free copies of these materials and certain other offering documents will be made available on the Company's website in English at morphosys.com/de/investors/Novartis-TakeoverOf

In addition to the Offer to Purchase, including the means to tender and certain other Takeover Offer Documents, as well as the Solicitation/Recommendation Statement, the Company files other information with the SEC. The Company's filings with the SEC are also available for free to the public from commercial document-retrieval services and at the website maintained by the SEC at www.sec.gov and are also available free of charge under the "SEC Filings" section of the Company's website at www.morphosys.com/en/investors.

In order to reconcile certain areas where German law and U.S. law conflict, Novartis AG and the Bidder expect to request no-action and exemptive relief from the SEC to conduct the Takeover Offer in the manner described in the offer document.

Acceptance of the Takeover Offer by stockholders residing outside Germany and the United States of America may be subject to further legal requirements. With respect to the acceptance of the Takeover Offer outside Germany and the United States, no responsibility is assumed for the compliance with such legal requirements applicable in the respective jurisdiction.



Forward-Looking Statements

This communication contains certain forward-looking statements concerning the Company, the Bidder and the Takeover Offer that involve substantial risks and uncertainties. Forward-looking statements include any statements containing the words "anticipate," "believe," "estimate," "expect," "intend," "goal," "may," "might," "plan," "predict," "seek," "target," "potential," "will," "would," "could," "should," "continue" and similar expressions. In this communication, the Company's forward-looking statements include statements about the parties' ability to satisfy the conditions to the consummation of the Takeover Offer; statements about the expected timetable for the consummation of the Takeover Offer; the Company's plans, objectives, expectations and intentions; and the financial condition, results of operations and business of the Company and Novartis AG.

The forward-looking statements contained in this communication represent the judgment of the Company as of the date of this communication and involve known and unknown risks and uncertainties, which might cause the actual results, financial condition and liquidity, performance or achievements of the Company, or industry results, to be materially different from any historic or future results, financial condition and liquidity, performance or achievements expressed or implied by such forward-looking statements. In addition, even if the Company's results, performance, financial condition and liquidity, and the development of the industry in which it operates are consistent with such forward-looking statements, they may not be predictive of results or developments in future periods. Those risks and uncertainties that could cause the actual results to differ from expectations contemplated by forward-looking statements include, among other things: uncertainties as to the timing of the Takeover Offer; uncertainties as to how many of the Company's stockholders will tender their stock in the Takeover Offer; the possibility that competing offers will be made; the possibility that various conditions for the Takeover Offer may not be satisfied or waived, including that a governmental entity may prohibit, delay or refuse to grant approval for the consummation of the Takeover Offer; the effects of the Takeover Offer on relationships with employees, other business partners or governmental entities; that the Bidder and Novartis AG may not realize the potential benefits of the Takeover Offer; the effects of the Takeover Offer; that the Company's expectations may be incorrect; the inherent uncertainties associated with competitive developments, clinical trial and product development activities and regulatory approval requirements; the Company's reliance on collaborations with third parties; estimating the commercial potential of the Company's development programs; and other risks indicated in the risk factors included in the Com



Strategic Oncology Focus with Strong Financial Position

On February 5, 2024, MorphoSys entered into a Business Combination Agreement to be acquired by Novartis to advance its pipeline at greater speed and scale

OUR AMBITION

Redefine How Cancer is Treated

PELABRESIB

Become new standard of care in myelofibrosis as combination therapy; expand into other myeloid diseases

TULMIMETOSTAT

Advance investigations in solid tumors and lymphomas

CASH AVAILABLE APPROXIMATELY UNTIL EARLY 2026*

Pelabresib and tulmimetostat are investigational medicines and have not yet been evaluated or approved by regulatory authorities.

The development of pelabresib was funded in part by The Leukemia and Lymphoma Society®.



^{*}On a standalone basis and including convertible debt repayment

World-Class Team Of Experts Driven to Redefine Cancer Care



524Employees in the U.S. & Germany



60%
Percentage of Female Employees



40%
Percentage of Male Employees

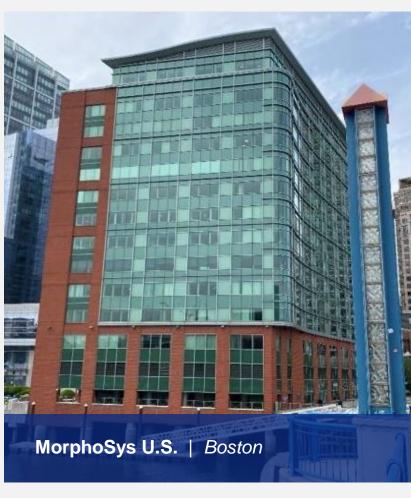


41%
Leadership Positions Held by Women



37
Nationalities Represented

MorphoSys Headquarters | *Munich*

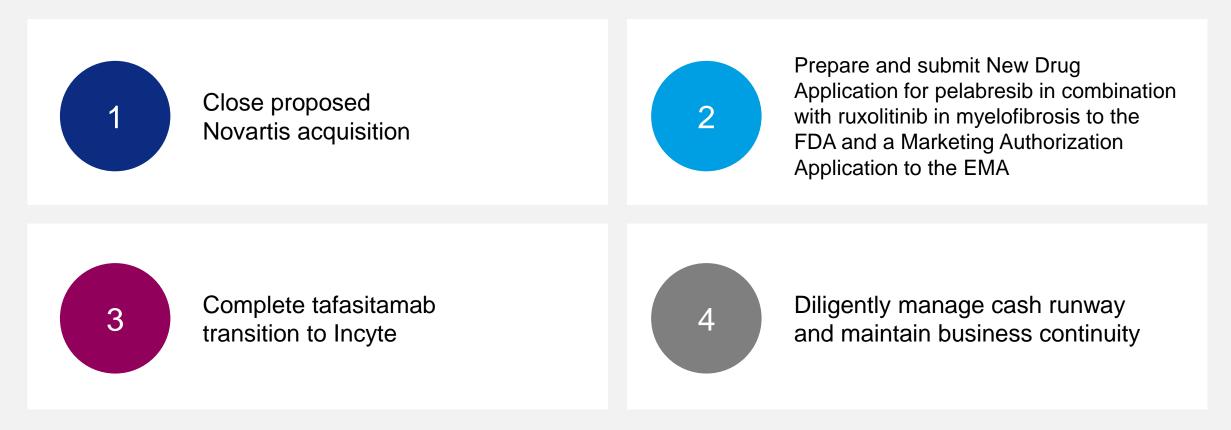


As of December 31, 2023



Key 2024 Priorities

MorphoSys and Novartis will continue to act as two separate companies, business as usual through expected close in first half of 2024



FDA, Food and Drug Administration; EMA, European Medicines Agency





O1 Transactions with Novartis and Incyte

Entered into Business Combination Agreement to be acquired by Novartis for € 68.00 per share in cash or € 2.7 billion equity value

Sold all tafasitamab rights worldwide to Incyte

Novartis and Incyte Agreements in Best Interest of MorphoSys, Shareholders and Cancer Patients

Following thorough review of strategic options, MorphoSys' Management Board and Supervisory Board unanimously approved both agreements



Provides Attractive,
Immediate and Certain
Value Creation for
Shareholders



Accelerates Potential of Pelabresib on Global Scale Under Novartis



Allows for Future, Independent Growth of Tafasitamab More Efficiently Under Incyte



Agreements with Novartis and Incyte Expected to Provide Substantial Value to All Stakeholders

The closing of the proposed acquisition by Novartis is currently expected to take place in the first half of 2024

NOVARTIS PUBLIC TAKEOVER OFFER

Provides Attractive Premium for Shareholders

Offer price of € 68.00 per share in cash represents significant premium of 94% to 1M VWAP*

Maximizes Potential of Pelabresib

Novartis has ample resources, additional scientific expertise and global footprint

SALE OF TAFASITAMAB TO INCYTE

Keeps Program with Current Partner

Collaborating with Incyte on tafasitamab program since 2020

Consolidates Program Under One Company

Incyte assumes full responsibility and cover all costs for development and commercialization of tafasitamab worldwide



^{*} VWAP, volume-weighted average price; as of the unaffected January 25, 2024, closing share price

Novartis Public Takeover Offer Provides Attractive, Immediate and Certain Value Creation Opportunity for Shareholders



• € 68 per share in cash



- 89% premium to the unaffected January 25, 2024, closing share price
- 94% premium to 1M VWAP*
- 142% premium to 3M VWAP*



• € 2.7 billion equity value



- Customary closing conditions including regulatory clearances
- Acceptance threshold of 65%
- MorphoSys and Novartis agreed to take MorphoSys private promptly after takeover offer is settled



^{*} VWAP, volume-weighted average price; as of the unaffected January 25, 2024, closing share price



02 Pelabresib

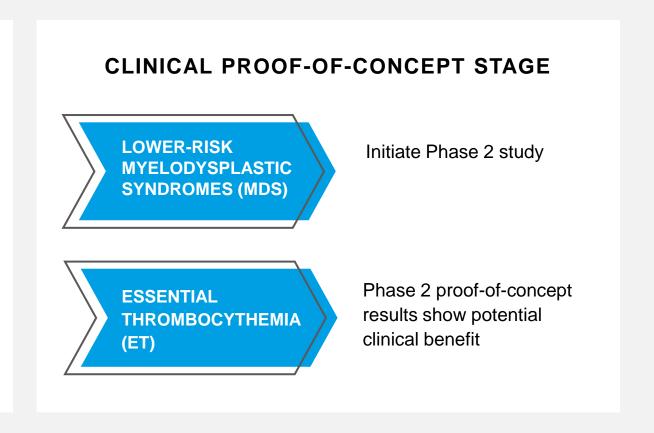
Potential to become new standard of care in myelofibrosis as combination therapy and expand into other myeloid diseases

Pelabresib Focus is First-Line Myelofibrosis, with Expansion into Other Myeloid Diseases

MYELOPROLIFERATIVE NEOPLASMS AND ADJACENCIES

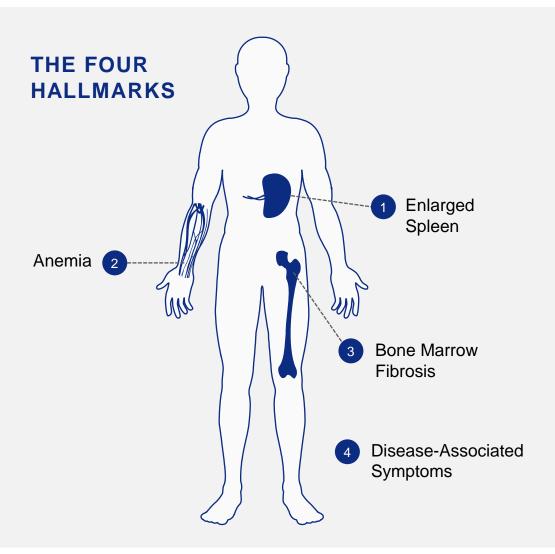
MYELOFIBROSIS

- Pelabresib and ruxolitinib improved all four hallmarks of myelofibrosis in Phase 3 MANIFEST-2 study
- Intend to file for approval in U.S. and Europe in mid-2024





No Approved Myelofibrosis Treatments Address All Four Hallmarks of Disease; New Therapies are Critically Needed



EPIDEMIOLOGY

- ~18,000 patients in the U.S., with 3,200 diagnosed annually
- ~18,000 patients in Europe, with 3,400 diagnosed annually
- ~90% of patients have intermediate- or high-risk disease at diagnosis, with vast majority in intermediate-risk category

MEDIAN OVERALL SURVIVAL*

Intermediate-risk**: ~4 – 14.2 years

High-risk: ~1.5 years

*Measured by Dynamic International Prognostic Scoring System (DIPSS) | **Int-1 and Int-2 Harrison C, et al. Expert Rev Hematol 2013; Al-Ali HK, et al. Haematologica 2016; Panda A, et al. Decision Resources Group 2022; Gangat et al. Journal Clin Onc. 2011.



Cytokine receptor Extracellular Intracellular **JAK JAKi** JAK ruxolitinib pelabresib Aberrant erythroid nucleus and megakaryocytic differentiation TGFβ Increased inflammatory factors NF-kB BCL-2 Bone marrow fibrosis cMyc Cell survival

JAK-STAT Pathway and BET Proteins Are Central to Myelofibrosis Pathology

The combination of BET and JAK inhibition:

- Showed broad suppression of the proinflammatory molecules involved in bone marrow fibrosis in vivo
- Normalized the balance of precursor red blood cells and precursor platelet-forming cells in the bone marrow in vivo

BCL-2, B-cell lymphoma 2; BET, bromodomain and extraterminal domain; CALR, calreticulin; cMyc, cellular Myc oncogene; MPL, Myeloproliferative leukemia virus oncogene; Myc oncogene; JAK, Janus kinase; NF-kB, nuclear factor kappa b; Pol, polymerase; STAT, signal transducer and activator of transcription; TGF, transforming growth factor.

Dysregulation of JAK-STAT pathway and BET proteins lead to the processes implicated in myelofibrosis

Tefferi A, et al. Am J Hematol 2021; Shorstova T, et al. Br J Cancer 2021; Mughal TI, et al. Int J Gen Med 2014; Kleppe M, et al. Cancer Cell 2018; Albrecht BK, et al. J Med Chem 2016; Mascarenhas J, et al. J Clin Oncol 2023; Harrison CN, et al. Future Oncol 2022.

Combining BET inhibition with JAK inhibition represents a potential therapeutic approach in myelofibrosis to change the natural course of the disease



Pelabresib Inhibits BET Proteins, Decreasing the Expression of Genes Related to Blood Cancers

Pelabresib is an investigational oral drug designed to inhibit BET proteins

Helps restore the balance of cells in the bone marrow

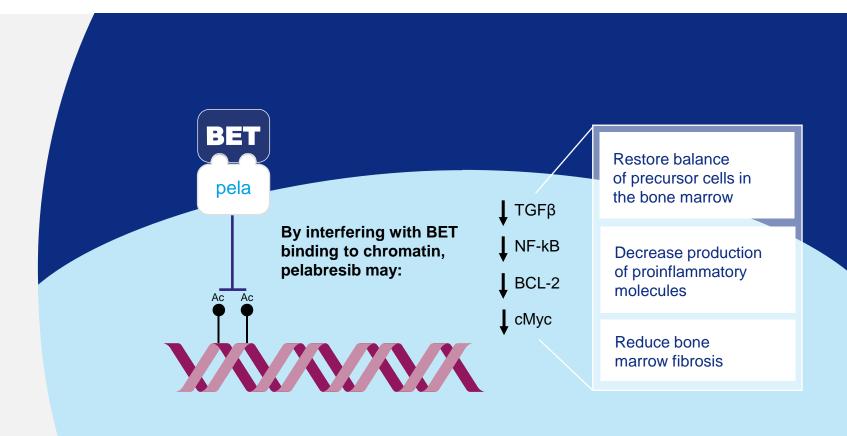
Regulates megakaryocyte (hematopoietic cells responsible for the production of blood platelets) differentiation and proliferation

Reduces proinflammatory signals involved in bone marrow fibrosis

Half-life (~15 hours) allows for once-daily oral dosing

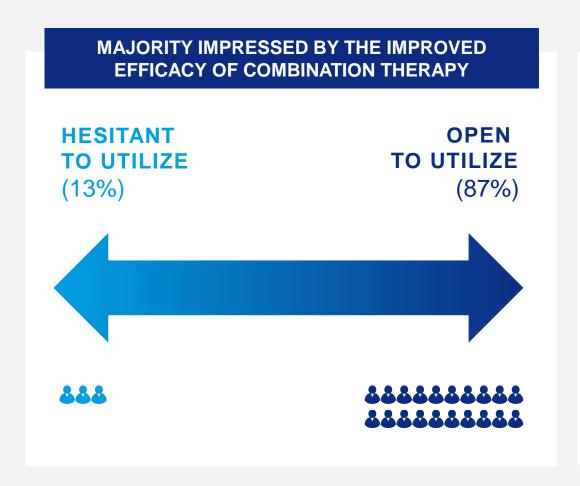
Albrecht BK, et al. J Med Chem 2016; Keller P, et al. Hemasphere 2021; Blum KA, et al. Cancer Research Communications 2022: Shi J. Vakoc CR. Mol Cell 2014.

BCL-2, B-cell lymphoma 2; BET, bromodomain and extraterminal domain; cMyc, cellular Myc oncogene; MF, myelofibrosis; NF-κB, nuclear factor kappa b; Pol, polymerase; TGF, transforming growth factor.





Majority of U.S. Physicians View Combination Therapy as the "Way of the Future" in Myelofibrosis



PELABRESIB RANKED AMONG THE HIGHEST IN TOP ATTRIBUTES DRIVING TREATMENT DECISIONS*

IMPRESSIVE EFFICACY

(Spleen Volume Reduction, Symptom Improvement)

Mentioned by ~85% of HCPs

HEMATOLOGIC FUNCTION

(Transfusion Dependency, Hemoglobin Count, Quality of Life)

Mentioned by ~70% of HCPs

LOW RATES OF HEMATOLOGIC ADVERSE EVENTS

(Anemia, Thrombocythemia, Neutropenia)
Mentioned by ~70% of HCPs

*MF Drivers and Barriers Qualitative Market Research, Aug 2023 | N=23 MF treating US Hem Oncs & Med Oncs; Product attributes rated based on Target Product Profile for pelabresib



Pelabresib and Ruxolitinib Combination Offers Potential to Shift Myelofibrosis Treatment Paradigm

All four myelofibrosis disease hallmarks were improved over placebo plus ruxolitinib in Phase 3 MANIFEST-2 study

KEY FINDINGS

- Significantly reduced spleen size, nearly doubling SVR35 response rate
- Showed a strong positive trend in reducing symptom burden
- Improved measures of anemia
- Improvement in bone marrow fibrosis
- Biomarker reductions suggest disease modification
- Safety results in line with assessments from previous clinical trials
- Fewer grade ≥3 adverse events compared with placebo plus ruxolitinib

NEXT STEPS

Intend to file for approval in the U.S. and Europe mid-2024

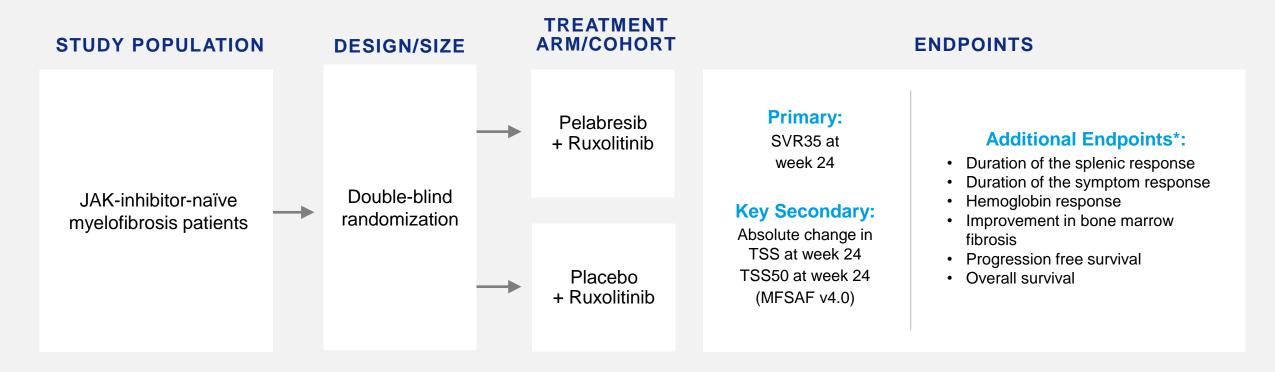
Collect longer-term data, including quality of life and duration of treatment



SVR35, ≥35% reduction in spleen volume Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023

Phase 3 MANIFEST-2 Study: One of the Largest Myelofibrosis Trials Ever Conducted

430 JAK-inhibitor-naïve myelofibrosis patients randomized, representative of the disease population and aligned with NCCN criteria

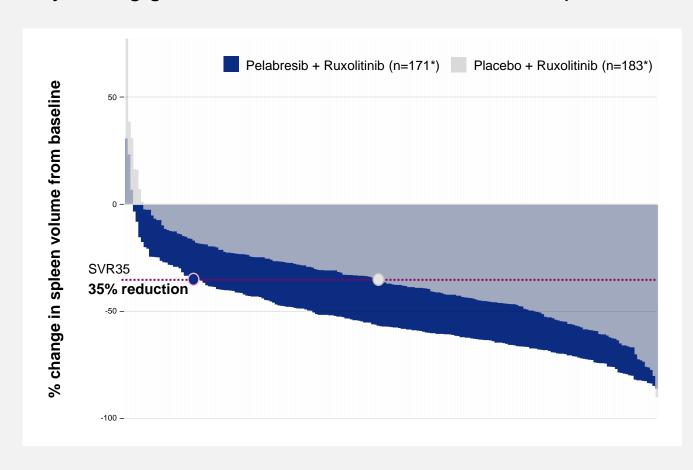


SVR35, ≥35% reduction in spleen volume; TSS50, ≥50% reduction in total symptom score; TSS, total symptom score; MFSAF, Myelofibrosis Symptom Assessment Form; NCCN, National Comprehensive Cancer Network *Only includes sample of additional endpoints being assessed in Phase 3 MANIFEST-2 study



Phase 3 MANIFEST-2: Significantly Reduced Spleen Size at 24 Weeks, Primary Endpoint

Key finding given the known association between spleen volume reduction and patient survival



ITT POPULATION	Pelabresib + Ruxolitinib (N=214)	Placebo + Ruxolitinib (N=216)	p-value
SVR35 at Week 24	65.9%	35.2%	
Difference [†] (95% CI)	30.4 (21.6, 39.3)		<0.001
Mean % change in spleen volume at Week 24 [‡]	-50.6 (n=171) -30.6 (n=183)		
95% CI	-53.2, -48	-33.7, -27.5	

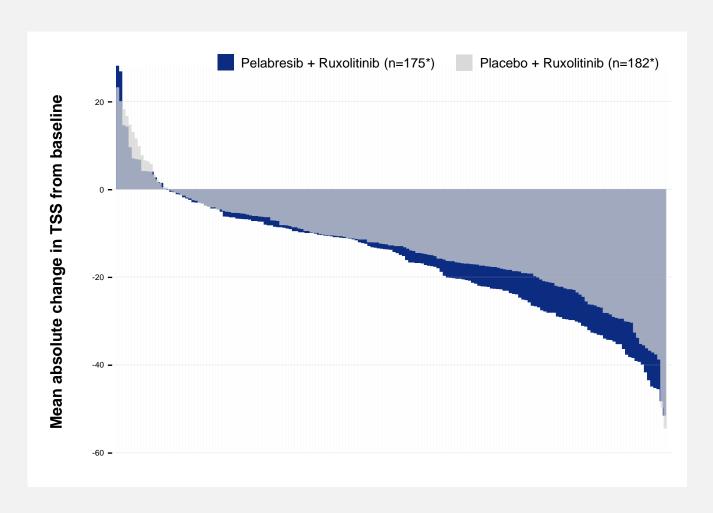
CI, confidence interval; ITT, intent-to-treat; SVR35, ≥35% reduction in spleen volume. Spleen volume assessed by central read.

Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023



^{*}Waterfall plots represent patients who have baseline and Week 24 data. †Calculated by stratified Cochran–Mantel–Haenszel test; ‡Patients without Week 24 assessment are considered non-responders.

Phase 3 MANIFEST-2: Strong Numerical Improvements in Absolute Change in TSS at 24 Weeks, Key Secondary Endpoint



ITT POPULATION	Pelabresib + Ruxolitinib (N=214)	Placebo + Ruxolitinib (N=216)	p-value
TSS change [†] from baseline at Week 24	-15.99 (Mean Baseline: 28.26)	-14.05 (Mean Baseline: 27.36)	
Mean difference [‡] (95% CI)	-1.94 (-3.92, 0.04)		0.0545

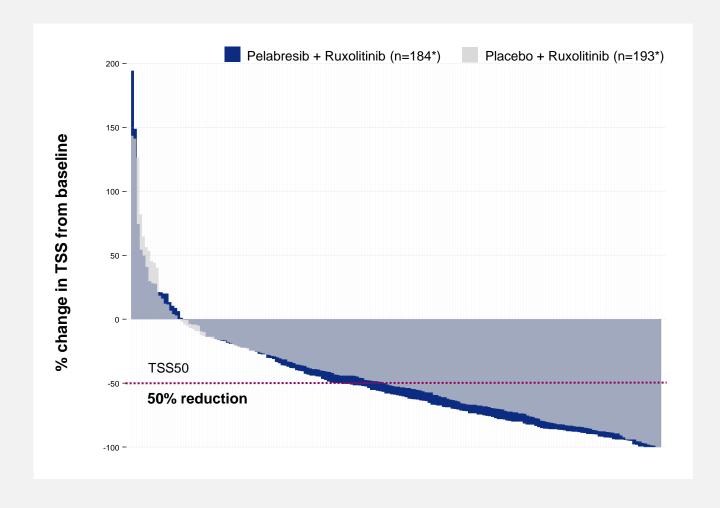
ANCOVA, analysis of covariance; CI, confidence interval; ITT, intent-to-treat; TSS, total symptom score.

*Waterfall plots represent patients who have baseline and Week 24 data. †Change from baseline determined by ANCOVA model using Multiple Imputation. ‡Least square mean difference from ANCOVA model using baseline DIPSS, baseline platelet count and baseline spleen volume as factors, and baseline TSS as covariate.

Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023



Phase 3 MANIFEST-2: Numerically Greater Response Rates in TSS50 at 24 Weeks, Key Secondary Endpoint



ITT POPULATION	Pelabresib + ruxolitinib (N=214)	Placebo + ruxolitinib (N=216)	p-value
TSS50 at Week 24	52.3% 46.3%		
Difference [†] (95% CI)	6.0 (-3.5, 15.5)		0.216

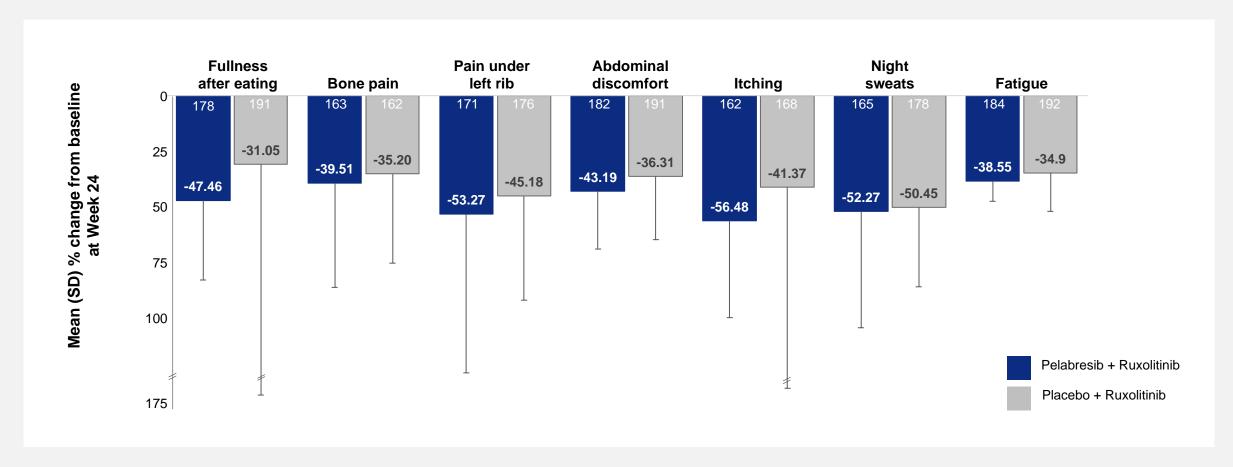
CI, confidence interval; ITT, intent-to-treat; TSS, total symptom score; TSS50, ≥50% reduction in total symptom score. Patients are evaluable for TSS50 at Week 24 if they have had Week 24 TSS assessment by the data cutoff date or discontinued without Week 24 assessment at any time.

*Waterfall plots represent patients who have baseline and Week 24 data. †Difference in treatment groups analyzed by stratified Cochran–Mantel–Haenszel test (weighted 95% CI adjusted across strata).

Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023



Phase 3 MANIFEST-2: Disease-Associated Symptom Benefits Were Observed and Balanced Across all TSS Domains

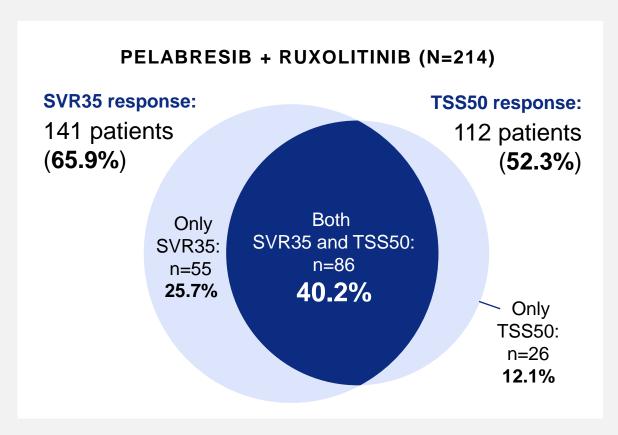


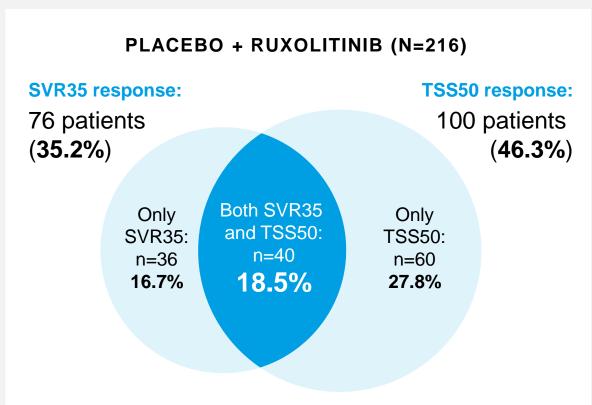
TSS, total symptom score Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023



Phase 3 MANIFEST-2: Twofold Increase in Patients Achieving Both SVR35 and TSS50

Dual SVR35 / TSS50 responders at week 24



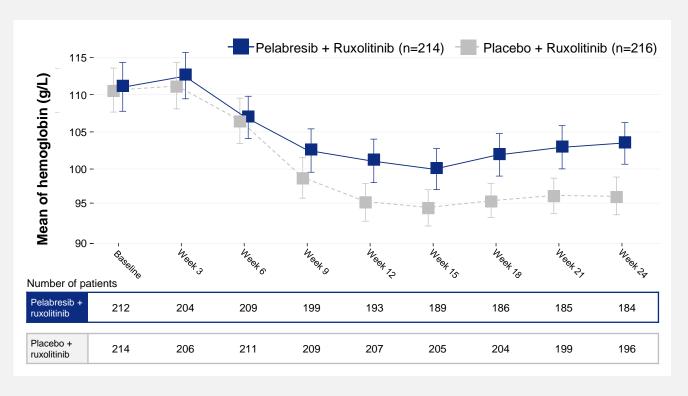


SVR35, ≥35% reduction in spleen volume; TSS50, ≥50% reduction in total symptom score. Diagrams are not drawn to scale. Rampal, R, et.al. ASH 2023. Oral 628. | Data Cut-Off August 31, 2023



Phase 3 MANIFEST-2: Improved Multiple Measures of Anemia

More patients achieved hemoglobin response and fewer patients required transfusions versus placebo plus ruxolitinib



ITT POPULATION	Pelabresib + Ruxolitinib (N=214)	Placebo + Ruxolitinib (N=216)
Hemoglobin response* (95% CI)	9.3% (5.45, 13.25)	5.6% (2.50, 8.61)
Patients requiring RBC transfusion during screening, n (%)	35 (16.4)	25 (11.6)
Patients requiring RBC transfusion during first 24 weeks of study treatment, n (%)	66 (30.8)	89 (41.2)

^{*}Hemoglobin response is defined as a ≥1.5 g/dL mean increase in hemoglobin from baseline in the absence of transfusions during the previous 12 weeks. Baseline hemoglobin defined as the last assessment prior to or on Cycle 1 Day 1, regardless of blood transfusions. A similar effect was observed across DIPSS categories.

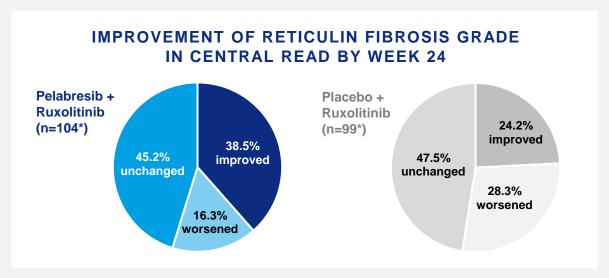
Rampal, R, et.al. ASH 2023. Oral 628. | Preliminary Analyses from Data Cut-Off: August 31, 2023



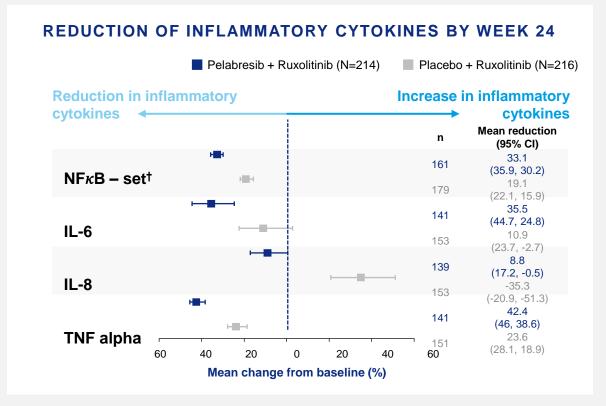
ITT, intent-to-treat; CI, confidence interval; RBC, red blood cell.

Phase 3 MANIFEST-2: Reduction in Bone Marrow Fibrosis and Inflammatory Cytokines

Biomolecular improvements suggest early evidence of a disease-modifying effect



	Pelabresib + Ruxolitinib	Placebo + Ruxolitinib	Odds ratio
Worsened ≥1 grade (%)	16.3	28.3	0.47 (0.23-0.92)
Improved ≥1 grade (%)	38.5	24.2	2.09 (1.14-3.93)



IL-6, interleukin 6; IL-8, interleukin 8; NFκB, Nuclear factor kappa-light-chain-enhancer of activated B cells; TNF, tumor necrosis factor. *n=203 evaluable patients (baseline & C9D1). †NFκB - set includes: B2M, CRP, CD40-L, HEPCIDIN, IL-6, IL-12p40, MIP-1 BETA, MPIF-1, RANTES, TNFR2, TNF alpha, VCAM-1.

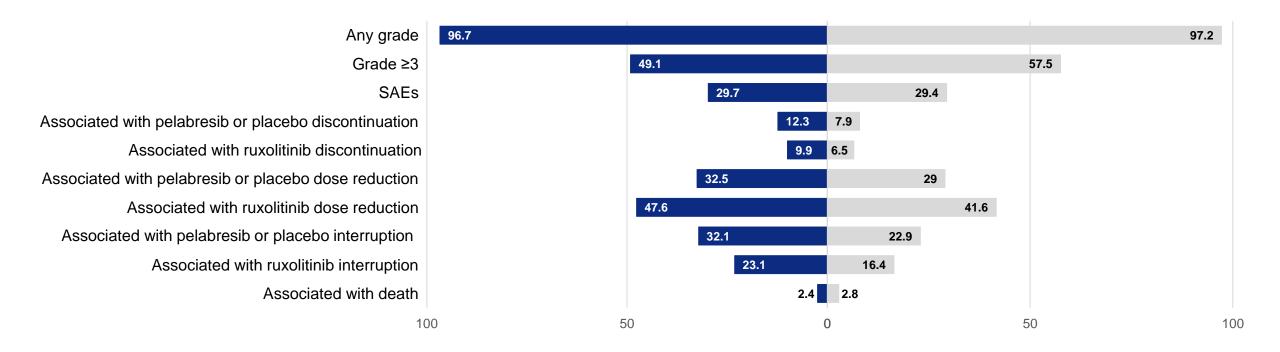
Rampal, R, et.al. ASH 2023. Oral 628. | Preliminary Analyses from Data Cut-Off: August 31, 2023



Phase 3 MANIFEST-2: Pelabresib and Ruxolitinib Combination Safety Results In Line with Assessments from Previous Clinical Trials

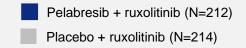
TEAE, %

SAFETY POPULATION*



TEAE, treatment-emergent adverse event; SAE, serious adverse event. *Safety population: received at least one dose of study drug. TEAEs are regardless of relationship to study drug. A TEAE for the double-blinded treatment period is defined as an adverse event that has a start date on or after the first dose of the pelabresib/placebo and before 30 days after the last dose of pelabresib/placebo or before the start of alternative (off-study) treatment for myelofibrosis (MF) whichever occurs first.

Rampal, R, et.al. ASH 2023. Oral 628. | Preliminary Analyses from Data Cut-Off: August 31, 2023

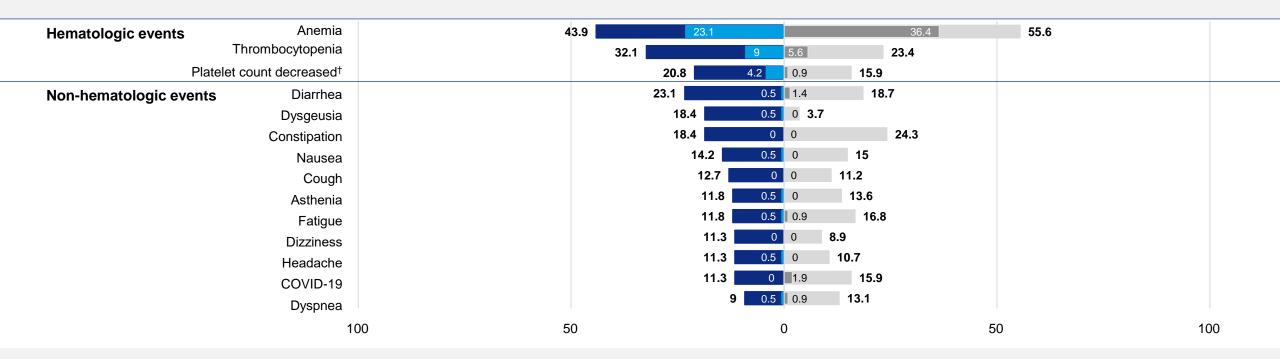




Phase 3 MANIFEST-2: Grade ≥3 Adverse Events Were Less Frequent with Pelabresib and Ruxolitinib Combination

TEAES OF ALL GRADES THAT OCCURRED IN ≥10% OF PATIENTS

SAFETY POPULATION*



COVID-19, coronavirus disease 2019; TEAE, treatment-emergent adverse event.

^{*}Safety population: received at least one dose of study drug. †Platelet count decreased was classified under the system organ class of investigation. TEAEs are regardless of relationship to study drug. A TEAE for the double-blinded treatment period is defined as an adverse event that has a start date on or after the first dose of the pelabresib/placebo and before 30 days after the last dose of pelabresib/placebo or before the start of alternative (off-study) treatment for myelofibrosis (MF), whichever occurs first. Rampal, R, et.al. ASH 2023. Oral 628. | Preliminary Analyses from Data Cut-Off: August 31, 2023





Phase 3 MANIFEST-2 Study Outcome Reinforced by Robust, Long-Term Phase 2 MANIFEST Results

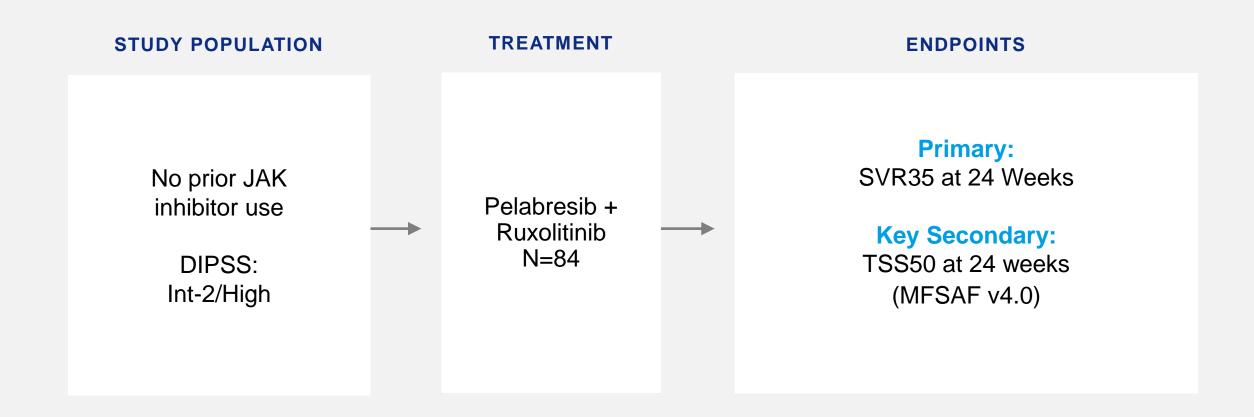
Phase 2 MANIFEST Study: Ongoing, global, open-label investigation of pelabresib in myelofibrosis and essential thrombocythemia

	STUDY POPULATION	TREATMENT		PRIMARY ENDPOINT	SECONDARY ENDPOINTS
ARM 1	Second-Line Myelofibrosis ARM 1 No longer on ruxolitinib	Pelabresib	Pelabresib TD (1A)	$TD \rightarrow TI$	SVR35, TSS50
AIXIVI	Refractory or intolerant or ineligible	monotherapy	Non-TD (1B)	SVR35	TSS50
ADM 0	Second-Line Myelofibrosis	Pelabresib +	TD (2A)	$TD \rightarrow TI$	SVR35, TSS50
ARM 2	 'Add on' to ruxolitinib Suboptimal response or MF progression	Ruxolitinib	Non-TD (2B)	SVR35	TSS50
ARM 3	First-Line Myelofibrosis No prior JAKi use DIPSS: Int-2/High	Pelabresib + Ruxolitinib		SVR35	TSS50
ARM 4	Essential Thrombocythemia High-risk disease Resistant or intolerant to HU	Pelabresib monotherapy		CHR	TSS50

CHR, complete hematologic response; DIPSS, Dynamic International Prognostic Scoring System; HU, hydroxyurea; Int-2, intermediate-2; JAKi, Janus kinase inhibitor; SVR35, ≥35% reduction in spleen volume at Week 24; TD, transfusion dependent; TI, transfusion independent; TSS50, ≥50% reduction in total symptom score at Week 24. Harrison C, et al. EHA 2023. Abstract P1027. | Data Cut-Off July 29, 2022



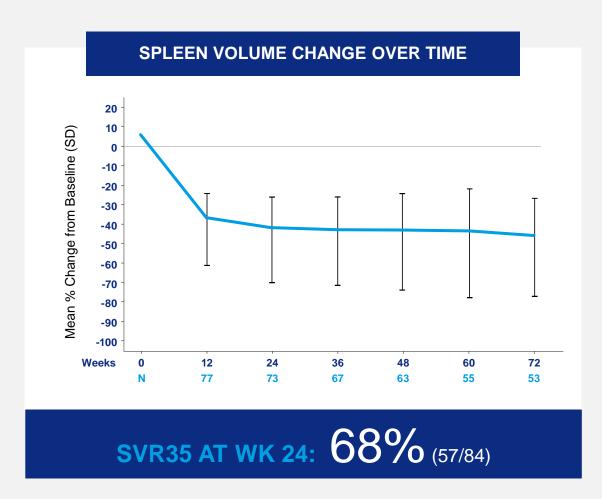
Phase 2 MANIFEST Arm 3: Pelabresib and Ruxolitinib in JAK Inhibitor-Naïve Patients with Myelofibrosis

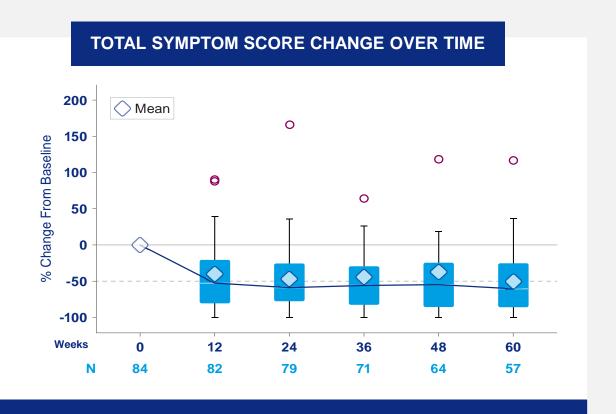


DIPSS, Dynamic International Prognostic Scoring System; Int-2, intermediate-2; SVR35, ≥35% reduction in spleen volume; TSS50, ≥50% reduction in total symptom score; MFSAF, Myelofibrosis Symptom Assessment Form Harrison C, et al. EHA 2023. Abstract P1027. | Data Cut-Off July 29, 2022



Phase 2 MANIFEST Arm 3: Pelabresib and Ruxolitinib Offers Deep and Durable Improvements in Spleen Volume and Disease-Associated Symptoms



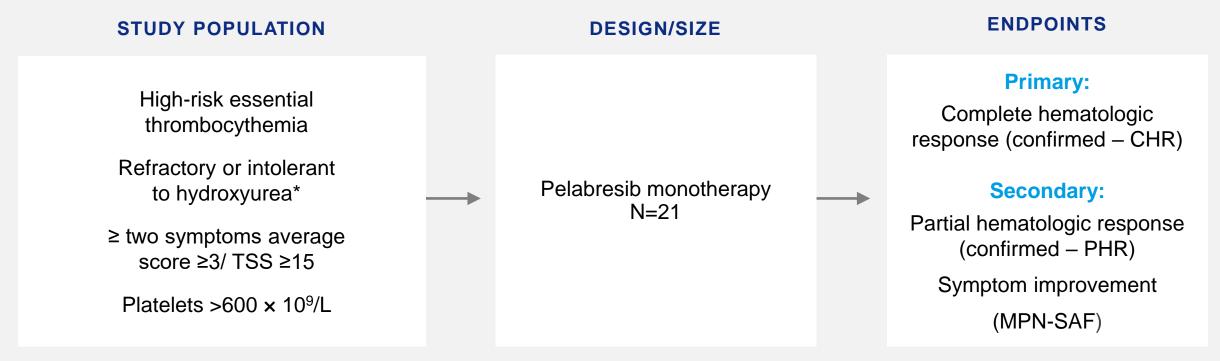


TSS50 AT WK 24: 56% (46/82)

Harrison C, et al. EHA 2023. Abstract P1027. | Data Cut-Off July 29, 2022

Phase 2 MANIFEST Arm 4: Pelabresib Monotherapy in Patients with High-Risk Essential Thrombocythemia

Data underscore potential clinical benefit of pelabresib in myeloid diseases beyond myelofibrosis



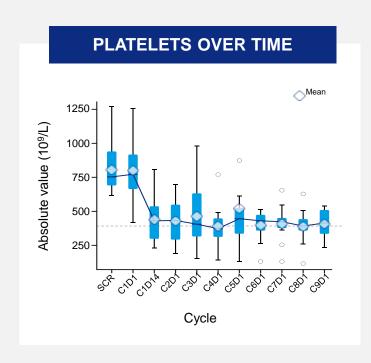
Complete Hematologic Response (CHR): Normal platelet and white blood cell count with these labs confirmed after 3 weeks, and a normal spleen size Partial Hematologic Response (PHR): Platelets 400 – 600 and normal white blood cell count with these labs confirmed after 3 weeks
Hematologic Response is confirmed, when conditions are met in two consecutive cycles; unconfirmed, when conditions are met in one cycle but not in the next cycle MPN-SAF, Myeloproliferative Neoplasm Symptom Assessment Form; TSS, total symptom score
Passamonti F, et al. EHA 2023, S168

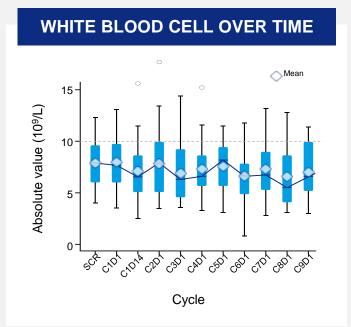


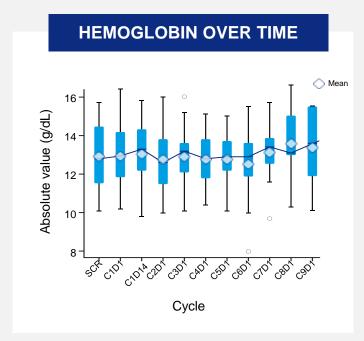
^{*}Refractory or intolerant criteria, as per Barosi, et al. 2007.

Phase 2 MANIFEST Arm 4: 60% of Essential Thrombocythemia Patients Had Confirmed Complete or Partial Hematologic Response at Any Time

Pelabresib monotherapy normalized platelet count over time without causing anemia or thrombocytopenia









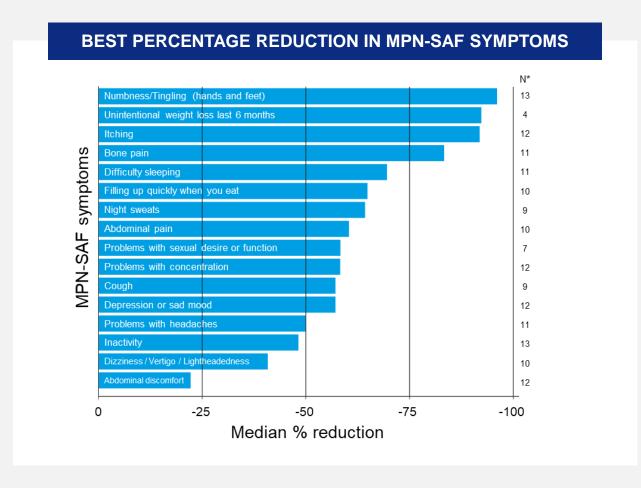
CHR or PHR (Unconfirmed)
90%
(18/20)

The most common nonhematologic adverse events were nausea, diarrhea and dysgeusia. Hemorrhagic or thromboembolic events were reported in 30% of patients. No grade 4 events or higher were reported.

Complete Hematologic Response (CHR): Normal platelet and white blood cell count with these labs confirmed after 3 weeks, and a normal spleen size Partial Hematologic Response (PHR): Platelets 400 – 600 and normal white blood cell count with these labs confirmed after 3 weeks Passamonti F, et al. EHA 2023. Abstract S168. | Data Cut-Off July 29, 2022



Phase 2 MANIFEST Arm 4: Symptom Reduction in Essential Thrombocythemia Patients Observed Across All MPN-SAF Domains



Passamonti F, et al. EHA 2023. Abstract S168. | Data Cut-Off July 29, 2022

One-half of patients had ≥50% reduction in total symptom score from baseline at any time

N=14*	MPN-SAF SYMPTOMS
TSS50 at any time	50% (7/14)
Median % TSS reduction at Week 12	-31%

^{*}Patients with non-missing and nonzero baseline symptom score.

MPN-SAF, Myeloproliferative Neoplasm Symptom Assessment Form

Fever not depicted in the figure due to zero baseline.



TSS, total symptom score assessed based on MPN-SAF; TSS50, ≥50% reduction in total symptom score from baseline.

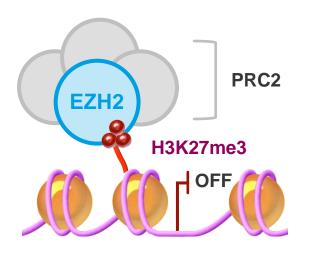


03 Tulmimetostat

Demonstrate potential in broad array of advanced solid tumors and lymphomas

EZH2 Has a Broad Role in Tumor Biology

POLYCOMB REPRESSIVE COMPLEX 2 (PRC2)



EZH2 trimethylates histone H3 at lysine 27 (H3K27me3) and suppresses transcription

BROAD IMPLICATIONS IN CANCER



Activating mutations



Oncogenic driver synergy



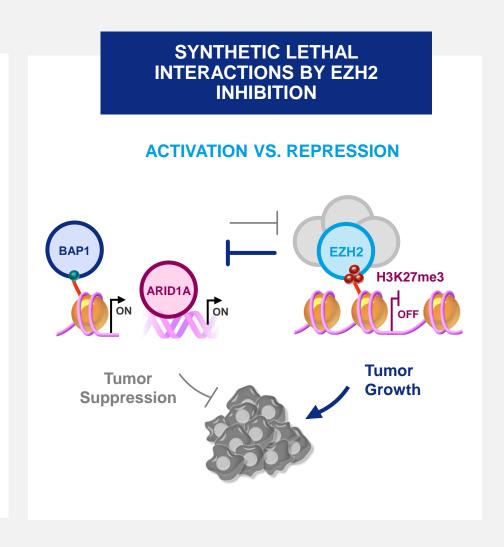
Synthetic lethal relationships



Drug resistance



Tumor immunity



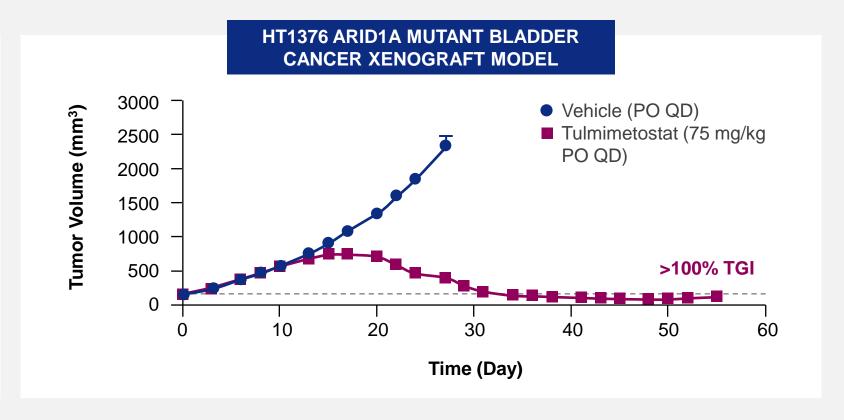


Tulmimetostat is a Next-Generation Dual EZH2/EZH1 Inhibitor Offering Potential First- and Best-in-Class Opportunities

TULMIMETOSTAT VS. 1ST GEN EZH2I



- Increased potency
- Longer residence time
- No evidence of reduced exposure due to induced metabolism
- Enhanced physicochemical properties

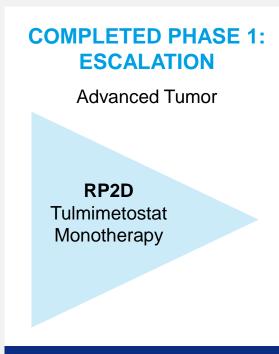


EED, embryonic ectoderm development protein; EZH2, enhancer of zeste homolog 2; PO, per os (by mouth, oral); QD, quaque die (once daily); ARID1A, AT-rich interacting domain containing protein 1A Lakhani N. et al. ASCO 2021, Abstract 3104.

Tulmimetostat showed superior tumor reduction compared with the vehicle in several in vivo tumor models



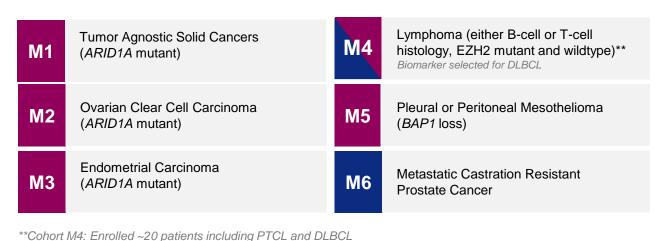
Phase 1/2 Study Investigating Tulmimetostat Monotherapy in Heavily Pretreated Patients with Advanced Cancers



Partial responses in unselected heavily pre-treated patients with mesothelioma and endometrial cancer



Disease-Specific Cohorts



Biomarker selected cohort

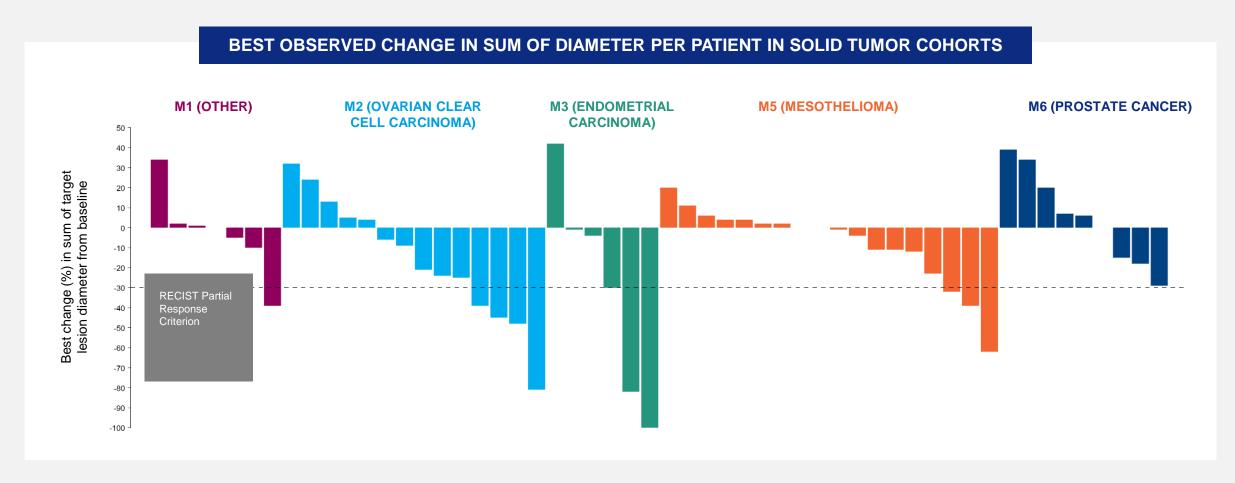
Not biomarker defined

Phase 2 includes heavily pre-treated patients and, in several cohorts, pre-selected patients based on potentially relevant biomarkers

EZH2, enhancer of zeste homolog 2; ARID1A, AT-rich interacting domain containing protein 1A; RP2D, recommended Phase 2 dose, PTCL, peripheral T-cell lymphoma; DLBCL, diffuse large B-cell lymphoma Lakhani N, et al. ASCO 2021. Abstract 3104.



Tulmimetostat Shows Tumor Reduction and Disease Stabilization Across All Solid Tumor Cohorts

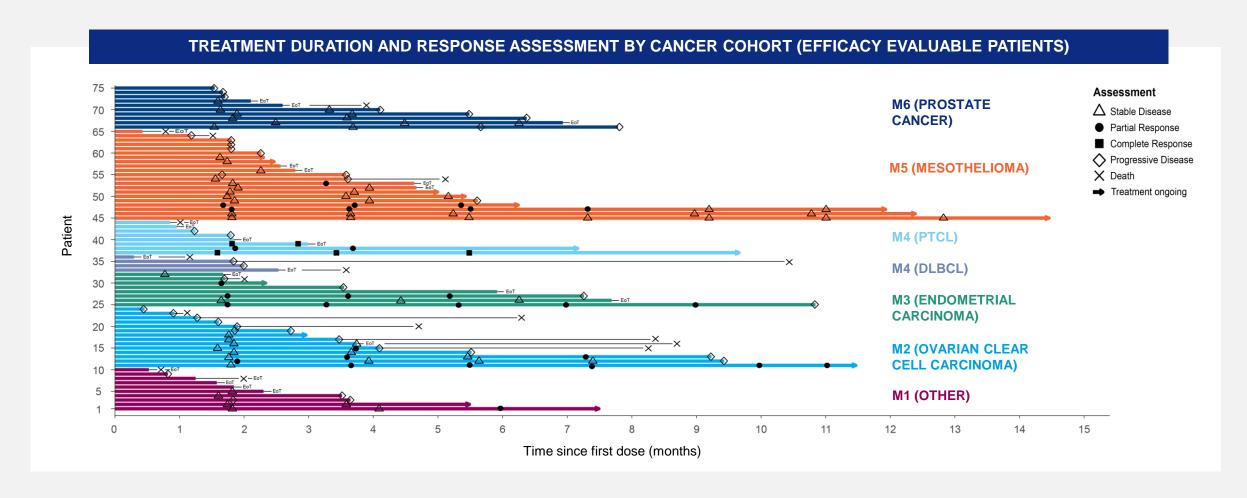


RECIST, Response Evaluation Criteria in Solid Tumors

Drescher C, et al. ASCO 2023. Abstract 3094. | Data Cut-Off February 14, 2023



Tulmimetostat Demonstrates Anti-Tumor Activity Across All Indications Investigated



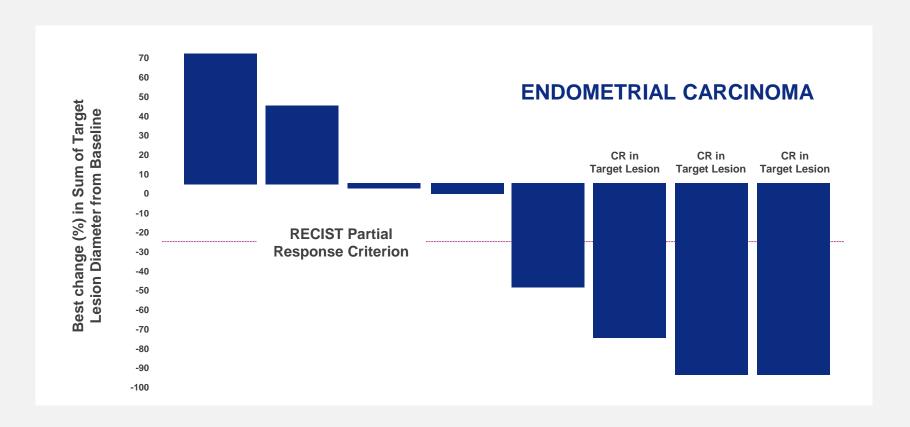
PTCL, peripheral T-cell lymphoma; DLBCL, diffuse large B-cell lymphoma Drescher C, et al. ASCO 2023. Abstract 3094. | Data Cut-Off February 14, 2023



FDA Grants Fast Track Designation for Tulmimetostat in Endometrial Cancer

Tulmimetostat and pelabresib have both received Fast Track designations from the FDA

Fast Track designation granted for the treatment of patients with advanced, recurrent or metastatic endometrial cancer harboring *ARID1A* mutations and who have progressed on at least one prior line of treatment



RECIST, Response Evaluation Criteria in Solid Tumors; CR, complete response; ARID1A, AT-rich interacting domain containing protein 1A



Tulmimetostat Safety Profile Appears Manageable for Heavily Pretreated Patients with Advanced Cancer

MOST FREQUENTLY REPORTED TREATMENT-EMERGENT ADVERSE EVENTS (TEAES)*

Preferred Term	Any Grade	Grade ≥3
Thrombocytopenia	41 (50.6)	20 (24.7)
Diarrhea	37 (45.7)	9 (11.1)
Anemia	29 (35.8)	12 (14.8)
Nausea	27 (33.3)	1 (1.2)
Fatigue	26 (32.1)	0
Alopecia	22 (27.2)	1 (1.2)
Dysgeusia	20 (24.7)	0
Vomiting	18 (22.2)	1 (1.2)
Decreased appetite	12 (14.8)	1 (1.2)
Neutropenia	13 (16.0)	11 (13.6)
Weight decreased	10 (12.3)	0
weight decreased	10 (12.3)	0

The majority of the most frequently reported TEAEs were Grade 1 or 2

Safety profile is consistent with the mechanism of action of EZH2 inhibition



^{*}Occurring in ≥10% of patients. Data are N (%) patients in the safety analysis set Drescher C, et al. ASCO 2023. Abstract 3094. | Data Cut-Off February 14, 2023



04 Partner Programs

Offering potential upside and options for non-dilutive financing

Mid-to-Late-Stage Partner Programs Progressing Well, Offering Potential Upside and Options for Non-Dilutive Financing

	PARTNER	DISEASE AREA	STATUS
IANALUMAB	Novartis	Sjögren's disease Lupus Nephritis Other autoimmune diseases	Several ongoing Phase 3 studies
ABELACIMAB	Anthos Therapeutics	Venous Thromboembolism Prevention	Three ongoing Phase 3 studies
SETRUSUMAB	Ultragenyx and Mereo BioPharma	Osteogenesis Imperfecta	Pivotal ongoing Phase 2/3 study
BIMAGRUMAB	Lilly	Adult Obesity	Ongoing Phase 2b study
FELZARTAMAB	HI-Bio and I-Mab Biopharma	Multiple Myeloma Autoimmune Indications (PMN, IgAN)	Ongoing clinical development

PMN: primary membranous nephropathy; IgAN: immunoglobulin a nephropathy





05 Summary

MorphoSys is Well-Positioned for Innovation in Oncology

PROPOSED ACQUISITION BY NOVARTIS

EXPECTED TO CLOSE IN FIRST HALF OF 2024

Provides attractive, immediate and certain cash value to shareholders

Maximizes and accelerates potential of pelabresib on global scale

PELABRESIB

Pelabresib and ruxolitinib improved all four hallmarks of myelofibrosis in MANIFEST-2

Intend to file for approval in first-line myelofibrosis in U.S. and Europe in mid-2024

Approval offers multi-billion-dollar market opportunity

Strong evidence of potential clinical benefit in other myeloid diseases

TULMIMETOSTAT

Potential best- and first-in-class opportunities in array of advanced cancers

Promising Phase 2 data, deep and durable responses in heavily pre-treated patients with solid tumors or lymphomas

FDA Fast Track designation in ARID1Amutated endometrial cancer*

FINANCIALS

€ 680.5 million in cash and other financial assets as of December 31, 2023

Raised € 102.7 million in gross funding in December 2023

Cash available approximately until early 2026**

DLBCL: diffuse large B-cell lymphoma; r/r: relapsed/refractory; FL / MZL: follicular lymphoma or marginal zone lymphoma; ARID1A, AT-rich interacting domain containing protein 1A *Patients with advanced, recurrent or metastatic endometrial cancer harboring ARID1A mutations and who have progressed on at least one prior line of treatment **On a standalone basis and including convertible debt repayment





Thank you!

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