### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): March 14, 2024

## MONTE ROSA THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-40522 (Commission File Number) 84-3766197 (I.R.S. Employer Identification No.)

321 Harrison Avenue, Suite 900 Boston, MA 02118

(Address of principal executive offices, including zip code) (617) 949-2643

(Registrant's telephone number, including area code)

Not Applicable

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	GLUE	The Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company ⊠

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

#### Item 2.02. Results of Operations and Financial Condition

On March 14, 2024, Monte Rosa Therapeutics, Inc. (the "Company") announced its financial results for the quarter and year ended December 31, 2023. The full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

### Item 7.01. Regulation FD Disclosure

On March 14, 2024, the Company issued a corporate presentation that it intends to utilize in various meetings with securities analysts, investors and others. A copy of the corporate presentation is furnished as Exhibit 99.2 to this Current Report on Form 8-K.

The information under Item 2.02 and Item 7.01 in this Current Report on Form 8-K (including Exhibit 99.1 and Exhibit 99.2) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

#### Item 9.01. Financial Statements and Exhibits

(d) Exhibits

99.1 Press Release issued by Monte Rosa Therapeutics, Inc. dated March 14, 2024.

99.2 <u>Corporate Presentation furnished by Monte Rosa Therapeutics, Inc. on March 14, 2024.</u>

104 Cover Page Interactive Data File (embedded within the Inline XBRL document).

### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: March 14, 2024

Monte Rosa Therapeutics, Inc.

By: /s/ Markus Warmuth

Markus Warmuth President and Chief Executive Officer



### Monte Rosa Therapeutics Announces Fourth Quarter and Full Year 2023 Financial Results and Provides Corporate Update

MRT-2359, a molecular glue degrader (MGD) being developed for MYC-driven solid tumors, advancing in ongoing Phase 1/2 clinical trial; program on track with determination of recommended Phase 2 dose expected in Q2 2024

MRT-6160, a VAV1-directed MGD designed to treat systemic and neurological autoimmune diseases, progressing toward expected IND submission in Q2 2024 and initiation of Phase 1 SAD/MAD study mid-year

MRT-8102 nominated as first development candidate for NEK7 program, targeting diseases driven by IL-1b and the NLRP3 inflammasome; IND submission expected in Q1 2025

Entered into strategic discovery collaboration with Roche, further expanding potential applications of QuEEN™ discovery engine

Strong cash position expected to fund operations into H1 2026 and enable advancement of MRT-2359, MRT-6160, and MRT-8102 programs through clinical milestones

**BOSTON, Mass., March 14, 2024** – Monte Rosa Therapeutics, Inc. (Nasdaq: GLUE), a clinical-stage biotechnology company developing novel molecular glue degrader (MGD)-based medicines, today reported business highlights and financial results for the full year and fourth quarter ended December 31, 2023.

"We made excellent pipeline and corporate progress during 2023 and early 2024, highlighted by the encouraging initial clinical results reported from our MRT-2359 Phase 1/2 study in October. We also continued to advance our VAV1-directed MGD, MRT-6160, for autoimmune diseases toward the clinic, and we progressed MRT-8102, a NEK7-directed MGD targeting IL-1b and the NLRP3 inflammasome, into IND-enabling studies. We are excited about the broad potential of MRT-2359 in MYC-driven cancers, as well as the opportunity that exists with both the VAV1 and NEK7 programs to address pathways of emerging clinical significance in systemic and neurological autoimmune and inflammatory diseases," said Markus Warmuth, M.D., Chief Executive Officer of Monte Rosa Therapeutics. "In addition, we entered into a strategic research collaboration with Roche to enable broader application of our technology. All combined, the terrific progress we made in the last 12 month highlights the uniqueness and differentiation of our approach and the strength of our ML/Aldriven QuEEN<sup>™</sup> discovery engine. We look forward to building on that success with continued pipeline execution across multiple programs targeting substantial patient populations, and our anticipated cash runway into the first half of 2026 positions us well to do so."

### 2023 AND RECENT HIGHLIGHTS

In October 2023, Monte Rosa announced interim clinical data from the Phase 1 dose escalation part of the ongoing Phase 1/2 clinical trial of MRT-2359
in MYC-driven solid tumors demonstrating tumor size reductions in heavily pretreated patients with biomarker-positive cancers and favorable
pharmacokinetic (PK), pharmacodynamic (PD), and tolerability profiles. Enrollment is ongoing in backfill cohorts at clinically active doses using a 5-dayson-drug, 9-days-off-drug schedule and in dose escalation cohorts using a 21-days-on, 7-days-off-drug schedule. The Company anticipates determining



the recommended Phase 2 dose in Q2 2024, reporting updated Phase 1 study results thereafter, and initiating the Phase 2 portion of the study before year-end.

- In December 2023, Monte Rosa received U.S. Food & Drug Administration (FDA) Fast Track Designation for MRT-2359 for the treatment of patients with
  previously treated, metastatic small cell lung cancer (SCLC) with L-MYC or N-MYC expression. MRT-2359 previously received Fast Track designation from
  the FDA for the treatment of patients with previously treated, metastatic NSCLC with L-MYC or N-MYC expression.
- MRT-6160, a VAV1-targeting MGD designed to treat multiple systemic and neurological immunological and inflammatory diseases, is on track towards an anticipated Investigational New Drug (IND) application filing with the FDA in Q2 2024, and a Phase 1 single ascending dose/multiple ascending dose (SAD/MAD) study initiation in healthy volunteers in midyear 2024. The Company recently completed preclinical GLP toxicology studies in rats and nonhuman primates, demonstrating a highly favorable profile with no significant changes in peripheral immunophenotyping assessments.
- Monte Rosa recently announced the nomination of MRT-8102 as the first development candidate for its NEK7 program, targeting diseases driven by IL-1b and the NLRP3 inflammasome. MRT-8102 is an orally bioavailable MGD that has shown potent, selective, and durable degradation of NEK7 and near-complete reduction of IL-1b in a non-human primate model following *ex vivo* stimulation of whole blood. IND-enabling studies are ongoing, and an IND submission is anticipated in Q1 2025. The Company is also advancing other differentiated NEK7-directed MGDs.
- In October 2023, Monte Rosa entered into a strategic collaboration and licensing agreement with global healthcare leader Roche to discover and develop MGDs against targets in cancer and neurological diseases. Under the terms of the agreement, Monte Rosa Therapeutics received an upfront payment of \$50 million and is eligible to receive future preclinical, clinical, commercial, and sales milestone payments that could exceed \$2 billion, as well as tiered royalties. Roche has the option to expand the collaboration with an additional set of targets. If exercised, Monte Rosa would be eligible for an additional upfront payment of up to \$28 million and potential preclinical, clinical, commercial, and sales milestones exceeding \$1 billion, as well as tiered royalties.
- Edmund Dunn was recently promoted to Principal Accounting Officer. Edmund has more than 25 years of experience as a finance professional and has been with Monte Rosa since March of 2021. Andrew Funderburk was recently appointed as Senior Vice President, Head of Investor Relations and Strategic Finance. He was previously Managing Director at Kendall Investor Relations, LLC, and Managing Director and Partner at the healthcare and life sciences consulting firm Health Advances.

### ANTICIPATED UPCOMING MILESTONES

- Announce the recommended Phase 2 dose for the MRT-2359 Phase 1/2 study in Q2 2024 and report updated Phase 1 clinical results thereafter. Initiate the Phase 2 portion of the study before year-end. The Company is exploring Phase 2 expansion cohorts in high-prevalence c-MYC-driven tumors such as hormone receptor-positive breast cancer and prostate cancer, as well as tumor types and patient populations driven by L- and N-MYC including NSCLC, SCLC, and solid tumors with amplifications of L- and N-MYC.
- Submit an IND application for MRT-6160 in Q2 2024 and initiate a Phase 1 SAD/MAD study in healthy volunteers in mid-2024. Monte Rosa expects to subsequently initiate proof-of-concept studies in autoimmune diseases spanning gastroenterology, dermatology, rheumatology, and neurology indications.



- Submit an IND application for MRT-8102 in Q1 2025.
- Nominate a development candidate for the CDK2 preclinical program in 2024.

UPCOMING PRESENTATIONS

Monte Rosa plans to present a poster at the upcoming American Association for Cancer Research (AACR) Annual Meeting demonstrating that
treatment with MRT-2359 resulted in marked tumor regressions in an AR-V7-expressing 22RV1 xenograft mouse model of c-MYC-driven prostate
cancer associated with resistance to anti-androgen agents. The Company also plans to present at an educational session at AACR on molecular glue
degraders.



### FOURTH QUARTER AND FULL YEAR 2023 FINANCIAL RESULTS

Research and Development (R&D) Expenses: R&D expenses for the fourth quarter of 2023 were \$27.1 million, compared to \$24.9 million for the fourth quarter of 2022, and \$111.3 million for the year ended December 31, 2023, compared to \$85.1 million for the year ended December 31, 2022. These increases were driven by the successful achievement of key milestones in our R&D organization, including the continuation of the MRT-2359 clinical study, the progression and growth of our preclinical pipeline, the preparation of MRT-6160 to enter the clinic, and the continued development of the Company's QuEEN™ discovery engine, and reflect increased personnel expense and external R&D costs including laboratory-related expenses to achieve these milestones. Non-cash stock-based compensation constituted \$2.2 million of R&D expenses for Q4 2023, compared to \$1.8 million in the same period in 2022, and \$8.9 million and \$5.6 million for the years ended December 31, 2023 and 2022, respectively.

**General and Administrative (G&A) Expenses:** G&A expenses for the fourth quarter of 2023 were \$7.7 million compared to \$7.6 million for the fourth quarter of 2022, and \$32.0 million for the year ended December 31, 2023, compared to \$27.3 million for the year ended December 31, 2022. The increase in G&A expenses was a result of increased headcount and expenses in support of the Company's growth and operations. G&A expenses included non-cash stock-based compensation of \$1.8 million for the fourth quarter of 2023, compared to \$1.6 million for the same period in 2022, and \$7.7 million and \$6.1 million for the years ended December 31, 2023, respectively.

Net Loss: Net loss for the fourth quarter of 2023 was \$33.3 million, compared to \$30.8 million for the fourth quarter of 2022, and \$135.4 million for the year ended December 31, 2023, compared to \$108.5 million for the year ended December 31, 2022.

**Cash Position and Financial Guidance**: Cash, cash equivalents, restricted cash, and marketable securities as of December 31, 2023, were \$237.0 million, compared to cash, cash equivalents, restricted cash, and marketable securities of \$183.0 million as of September 30, 2023. The increase of \$54 million was primarily related to the proceeds from the Roche collaboration and registered direct offering in Q4 2023.

The Company expects its cash and cash equivalents, including proceeds from the Roche collaboration, to be sufficient to fund planned operations and capital expenditures into the first half of 2026.

### About MRT-2359

MRT-2359 is a potent, highly selective and orally bioavailable investigational molecular glue degrader (MGD) that induces the interaction between the E3 ubiquitin ligase component cereblon and the translation termination factor GSPT1, leading to the targeted degradation of GSPT1 protein. The MYC transcription factors (c-MYC, L-MYC and N-MYC) are well-established drivers of human cancers that maintain high levels of protein translation, which is critical for uncontrolled cell proliferation and tumor growth. Preclinical studies have shown this addiction to MYC-induced protein translation creates a dependency on GSPT1. By inducing degradation of GSPT1, MRT-2359 is designed to exploit this vulnerability, disrupting the protein synthesis machinery, leading to anti-tumor activity in MYC-driven tumors.

About MRT-6160



MRT-6160 is a potent, highly selective, and orally bioavailable investigational molecular glue degrader of VAV1, which in our *in vitro* studies has shown deep degradation of its target with no detectable effects on other proteins. VAV1, a Rho-family guanine nucleotide exchange factor, is a key signaling protein downstream of both the T- and B-cell receptors. VAV1 expression is restricted to blood and immune cells, including T and B cells. Preclinical studies have shown that targeted degradation of VAV1 protein via an MGD modulates both T- and B-cell receptor-mediated activity. This modulation is evident both *in vitro* and *in vivo*, demonstrated by a significant decrease in cytokine secretion, proteins vital for maintaining autoimmune diseases. Moreover, VAV1-directed MGDs have shown promising activity in preclinical models of autoimmune diseases and thus have the potential to provide therapeutic benefits in multiple systemic and neurological autoimmune indications, such as multiple sclerosis, rheumatoid arthritis, inflammatory bowel disease, and dermatological disorders. Preclinical studies demonstrate MRT-6160 inhibits disease progression in *in vivo* autoimmunity models.

### About MRT-8102

MRT-8102 is a potent, highly selective, and orally bioavailable investigational molecular glue degrader (MGD) that targets NEK7 for the treatment of inflammatory diseases driven by IL-1b and the NLRP3 inflammasome. NEK7 has been shown to be required for NLRP3 inflammasome assembly, activation and IL-1b release both *in vitro* and *in vivo*. Aberrant NLRP3 inflammasome activation and the subsequent release of active IL-1b and interleukin-18 (IL-18) has been implicated in multiple inflammatory disorders, including gout, cardiovascular disease, neurologic disorders including Parkinson's disease and Alzheimer's disease, ocular disease, diabetes, obesity, and liver disease. In a non-human primate model, MRT-8102 potently, selectively, and durably degrades NEK7 and results in near-complete reductions of IL-1b models following *ex vivo* stimulation of whole blood. MRT-8102 has shown a favorable profile in non-GLP toxicology studies.

### About Monte Rosa

Monte Rosa Therapeutics is a clinical-stage biotechnology company developing highly selective molecular glue degrader (MGD) medicines for patients living with serious diseases in the areas of oncology, autoimmune and inflammatory diseases, and more. MGDs are small molecule protein degraders that have the potential to treat many diseases that other modalities, including other degraders, cannot. Monte Rosa's QuEEN<sup>™</sup> (Quantitative and Engineered Elimination of Neosubstrates) discovery engine combines Al-guided chemistry, diverse chemical libraries, structural biology and proteomics to identify degradable protein targets and rationally design MGDs with unprecedented selectivity. The QuEEN discovery engine enables access to a wide-ranging and differentiated target space of well-validated biology across multiple therapeutic areas. Monte Rosa has developed the industry's leading pipeline of MGDs, which spans oncology, autoimmune and inflammatory disease and beyond, and has a strategic collaboration with Roche to discover and develop MGDs against targets in cancer and neurological diseases previously considered impossible to drug. For more information, visit www.monterosatx.com.

### **Forward-Looking Statements**

This communication includes express and implied "forward-looking statements," including forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements that are not historical facts and in some cases, can be identified by terms such as "may," "might," "will," "could," "would," "should," "expect," "intend," "plan," "objective," "anticipate," "believe," "estimate," "predict," "potential," "continue," "ongoing," or the negative of these terms, or other comparable terminology intended to identify statements about the future. Forward-looking statements contained herein include, but are not limited to, statements about our product development



activities, our ability to grow our product pipeline, our ongoing clinical development of our GSPT1 degrader referred to as MRT-2359, including our expectations for the nature, significance, and timing for our disclosure of any initial data from our Phase 1/2 clinical trial of MRT-2359 in MYC-driven solid tumors, timing for our identification and any disclosure of a recommended phase 2 dose for MRT-2359, statements the Company's QuEEN<sup>TM</sup> discovery engine and the Company's view of its potential to identify degradable protein targets and rationally design MGDs with unprecedented selectivity, statements about our collaboration with Roche, statements about the advancement and timeline of our preclinical and clinical programs, pipeline and the various products therein, including the ongoing development of our VAV1-directed degrader, referred to as MRT-6160, the planned submission of an IND to the FDA for MRT-6160 in Q2 2024, and our expectations of timing for commencing any Phase 1 single ascending dose / multiple ascending dose (SAD/MAD) study initiation in healthy volunteers, our expectations regarding the potential clinical benefit for our programs and our expectations of timings for the program, the ongoing development of our NEK7-directed degrader, referred to as MRT-8102, the planned submission of an IND to the FDA for MRT-8102 in the first quarter of 2025, and our expectations of timing for clinical advancement for MRT-8102, statements around the identification and the timing of a development candidate for CDK2 and other programs, statements around the advancement and application of our platform, and statements concerning our expectations regarding our ability to nominate and the timing of our nominations of additional targets, product candidates, and development candidates, as well as our expectations of success for our programs and the strength of our financial position, our use of capital, expenses and other financial results in the future, availability of funding for existing programs, ability to fund operations into the first half of 2026, among others. By their nature, these statements are subject to numerous risks and uncertainties, including those risks and uncertainties set forth in our most recent Annual Report on Form 10-K for the year ended December 31, 2023, filed with the U.S. Securities and Exchange Commission on March 14, 2024, and any subsequent filings, that could cause actual results, performance or achievement to differ materially and adversely from those anticipated or implied in the statements. You should not rely upon forward-looking statements as predictions of future events. Although our management believes that the expectations reflected in our statements are reasonable, we cannot guarantee that the future results, performance, or events and circumstances described in the forward-looking statements will be achieved or occur. Recipients are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made and should not be construed as statements of fact. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, any future presentations, or otherwise, except as required by applicable law. Certain information contained in these materials and any statements made orally during any presentation of these materials that relate to the materials or are based on studies, publications, surveys and other data obtained from third-party sources and our own internal estimates and research. While we believe these third-party studies, publications, surveys and other data to be reliable as of the date of these materials, we have not independently verified, and make no representations as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, no independent source has evaluated the reasonableness or accuracy of our internal estimates or research and no reliance should be made on any information or statements made in these materials relating to or based on such internal estimates and research.



### **Consolidated Balance Sheets**

(in thousands, except share amounts)

	December 31,			
	 2023		2022	
Assets				
Current assets:				
Cash and cash equivalents	\$ 128,101	\$	54,912	
Marketable securities	104,312		207,914	
Other receivables	505		7,656	
Prepaid expenses and other current assets	3,294		4,444	
Current restricted cash	_		960	
Total current assets	 236,212		275,886	
Property and equipment, net	33,803		27,075	
Operating lease right-of-use assets	28,808		34,832	
Restricted cash, net of current	4,580		4,318	
Other long-term assets	352		278	
Total assets	\$ 303,755	\$	342,389	
Liabilities and stockholders' equity				
Current liabilities:				
Accounts payable	\$ 11,152	\$	7,862	
Accrued expenses and other current liabilities	14,600		14,580	
Current deferred revenue	17,678		_	
Current portion of operating lease liability	3,162		3,127	
Total current liabilities	46,592		25,569	
Deferred revenue, net of current	32,323		_	
Defined benefit plan liability	2,713		1,533	
Operating lease liability	42,877		43,874	
Total liabilities	124,505		70,976	
Commitments and contingencies				
Stockholders' equity				
Common stock, \$0.0001 par value; 500,000,000 shares authorized, 50,154,929 shares issued and 50,140,233 shares				
outstanding as of December 31, 2023; and 500,000,000 shares authorized, 49,445,802 shares issued and 49,323,531 shares				
outstanding as of December 31, 2022	5		5	
Additional paid-in capital	547,857		503,696	
Accumulated other comprehensive loss	(2,724)		(1,752)	
Accumulated deficit	(365,888)		(230,536)	
Total stockholders' equity	 179,250		271,413	
Total liabilities and stockholders' equity	\$ 303,755	\$	342,389	



Consolidated Statements of Operations and Comprehensive Income (Loss) (In thousands, except share and per share amounts)

(In thousands, exce	ot share and per	share amounts)						
		Three mon				-	ear ended	
		Decem	9er 31	,		De	ecember 31	
		2023		2022		2023		2022
Operating expenses:								
Research and development	\$	27,135	\$	24,868	\$	111,272	\$	85,061
General and administrative		7,728		7,621		32,039		27,323
Total operating expenses		34,863		32,489		143,311		112,384
Loss from operations		(34,863)		(32,489)		(143,311)		(112,384)
Other income (expense):								
Interest income, net		2,368		1,990		9,334		3,764
Foreign currency exchange gain (loss), net		(779)		(283)		(930)		10
Gain on disposal of fixed assets		_		—		24		109
Loss on sale of marketable securities		_		_		(131)		_
Total other income		1,589		1,707		8,297		3,883
Net loss before income taxes	\$	(33,274)	\$	(30,782)	\$	(135,014)	\$	(108,501)
Provision for income taxes		22		_		(338)		_
Net loss	\$	(33,252)	\$	(30,782)	\$	(135,352)	\$	(108,501)
Net loss per share attributable to common stockholders—basic and diluted	\$	(0.58)	\$	(0.63)	\$	(2.63)	\$	(2.30)
Weighted-average number of shares outstanding used in computing net loss per common share—basic and diluted		56,927,647		48,893,160	5	1,396,961		47,227,370
Comprehensive loss:				.,,	-	,,.		, , , .
Net loss	\$	(33,252)	\$	(30,782)	\$	(135,352)	\$	(108,501)
Provision for pension benefit obligation		(1,411)		619		(1,369)		718
Unrealized gain (loss) on available-for-sale securities		142		231		397		(449)
Comprehensive loss	\$	(34,521)	\$	(29,932)	\$	(136,324)	\$	(108,232)

Investors

Andrew Funderburk ir@monterosatx.com

### Media

Cory Tromblee, Scient PR media@monterosatx.com

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## From Serendipity to Rational Design

Taking Molecular Glue Degraders to New Heights | March 2024



## Forward-Looking Statements

This communication includes express and implied "forward-looking statements," including forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements that are not historical facts and, in some cases, can be identified by terms such as "may," "might," "will," "could," "should," "should," "should," "intend," "plan," "objective," "anticipate," "believe," "estimate," "predict," "potential," "continue," "ongoing," or the negative of these terms, or other comparable terminology intended to identify statements about the future. Forward-looking statements contained herein include, but are not limited to, statements about our product development activities, our ability to grow our product pipeline, our ongoing clinical development of our GSPT1 degrader referred to as MRT-2359, including our expectations for the nature, significance, and timing for our disclosure of any initial data from our Phase 1/2 clinical trial of MRT-2359 in MYC-driven solid tumors, timing for our identification and any disclosure of a recommended phase 2 dose for MRT-2359, statements the Company's QuEEN<sup>TM</sup> discovery engine and the Company's view of its potential to identify degradable protein targets and rationally design MGDs with unprecedented selectivity, statements about our collaboration with Roche, statements about the advancement and timeline of our preclinical and clinical programs, pipeline and the various products therein, including the ongoing development of our VAV1-directed degrader, referred to as MRT-6160, the planned submission of an IND to the FDA for MRT-6160 in Q2 2024, and our expectations of timing for commencing any Phase 1 single ascending dose / multiple ascending dose (SAD/MAD) study initiation in healthy volunteers, our expectations regarding the potential clinical benefit for our programs and our expectations of timings for the program, the ongoing development of our NEK7-directed degrader, referred to as MRT-8102, the planned submission of an IND to the FDA for MRT-8102 in the first quarter of 2025, and our expectations of timing for clinical advancement for MRT-8102, statements around the identification and the timing of a development candidate for CDK2 and other programs, statements around the advancement and application of our platform, and statements concerning our expectations regarding our ability to nominate and the timing of our nominations of additional targets, product candidates, and development candidates, as well as our expectations of success for our programs and the strength of our financial position, our use of capital, expenses and other financial results in the future, availability of funding for existing programs, ability to fund operations into the first half of 2026, among others. By their nature, these statements are subject to numerous risks and uncertainties, including those risks and uncertainties set forth in our most recent Annual Report on Form 10-K for the year ended December 31, 2023, filed with the U.S. Securities and Exchange Commission on March 14, 2024, and any subsequent filings, that could cause actual results, performance or achievement to differ materially and adversely from those anticipated or implied in the statements. You should not rely upon forward-looking statements as predictions of future events. Although our management believes that the expectations reflected in our statements are reasonable, we cannot guarantee that the future results, performance, or events and circumstances described in the forward-looking statements will be achieved or occur. Recipients are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made and should not be construed as statements of fact. We undertake no obligation to publicly update any forward-looking statements, whether, as a result of, new information, any future presentations, or otherwise, except as required by applicable law. Certain information contained in these materials and any statements made orally during any presentation of these materials that relate to the materials or are based on studies, publications, surveys and other data obtained from third-party sources and our own internal estimates and research. While we believe these third-party studies, publications, surveys and other data to be reliable as of the date of these materials, we have not independently verified, and make no representations as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, no independent source has evaluated the reasonableness or accuracy of our internal estimates or research and no reliance should be made on any information or statements made in these materials relating to or based on such internal estimates and research.

These materials remain the proprietary intellectual property of Monte Rosa Therapeutics and should not be distributed or reproduced in whole or in part without the prior written consent of Monte Rosa Therapeutics.

### Monte Rosa Therapeutics – Company Overview Taking molecular glue degraders (MGDs) to new heights



Arsenal of rationally designed MGDs with potential to solve many of the limitations of other modalities by degrading therapeutically relevant proteins with unprecedented precision



Highly productive, industry-leading discovery engine combining experimentation with AI to enable rational design of novel MGDs



Partnership with Roche to develop MGDs for oncology and neurological conditions – expands platform reach into neurology



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**Strong financial position** providing cash runway into H1 2026 and through multiple anticipated clinical readouts, including MRT-2359 Phase 1/2 and SAD/MAD for VAV1 and NEK7



Phase 1/2 clinical study ongoing with MRT-2359 in MYC-driven cancers; interim data demonstrated optimal pharmacodynamic modulation and early signs of clinical activity; RP2D expected in Q2 2024

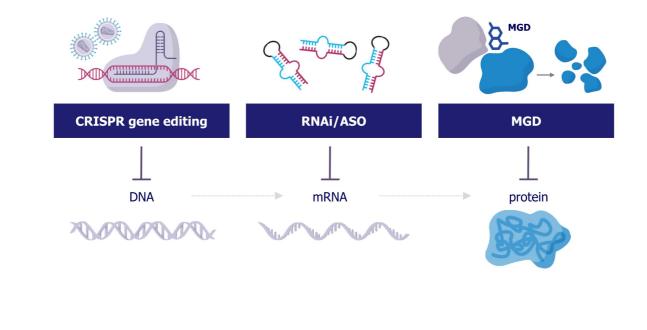


MRT-6160, highly selective VAV1-directed MGD, being rapidly advanced with IND expected in mid-2024; broad potential applications across autoimmune diseases

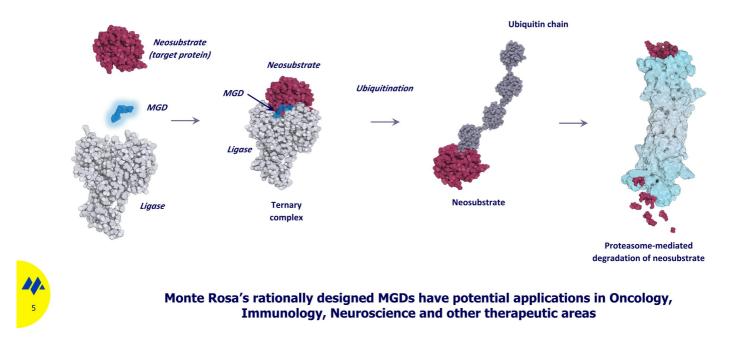


MRT-8102, highly selective NEK7-directed MGD for IL-1 $\beta$ /NLRP3-driven inflammatory diseases with IND anticipated Q1 2025

# Three Ways to Eliminate a Disease-Causing Protein MGDs can directly and precisely target proteins that cause disease



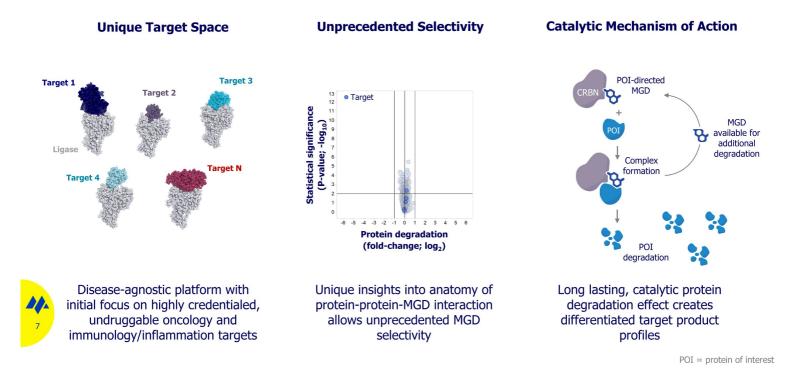
## Our Molecular Glue Degraders (MGDs) Edit the Proteome



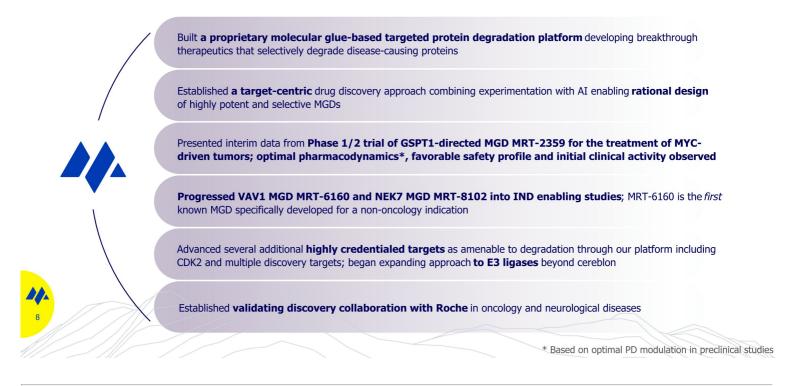
Molecular Glue Degraders (MGDs) – A Highly Differentiated Modality Advantages of large molecule modalities with orally dosed small molecules

				B-MGD
<u>.</u>	Properties	CRISPR	RNAi/ASO	MGD
	Address undruggable space	$\checkmark$	$\checkmark$	$\checkmark$
	Orally bioavailable			$\checkmark$
65.0	Systemic distribution			$\checkmark$
	Scalable manufacturing			$\checkmark$
	Reversible		$\checkmark$	$\checkmark$
		CRISPR	RNAi/ASO	MGD
6	nucleus	DNA		protein

## Key Advantages of Our Rationally Designed MGDs

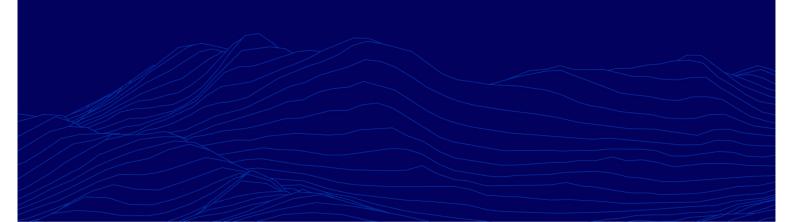


### Monte Rosa Therapeutics – Key Firsts and Accomplishments From serendipity to rational design of MGDs





## Portfolio



## Monte Rosa Pipeline and Upcoming Milestones

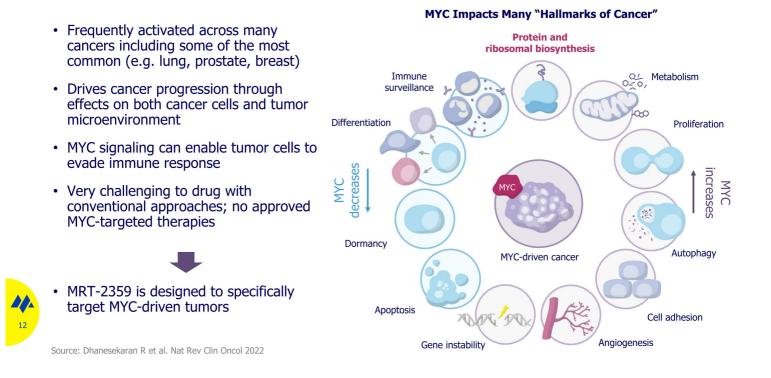
2

Target	Compound	Indication(s)	Discovery	IND-Enabling	Clinical	Next Anticipated Milestone	Ownership
GSPT1	MRT-2359	NSCLC, SCLC and other MYC-driven Malignancies				RP2D in Q2 2024	
VAV1	MRT-6160	Autoimmune Disease – Systemic and CNS				IND in Q2 2024	
	MRT-8102	IL-1β/NLRP3 driven				IND in Q1 2025	
NEK7	LO (2 <sup>nd</sup> generation)	Inflammatory Diseases				Development candidate	
CDK2	LO	Breast Cancer				Development candidate in 2024	
Discovery Targets	-	Multiple				Lead optimization	
Discovery Targets	-	Oncology and Neurological Diseases				Undisclosed	Roche
10		Oncology	Immunology	Inflammation	Various		

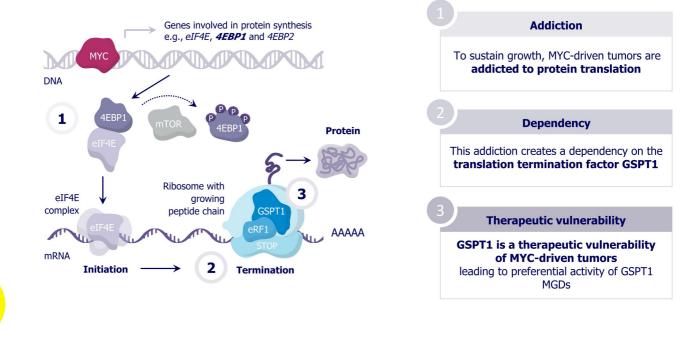


## GSPT1 program (MRT-2359)

## MYC is a Key Regulator of Cancer Growth and Immune Evasion



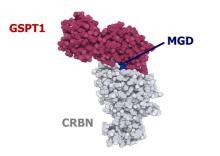
## Targeting MYC-driven Tumors and Their Addiction to Protein Translation Through GSPT1 degradation



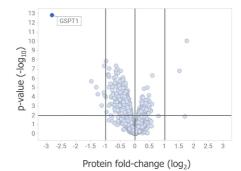
## MRT-2359 is a Potent and Highly Selective GSPT1-directed MGD

### MRT-2359 is a potent GSPT1-directed MGD

Ternary complex modelling



MRT-2359 induces selective GSPT1 degradation
and shows favorable ADME/DMPK profile

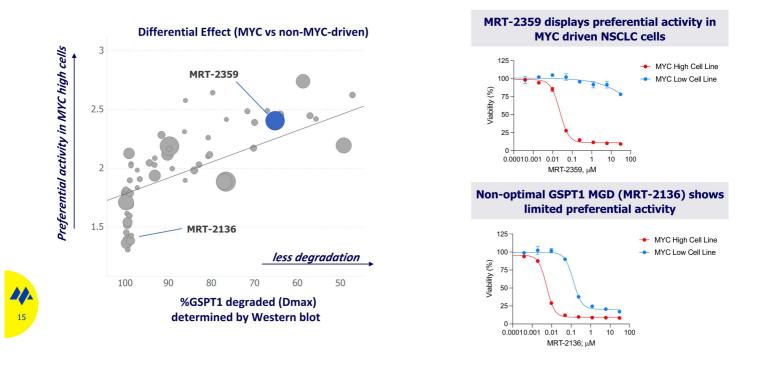


No degradation of other known cerebion neosubstrates

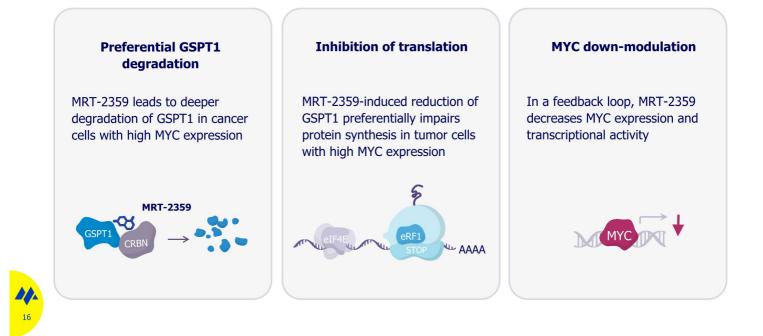
ADMET profi	le
CYP DDIs	> 30 µM
hERG inhibition patch clamp	EC <sub>50</sub> > 30 μM
Oral bioavailability all species	~50%

<i>in vitro</i> data	
CRBN binding, K <sub>i</sub>	113 nM
Ternary complex, EC <sub>50</sub>	< 7 nM
Degradation, DC <sub>50</sub> (in disease relevant cell lines)	1 - 20 nM

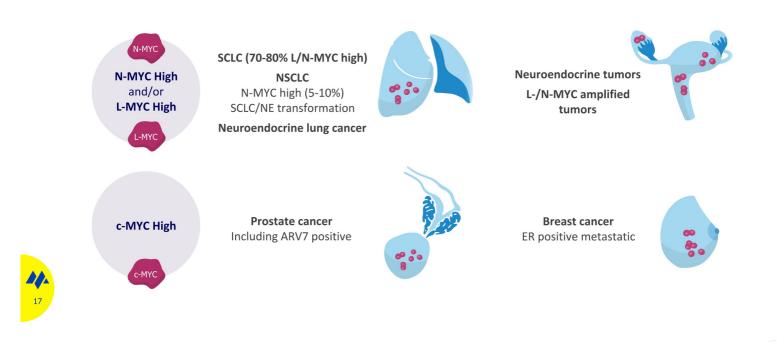
# MRT-2359 Has Optimized Depth of Degradation To Achieve Preferential Activity in MYC High Cancer Cells



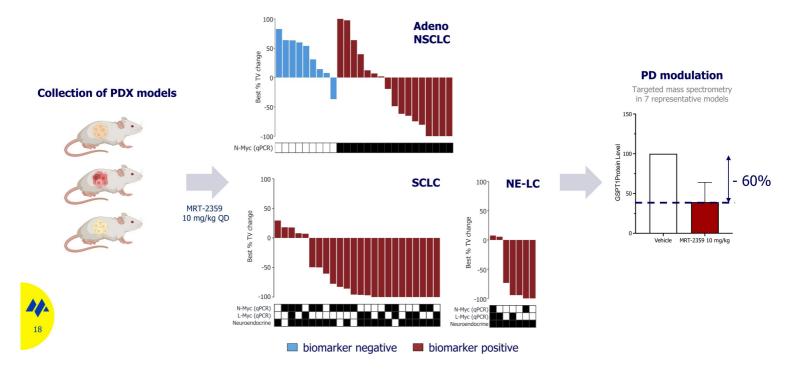
## Three Mechanisms Driving Preferential Activity in MYC High Tumor Cells



## Large Potential Opportunities in MYC-Driven Tumors High unmet need with no currently approved therapies specifically for MYC high tumors

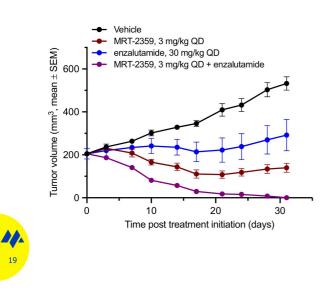


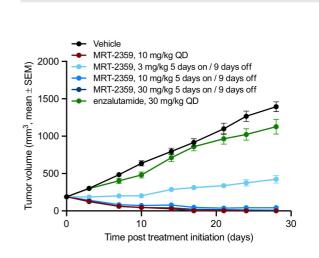
## Preclinical Validation of Activity of MRT-2359 in Lung Cancer PDX Models



## MRT-2359 Leads to Tumor Regressions in Preclinical Models of Castration Resistant Prostate Cancer and ARV7-driven Prostate Cancer

MRT-2359 displays activity in castrate resistant VCAP model

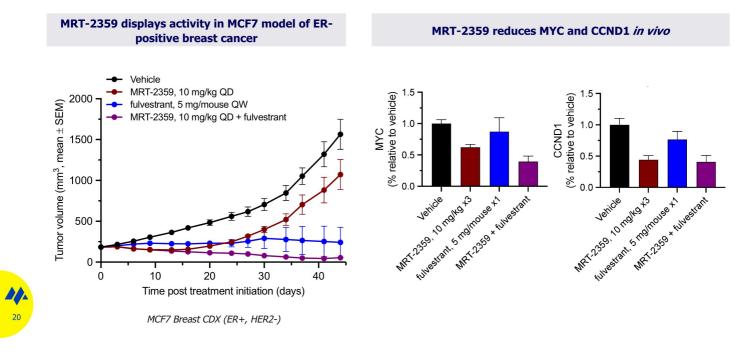




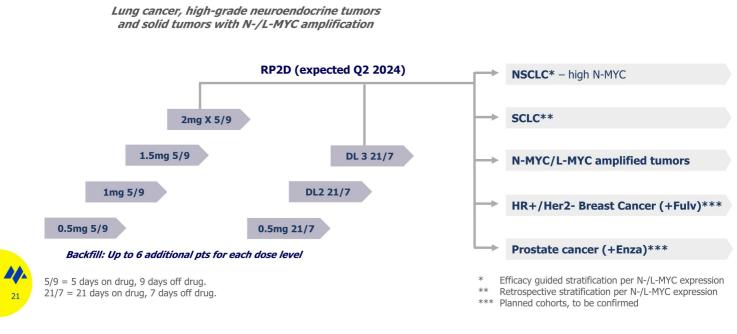
MRT-2359 displays activity in ARV7 driven 22RV1

model

# MRT-2359 Leads to Tumor Regressions in Preclinical Model of ER-positive Breast Cancer



## MRT-2359-001 Phase 1/2 Clinical Study Design



### Phase 1: Dose Escalation

### **Phase 2: Expansion Cohorts**

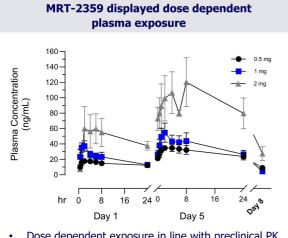


## MRT-2359 Phase I Interim Data – October 2023

### **Objectives of Phase I interim analysis**

- ✓ Demonstrate dose dependent PK
- ✓ Demonstrate significant GSPT1 degradation at safe dose levels in PBMCs and tissue biopsies (60% based on preclinical data)
- $\checkmark$  Share potential preliminary efficacy signals in biomarker positive patients

## MRT-2359 Induces Optimal GSPT1 Degradation in PBMCs\*



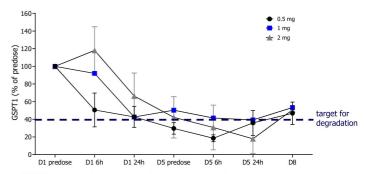
Dose dependent exposure in line with preclinical PK models

23

No food effect observed

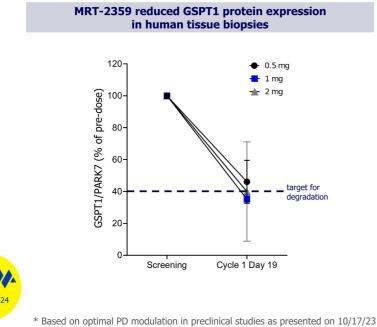
\* as presented on 10/17/23

MRT-2359 displayed deep GSPT1 degradation in PBMCs at all dose levels



- GSPT1 expression assessed using targeted mass spectrometry
- PD modulation in PBMCs observed across all dose levels; level of degradation (~ 60%) in line with maximal degradation observed in preclinical studies using the same method
- Level of degradation equivalent across all dose levels, suggesting saturated PD response from 0.5 to 2 mg

## MRT-2359 Induces Optimal GSPT1 Degradation in Tissue Biopsies\*



- GSPT1 degradation assessed from pre-• treatment screening biopsies and biopsies taken at day 19
- Matched biopsies obtained from 11 patients across the 3 cohorts analyzed
- GSPT1 expression assessed using targeted mass spectrometry
- PD modulation seen in tissue biopsies in line • with PD modulation seen preclinically at efficacious dose levels using same assay (targeted mass spectrometry)

# Summary of Treatment-Related Adverse Events (AEs) in $\geq$ 2 patients<sup>#</sup> No observed clinically significant hypocalcemia or hypotension/cytokine release syndrome

AE Preferred Term	0.5 mg (N=9) <sup>##</sup>		1 mg (N=7)##	2 mg (N=5) ##		#	Overall (N=21)		
	Any Grade	Grade ≥3	Any Grade	Grade ≥3	Any Grade	Grade ≥3	Any Grade	Grade ≥3	
Thrombocytopenia###	0	0	0	0	4 (80%)	3 (60%)***	4 (19%)	3 (14%)	
Neutropenia*	0	0	0	0	2 (40%)	1 (20%)	2 (10%)	1 (5%)	
Leukopenia	0	0	0	0	2 (40%)	2 (40%)	2 (10%)	2 (10%)	
Nausea	3 (33%)	0	2 (29%)	0	1 (20%)	0	6 (33%)	0	
Vomiting	1 (11%)	0	2 (29%)	0	1 (20%)	0	4 (19%)	0	
Diarrhea**	1 (11%)	0	3 (43%)	0	1 (20%)	0	5 (24%)	0	
Hypokalemia	0	0	1 (14%)	0	1 (20%)	0	2 (10%)	0	
Fatigue	0	0	2 (29%)	0	0	0	2 (10%)	0	
Decreased appetite	0	0	2 (29%)	0	0	0	2 (10%)	0	
Rash	2 (22%)	0	0	0	0	0	2 (10%)	0	



Note: As presented on 10/17/23

##

Data cut-off: 7 SEP 2023 MRT-2359 was given orally daily on the 5 days on and 9 days off schedule Data combined for 'thrombocytopenia' and 'platelet count decreased' ###

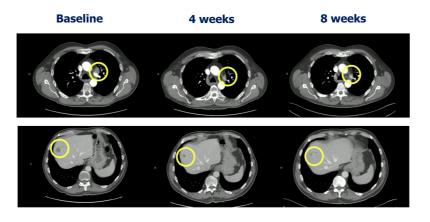
Data combined for 'neutropenia' and 'neutrophil count decreased' Data combined for 'diarrhea' and 'feces soft' Dose limiting toxicity: Grade 4 thrombocytopenia in 2 patients

\*\*\*

\*\*

### Confirmed Partial Response in High Grade Neuroendocrine Bladder Cancer\*

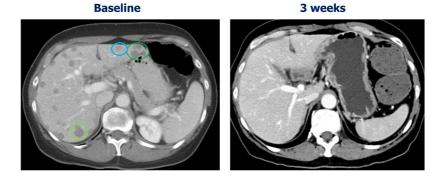
- High Grade (HG) neuroendocrine bladder cancer
- Baseline tumor biopsy demonstrated high N-MYC expression
- 4 prior lines of therapy including chemotherapy and pembrolizumab
- Patient initiated on 2 mg for first 5/9 regimen, then lowered to 1 mg and 0.5 mg and remains on therapy (> 3 month)
- CT scan after 4 weeks demonstrated PR (-34% per RECIST 1.1) that continued to improve at week 8 (-59% per RECIST 1.1)





### Unconfirmed Partial Response in NSCLC with SCLC/NE Transformation\*

- NSCLC (adenocarcinoma)
- Baseline tumor biopsy demonstrated SCLC/NE transformation, low N- and L-MYC expression
- Multiple lines of prior therapy including chemotherapy, pembrolizumab and atezolizumab
- Patient initiated on 0.5 mg
- CT on C1D22 demonstrated resolution of liver metastases (-41% per RECIST 1.1)
- · Patient experienced frequent dose interruptions due to bowel obstruction unrelated to MRT-2359

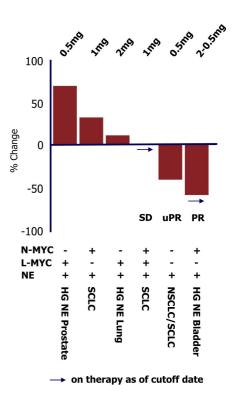




### MRT-2359-001 – Preliminary Efficacy Data\*

- As of September 7<sup>th</sup>, 2023, of 15 evaluable patients treated across 3 cohorts, tumors from 6 patients were identified as biomarker positive
- Of these 6 biomarker positive patients, 2 have experienced a PR (1 confirmed, 1 unconfirmed) and 1 patient has SD
  - PR (-59%) HG NE bladder carcinoma
  - uPR (-41%) NSCLC with SCLC/NE transformation
  - SD (0%) SCLC (remains on therapy for > 4 months)
- In addition, one patient with NSCLC and unclear biomarker status remains on therapy for > 7 months with stable disease
- No clinical activity seen in biomarker negative patients





## Favorable Safety at Clinically Active Doses\*

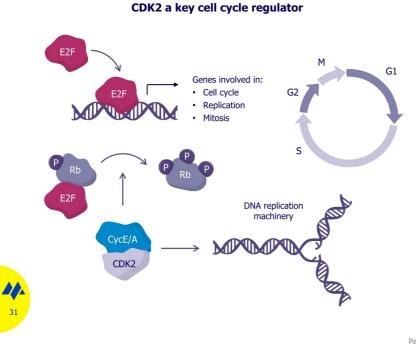
Safety profile supports further development

- Preferential and more rapid degradation of GSPT1 in MYC high tumor cells enables favorable adverse event (AE) profile at clinically active doses of 0.5 and 1 mg − no Grade ≥3 AEs
  - Grade 1-2 AEs primarily GI-related and manageable
- No observations of previously reported limitations of other GSPT1-targeted agents
  - No observed clinically significant hypocalcemia or hypotension/cytokine release syndrome at any dose level
- Grade 4 thrombocytopenia identified as dose limiting toxicity (DLT) at 2 mg
- Favorable safety profile with lack of hypocalcemia has enabled exploration of 21/7 schedule, starting at 0.5 mg
- RP2D expected in Q2 of 2024



# CDK2 Program

### CDK2 as a Key Driver of Cell Cycle Progression in Cancer



### Therapeutic hypothesis:

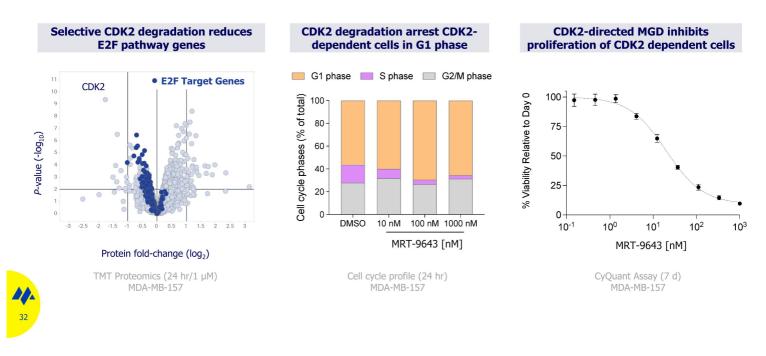
- CDK2 is a key driver of cancers with cyclin dependent kinase pathway alterations
- MGDs will achieve greater selectivity against other CDKs and kinases in general, as well as more sustained pathway inhibition compared to inhibitors

#### **Clinical Opportunity:**

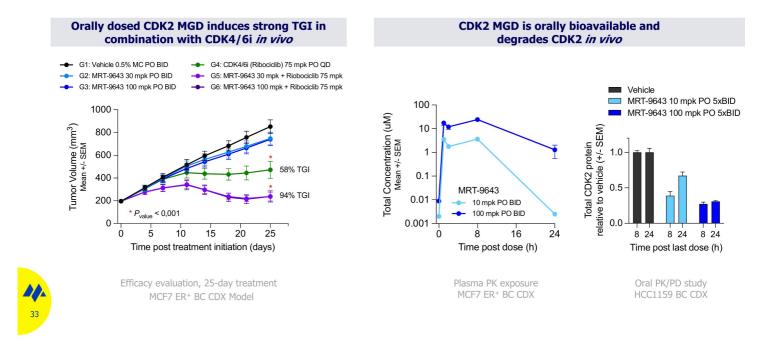
- ER positive breast cancer pre and post treatment with CDK4/6 inhibitors (474K patients)
- Ovarian cancer (64K patients), endometrial cancer (124K patients) and other tumors with CCNE1 amplification

Patient diagnosed incidence #s, major markets (US, EU and JP): Decision Resources Group (DRG)

# Orally Bioavailable MGD MRT-9643 is Selective and Shows Biological Activity in a CDK2 Dependent Cell Line

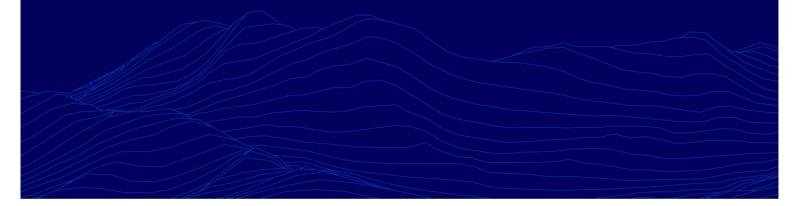


# Orally Bioavailable MGD MRT-9643 Demonstrates Activity as Single Agent and in Combination with CDK4/6i in ER<sup>+</sup> Breast Cancer

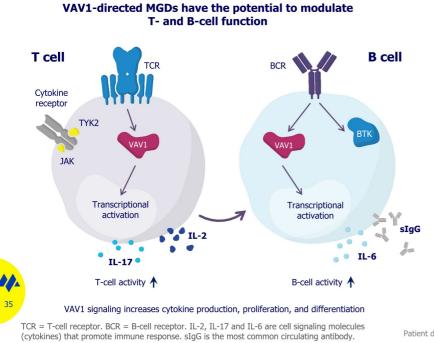




# VAV1 Program (MRT-6160)



### VAV1 is a Key Regulator of T- and B-cell Receptor Activity



#### **Therapeutic hypothesis:**

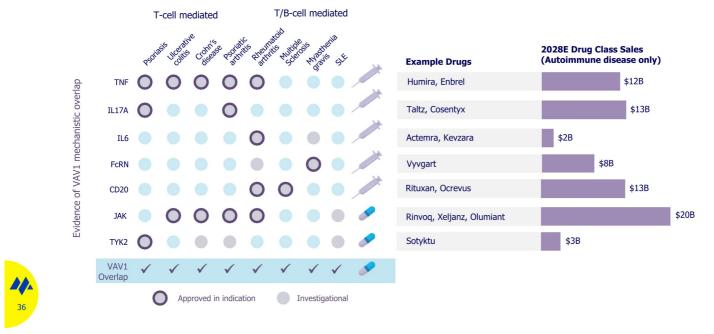
- VAV1 is a pivotal scaffolding protein and signaling molecule downstream of both the T-cell and B-cell receptors – confirmed by multiple CRISPR screens VAV1 knockout (KO) mice
- VAV1 degradation is predicted to impact both T- & B-cell function and has the potential to treat a broad set of autoimmune diseases

#### **Clinical Opportunity:**

Autoimmune disorders including rheumatoid arthritis (6.2M patients), multiple sclerosis (1.3M patients), and myasthenia gravis (36K – 60K patients in US)

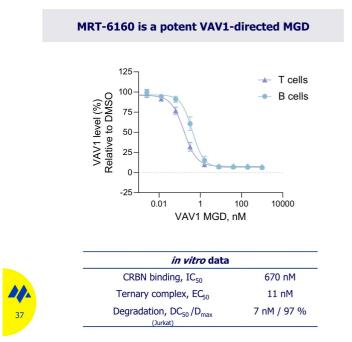
Patient diagnosed incidence #s, major markets (US, EU and JP): Decision Resources Group (DRG)

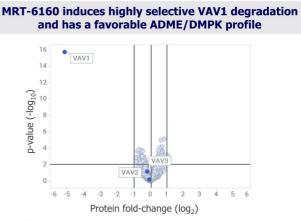
### VAV1: Unique Mechanism with Broad Potential Applications Potential to address multiple autoimmune diseases with safe, oral therapy



Note: Chart adapted from Hosack et al., Nat Rev Immunol 2023. Drug class sales from Evaluate Pharma. 2028E sales may include sales from anticipated future approvals

### MRT-6160 is a Potent and Selective VAV1-directed MGD

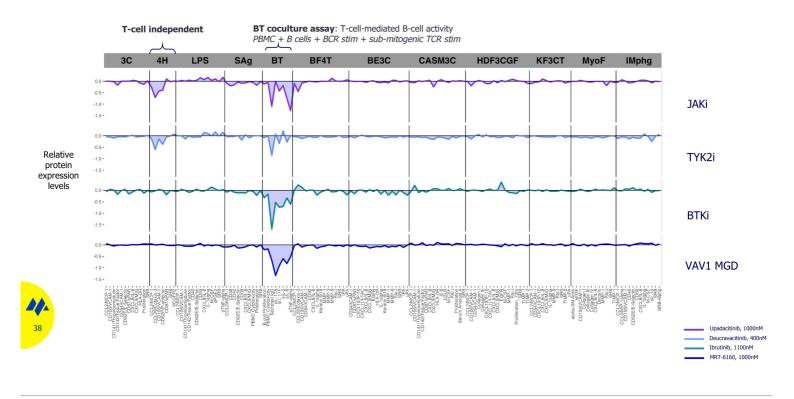




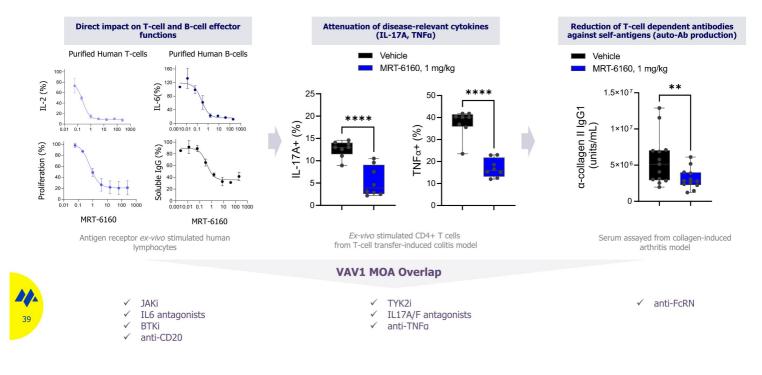
No degradation of other known cereblon neosubstrates

ADMET profile		
CYP DDIs	IC <sub>50</sub> > 30 μΜ	
hERG inhibition patch clamp	EC <sub>50</sub> > 30 μM	
Oral bioavailability all species	> 50%	

## MRT-6160 Demonstrates Differentiated Activity (BioMAP) Profile

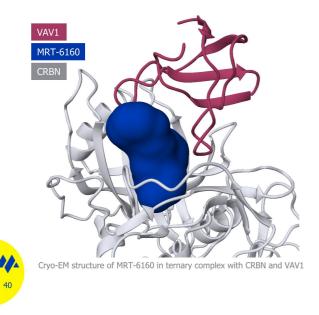


### MRT-6160 Attenuates T- and B-Cell Activity and Cytokine Production Experimental demonstration of activity overlapping with clinically validated mechanisms



# MRT-6160 is a Potent, Selective VAV1 MGD with a Favorable Drug-like Profile

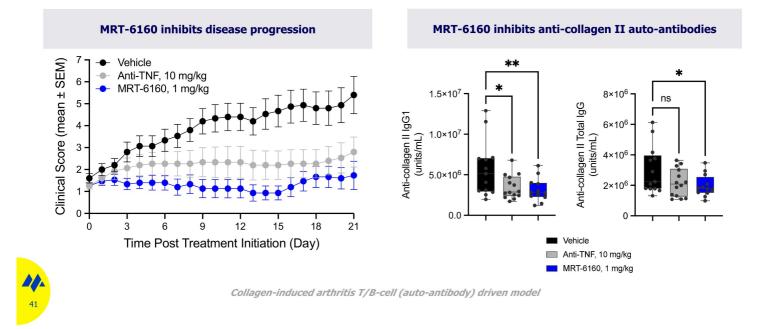
### VAV1 ternary complex (Cryo-EM)



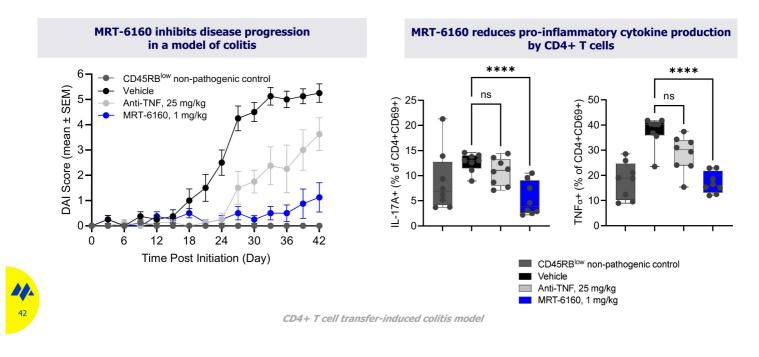
MGD Activity Profile			
CRBN Binding (HTRF, IC <sub>50</sub> )	0.67 µM		
VAV1 Ternary Complex (HTRF, EC <sub>50</sub> )	11 nM		
VAV1 Degradation (Jurkat, DC <sub>50</sub> /Dmax)	7 nM / 97%		
Selectivity (TMT proteomics)	Large VAV1 selectivity window		
Physicochemical Properties			
LogD	1.5		
MW	<400		
Thermodynamic Solubility	7 μΜ		
ADMET Profile			
Oral bioavailability (all species)	> 50 %		
Metabolite Profile (in vitro)	No unique human metabolites or GSH adducts (mics)		
CYP DDI (9 isoforms)	IC <sub>50</sub> > 30 μM		
Safety Pharmacology			
Mini-Ames	Negative		
hERG inhibition (patch clamp)	No inhibition (EC <sub>50</sub> > 30 $\mu$ M)		
Counterscreens (panel with 98 targets)	No inhibition		

Preclinical GLP tox studies in rats and NHPs demonstrates highly favorable profile including no significant changes in peripheral immunophenotyping assessments

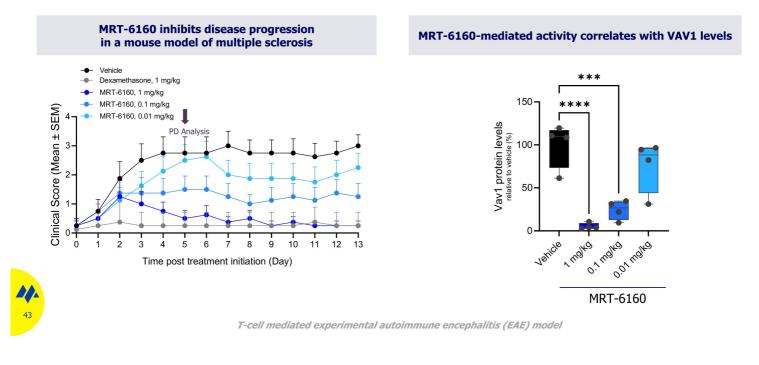
### MRT-6160 Inhibits Disease Progression, Joint Inflammation & Auto-Antibody Production in the Collagen-Induced Arthritis Disease Model



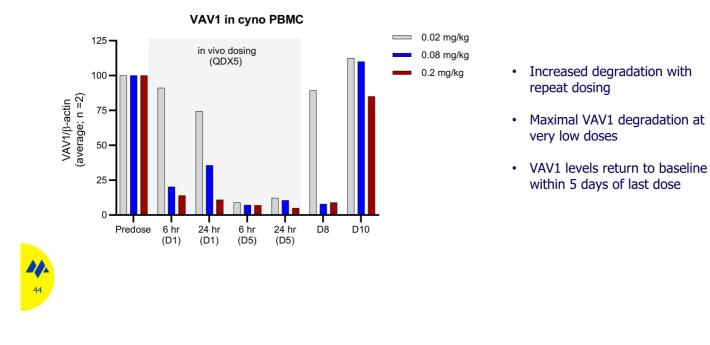
### MRT-6160 Inhibits Disease Progression and Cytokine Production in a Model of Inflammatory Bowel Disease



### MRT-6160 Elicits Dose-Dependent Activity in T-cell-mediated Multiple Sclerosis Autoimmune Disease Model

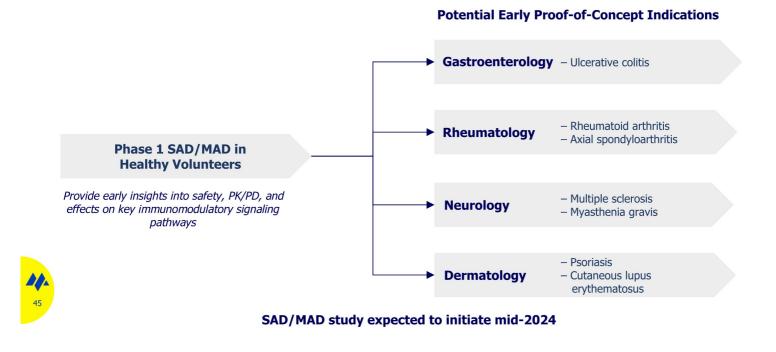


### MRT-6160 Induces Significant VAV1 Degradation in Non-human Primates



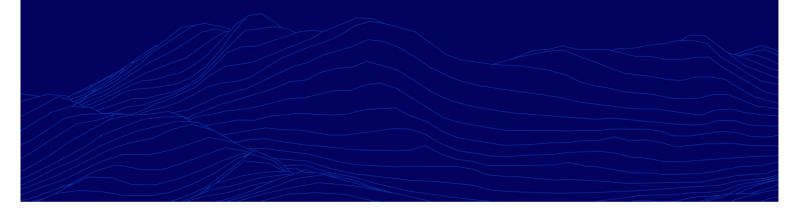
## Preliminary MRT-6160 Development Plan through Early POC

Potential in multiple I&I indications with T cell and T/B cell-mediated pathophysiology

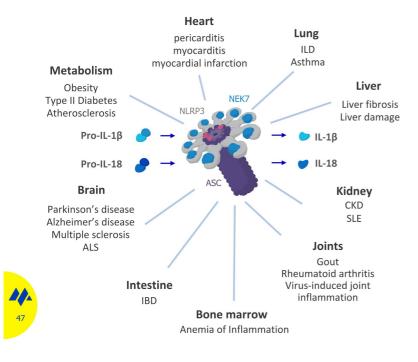




# NEK7 Program (MRT-8102)



# NEK7 is a Key Regulator of NLRP3 Inflammasomes and IL-1 $\beta$ and IL-18 Production



#### Therapeutic hypothesis:

Activation of the NLRP3 inflammasome critically depends on NEK7

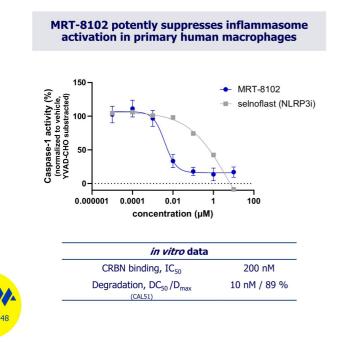
- NEK7 licenses NLRP3 assembly in a kinaseindependent manner
- NEK7-deficient macrophages are severely impaired in IL-1 $\beta$  and IL-18 secretion

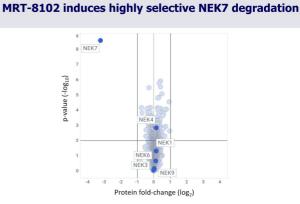
Consequently, NEK7 degradation has the potential to become an important treatment modality for a variety of inflammatory diseases

#### **Clinical Opportunity:**

Diseases driven by IL-1 $\beta$  and the NLRP3 inflammasome including gout, cardiovascular disease, neurologic disorders including Parkinson's disease and Alzheimer's disease, ocular disease, diabetes, obesity, and liver disease

### MRT-8102 is a Potent and Selective NEK7-directed MGD

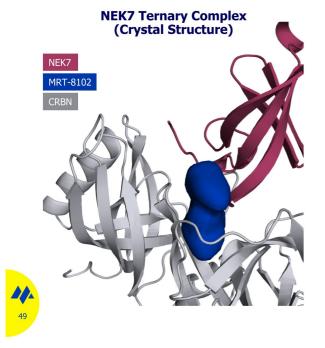




No degradation of other known cereblon neosubstrates

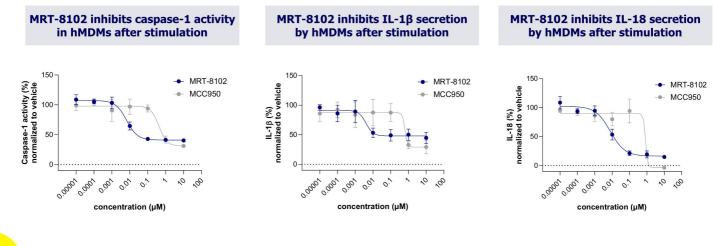
ADMET profile		
hERG	No inhibition	
Oral bioavailability	Yes	

# MRT-8102 is a Potent, Selective NEK7-Directed MGD With a Favorable Drug-like Profile



MGD Acti	vity Profile	
CRBN Binding (HTRF, IC <sub>50</sub> )	0.2 µM	
NEK7 Degradation (CAL51, DC <sub>50</sub> /Dmax)	10 nM / 89%	
Selectivity (TMT proteomics)	Excellent selectivity profile in different cell lines	
Physicochem	ical Properties	
LogD	1.47	
MW	<450	
Thermodynamic Solubility	166 µM	
ADMET	Profile	
Oral Bioavailability	Yes	
Metabolite Profile (in vitro)	No unique human metabolites or GSH adducts (mics)	
Safety Pha	armacology	
Mini-Ames	Negative	
hERG (patch clamp)	No inhibition (EC50> 30 µM)	
Counterscreens (panel with 44 proteins)	No inhibition	

### MRT-8102 Potently Inhibits NLRP3 Inflammasome-mediated Activation in Human Monocyte-derived Macrophages

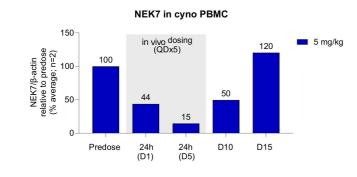


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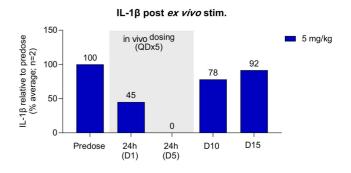
# Suppression of *Ex Vivo* Inflammasome Activation Following Degradation of NEK7 After Single and Multi-dose Study in Non-human Primates

### MRT-8102 induces degradation of NEK7 *in vivo* over several days



No clinical observations reported

*In vivo* NEK7 degradation leads to inhibition of NLRP3 inflammasome in *ex vivo* stimulation assay



\* IL-1 $\beta$  in plasma after *ex vivo* stimulation with LPS + nigericin

Similar results for Caspase-1 activity from same study

• Follow-up study with 1 mg/kg MRT-8102, *i.v.* at 4 hr showed similar results



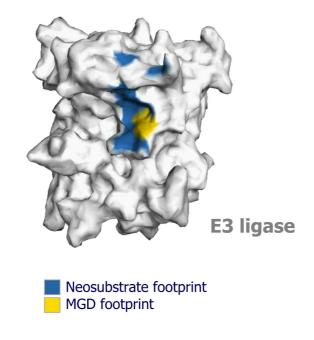
# QuEEN<sup>™</sup> Discovery Engine

## Overcoming Past Limitations of Molecular Glue Degraders

'Target space is limited'Image: Constraint of the space is limited'Queent of the space is limited'Queent of the space of undruggable protein classes'MGDs are identifed by serendipity'Image: Constraint of the space of	Traditional thinking		Monte Rosa Therapeutics approach
by serendipity'       Systematic discovery of MGDs         'MGDs are not selective'       Image: AI-driven and structure-based design enable rational Med Chem optimization of MGDs         'Med Chem rules don't apply to MGDs'       Image: AI-driven and structure-based design enable rational Med Chem optimization of MGDs	'Target space is limited'	\$	
MGDS are not selective       rational Med Chem optimization of MGDs         'Med Chem rules don't apply to MGDs'       Image: Comparison of MGDs		O	
don't apply to MGDs'	'MGDs are not selective'	$\rightarrow 0 \leftarrow \uparrow$	
			5 ,

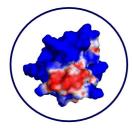


### Our Critical Insight: Surfaces are Critical for MGD Discovery Surfaces, not structures, mediate PPIs and targeted protein degradation



- Rationally-designed MGDs create diverse E3 ligase neosurfaces, enabling recruitment of new targets
- Our geometric deep learning algorithms use surfaces to **predict** targets.
- Our surface-based algorithms **design** MGDs to recruit targets.
- Our platforms generate actionable data-at-scale to test & train ("data moat")

# QuEEN<sup>™</sup> Discovery Engine: Unique Capabilities Enable Our Rational and Target-Centric Approach to MGDs



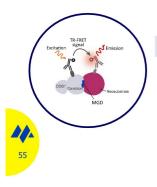
### AI/ML

*In silico* discovery using proprietary AIpowered algorithms



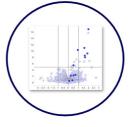
### Structure-based Design

Proprietary database of protein structures to enable rapid optimization of MGD chemistry



#### **Proximity Screening**

Specialized suite of biochemical, cellular and proteomics assays to assess proximity and degradation in high throughput



#### **Proteomics**

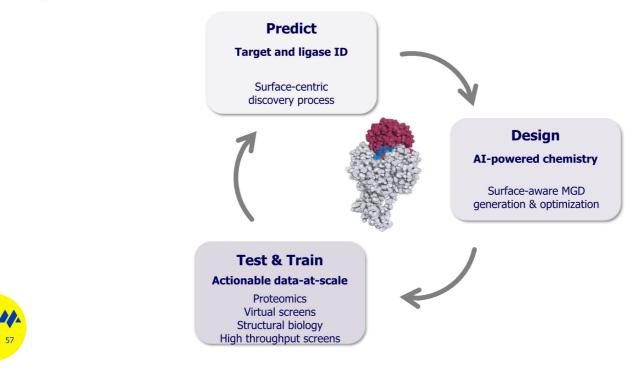
Integrated proteomics engine and database to identify novel targets and explore cellular complex formation and protein degradation

# Proprietary AI/ML Engines Enable the Discovery of Reprogrammable Ligases, Neosubstrates, and Selective MGDs

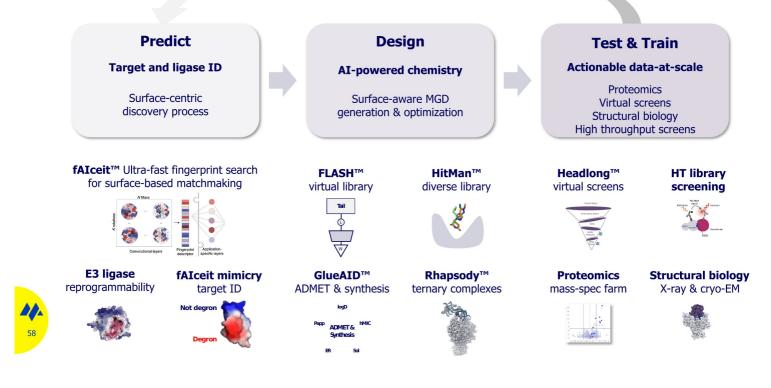
<section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header>	Ligase reprogrammability	Target identification
	MGD discovery	In silico screening
	Generate MGDs with drug-like properties	Screen for activity in ternary complexes

56

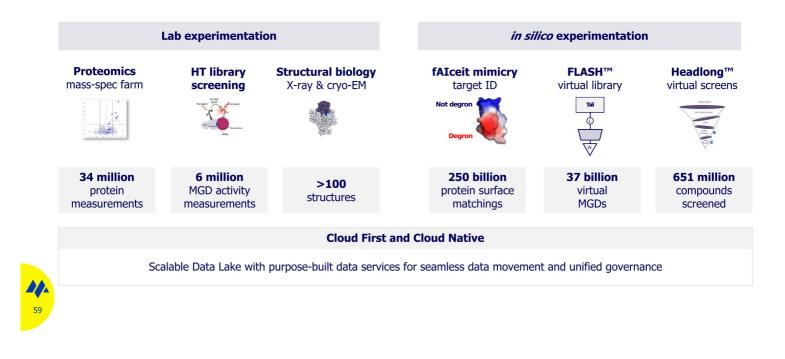
## QuEEN<sup>™</sup>: How it Works



### QuEEN<sup>™</sup> Toolbox to Rapid Discovery Oral MGDs



### Algorithms Use MGD-focused, Moated Data to Identify Targets and Design MGDs





## Team



### World-Class Leadership

Deep expertise in molecular glue discovery, drug development and precision medicine



