UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

	FORM 8-K	
	CURRENT REPORT Pursuant to Section 13 or 15(d)	
	The Securities Exchange Act of 1934	
Date of Report	t (Date of earliest event reported): June	1, 2022
•	Pharmaceuticals, I	45-3772460 (IRS Employer Identification No.)
35 CambridgePark Drive		
Cambridge, Massachusetts (Address of Principal Executive Offices)	02140 (Zip Code)
Registrant's to	elephone number, including area code: (617) 744	1-1340
(Former N	Name or Former Address, if Changed Since Last Report)	
ropriate box below if the Form 8-K f	illing is intended to simultaneously satisfy the filing	g obligation of the registrant under any of the

Check the appropriate box below if the Form 8-K fi following provisions (see General Instruction A.2. below): 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 or to be registered pursuant to Section 12(b) of the Act. Trading Name of each exchange Title of each class Symbol(s) on which registered Common Stock, \$0.001 par value **SYRS** 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 \square

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

Delaware (State or Other Jurisdiction of Incorporation)

new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 5.07 Submission of Matters to a Vote of Security Holders.

The Company held its annual meeting of stockholders on June 1, 2022 (the "Annual Meeting"). At the Annual Meeting, the Company's stockholders voted in the following manner with respect to the following proposals:

 The election of three Class III directors, each to serve for a three-year term expiring at the 2025 annual meeting of stockholders and until his successor has been duly elected and qualified.

Nominees	For	Withheld	Broker Non-Votes
S. Gail Eckhardt, M.D.	34,823,908	5,769,024	8,922,537
Marsha H. Fanucci	34,240,718	6,352,214	8,922,537
Nancy A. Simonian, M.D.	35,052,818	5,540,114	8,922,537

The ratification of the appointment of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2022.

For:	49,235,387
Against:	230,242
Abstain:	49,840

3. The approval, on a non-binding, advisory basis, of the compensation paid to the Company's named executive officers.

For:	38,974,415
Against:	1,485,752
Abstain:	132,765
Broker Non-Votes:	8,922,537

 The recommendation, on a non-binding, advisory basis, of the frequency of future advisory votes on the compensation paid to the Company's named executive officers.

1 year:	40,070,182
2 years:	12,700
3 years:	388,088
Abstain:	121,962
Broker Non-Votes:	8,922,537

After taking into consideration the foregoing voting results and the prior recommendation of the Company's Board of Directors in favor of an annual stockholder advisory vote on the compensation of the Company's named executive officers, the Company intends to hold future advisory votes on the compensation of the Company's named executive officers every year.

Item 7.01 Regulation FD Disclosure.

From time to time, we intend to conduct meetings with third parties in which our current corporate slide presentation is presented. A copy of this slide presentation, dated June 2022, is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information responsive to Item 7.01 of this Form 8-K and Exhibit 99.1 hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (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 or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 9.01	Financial Statements and Exhibits.
Exhibit No.	Description
99.1	Slide presentation dated June 2022.
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.

SYROS PHARMACEUTICALS, INC.

Date: June 7, 2022

/s/ Nancy Simonian, M.D.

Nancy Simonian, M.D.
President & Chief Executive Officer



An Expression Makes a World of Difference

June 2022







Forward-looking statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding our strategy, research and clinical development plans, collaborations, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "will," "would," "could," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in these forward-looking statements as a result of various important factors, including our ability to: advance the development of our programs, including tamibarotene, SY-2101 and SY-5609, under the timelines we project in current and future clinical trials; demonstrate in any current and future clinical trials the requisite safety, efficacy and combinability of our drug candidates; replicate scientific and non-clinical data in clinical trials; successfully develop a companion diagnostic test to identify patients with the RARA biomarker; obtain and maintain patent protection for our drug candidates and the freedom to operate under third party intellectual property; obtain and maintain necessary regulatory approvals; identify, enter into and maintain collaboration agreements with third parties, including our ability to perform under our collaboration agreements with Incyte Corporation and Global Blood Therapeutics; manage competition; manage expenses; raise the substantial additional capital needed to achieve our business objectives; attract and retain qualified personnel; and successfully execute on our business strategies; risks described under the caption "Risk Factors" in our Annual Report on Form 10-V for the quarter ended March 31, 2022, each of which is on file with the Securities and Exchange Commission (SEC); and risks described in other filings that we may make with the SEC in the future.

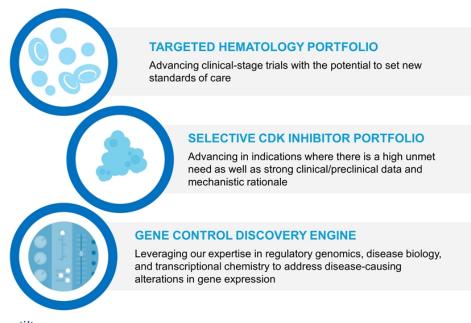
In addition, the extent to which the COVID-19 outbreak continues to impact our workforce and our discovery research, supply chain and clinical trial operations activities, and the operations of the third parties on which we rely, will depend on future developments, which are highly uncertain and cannot be predicted with confidence, including the duration and severity of the outbreak, additional or modified government actions, and the actions that may be required to contain the virus or treat its impact.

Any forward-looking statements contained in this presentation speak only as of the date this presentation is made, and we expressly disclaim any obligation to update any forward-looking statements, whether because of new information, future events or otherwise.

All third-party trademarks used in this presentation are the property of their respective owners.



Advancing to become a fully integrated biopharmaceutical company with late-stage clinical programs



3 clinical programs from our hematology and CDK portfolios, as well as a robust gene control discovery engine



Multiple value-driving milestones

Tamibarotene in HR-MDS	Pivotal data from SELECT-MDS-1 Phase 3 trial Potential NDA filing	4Q23/1Q24 2024
Tamibarotene in AML	Clinical activity data from safety lead-in SELECT-AML-1 trial Randomized data from SELECT-AML-1 trial	2H 2022 2023/2024
SY-2101 in APL*	PK and safety data	Mid-2022
SY-5609	Clinical activity data from safety lead-in in pancreatic cancer POC data from expansion cohorts in pancreatic trial	2H 2022 2023/2024
Discovery	Development candidate named from CDK12 program	2H 2022



SYR:::S *Subject to additional capital, Syros will advance SY-2101 into a Phase 3 trial

Advancing our diversified clinical pipeline

Program	Indication	Early Clinical	Mid-clinical	Pivotal	Commercial Rights	
Tamibarotene	Newly diagnosed HR-MDS (w/aza)	\$	SELECT-MDS-1 Trial		SYR∵S	
(oral RARα agonist)	Newly diagnosed unfit AML (w/ven+aza)	SELECT-AML-1 Trial			Americas, Europe, Australia, Israel & Russia	
SY-2101 (oral ATO)	Newly diagnosed APL (w/ATRA)	Dose confirmation stud	ły		SYR∵S	
SY-5609	Metastatic pancreatic cancer (w/ chemo)	Safety Lead-In			- SYR∵S	
(oral CDK7 inhibitor)	Colorectal cancer (w/atezolizumab)*	Ph1/1b 1H 2022 Roche			31 K3	

Tamibarotene is approved in Japan as Amnolake® for patients with relapsed/refractory APL *Roche-sponsored trial



SYR ::S

Tamibarotene Selective oral RARα agonist



Value of Tamibarotene



Selective and potent RAR $\!\alpha$ agonist; ~50% of MDS patients and ~30% of AML patients are RARA-positive



RARA biomarker discovered from Syros' gene control discovery engine



Ongoing Phase 3 trial in newly diagnosed HR-MDS, potentially the first therapy for a targeted population in HR-MDS with broad potential in RARA-positive patients



Oral drug with novel mechanism and favorable tolerability profile supports use in combination and in front-line treatment for those unfit to receive chemotherapy



Targeting a multi-billion-dollar opportunity in HR-MDS and AML



High CR rates, rapid onset of action, and clinically meaningful durability in Phase 2 trial in RARA-positive newly diagnosed unfit AML



61% CR/CRi Rate 67%
Transfusion independence

1.2 months Time to response

10.8 monthsDuration of response

18 months
Overall survival for complete responders

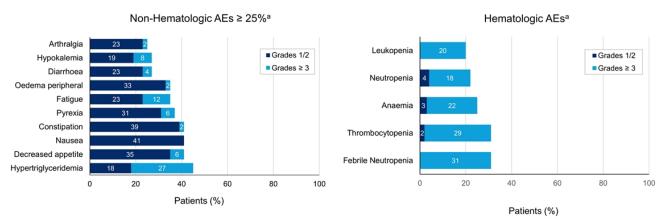
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- 89% of CRs were deep molecular or cytogenetic CRs
- Responses seen irrespective of mutation or cytogenetic risk
- Response rates in RARA-negative patients comparable to historical rates for single-agent aza¹⁻³
- 67% of low blast count AML patients achieved CR with tamibarotene/aza
 - 27% of RARA-negative low blast count AML patients achieved CR



Data from 18 response evaluable RARA-positive and 28 response evaluable RARA-negative patients presented at ASH 2020 meeting
Data from 6 response-evaluable RARA+ low blast count AML patients and 11 response evaluable RARA-negative low blast count AML patients presented at ASH 2020 meeting
1Dombret, Blood 2015; Fenaux, JCO 2010; Thepot, American Journal of Hematology 2014

Safety profile supports multiple combinations and long-term use, enhancing opportunity



- Generally well-tolerated combination in ND unfit AML patients
- · No increase in neutropenia, anemia and thrombocytopenia compared to single-agent aza
- · Majority of non-hematologic AEs are low grade and reversible



^aIncludes all enrolled ND unfit patients, N=51. Data presented at ASH 2020 meeting

Ongoing SELECT-MDS-1 Phase 3 trial in RARA-positive newly diagnosed HR-MDS

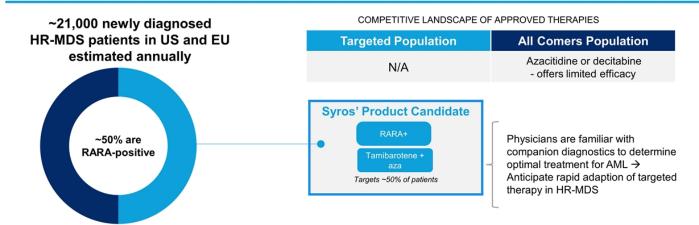


- Robustly designed, double-blind, placebo-controlled study
- 90% power to detect a difference in CR rates between experimental and control arms
- 2:1 randomization with one-sided alpha of 0.025
- FDA feedback supports:
 - Focus on RARA+ population
 - CR as primary endpoint for approval
 - Azacitidine as appropriate comparator



Key MilestonesPhase 3 data4Q23/1Q24Potential NDA filing2024

Tamibarotene has the potential to set a new treatment paradigm for **RARA-positive HR-MDS patients**

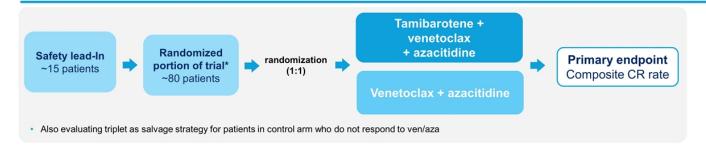


MDS represents a ~\$3.3B* market by 2026

Syros is developing potentially the first therapy for a targeted population in HR-MDS

RARA-positivity based on Syros data on file from Study SY-1425-201 and the SELECT-MDS-1 Study (27May2022) from over 175 patients with MDS Sources: Decision Resources Group, NCCN guidelines,
*Evaluate Pharma market estimate includes all risk groups for MDS

Ongoing SELECT-AML-1 Phase 2 trial of triplet regimen in ND RARA-positive unfit AML patients



Translational data support potential for RARA biomarker to enrich for patients more likely to respond to tamibarotene, for whom the standard of care is suboptimal

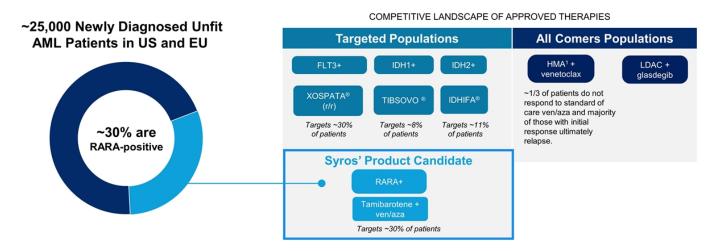
- 30% of patients do not respond to upfront treatment with ven/aza and a majority of those with initial response ultimately relapse
- Venetoclax resistance is associated with monocytic phenotype ¹⁻³; most RARA+ patients, including those who achieved CR/CRi in tamibarotene trial, have this monocytic phenotype⁴

Key Milestones	
Trial initiated	3Q 2021
Safety lead-in data	2H 2022



 $^1\mathrm{Zhang},$ Nature 2018; $^2\mathrm{Kuusanmäki},$ Haematologica 2019; $^3\mathrm{Pei},$ Cancer Discovery 2020; $^4\mathrm{Fiore},$ ASH 2020

Tamibarotene targets RARA-positive patients which represents one of the largest targeted populations in unfit AML



Newly diagnosed AML represents a ~\$6.6 billion* market by 2025



Epidemiology: DRG. Market sizing: Evaluate Pharma NOTE*: market estimate includes all AML (fit and unfit)
Prevalence of RARA-positive patients based on data presented at ESH 2017 and ESH 2019; Resistant Ven population - Dinardo, NEJM 2020; Dinardo, Blood 2019
Prevalence and Clinical Effect of IDH1 and IDH2 Mutations Among Cytogenetically Normal Acute Myeloid Leukemia Patients, Clin Lymphoma Myeloma Leuk. 2015 Sep;15(9):550-5.
Daver N, Schlenk RF, Russell NH, et al. Targeting FLT3 mutations in AML: review of current Knowledge and evidence. Leukemia. 2019;33(2):299–312.

SY-2101 Novel oral form of arsenic trioxide



Value of SY-2101



Novel oral form of arsenic trioxide (ATO) with opportunity to replace standard of care for APL patients; APL is approximately 10% of all AML patients



Orally bioavailable with exposures consistent with IV ATO



Clear development path to approval in front-line APL



Potential for rapid adoption in front-line APL, including specialized commercial effort and synergies with tamibarotene



Clear development path in front-line APL



- Dose confirmation study evaluating PK and food effect using C_{max} and AUC, and tolerability to identify optimal dose for Phase 3 trial
- FDA feedback from November 2021 supports:
 - Molecular CR as primary endpoint compared to historic data for accelerated approval
 - Event free survival (EFS) as primary endpoint compared to historic data for full approval
 - IV ATO arm for safety comparison

Key Milestones

PK and safety data Mid-2022



SY-2101 offers significant opportunity to reduce treatment burden, increase access, reduce health care costs and utilization



Treatment burden:

Current course of treatment involves infusions of



over nearly a year



Market opportunity for an oral therapy:

APL accounts for ~10% of all adult AML cases diagnosed in US and Europe annually

~2,000 patients are diagnosed with APL in the US and EU annually



NCCN AML treatment guidelines (Nov 2020) Trisenox (arsenic trioxide) USPI

SY-5609 Highly selective and potent oral CDK7 inhibitor



SY-5609: Highly selective and potent oral CDK7 inhibitor



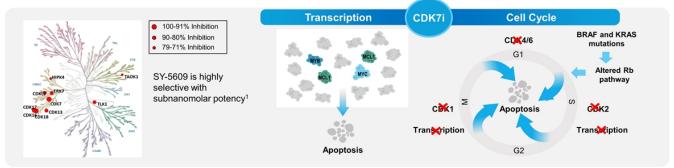
Strong pre-clinical data support potential across a range of difficult-to-treat solid tumors



Demonstrated proof of activity and proof of mechanism in refractory solid tumor patients with a generally favorable tolerability profile. Preclinical/clinical data of CDK7 inhibition support plans in PDAC and CRC

/

Further validates Syros' gene control discovery engine





Marineau JJ et al, 2021, Discovery of SY-5609: A Selective, Noncovalent Inhibitor of CDK7, J Med Chen

Phase 1 dose escalation study: Favorable tolerability profile with predominantly low-grade AEs

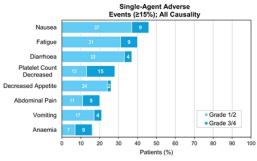
Patient Population

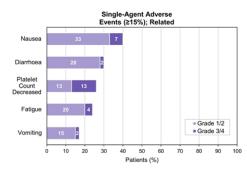
Enrolled patients with advanced breast, colorectal, lung, ovarian or pancreatic cancer, as well as other tumor types with Rb pathway alterations; heavily pretreated with as many as eight prior therapies and a median of four prior therapies

Objectives

Safety, tolerability, PK, PD (POLR2A), antitumor activity







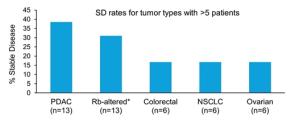
- Manageable safety profile with majority of AEs low-grade and reversible
- Low rate of discontinuation due to AEs at ~7%
- MTD not yet reached at 7d on/7d off with dosing up to 6 mg
- Induction of PD marker in patients treated at 3 mg and above reached levels associated with tumor regressions in preclinical models and with target lesion reductions in study



Data presented at ESMO 2021; data cutoff July 6, 2021

Clinical activity seen in heavily pretreated patients; strongest in PDAC, Rb-altered and KRAS-mutant cancers

Highest rates of activity seen in pancreatic cancer patients and Rb-altered tumor cohort¹



*Rb-altered patients had tumor types other than breast, ovarian, CRC, lung or pancreatic cancer, who were enrolled based on historical molecular evidence of mutation/deletion in Rb pathway gene(s).

- 13 of 45 (28.9%) of response evaluable patients achieved stable disease (SD), 6 had tumor regressions of up to 20%
- 5 of 13 (38.5%) of response-evaluable PDAC patients achieved SD, 2 with tumor shrinkage
 - 3 of 4 PDAC pancreatic cancer patients with serial CA-19-9 data had decreases (32-72%) in this clinically relevant tumor marker
- 58% of the SD patients with mutation data had KRAS mutations compared to 32% with PD
 - 67% of patients with SD who also had tumor shrinkage had KRAS mutations

CT scans show 20% decrease in target lesion

Heavily pretreated pancreatic cancer patient in 3rd relapse achieve durable SD and significant tumor marker reduction of 72%

- Scan showed 20% decrease in target lesion
- · Remained in SD for 10 months
- Received 3mg/day on 7d on/7d off schedule for 7+ months on treatment





Courtesy, START San Antonio



Data presented at ESMO 2021 ¹Internal company data

Exploring SY-5609 in two distinct approaches based on mechanistic rationale, preclinical data and clinical signals

Pancreatic Cancer

- KRAS mutations are ubiquitous and powerful activators of cell signaling and transcriptional programs
- Compelling preclinical data and synergy with gemcitabine
- Single agent SY-5609 showed:
 - Clinical activity in relapsed refractory pancreatic cancer and Rb-altered tumors
 - KRAS mutations associated with clinical activity

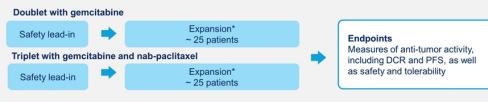
BRAF-mutant Colorectal Cancer

- BRAF mutations, present in 10% of colorectal cancer patients, are powerful activators of cell signaling and transcriptional programs
- Compelling preclinical data as single agent
- CDK7 inhibition enhances antitumor activity of immunotherapy in preclinical models



Ongoing safety lead-in of the SY-5609 trial in relapsed pancreatic patients provides opportunity to address a high unmet need

Patient population
Metastatic patients who
have progressed following
first-line treatment with
FOLFIRINOX



- · SY-5609 administered 7d on/7d off, at a starting dose of 4 mg
- Gemcitabine and nab-paclitaxel administered at approved doses

High unmet need in metastatic pancreatic cancer

- Incidence of second-line patients is ~27,500 in US¹
- Only approved second-line therapy (Onivyde® + 5-FU/LV) has PFS of 3.1 months²

Key Milestones

Trial initiated	4Q 2021	
Safety lead-in data	2H 2022	

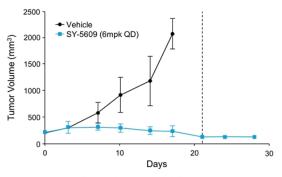


¹Sadhu and Vinuesa, Pancreatic Cancer Disease Landscape & Forecast, DRG, 2021.; ²Wang-Gillam et al, 2015.;

Preclinical data support SY-5609 in BRAF-mutant CRC in combination with PDL1 inhibitor: SY-5609 part of Roche's Phase 1/1b INTRINSIC trial

First clinical investigation of CDK7 inhibitor with an immunotherapy

Robust anti-tumor activity in BRAF-mutant CRC as single agent



- 67% (20/30) of models demonstrated ≥ 50% TGI
- 23% (7/30) demonstrated deep responses of ≥ 90% TGI
- Deep responses enriched in BRAF-mutant (5/10) models

Key Milestones:

- Roche plans for SY-5609/atezolizumab arm of its Phase 1/1b INTRINSIC trial to be open for enrollment in 1H 2022
- Roche is the sponsor of the trial and Syros is supplying SY-5609

CDK7 inhibition enhances anti-tumor activity of PD-1 inhibition¹

- CDK7 inhibitor induces DNA replication stress and genome instability in cancer cells, triggering immune-response signaling
- In animal models, CDK7 inhibitor enhances tumor response to anti-PD1 immunotherapy
 - Prolonging overall survival, and increasing immune cell infiltrates



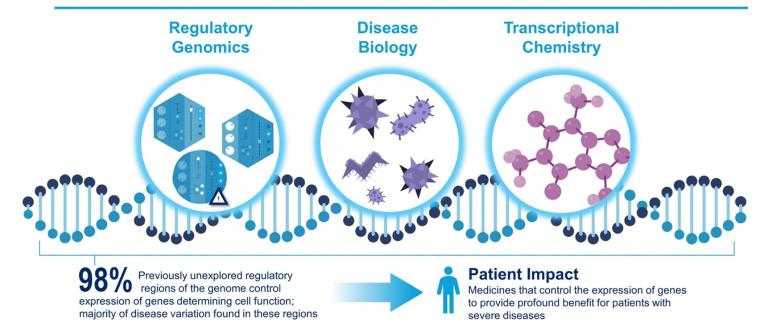
CRC data presented in May 2020 at ASCO Virtual Symposium.

1. Zhang et al., 2020, Cancer Cell 37, 1-18

Gene Control Discovery Engine



Redefining the power of small molecules to control expression of genes





Robust early-stage oncology pipeline to fuel long-term growth

ONCOLOGY

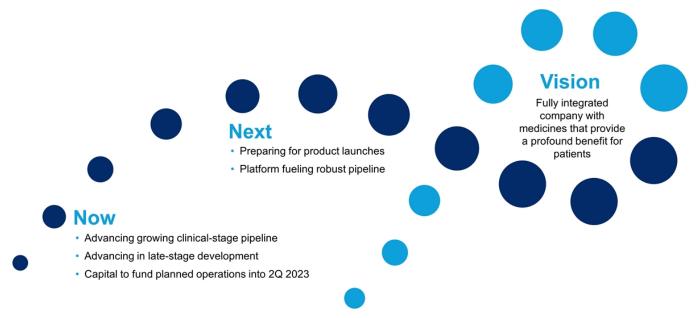
Program	Target Development	Drug Discovery	IND-enabling	Commercial Rights
CDK12 inhibitor				SYR∵S
CDK11 inhibitor				SYR∵S
WRN inhibitor				SYR

PARTNERED PROGRAMS

Program	Target Development	Drug Discovery	IND-enabling	Commercial Rights
Sickle cell disease & beta thalassemia				GBT Syros US co-promote option
Myeloproliferative neoplasms				Incyte



Rapidly advancing toward our vision





Appendix SYR∵S

Preclinical data support SY-5609 in relapsed pancreatic cancer patients in combination with chemotherapy

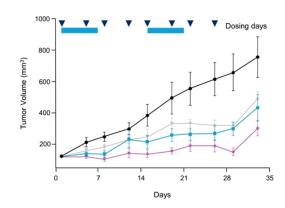
SY-5609 induced regressions in KRAS-mutant models, including those derived from heavily pretreated patients

		Prior	
Model ID	TGI (%)	treatments	KRAS mutation
1	>100	0	G12D
2	>100	3	NRAS
3	>100	5	G12D
4	>100	3	G12D
5	92	0	G12V
6	87	0	G12V
7	42	4	G12D
8	8	0	G12R

Dosed at 6mg/kg QD for 21 days

- Regressions seen in 50% (4/8) models
 - 3/4 models with regressions derived from heavily pretreated patients

SY-5609 potentiated activity of gemcitibine in pancreatic cancer model using 7d on/7d off regimen



- Vehicle
 SY-5609: 3mg/kg, P.O., QD 7/7
 Gemcitabine: 50mg/kg, I.P., BIW
 Combination: Same doses and schedules as single agents (Gem 8h prior to SY-5609 on days 1, 5, 15, 19)



Data presented at ESMO 2021

