

**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): July 12, 2021

**Cocrystal Pharma, Inc.**

(Exact name of registrant as specified in its charter)

<u>Delaware</u> (State or other Jurisdiction of Incorporation)	<u>001-38418</u> (Commission File Number)	<u>35-2528215</u> (IRS Employer Identification No.)
<u>19805 N. Creek Parkway Bothell, WA</u> (Address of principal executive offices)		<u>98011</u> (Zip Code)

Registrant's telephone number, including area code: (786) 459-1831

(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))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

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.

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

<u>Title of Each Class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common Stock	COCP	The Nasdaq Stock Market LLC (The Nasdaq Capital Market)

**Item 7.01 Regulation FD Disclosure**

Cocrystal Pharma, Inc. (the "Company") is making available an updated Company presentation on its website at [www.cocrystalpharma.com](http://www.cocrystalpharma.com) beginning on July 12, 2021. Information on the Company's website is not incorporated into this Current Report on Form 8-K. A copy of the presentation is being furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Item 7.01 (including Exhibit 99.1) 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 under such section, and shall not be deemed to be incorporated by reference into any filing of the Company under the Securities Act of 1933, or the Exchange Act.

**Item 9.01 Financial Statements and Exhibits**

**(d) Exhibits**

<u>Exhibit</u>	<u>Description</u>
99.1	<a href="#">Cocrystal Pharma, Inc. Corporate Presentation, dated July 2021</a>

**SIGNATURES**

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.

**Cocrystal Pharma, Inc.**

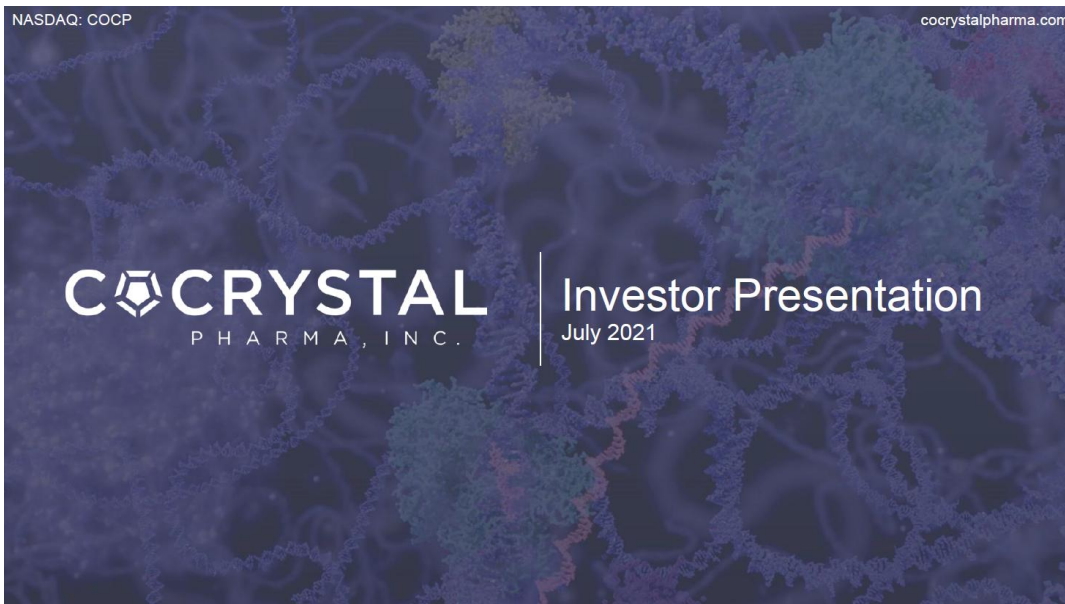
Date: July 12, 2021

By: /s/ James Martin

Name: James Martin

Title: Co-Interim Chief Executive Officer and Chief Financial Officer

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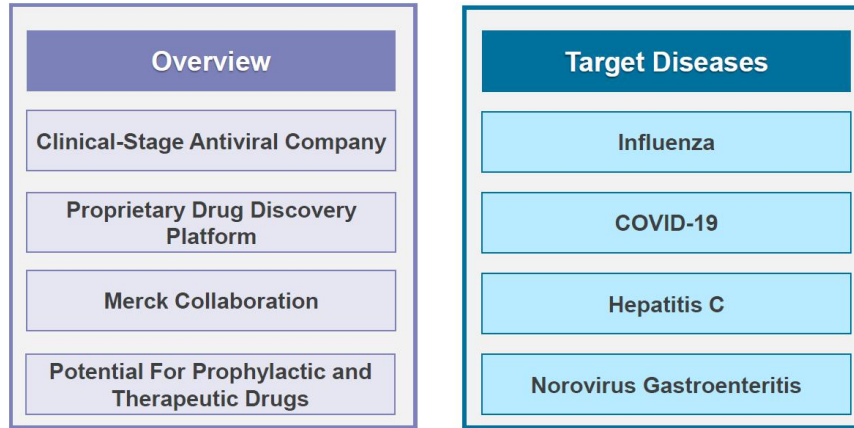


## Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including statements regarding the market opportunities for the treatment of acute and chronic viral diseases which are the focus of our programs; the development pipeline; expected results of our collaboration with Merck Sharp & Dohme Corp. ("Merck"), including the anticipated characteristics of the drug candidates developed as the result of this collaboration, expected funding by Merck of future research, and development and commercialization of products derived from such collaboration, and the expected future payments and royalties in connection with the collaboration; the expected future characteristics and progress in developing a compound for the effective treatment and prevention of COVID-19 infections and the anticipated timing of achieving the value-driving milestones, including achieving pre-IND status and development of additional COVID-19 inhibitors with novel mechanism of action in 2021; the expected progress of our Influenza A program, including the initiation of Phase 1 study in Q3 2021; the expected synergistic effects of CC-42344 with approved Influenza antivirals; the anticipated future success and market share gains of our HCV drug candidate, and the expected progress of our HCV program, including future partnership for further development; the expected progress of our norovirus program and the anticipated timing of achieving the value-driving milestones, including completion of a proof-of-concept animal study in H2 2021; and our estimates with respect to market opportunities and development pipeline. Forward-looking statements are prefaced by words such as "anticipate," "expect," "plan," "could," "may," "will," "should," "would," "intend," "seem," "potential," "appear," "continue," "future," "believe," "estimate," "forecast," "project," and similar words. Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. We caution you, therefore, against relying on any of these forward-looking statements. Our actual results may differ materially from those contemplated by the forward-looking statements for a variety of reasons, including, without limitation, the risks arising from the impact of the COVID-19 pandemic on our Company, including supply chain disruptions, our continued ability to proceed with our programs, receive necessary regulatory approvals and continue to rely on certain third parties, and on the national and global economy, risks arising from our reliance on continuing collaboration with Merck under the collaboration agreement, the future results of preclinical and clinical studies, general risks arising from clinical trials, receipt of regulatory approvals, development of effective treatments and/or vaccines by competitors, and our ability to find and enter into agreements with suitable collaboration partners. Further information on the risk factors that could cause actual results to differ materially from those expressed or implied by forward-looking statements, is contained in our filings with the Securities and Exchange Commission, including our Annual Report on Form 10-K for the year ended December 31, 2020. Any forward-looking statement made by us in this presentation speaks only as of the date on which it is made. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We undertake no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law.



## About Cocrystal Pharma



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## Investment Highlights

- Applying proprietary structure-based drug design technology to develop first- and best-in-class broad-spectrum antiviral drugs
- Large market opportunities for the treatment of acute and chronic viral diseases including seasonal and pandemic influenza, COVID-19, hepatitis C, and norovirus gastroenteritis
- Near-term initiation of Phase 1 trial for potent, broad-spectrum treatment for seasonal and pandemic influenza A
- Product candidates are tested for multiple routes of delivery
- Robust development pipeline including Merck collaboration
- Seasoned leadership includes two Nobel laureates and biotech veterans with proven success in drug discovery and development, business and finance
- Cost-efficient business model supported by strong cash position and clean capital structure

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## Seasoned Leadership

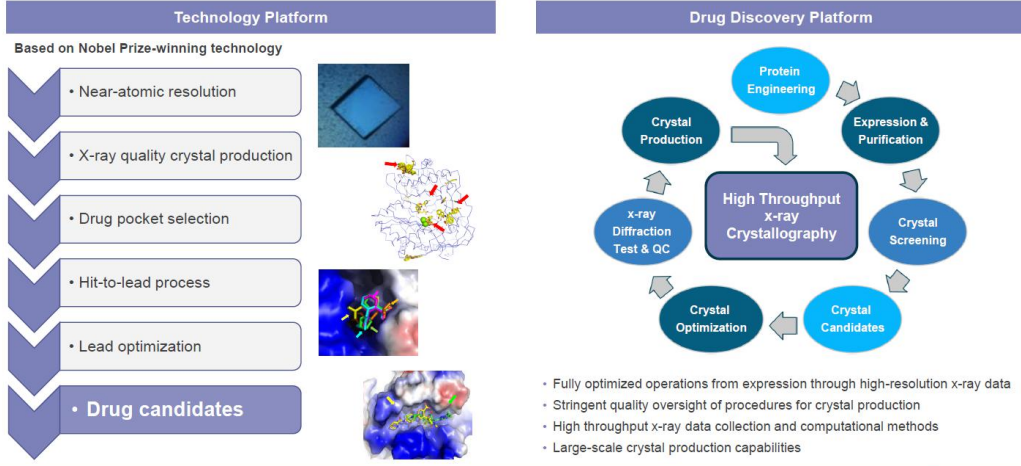
Management Team	Scientific Advisory Board
<p><b>Sam Lee, Ph.D.</b> Interim Co-Chief Executive Officer &amp; President</p> <ul style="list-style-type: none"> <li>• 25+ years of anti-infective drug discovery research experience; played key role in early development of phosphoinositide 3-kinase (PI3K) delta inhibitors</li> </ul>  	<p><b>Roger Kornberg, Ph.D.</b> Chairman of the Board, Chairman of the Scientific Advisory Board</p> <ul style="list-style-type: none"> <li>• Professor</li> <li>• Stanford University School of Medicine</li> <li>• Nobel Laureate</li> </ul>
<p><b>James J. Martin, MBA, CPA</b> Interim Co-Chief Executive Officer &amp; Chief Financial Officer</p> <ul style="list-style-type: none"> <li>• 25+ years of finance and management experience including providing financial leadership to commercial-stage, publicly traded health science companies</li> </ul>    	<p><b>Michael Levitt, Ph.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Professor</li> <li>• Stanford University School of Medicine</li> <li>• Nobel Laureate</li> </ul>
	<p><b>Baek Kim, Ph.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Director of Center for Drug Discovery</li> <li>• Emory University</li> </ul>
	<p><b>Bob Lehman, Ph.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Professor (Emeritus)</li> <li>• Stanford University School of Medicine</li> </ul>
	<p><b>Gary Schoolnik, M.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Professor (Emeritus)</li> <li>• Stanford University School of Medicine</li> </ul>
	<p><b>Roland Strong, Ph.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Professor</li> <li>• Fred Hutchinson Cancer Research Center</li> </ul>
	<p><b>Christophe Verlinde, Ph.D.</b> Member</p> <ul style="list-style-type: none"> <li>• Professor (Emeritus)</li> <li>• University of Washington</li> </ul>

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## Proprietary Technology and Drug Discovery Platform



## Robust Development Pipeline in High-Value Indications

Program		Discovery	Preclinical	Phase 1	Phase 2a	Phase 2b	Phase 3
Influenza A/B	Influenza A/B inhibitor	In collaboration with  MERCK					
Pandemic Influenza A	CC-42344 PB2 Inhibitor						
COVID-19 (Licensed from KSURF)	CDI-45205 Protease Inhibitor						
COVID-19	Replication Inhibitors						
Hepatitis C (HCV)	CC-31244 Pan-genotypic NS5B NNI						
Norovirus (Gastroenteritis)	Replication and Protease Inhibitors						

## Overview | Antiviral Program: Influenza A/B Merck Collaboration

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### Influenza A/B Merck Collaboration



#### Influenza A/B Crystals



- Broad-spectrum, potent dual influenza A/B drug candidates
- Binds to highly conserved site of influenza A and B replication complex
- Expected to be active against seasonal, pandemic and existing drug-resistant influenza A and B strains

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### Collaboration Terms Overview

Eligible to receive up to \$156 million in milestone payments  
+ royalties on product sales

- Exclusive worldwide license and collaboration agreement to discover and develop proprietary influenza A/B antiviral agents signed in January 2019
- Agreement structure during the first 2 years:
  - Cocrystal and Merck jointly developed potent influenza A/B inhibitors
  - Cocrystal's R&D expenses reimbursed by Merck
  - Cocrystal met all research collaboration agreement obligations
- In the next phase, Merck is responsible for:
  - All funding and R&D, including clinical development
  - Worldwide commercialization of product(s) derived from collaboration

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## Overview | Antiviral Program: COVID-19

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### Kansas State University Research Foundation Agreements

Cocrystal acquired exclusive patent rights and know-how for coronavirus and norovirus therapeutics for human use

- License agreements with KSURF in 2020 to further develop proprietary broad-spectrum compounds for coronavirus and norovirus
- Program status:
  - KSURF compounds demonstrated *in vitro* antiviral activity against SARS-Cov-2 and *in vivo* efficacy in proof-of-concept animal model
  - Preclinical lead, CDI-45205, selected in Q4 2020 from KSURF licensed inhibitors
  - Compound to be developed for injectable and inhalation administration

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## Status of COVID-19 Treatment

Cocrystal is researching and developing multiple options needed to prevent or treat COVID-19

There is no approved COVID-19 antiviral prophylactic treatment

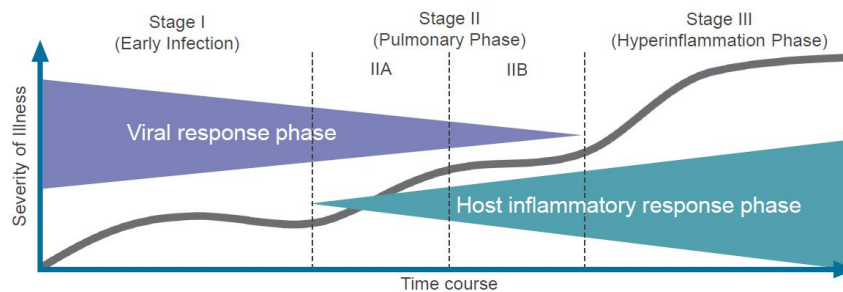
There is no currently approved or authorized oral COVID-19 antiviral treatment of mild-to-moderate COVID-19 in adults and pediatric patients

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## Stages of COVID-19



Clinical Symptoms	Mild constitutional symptoms Fever >99.6°F Dry cough	Shortness of breath without (IIA) and hypoxia (IIB) (PaO <sub>2</sub> /FiO <sub>2</sub> ≤300 mmHg)	ARDS SIRS/shock Cardiac failure
Clinical Signs	Lymphopenia	Abnormal chest imaging Transaminitis Low-normal procalcitonin	Elevated inflammatory markers (CRP, LDH, IL-6, D-dimer, ferritin) Troponin, NT-proBNP elevation

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## Need for Therapies Targeting SARS-CoV-2 Replication

*“The bottom line of what we need to do looking forward, and the clear need in this, is the development of potent antivirals directly acting on SARS-CoV-2.*”

*“Very similar to what was done with the highly successful drug development program for HIV as well as for Hepatitis C, and what I referred to is the future development of therapeutics, will be based on the identification of vulnerable targets in the SARS-CoV-2 replication cycle and the design of drugs to inhibit these vulnerable targets.*”

*“As I mentioned, we are beginning of this and this is going to be the direction of the future.”*

Anthony S. Fauci, M.D.  
Director, National Institute of Allergy and Infectious Diseases  
Chief Medical Adviser to President Biden  
*Reuters*  
February 22, 2021

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## COVID-19 Program Status

- Potential first-in-class therapeutic *and* prophylactic treatment
- Develop SARS-CoV-2 inhibitors using proprietary platform technology
- Targeting viral replication complex and protease

### ***Achieved Milestones and Next Steps:***

- ✓ Q4 2020     CDI-45205 Selected as Preclinical Lead from KSURF-licensed inhibitors
- ✓ Q2 2021     CDI-45205 shows activity against SARS-CoV-2 and two prominent variants
- 2021         Working toward pre-IND status with CDI-45205
- 2021         Develop additional COVID-19 Inhibitors with novel mechanism of action

Overview | Antiviral Program:  
Pandemic Influenza A



# Significant Need for Pandemic Influenza Therapies

## Seasonal and pandemic infections

1 Billion cases annually<sup>2</sup>

3-5 Million cases of severe illness annually<sup>1</sup>

Up to 650,000 deaths worldwide annually<sup>1</sup>

Current antiviral treatments are burdened by significant viral resistance

Approved influenza therapies have major limitations

- Tamiflu® has a long history of drug resistance issues<sup>3</sup>
- Xofluza™ (approved November 2018) has shown emergence of drug resistant mutations<sup>4</sup>

1. BCC Research (May 2018) The Global Influenza Market  
 2. Hussain, et al. Infection and Drug Resistance 2017;10 121-134  
 3. ScienceDaily (March 2014) Tamiflu-resistant influenza related to mutations in genome  
 4. NEJM Journal Watch (September 2018) A Promising Drug for Influenza?



# Influenza Remains a Major U.S. and Global Concern

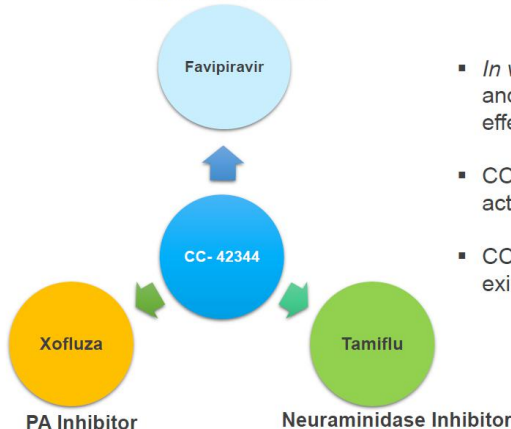


<p>US on track for one of the worst flu seasons in decades Jan. 6, 2020</p>	<p>Swine flu strain with human pandemic potential increasingly found in pigs in China Jun. 29, 2020</p>	<p>Flu Season Off To Early Start, And It Could Be Severe Jan. 6, 2020</p>
<p>Flu Rates Rising, Pediatric Deaths Double Compared to 2018: CDC Dec. 30, 2019</p>	<p>Flu viruses resistant to new drug Xofluza uncovered in Japan</p>	<p>Child Flu Deaths Hit Record High for This Time of Year Jan. 7, 2020</p>
<p>The Flu Season My Yet Turn Ugly, CDC Warns Jan. 8, 2019</p>		<p>Another Flu Pandemic Is Inevitable, World Health Organization Says Mar. 11, 2019</p>



# CC-42344 Shows Strong Synergistic Effects with Approved Influenza Antivirals

Polymerase Inhibitor



- *In vitro* combination studies with Xofluza, Tamiflu, and Favipiravir demonstrated strong synergistic effects
- CC-42344 shows high barrier to drug resistance and active against known resistant influenza strains
- CC-42344 is promising cocktail candidate with existing influenza antivirals



## CC-42344: Pharmacological, Safety, Toxicity and PK Evaluations Successfully Completed

- ✓ *In vitro* antiviral profiling against seasonal and pandemic influenza A strains
- ✓ Cytotoxicity including larger screen: HepG2/high content analysis and 13 cell lines
- ✓ Caco-2 bidirectional permeability
- ✓ CYP inhibition (HLM): inhibition (2D6, 3A, 1A, 2B6, 2C8, 2C9, 2C19) & time dependent inhibition (2D6, 3A4)
- ✓ Thermodynamic/aqueous solubility
- ✓ pION solubility determination (at pH 7.4)
- ✓ Metabolic stability in rat and human microsomes (intrinsic clearance)
- ✓ Plasma protein binding (human)
- ✓ Plasma stability/half-life determination (human, rat)
- ✓ Pharmacokinetics: in rats (IV/PO), mouse (IV/PO) and dogs (IV/PO)
- ✓ In silico genotoxicity /carcinogenicity
- ✓ Off-target: kinase/receptor profiling; safety screen (CEREP)
- ✓ Mitochondrial toxicity (GLU/GAL)
- ✓ Mini Ames (genotox) screen
- ✓ Mini hERG (*in vitro* pharmacology) screen
- ✓ Exploratory 7-day mouse tox study (up to 500 mg/kg/day)

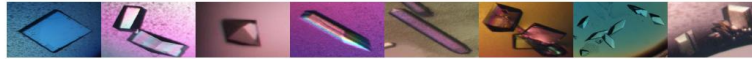
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## CC-42344: Influenza A Pandemic Antiviral Drug

### Influenza A Crystals



- Binds to the highly conserved pocket on replication enzyme
- Exhibits broad spectrum activity against seasonal and pandemic influenza strains
- Favorable preclinical safety profile and pharmacokinetic properties
- Multiple routes of administration to include oral, inhalation and injection

#### **Achieved Milestones and Next Steps:**

- Q2 2021      Completed IND-enabling studies
- Q2 2021      Selected CRO
- Q3 2021      Initiate Phase 1 Study

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# Overview | Antiviral Program: Hepatitis C

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## Hepatitis C Strategy

Lead program CC-31244, Phase 2a study completed for the treatment of HCV

### Current HCV Market Overview

- Ultrashort treatment strategy
- Limitations of existing long-term HCV therapies:
  - Longer period for virus to replicate and mutate, creating significant drug resistance challenges
  - Increased risk of adverse events
  - Greater opportunity for missed doses
- Multiple opportunities to develop shorter combination therapy with approved HCV drugs
- Proven rapid commercial success and market-share gains with shorter treatment regimens

### Evolution of Shorter Therapy

#### Nucleoside/NS5A Inhibitors



**Gilead's EPCLUSA®**  
12-week treatment  
Approved June 2016 ←

#### Protease/NS5A Inhibitors



**AbbVie's Mavyret™**  
8-week treatment  
Approved August 2017 ←

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## CC-31244: HCV Non-Nucleoside Inhibitor (NNI)

### HCV GT1 – GT6 NS5B Polymerase Crystals



### Next Generation Combination (Cocktail) Therapy

- Potential best-in-class HCV NNI with a strong profile
- Broad-spectrum, potent NS5B polymerase inhibitor
- Effective against known NNI drug resistant variants
- Orally administered; liver targeting
- Ready for combination therapy clinical trials

### Potential Best-in-Class NNI

Drug	Genotype	Dose (mg)	Treatment Frequency	Viral Load Reduction (Log <sub>10</sub> IU/ml)
CC-31244	Genotypes 1-6	400	QD	(3.0)
ABT-333 (Dasabuvir) <sup>1</sup>	Genotype 1	400	BID	(1.08)
		800	BID	(0.95)
GS-9190 (Tegobuvir)	Genotype 1	40	BID	(1.0)
		120	BID	(1.5)

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## Favorable HCV Phase 2a Trial Results with CC-31244

- 6 weeks of Eplclusa® therapy including 2 weeks of CC-31244
- Treatment was well tolerated with no study discontinuations due to adverse events
- 8 of 12 subjects (67%) achieved both SVR12 and SVR24, considered virologic cure
- 4 patients had virologic relapse at Week 10, 4 weeks after completion of treatment
- 8 patients who achieved SVR had significantly higher frequency of CD8+ T cells compared with the 4 who relapsed, providing opportunities for personalized medicine

### **Achieved Milestones and Next Steps:**

- ✓ Q1 2020 Final Report on Phase 2a U.S. Trial Filed with U.S. FDA
- Development Point Achieved; Seeking Partner for Further Development

Overview | Antiviral Program:  
Norovirus Gastroenteritis



## Norovirus: No Approved Treatment

### Norovirus Polymerase and Protease Crystals



Estimated annual cost of \$60 billion worldwide due to healthcare costs and lost productivity<sup>1</sup>

**~685 Million**  
infections worldwide annually<sup>1</sup>

**19-21 Million**  
cases in the U.S.<sup>1</sup>

**465,000**  
emergency department visits in the U.S.<sup>1</sup>

**109,000**  
hospitalizations in the U.S.<sup>1</sup>

1. CDC, Norovirus Disease in the United States, 2020

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## Potential for Developing First Norovirus Therapy

- Potent, broad-spectrum polymerase and protease inhibitors licensed from KSURF
- Structure-based lead molecule discovery ongoing

### ***Achieved Milestones and Next Steps:***

- ✓ Q2 2020 Filed Additional Patent Application
- H2 2021 Complete Proof-of-Concept Animal Study

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Positioned for Growth

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## Expanding Intellectual Property Portfolio

- **Influenza A/B**
  - Influenza A/B inhibitor
  - Pending applications in U.S. and worldwide
- **Coronavirus**
  - Issued patents in U.S. and major countries
  - Pending U.S. provisional applications
- **Pandemic Influenza A**
  - PB2 (influenza A inhibitor)
    - Pending applications in PCT and Taiwan
    - Pending U.S. provisional applications
- **HCV**
  - NS5B (NNI)
    - Issued patents in U.S.
    - Pending applications in U.S. and worldwide
    - Pending U.S. provisional application
- **Norovirus**
  - Issued patents in U.S. and major countries
  - Pending U.S. provisional applications

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## Financial Snapshot

**~\$121 Million**  
Market cap

**16.3 Million**  
Average 3 month  
daily share volume<sup>1</sup>

**\$67.2 Million<sup>2</sup>**  
Cash/equivalents as of  
June 30, 2021

**97.5 Million**  
Common shares  
outstanding

**99.5 Million**  
Fully diluted shares

- Clean balance sheet
  - No preferred shares
  - No debt
  - Only 243,000 warrants
- Cash runway beyond 2024

<sup>1</sup> Yahoo Finance

<sup>2</sup> Company prepared bank reconciliation

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## Investment Highlights

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