

Forward Looking Statements

This presentation contains forward-looking statements, the anticipated timing of our drug development programs, including near-term milestones, and anticipated completion or initiation of studies, IND filings, and opportunities in the hepatitis C and influenza antiviral markets. Forward-looking statements also are prefaced by words such as "expect," "plan," "intend," "anticipate," 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. Our actual results may differ materially from those contemplated by the forward-looking statements for a variety of reasons, including delays in manufacturing created by third parties, the ability of clinical research organizations to recruit patients, and the failure to obtain adequate financing to fund our programs. Also see the risk factors contained in our Form 10-K for the year ended December 31, 2017. We caution you, therefore, against relying on any of these forward-looking statements. They are neither statements of historical fact nor guarantees or assurances of future performance. We do not intend to nor do we undertake any duty to update these forward-looking statements.



Corporate Overview

Highlights

Clinical Stage Antiviral Company

Wholly Owned Product Portfolio

Proprietary Drug Discovery Platform

Target Diseases

Hepatitis

Influenza

Norovirus Gastroenteritis



Opportunities

Significant unmet medical needs across a variety of viral infections

Influenza

Seasonal and pandemic

3 - 5 million infections/year

Estimated economic impact of seasonal flu in US: \$50B to \$150B

Hepatitis

Leading causes of liver failure and liver cancer

Chronic infections > 71 million HCV

Opportunity for shorter combination therapy

Norovirus

- Chronic (potentially orphan indication)
- Acute gastroenteritis

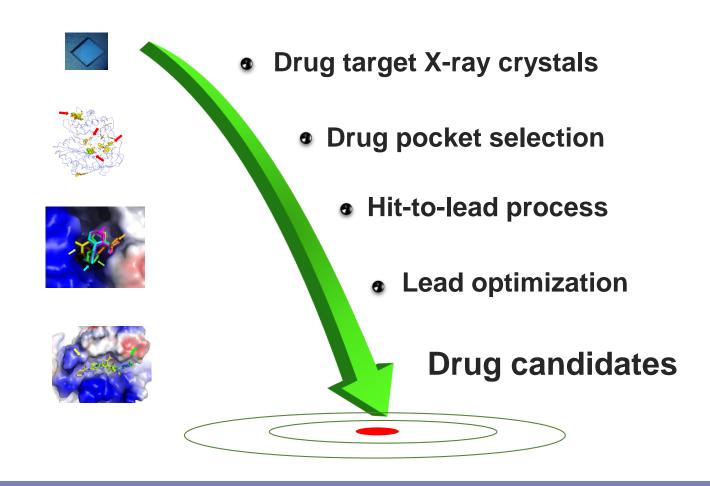
> 250 million acute cases/year

No treatment available Economic cost in the US alone > \$5 Billion

Reference: https://www.cdc.gov/flu, www.cdc.gov/hepatitis, www.cdc.gov/norovirus

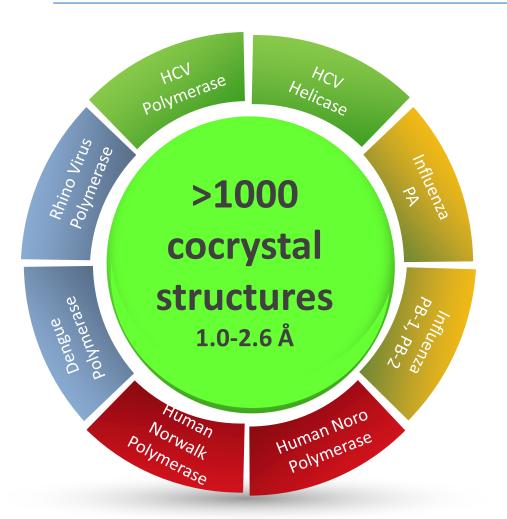


Cocrystal Drug Discovery Platform Technology For Developing Broad Spectrum Antiviral Therapeutics

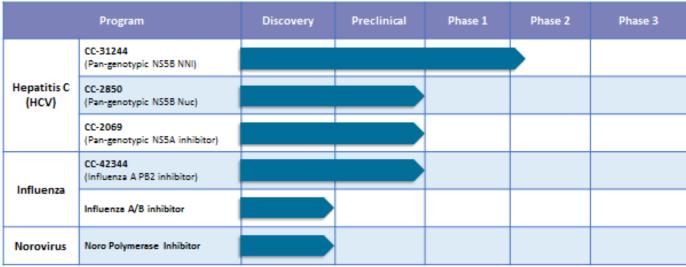




Technology Platform Focuses on Well Validated Drug Targets: Viral Replication Enzymes

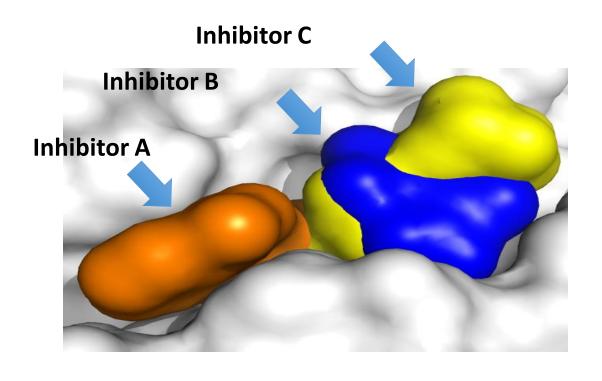


Cocrystal's Robust Development Pipeline



Structure-based Drug Discovery Technology

Example of HCV fragment hits



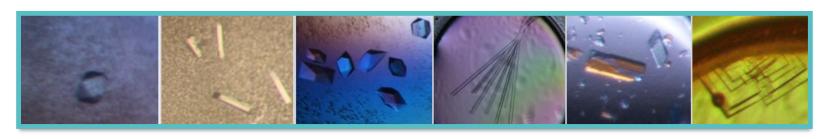
Advantages of the Cocrystal approach

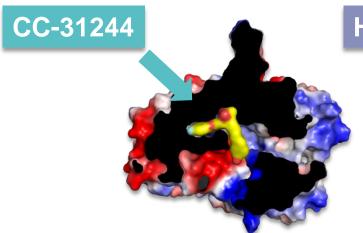
- Provides 3D structures of inhibitor protein complexes at near-atomic resolution with immediate insight to guide SAR
- Identifies attractive drug binding pockets
- Allows rapid turnaround of structural information through highly automated X-ray data processing and refinement

CC-31244: Broad Spectrum HCV NNI

Demonstration of Cocrystal's Enabling Technology

HCV GT1 – GT6 NS5B polymerase crystals





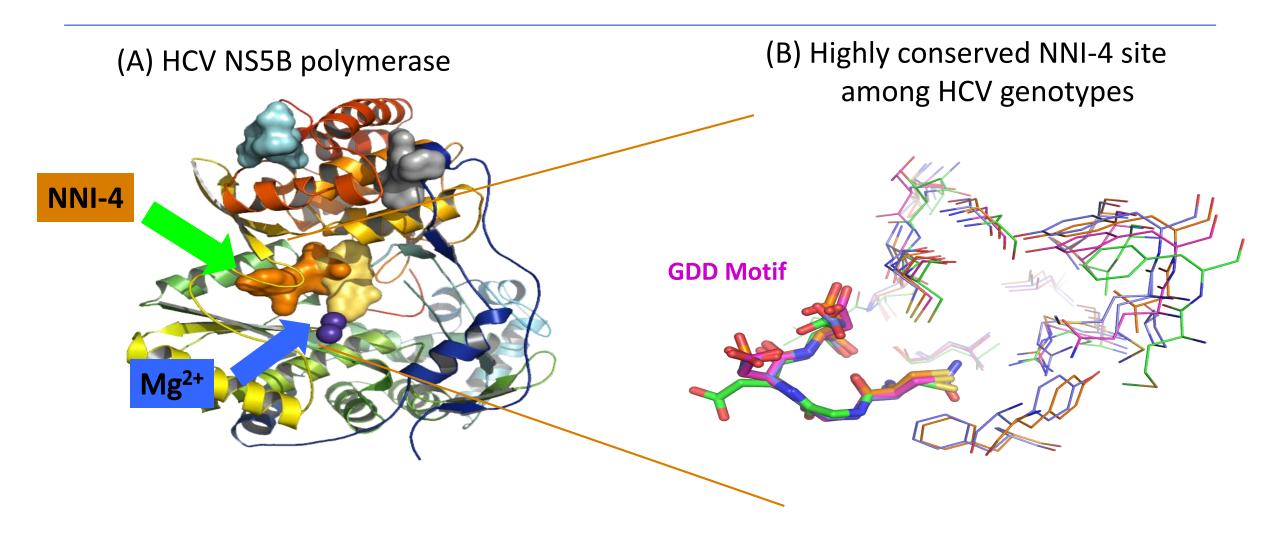
HCV NS5B polymerase

Novel HCV Non-nucleoside Inhibitor, CC-31244

Properties	Selection criteria			
Pharmacological properties	 Good antiviral activity (EC50, single digit nanomolar) High-affinity binding to a highly conserved drug binding site Broad spectrum against genotypes 1-6 High barrier to drug resistance Selective 			
Ŭ Pharmacokinetics	 Favorable PK properties Adequate half-time and biodistribution Potential for oral administration 			
 ☐ Chemical properties	Stable moleculeSuitable for API scale up and manufacturing			
☑ Safety and toxicity	 Excellent profile for ADMET Absence of obvious cytotoxicity and cardiac toxicity Absence of obvious toxicity in animal studies 			



CC-31244 Binds To a Highly Conserved Drug Binding Site (NNI-4) of HCV NS5B Polymerase





CC-31244 Exhibits Broad Spectrum (Pan-genotypic) Antiviral Activity

CC-31244 HCV replicon EC₅₀ fold change, <6 fold

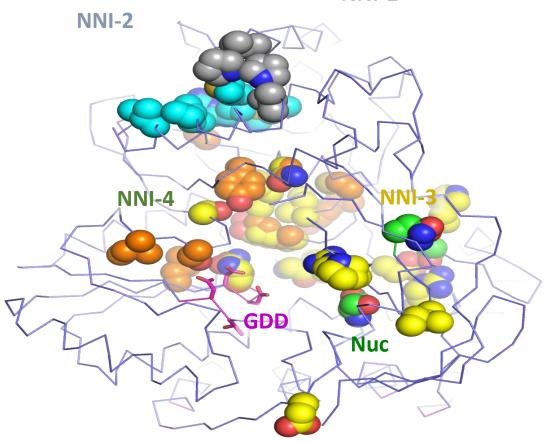
HCV replicon/chimeric replicon EC₅₀ results

Genotype	C-31244 EC ₅₀ , μM	EC ₅₀ Fold change	Sofosbuvir EC ₅₀ , μΜ	EC ₅₀ fold change
1b	0.005	1.0	0.042	1.0
1 a	0.009	1.8	0.034	0.8
2b	0.026	5.2	0.028	0.66
3 a	0.011	2.2	0.14	3.2
4 a	0.021	4.2	0.047	1.1
5a	0.002	0.4	0.075	1.7

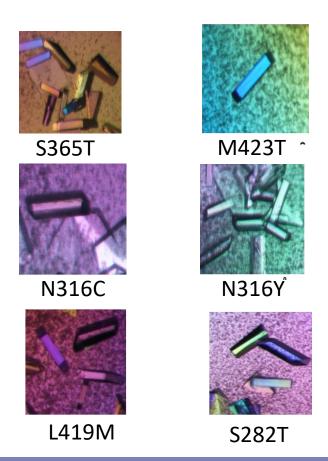


Drug Discovery Platform Enables Development of Antivirals with High Barrier to Drug Resistance

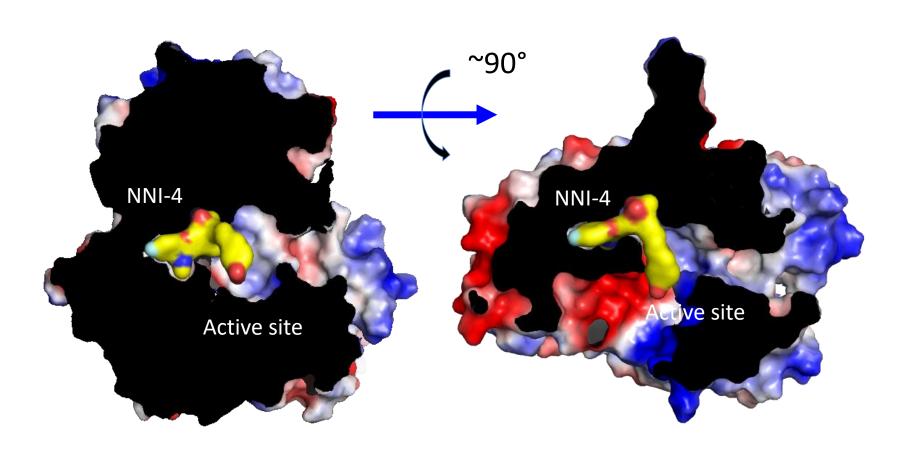
(A) Common NS5B drug resistant variants



(B) Cocrystal's NS5B drug resistant crystals

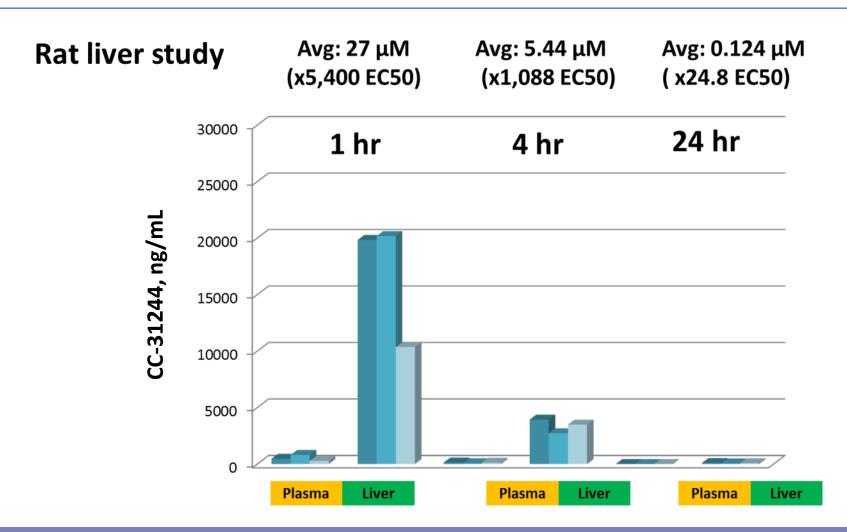


CC-31244 Extends From the Highly Conserved NNI-4 site To the Polymerase Active Site



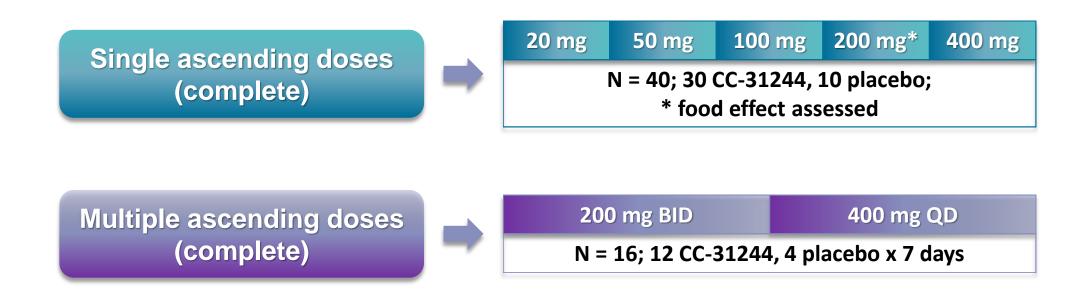


CC-31244 Exhibits Excellent Liver Targeting





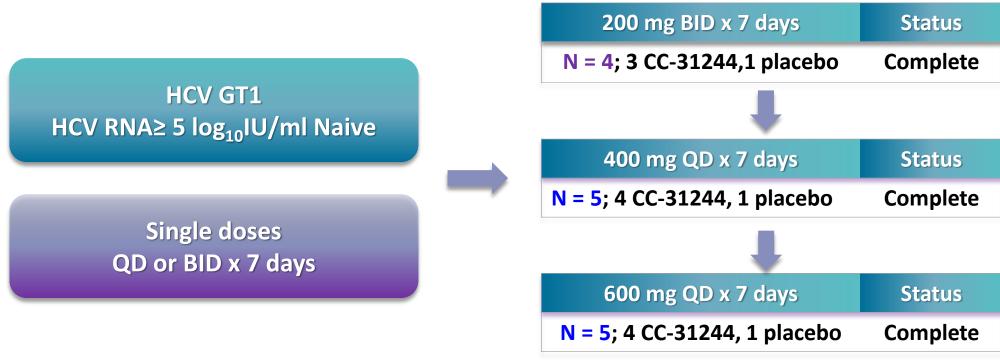
Phase 1a Study Completed



Endpoints

Safety: adverse events (AEs) and laboratory abnormalities

Phase 1b Study Completed



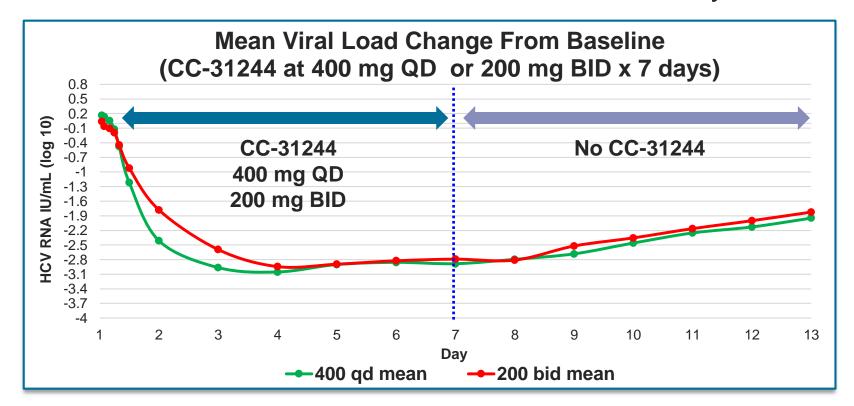
Endpoints

- Efficacy: changes in HCV RNA viral load
- Safety: adverse events (AEs) and laboratory abnormalities



Superior Viral Load Reduction

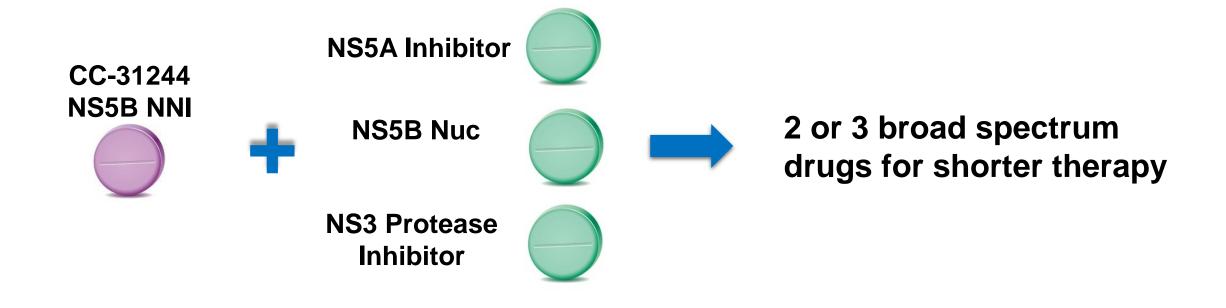
- HCV RNA viral load decline of 3 logs by 48 hours
- After the NNI treatment, the viral load levels were slowly increased





Cocrystal's HCV Strategy: Shorter Combination Therapy

Multiple opportunities in developing shorter combination therapy with approved HCV drugs



Best-in-Class Potential of Any NNI

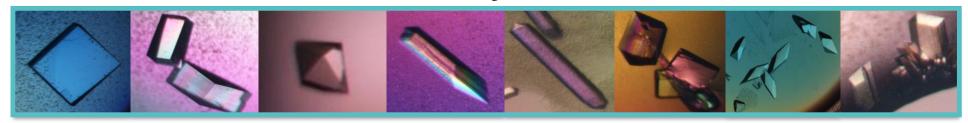
Drug	Genotype	Dose (mg)	Treatment Duration (days)	Viral load reduction (Log ₁₀ IU/ml)
CC-31244 —	Genotype 1-6	← 400 ←	7 (QD)	-3.0
ABT-333* (Dasabuvir)	Genotype 1	400	3 (BID)	-1.08
		800	3 (BID)	-0.95
GS-9190 (Tegobuvir)	Genotype 1	40	3 (BID)	-1.0
		120	3 (BID)	-1.5

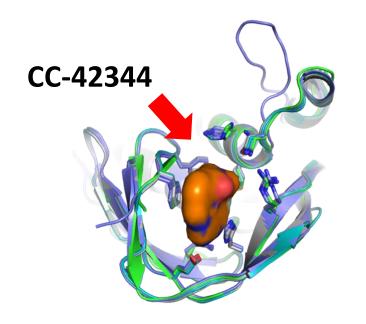
(*: approved DAA)



Influenza A Preclinical Lead CC-42344

Influenza Crystals





- Potent and favorable PK profiles
- Excellent anti-influenza activity against pandemic, seasonal, and Tamiflu resistant influenza strains
- Binds a highly conserved site
- Novel mechanism of action
- IND filing scheduled in 2018



Summary and Conclusion

- Demonstrated value of Cocrystal's drug discovery platform for developing broad spectrum antivirals
- Demonstrated a favorable preclinical profile of Cocrystal's HCV lead,
 CC-31244
- Completed CC-31244 Phase 1a and 1b; demonstrated an acceptable safety profile in both healthy volunteers and HCV RNA viral load reduction of ~3 logs by 48 hours
- CC-31244 Phase 2a scheduled in Q2 2018
- Additional influenza and Noro IND filings scheduled in 2018/2019



