



Second Quarter 2022 Financial Results and Business Update

August 8, 2022

NASDAQ: AVIR



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Bemnifosbuvir

Program Update for COVID-19

- Bemnifosbuvir Clinical Development Program Update
- Omicron BA.2 Results
- Atea's Second-Generation Protease Inhibitor Discovery Program
- Bemnifosbuvir *In Vitro* Combination Results

COVID-19: Ongoing Pandemic with Continued Unmet Medical Needs

- *New oral antivirals needed with improved profiles due to current treatment limitations*
 - Drug-drug interactions, relapse and resistance concerns
 - Bemnifosbuvir, as a cornerstone therapeutic, has the potential to address these limitations
- Shorter time intervals between emergence of variants - subvariants
- Rate of re-infection is increasing
- Moving target: failure of antibodies, decreased vaccine-induced immunity and need for frequent boosters for emerging variants
- New variants fuel surges, may be life threatening to those at high risk with comorbidities and have caused increased hospitalizations and death in 65+
- BA.5 is vast majority of infections and new variants are expected to fuel a surge this fall

Bemnifosbuvir Advancing to Late-Stage Development for COVID-19

- End-of-Phase 2 meeting held with FDA and met with European Medicines Agency Emergency Task Force
 - Reviewed comprehensive bemnifosbuvir data package, including MORNINGSKY results
 - Discussed design of global late-stage clinical trial for the treatment of mild-to-moderate COVID-19
- Finalization of global late-stage clinical trial design expected near-term
 - Trial to focus on high-risk patients, including immunocompromised, regardless of vaccination status
 - Primary endpoint of hospitalization and death
 - Bemnifosbuvir 550 mg BID dose for five days to be evaluated
- Operational planning currently underway for global late-stage trial with goal of initiation in Q4 2022

AT-511 (free base of bemnifosbuvir) Remains Fully Active Against All Variants of Concern Evaluated, Including Emerging Variants

SARS-CoV-2 variant			AT-511 EC ₉₀ , μM (n)		Fold change (variant/USA-WA-1)
Variant	Lineage	Strain	Mean	SD	
-	A	USA-WA1/2020	0.75 (n=2)	0.21	-
Alpha	B.1.1.7	England/204820464/2020	2.15 (n=3)	0.22	2.9
Gamma	P.1	Japan/TY7-503/2021	2.50 (n=3)	0.50	3.3
Epsilon	B.1.427	USA/CA/VRLC009/2021	0.76 (n=2)	0.48	1.0
-	A	USA-WA1/2020	0.43 (n=2)	0.12	-
Beta	B.1.351	USA/MD-HP01542/2021	0.80 (n=2)	0.23	1.9
-	A	USA-WA1/2020	1.20 (n=3)	0.37	-
Delta	B.1.617.2	USA/PHC658/2021	1.36 (n=3)	0.34	1.1
-	A	USA-WA1/2020	0.58 (n=5)	0.26	-
Omicron (BA.1)	B.1.1.529	USA/MDHP20874/2021	0.50 (n=3)	0.27	0.86
-	A	USA-WA1/2020	0.59 (n=2)	0.18	-
Omicron (BA.2)	B.1.1.529	USA/CO-CDPHE-2102544747/2021	0.54 (n=2)	0.08	0.92

Readout: VYR (virus yield assay); Cells: Normal human-derived tracheal/bronchial epithelial cells

Advancing Multipronged Approach for COVID-19 Future Preparedness

Atea is at the Forefront of Developing a Combination Regimen for COVID-19

- **Bemnifosbuvir - cornerstone therapeutic for both mono- and combination therapy**
- **First-generation protease inhibitor and unmet medical needs in COVID-19**
 - Drug-drug interactions
 - Relapse
 - Potential for emergence of resistance with broad use or prolonged treatment and retreatment
- **Bemnifosbuvir (nucleoside) + protease inhibitor rationale: combining different mechanisms as with other viral RNA diseases should provide solutions for specific patient populations**
 - Development of second-generation protease inhibitor with improved profile
 - Additive benefits in combination regimen for emerging / future variants addressing unmet medical needs

Atea COVID-19 Program for Second Generation Protease Inhibitor (PI)

Promising Highly Potent and Metabolically Stable Compounds

- Advancing discovery efforts (synthesis of ~200 compounds to-date, leveraging CADD and docking models)
- Compounds have achieved **nanomolar / sub-nanomolar** potency
- In parallel, opportunistically evaluating external PI licensing opportunities

Evaluation of Internal PIs (Nirmatrelvir as Control)

Property	Nirmatrelvir	Compound A	Compound B	Compound C
Mpro Biochemical IC ₅₀ (nM)	8.9	24	53	12
Vero-E6 EC ₅₀ (+Pgp inh.) (nM)	20	0.80	22	17
CC ₅₀ (μM)	>100	>100	>100	>100
T _{1/2} (min) in human liver microsomes (metabolism)	11	2.5	4.4	153

Compound A has superior potency

Compound C has good potency and metabolic stability

Target Profile:

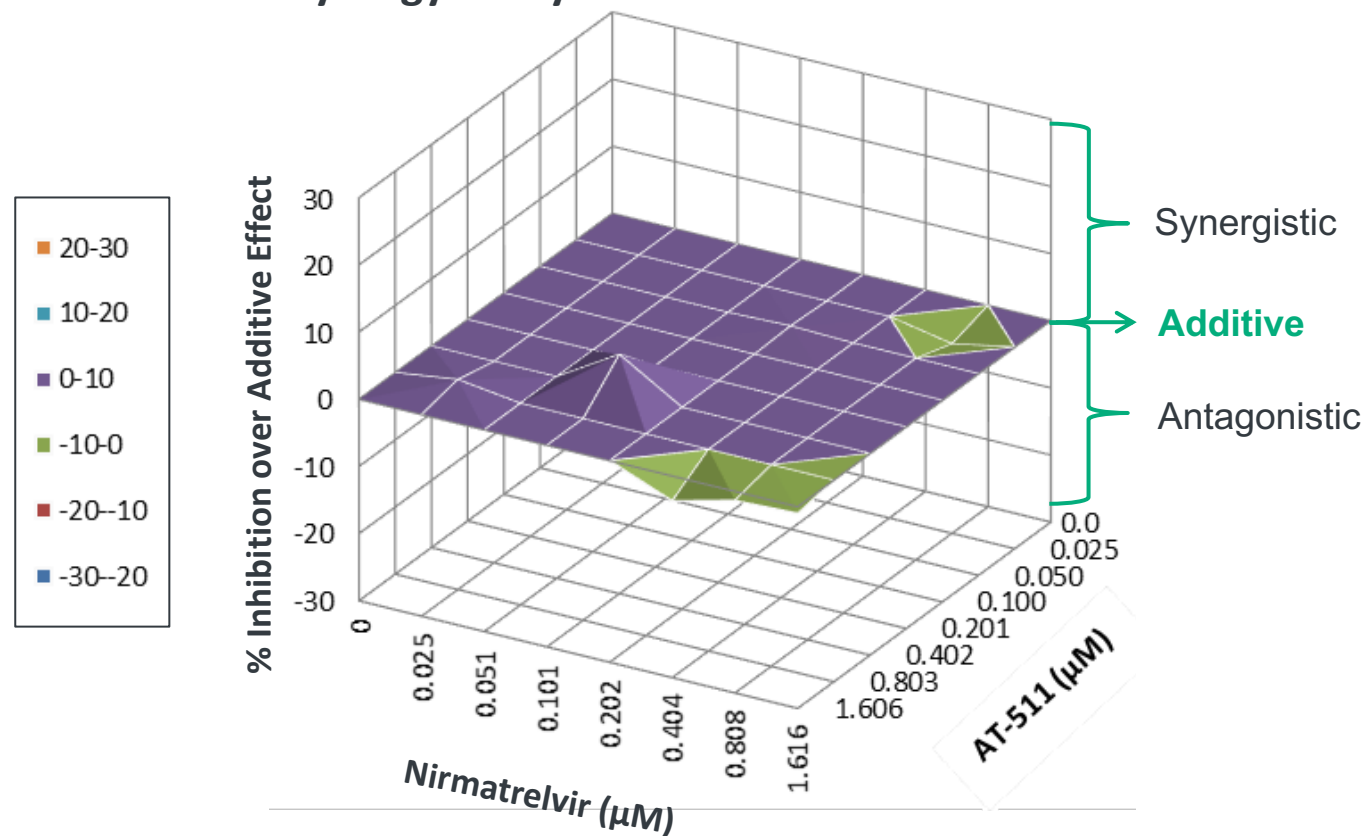
- ✓ Superior potency
- ✓ Improve metabolic stability to eliminate need for booster (e.g., ritonavir)
- ✓ Limited drug-drug interactions
- ✓ Good safety profile

Goal – Selection of clinical PI candidate by end of 2022

Additive Effect in *In Vitro* Combination Studies of AT-511 (free base of bemnifosbuvir) with Protease Inhibitor

Findings Generalizable to Various other Nuc / PI Combinations

MacSynergy Analysis of AT-511 + Nirmatrelvir



- *In vitro* combination studies in HCoV-229E surrogate model indicate that bemnifosbuvir and nirmatrelvir have additive antiviral effects
- These data support the potential benefit of a combination of bemnifosbuvir + protease inhibitor for the treatment of SARS-CoV-2 infection

Virus: HCoV-229E
 Cell: Huh7.5
 Read-out: viral RNA by RT-qPCR

A microscopic view of several dengue virus particles. Each particle is roughly spherical, with a core of red and yellow material surrounded by a shell of white, ring-like structures. The background is a dark, reddish-brown color.

AT-752

Program Update: Phase 2 Clinical Development for Dengue

Dengue Fever: Significant Disease Burden and High Unmet Medical Need

Most Prevalent Mosquito-Borne Viral Disease

Significant Disease Burden

- >100** Countries where dengue is endemic
- ~4B** People live in high-risk areas*
- ~400M** Estimated infected annually
- 12-44%** Severe dengue mortality rate if left untreated
- 500,000** Cases develop into dengue hemorrhagic fever annually, requiring hospitalization (approx. 2.5% mortality rate)
- \$8-9B** Global economic burden, annually¹

AT-752: Promising Oral Product Profile

- Purine nucleotide prodrug with potent *in vitro* activity (EC₉₀~ 0.6 μM) against all serotypes tested
- MOA: inhibition of dengue viral polymerase
- Potent *in vivo* activity in a dengue animal model and no toxicity
- Successful development and FDA approval of AT-752 may result in US priority review voucher

No Antiviral Treatments Available

AT-752 Two Ongoing Trials for the Treatment of Dengue

Initial Results Expected Late 2022

DEFEND-2 - Global Phase 2 Proof-of-Concept Treatment for Dengue Study

- Enrolling adult patients with dengue fever (N=up to 60)
 - Randomized, double-blind, placebo-controlled trial being conducted in dengue endemic countries
 - Oral administration of AT-752 for 5 days
 - **Objectives:** antiviral activity, safety, and PK
 - Primary endpoint: Change in dengue virus viral load from baseline
 - Exploratory: viremia, NS1 levels, fever
-

Human Challenge Infection Model

- Enrolling healthy subjects between 18-55 years old
- Being conducted exclusively in the United States
- The study is designed to evaluate the effect of AT-752 in healthy volunteers who are challenged with an attenuated DENV-1 virus strain after receiving AT-752 or placebo
- 12 subjects will be randomized 2:1, treatment vs placebo



Hepatitis C Program Update:
Potential Best-in-Class
Pan-Genotypic Regimen

HCV Development for Bemnifosbuvir + Ruzasvir Update

Potential Best-in-Class Pan-genotypic Regimen

- Completed required combination preclinical toxicology study
- Completing manufacturing of ruzasvir clinical trial supplies
- Finalizing clinical trial design for the Phase 2 combination trial, which is expected to be initiated late 2022
- Phase 2 combination program expected to evaluate convenient and short treatment duration in non-cirrhotic and compensated cirrhosis patients

Bemnifosbuvir + Ruzasvir Competitive Profile

Convenient and
Short duration

Potential for first
RBV-free therapy for
decompensated disease

- ✓ Bemnifosbuvir is the most potent nucleotide inhibitor to-date being developed for HCV
- ✓ Ruzasvir is a highly potent Phase 2-ready drug candidate
- ✓ Potential for best-in-class pan-genotypic fixed-dose combination

Financial Summary

Financial Update Second Quarter 2022

Condensed Consolidated Statement of Operations and Comprehensive Income (Loss) (in thousands, except share and per share amounts) (unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
Collaboration revenue	\$ —	\$ 60,391	\$ —	\$ 126,376
Operating expenses				
Research and development.....	19,858	39,803	49,491	66,375
General and administrative.....	12,437	11,901	24,979	20,658
Total operating expenses	32,295	51,704	74,470	87,033
Income (loss) from operations	(32,295)	8,687	(74,470)	39,343
Interest income and other, net.....	1,080	52	1,178	109
Income (loss) before income taxes	(31,215)	8,739	(73,292)	39,452
Income tax expense.....	(120)	(7,200)	(120)	(7,200)
Net income (loss) and comprehensive income (loss)	<u>\$ (31,335)</u>	<u>\$ 1,539</u>	<u>\$ (73,412)</u>	<u>\$ 32,252</u>
Net income (loss) per share attributable to common stockholders				
Basic.....	\$(0.38)	\$0.02	\$(0.88)	\$0.39
Diluted	\$(0.38)	\$0.02	\$(0.88)	\$0.36
Weighted-average common shares outstanding				
Basic.....	83,257,591	82,743,530	83,217,223	82,662,019
Diluted	83,257,591	88,091,384	83,217,223	88,683,767

Financial Update Second Quarter 2022

Selected Condensed Consolidated Balance Sheet Data (in thousands) (unaudited)

	<u>June 30, 2022</u>	<u>December 31, 2021</u>
Cash and cash equivalents.....	\$ 684,480	\$ 764,375
Working capital(1).....	664,344	715,520
Total assets	694,338	772,892
Total liabilities	33,881	62,815
Total stockholders' equity	660,457	710,077

(1) The Company defines working capital as current assets less current liabilities. See the Company's condensed consolidated financial statements in its Quarterly Report on Form 10-Q for the three months ended June 30, 2022 for further detail regarding its current assets and liabilities.

Closing Remarks

Fully Funded, Multiple Upcoming Value-Driving Milestones

ssRNA VIRUS	THERAPEUTIC INDICATION		PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
Coronaviridae	COVID-19 ¹	Bemnifosbuvir (AT-527) Nucleotide*	▶			
	COVID-19	Bemnifosbuvir Nucleotide + Protease inhibitor	▶			
Flaviviridae	Hepatitis C Virus (HCV) ²	Bemnifosbuvir Nucleotide	▶			
	Hepatitis C Virus (HCV)	Ruzasvir** (NS5A inhibitor)	▶			
	Dengue Virus	AT-752 Nucleotide	▶			
Paramyxoviridae	Respiratory Syncytial Virus (RSV)	Product Candidates	▶			

2022 EXPECTED MILESTONES

COVID-19

- Initiate bemnifosbuvir late-stage trial in **Q4 2022**

HCV

- Initiate bemnifosbuvir + ruzasvir Ph 2 combo trial: **late Q4 2022**

Dengue

- Ph 2 proof-of-concept program: **initial data late 2022**

\$684.5 million in cash and cash equivalents as of 6/30/22

Cash runway through 2025

*Bemnifosbuvir is a double prodrug nucleotide analog. ** Worldwide exclusive license for all uses from Merck. Bemnifosbuvir is the generic name for AT-527.

1. Bemnifosbuvir as monotherapy has generated Phase 2 results. *In vitro* combination studies are being conducted to generate data in support of clinical combination studies for COVID-19. 2. Bemnifosbuvir and Ruzasvir have generated Phase 2 results and are anticipated to be developed as a combination for HCV.



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