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#### **Forward-Looking Statements**

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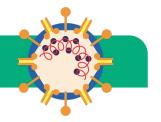
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#### **Industry Information**

Market data and industry information used throughout this presentation are based on management's knowledge of the industry and the good faith estimates of management. We also relied, to the extent available, upon management's review of independent industry surveys and publications and other publicly available information prepared by a number of third-party sources. All of the market data and industry information used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Although we believe that these sources are reliable, we cannot guarantee the accuracy or completeness of this information, and we have not independently verified this information. While we believe the estimated market position, market opportunity and market size information included in this presentation are generally reliable, such information, which is derived in part from management's estimates and beliefs, is inherently uncertain and imprecise. No representations or warranties are made by the Company or any of its affiliates as to the accuracy of any such statements or projections. Projections, assumptions and estimates of our future performance and the future performance of the industry in which we operate are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described above. These and other factors could cause results to differ materially from those expressed in our estimates and beliefs and in the estimates prepared by independent parties.

# Q1 2023 and Recent Highlights

### COVID-19



### **Bemnifosbuvir for COVID-19**

- Fast Track designation for COVID-19 granted by US FDA
- Execution on global SUNRISE-3 geographic footprint with regulatory approvals in >50% of targeted countries
- Multiple data presentations at CROI, ICAR and ECCMID detailing bemnifosbuvir's clinical efficacy and favorable safety and drug interaction profile
- Fully active against Omicron subvariants tested, including XBB
- Second-generation protease inhibitor advancing

## Hepatitis C virus (HCV)



### **Bemnifosbuvir + Ruzasvir combination for HCV**

- Phase 2 combination HCV trial
  - Ongoing regulatory submissions and approvals
  - On target for first patient dosed in Q2 2023
  - Initial results 4Q'23 from cohort of 60 patients
- Data presentation at ICAR supports combination profile
- New in vitro results of combination indicate highly compelling antiviral profile



# Q1 2023 and Recent Presentations at Scientific Meetings

	Bemnifosbuvir for COVID-19 Data Presentations						
CROI 2023	No Dose Adjustments for CYP3A4 Substrates When Co-Administered with Bemnifosbuvir						
CROI 2023	Bemnifosbuvir Has Low Potential to Inhibit P-gp, BCRP, and OATP1B1 Mediated Transport						
ICAR 2023	Low Risk of Drug-Drug Interactions (DDIs) for Bemnifosbuvir (BEM) Based Upon <i>In Vitro</i> Metabolism and Transporter Interaction Studies						
ICAR 2023	Pharmacokinetics and Metabolism of [14C]-Bemnifosbuvir in Healthy Male Participants						
ICAR 2023	Bemnifosbuvir (BEM, AT-527) a Potent Inhibitor of SARS-CoV-2 Variants of Concern (VOC), and a Promising Oral Antiviral with a High Resistance Barrier for Treatment of COVID-19 and other Coronaviruses Infections						
ICAR 2023	Five Cellular Enzymes in the Activation Pathway of Bemnifosbuvir, a Drug-Candidate Against SARS-CoV-2 Infections						
ECCMID 2023	Bemnifosbuvir (AT-527) Treatment of Non-Hospitalized Individuals with Mild to Moderate COVID-19: Results from a Truncated Phase 3, Randomized, Double-Blind, Placebo-Controlled Trial (MORNINGSKY)						

### **Bemnifosbuvir Data Highlights:**

- No dose adjustments for CYP3A4 substrates when co-administered
- Low risk of drug-drug interactions with medicines commonly prescribed to HCV patients and patients at high risk for severe COVID-19
- High barrier to resistance to COVID variants due to MOA
- MORNINGSKY results showed 71%
   reduction in risk of hospitalizations
   with bemnifosbuvir vs placebo
   (secondary endpoint); in exploratory
   analysis 82% reduction in risk in
   patients >40 years old

# Q1 2023 and Recent Presentations at Scientific Meetings

	Bemnifosbuvir + Ruzasvir for HCV Data Presentations
ICAR 2023	The Combination of Bemnifosbuvir (BEM) and Ruzasvir (RZR), the HCV NS5B and NS5A Inhibitors, Demonstrates Potent <i>In Vitro</i> Synergistic Antiviral Activity and <i>In Vivo</i> Preclinical Safety Without Adverse Interactions

	AT-752 for Dengue Data Presentations
ICAR 2023 &	AT-752 Targets Multiple Sites and Activities on the Dengue Virus Replication Enzyme NS5
Antiviral Research	
April 2023	
ECCMID 2023	AT-752, A Novel Nucleotide Prodrug With Pan-Serotype Activity Against Dengue Virus, Does Not Affect Cardiac Repolarization: Results From a Robust QT/QTc Evaluation in Healthy Participants

- Combination of bemnifosbuvir + ruzasvir for HCV demonstrated potent in vitro synergistic antiviral activity and in vivo preclinical safety without adverse interactions
- AT-752's mechanism inhibited the essential DENV NS5 enzyme
- AT-752 is well tolerated; no clinically relevant effects on cardiac repolarization, heart rate, PR or QRS intervals



<sup>&</sup>lt;u>Data Highlights</u> <u>Bemnifosbuvir+Ruzasvir for HCV</u> <u>AT-752 for Dengue\*:</u>

<sup>\*</sup> In February 2023, Atea made business decision to deprioritize further clinical development of AT-752 for dengue due to anticipated long clinical timelines and associated costs

# *In Vitro* Bemnifosbuvir is Fully Active Against Omicron Subvariants, with Similar EC<sub>90</sub> Target Concentrations

SARS-CoV-2 variant	<b>AT-511* EC</b> 9	Fold change			
Variant	Lineage	Mean	SD	(variant/USA-WA1)	
Original (USA-WA1/2020)	А	0.75 (n=2)	0.21	-	
Alpha	B.1.1.7	2.15 (n=3)	0.22	2.9	
Gamma	P.1	2.50 (n=3)	0.50	3.3	
Epsilon	B.1.427	0.76 (n=2)	0.48	1.0	
Original (USA-WA1/2020)	A	0.43 (n=2)	0.12		
Beta	B.1.351	0.80 (n=2)	0.23	1.9	
Original (USA-WA1/2020)	A	1.20 (n=3)	0.37	-	
Delta	B.1.617.2	1.36 (n=3)	0.34	1.1	
Original (USA-WA1/2020)	Α	0.58 (n=5)	0.26	-	
Omicron (BA.1)	B.1.1.529	0.50 (n=3)	0.27	0.86	
Original (USA-WA1/2020)	А	0.59 (n=2)	0.18	-	
Omicron (BA.2)	B.1.1.529	0.54 (n=2)	0.08	0.92	
Original (USA-WA1/2020)	А	0.88 (n=2)	0.15	-	
Omicron (BA.4)	B.1.1.529	0.54 (n=2)	0.27	0.61	
Omicron (BA.5)	B.1.1.529	0.81 (n=2)	0.20	0.92	
Original (USA-WA1/2020)	Α	1.02 (n=1)	-	-	
Omicron (XBB)	B.1.1.529+BA	1.11 (n=1)	-	1.09	









# Bemnifosbuvir – U.S. FDA Fast Track Designation for COVID-19

Public Health Emergency Ending May 11<sup>th</sup>, Market Shifting to Traditional Payor Market

### **COVID-19 UNMET MEDICAL NEED**

EUAs are expected to continue if criteria are met

- Waning immunity of vaccines / natural infection
  - Low booster uptake, ~17% in US¹
- Failure to mount immune response to vaccines in some patients
- No effective monoclonal antibodies for outpatient use<sup>2</sup>
- Limitations with authorized oral antivirals
  - Drug-drug interactions with commonly prescribed medications such as seizure medications, anti-psychotics, anti-coagulants, and more
  - Limits use in high risk, elderly and immunocompromised patients
  - Safety concerns

# Data Presented at CROI, ICAR and ECCMID Support Bemnifosbuvir Profile

- ✓ Nucleotide, oral direct-acting antiviral
- ✓ Targets viral RNA polymerase, highly conserved enzyme critical to viral replication & transcription
- ✓ Favorable safety and tolerability profile
   No mutagenicity or embryo-fetal toxicity (preclinical)
- ✓ Due to low risk for drug-drug interaction, bemnifosbuvir may be co-administered with commonly prescribed drugs for high risk COVID-19 patients including:
  - Anticoagulants, statins and other cardiovascular medications, certain diabetes medications, immunosuppressants, and chemotherapy

<sup>1.</sup> https://covid.cdc.gov/covid-data-tracker/#datatracker-home

<sup>2.</sup> https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-limits-use-certain-monoclonal-antibodies-treat-covid-19-due-omicron



# **SUNRISE-3: Global Phase 3 Trial in High-Risk COVID-19 Outpatients**

Innovative Phase 3 Trial Design with Global Footprint ~300 Clinical Sites

**Inclusion Criteria**: High-risk outpatients with mild or moderate COVID-19, regardless of vaccination status; symptom onset ≤ 5 days before randomization

Geography: US, Europe, Japan and ROW

Randomization

Bemnifosbuvir 550 mg BID + SOC ( $n=^750$ )

Placebo BID + SOC (n~=750)

5 days of dosing with BEM or placebo

**Enrollmentt** Ongoing



### **Phase 3 Study Design:**

- Randomized, double-blind, placebo-controlled
- Study drug (bemnifosbuvir or placebo) to be initiated at the same time as locally available standard of care (SOC)
- Two study populations derived from the type of SOC received:
  - "Supportive care population" monotherapy (primary analysis)
  - "Combination antiviral population" combination therapy (secondary analysis, local SOC includes treatment with other compatible antiviral drugs against COVID-19)
- Interim analysis to be conducted

### **Primary Endpoint:**

All-cause hospitalization or death through Day 29 in supportive care population (n: ≥1,300 patients)

### **Secondary Endpoints (assessed in each population):**

- COVID-19 related hospitalizations and deaths
- Medically attended visits
- Symptom rebound / relapse
- Viral load rebound

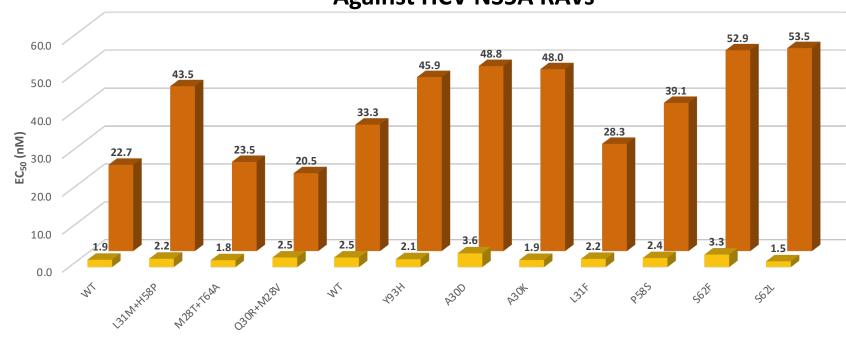


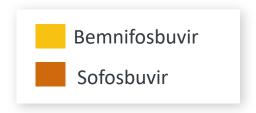




# Bemnifosbuvir Retains High Potency *In Vitro* Against HCV-GT-1a and GT-3a NS5A Resistance Associated Variants (RAVs)







Bemnifosbuvir 10X more
 potent in vitro than
 sofosbuvir and retains full
 potency against all HCV
 GT-1a and GT-3a NS5A RAVs
 tested



GT-3a



GT-1a

# In Vitro Potency of HCV NS5A Inhibitors

Ruzasvir has a more favorable in vitro potency profile as compared to velpatasvir (GILD) and similar in vitro potency to pibrentasvir (ABBV)

	HCV Replicon EC <sub>50</sub> (pM)							
Inhibitor	GT1a	GT1b	GT2a	GT2b	GT3a	GT4a	GT5a	GT6a
ruzasvir – Atea <sup>a</sup> (MRK)	1	2	1	4	2	2	1	4
velpatasvir – GILD <sup>b</sup>	12	15	9	8	12	9	75	6
daclatasvir – BMS <sup>c</sup>	50	9	71		146	12	33	
pibrentasvir – ABBV <sup>d</sup>	2	4	2	2	2	2	1	3
ravidasvir - Presidio <sup>e</sup>	~110	~20	~120		~1100	~50	~40	~400

<sup>a</sup>Asante-Appiah et al. AASLD, 2014

<sup>b</sup>Cheng et al. EASL, 2013

<sup>c</sup>Gao et al. Nature, 2010

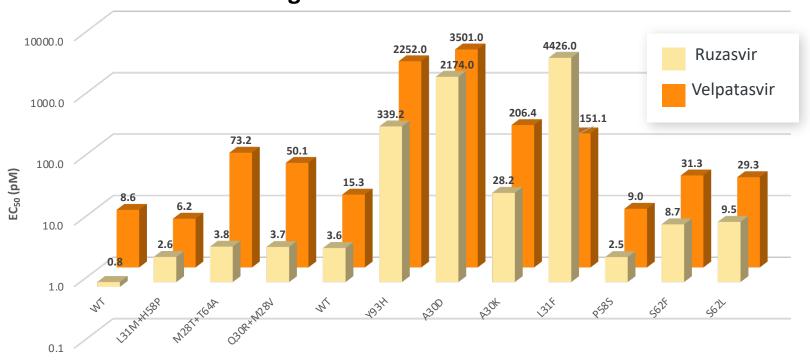
<sup>d</sup>Ng et al. CROI, 2014

<sup>e</sup>Colonno et al. EASL, 2011



# Ruzasvir Retains *In Vitro* High Potency Against HCV GT1a and 3a Resistance Associated Variants (RAVs)

# Ruzasvir and Velpatasvir Activities (EC<sub>50s</sub>) Against HCV NS5A RAVs



GT-3a

- Ruzasvir 5-10-fold more potent in vitro than velpatasvir in HCV GT-1a and GT-3a, one of the most difficult to treat genotypes
- Ruzasvir, in general, maintains a better potency profile than velpatasvir in most NS5A clinically relevant RAVs

Wild Type and NS5A RAVs
HCV Replicon EC<sub>50</sub> (pM)



GT-1a

# **Summary: Bemnifosbuvir + Ruzasvir Combination for HCV Treatment**

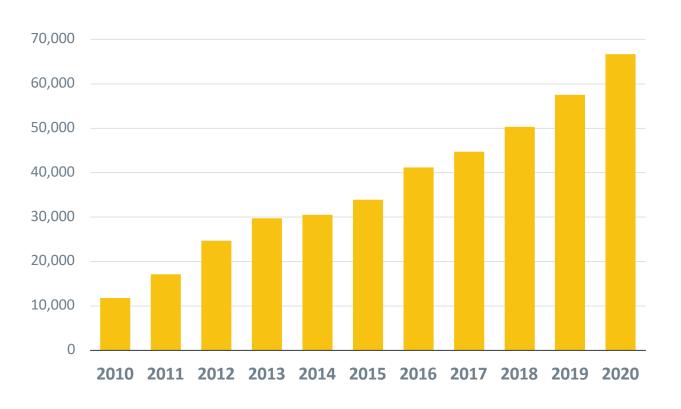
- Bemnifosbuvir is at least 10X more potent than sofosbuvir; retains full potency against all HCV GT-1a and GT-3a NS5A resistance associated variants (RAVs) tested
- Ruzasvir has a more favorable in vitro potency profile against most HCV GT-1a and GT-3a RAVs as compared to velpatasvir
- Combination of bemnifosbuvir + ruzasvir expected to have highly compelling profile:
  - Targeting 8 weeks' therapy with the potential for a shorter duration
  - Pan-genotypic antiviral potency
  - Protease-inhibitor free
  - No food effect
  - Clinical safety and efficacy of each agent previously demonstrated
  - Low potential for drug-drug interaction of combination with commonly prescribed drugs, including concomitant medications typically used in medication-assisted treatment for opioid use disorders



## Resurgence of HCV Infections in the US

Newly Diagnosed HCV cases in the US increased 400% between 2010-2020

### **Estimated Cases of Newly Diagnosed Hepatitis C Infections in US**



- US Government proposed HCV program goal is to eliminate HCV
  - Recognizes resurgence
  - Expected to spur growth in direct acting antiviral uptake and revenues
- According to the WHO, 58M people globally have chronic HCV infection, about 1.5M new infections occur per year and nearly 300K people die every year from HCV-related liver diseases



# Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir in HCV Patients

Study Design: Open label combination

**N=280:** including a lead-in cohort of  $n=^{60}$ 

Bemnifosbuvir 550 mg QD

Ruzasvir 180 mg QD

On target for first patient dosed Q2 2023



8 weeks dosing w/combination

### **Patient Population**

- HCV-infected patients, including compensated cirrhosis
- Direct-acting antiviral naïve
- All genotypes

### **Primary Endpoints**

- Sustained virologic response (SVR) at Week 12 post-treatment (SVR12)
- Safety

### **Other Endpoints**

- Virologic failure
- SVR24
- Resistance







# **Financial Update First Quarter 2023**

### **Condensed Consolidated Statement of Operations and Comprehensive Loss**

(in thousands, except share and per share amounts) (unaudited)

Three	<b>Months</b>	Ended
	March 3	1.

		2023		2022
Operating expenses:				
Research and development	\$	28,954	\$	29,633
General and administrative		12,615		12,542
Total operating expenses		41,569		42,175
Loss from operations		(41,569)		(42,175)
Interest income and other, net		6,299		98
Loss before income taxes		(35,270)		(42,077)
Income tax expense		(197)		<del>_</del>
Net loss	\$	(35,467)	\$	(42,077)
Other comprehensive income:				
Unrealized gains on available-for-sale		377		
Comprehensive loss	\$	(35,090)	\$	(42,077)
Net loss per share – basic and diluted	\$	(0.43)	\$	(0.51)
Weighted-average common shares used in computing net		83,332,397		83,176,408
loss per share – basic and diluted				



# **Financial Update First Quarter 2023**

# Selected Condensed Consolidated Balance Sheet Data (in thousands)

	March 31, 2023		December 31, 2022		
		(unaudited)			
Cash, cash equivalents, and marketable securities	\$	620,488	\$	646,709	
Working capital <sup>(1)</sup>		620,029		642,444	
Total assets		638,131		666,708	
Total liabilities		19,949		26,136	
Total stockholders' equity		618,182		640,572	

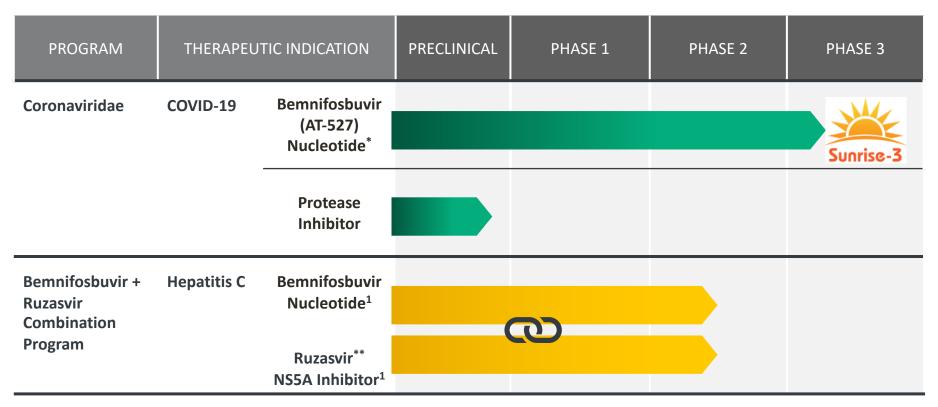
<sup>(1)</sup> The Company defines working capital as current assets less current liabilities. See the Company's condensed consolidated financial statements in its Quarterly Report on Form 10-Q for the three months ended March 31, 2023 for further detail regarding its current assets and liabilities.







# Focused Antiviral Pipeline, Fully Funded Through Key Inflection Points



### **Well Capitalized**

\$620.5 million

in cash, cash equivalents and marketable securities as of 3/31/23

Cash runway into 2026



<sup>\*</sup>Bemnifosbuvir (generic name for AT-527) is a double prodrug nucleotide analog. \*\* Worldwide exclusive license for all uses from Merck.

<sup>1.</sup> Bemnifosbuvir and ruzasvir have each separately generated clinical results and will be developed as a combination for HCV.

