



APrea Therapeutics Reports Second Quarter 2021 Financial Results and Provides Update on Business Operations

August 12, 2021

BOSTON, Aug. 12, 2021 (GLOBE NEWSWIRE) -- Aprea Therapeutics, Inc. (Nasdaq: APRE), a biopharmaceutical company focused on developing and commercializing novel cancer therapeutics that reactivate the mutant tumor suppressor protein, p53, today reported financial results for the three and six months ended June 30, 2021 and provided a business update.

Business Operations Update:

The Company is conducting, supporting, and planning multiple clinical trials of *eprenetapopt* (APR-246) and APR-548. On August 4, 2021, the U.S. Food and Drug Administration (FDA) placed a partial clinical hold on the clinical trials of *eprenetapopt* in combination with azacitidine in our myeloid malignancy programs.

There are approximately 20 patients currently receiving *eprenetapopt* in combination with azacitidine in our myeloid malignancy programs, which includes the MDS, AML and post-transplant maintenance trials, all of which have completed enrollment. Patients who are benefiting from treatment can continue to receive study treatment. As part of the partial clinical hold, no additional patients should be enrolled to these clinical trials until the partial clinical hold is resolved. The Company intends to work closely with the FDA to analyze the data, address the specific questions raised, and seek to resolve the partial clinical hold as soon as possible.

On August 11, 2021, the FDA placed a clinical hold on the Company's clinical trial evaluating *eprenetapopt* with acalabrutinib or with venetoclax and rituximab in lymphoid malignancies. There is one CLL patient currently on study treatment receiving *eprenetapopt* in combination with venetoclax and rituximab. This patient may continue to receive study treatment as long as the patient is deriving clinical benefit. No additional patients can be enrolled until the clinical hold is resolved. The Company intends to work closely with the FDA to address the specific questions raised, and seek to resolve the clinical hold as soon as possible.

The Company's current clinical trials are as follows:

- **Phase 3 Frontline MDS Trial** -- In June 2020, the Company completed full enrollment of 154 patients in a pivotal Phase 3 trial of *eprenetapopt* with azacitidine for frontline treatment of patients with *TP53* mutant MDS. The pivotal Phase 3 trial is supported by data from two Phase 1b/2 investigator-initiated trials, one in the U.S. and one in France, testing *eprenetapopt* with azacitidine as frontline treatment in *TP53* mutant MDS and AML patients. The data from the U.S. and French Phase 1b/2 trials were published in *The Journal of Clinical Oncology* in January 2021 and February 2021, respectively. In December 2020, the Company announced that its pivotal Phase 3 trial failed to meet its predefined primary endpoint of complete remission (CR) rate. Analysis of the primary endpoint at this data cut demonstrated a higher CR rate (53% more patients achieving a CR) in the experimental arm receiving *eprenetapopt* with azacitidine versus the control arm receiving azacitidine alone but did not reach statistical significance. Based on a thorough analysis of the current Phase 3 trial data and comparisons to the U.S. and French Phase 1b/2 trials the Company believes that despite similar types and frequency of adverse events observed in the Phase 3 experimental arm and the Phase 1b/2 trials, patients in the Phase 3 experimental arm experienced substantially more study treatment dose modifications compared to the experience in the U.S. and French Phase 1b/2 trials. The Company believes that dose modifications of *eprenetapopt* and azacitidine led to undertreatment in the Phase 3 experimental arm that negatively impacted efficacy, particularly the primary endpoint of CR rate. The Company continues to follow patients who remain on-study. Based on initial feedback from the FDA and the partial clinical hold on its myeloid malignancy programs, the Company believes that there is no registrational pathway for this Phase 3 trial.
- **Phase 2 MDS/AML Post-Transplant Trial** – In July 2021, the Company announced positive results from a single-arm, open-label Phase 2 clinical trial evaluating *eprenetapopt* with azacitidine as post-transplant maintenance therapy in *TP53* mutant MDS and AML patients who have received an allogeneic stem cell transplant. The primary endpoint of the trial is the rate of relapse-free survival (RFS) at 12 months. In 33 patients enrolled in the trial, the RFS at one-year post-transplant was 58% and the median RFS was 12.1 months. The overall survival (OS) at 1-year post-transplant was 79% with a median OS at 19.3 months. Prior clinical trials evaluating post-transplant outcomes in *TP53* mutant MDS and AML patients have a reported 1-year post-transplant RFS of ~30% and a median OS of ~5-8 months. As part of the Company's plan to seek to resolve the partial clinical hold, the Company plans to share data with the FDA. The Company also expects to present data from the clinical trial at a future scientific or medical conference.
- **Phase 1/2 AML Trial** – The Company is currently enrolling a Phase 1/2 clinical trial evaluating the safety, tolerability, and preliminary efficacy of *eprenetapopt* therapy in *TP53* mutant AML patients. The lead-in portion of the trial evaluated the

tolerability of eprenetapopt with venetoclax, with or without azacitidine, and no dose-limiting toxicities were observed in 12 patients receiving either regimen. Based on these results, the Company has expanded the trial to treat 33 additional frontline *TP53* mutant AML patients with the combination of eprenetapopt, venetoclax and azacitidine. In June 2021, the Company announced that the regimen of eprenetapopt with venetoclax and azacitidine met the CR primary efficacy endpoint. In 30 patients who were evaluable for efficacy at the time of the analysis, the CR rate was 37% and the complete response rate was CR plus CR with incomplete hematologic recovery (CRi), CR/CRi, was 53%. The trial met the primary efficacy endpoint of CR, which is based on a Simon 2-stage design. As of that data cut, 11 patients remain on study treatment and continue to be followed for safety and efficacy. The Company plans to continue collecting data from this Phase 2 clinical trial and share data with the FDA as part of the Company's effort to resolve the partial clinical hold. The Company also expects to present data from this clinical trial at a future scientific or medical conference.

- **Phase 1 NHL Trial** – The Company is currently enrolling a Phase 1 clinical trial in relapsed/refractory *TP53* mutant chronic lymphoid leukemia (CLL) assessing eprenetapopt with venetoclax and rituximab and eprenetapopt with acalabrutinib in order to further assess eprenetapopt in hematological malignancies. The first patient was enrolled in the first quarter of 2021. The Company intends to work with the FDA to address the specific questions raised, and seek to resolve the clinical hold as soon as possible.
- **Phase 1/2 Solid Tumor Trial** – The Company is currently enrolling a Phase 1/2 clinical trial in relapsed/refractory gastric, bladder and non-small cell lung cancers assessing eprenetapopt with anti-PD-1 therapy. The dose-escalation phase of the trial enrolled 6 patients with advanced solid tumors and no dose-limiting toxicities were observed. Based on these results, the Company is enrolling expansion cohorts for patients with advanced gastric, bladder and non-small cell lung cancers and has currently enrolled 26 patients across these expansion arms. A poster presentation for this trial was presented at the 2021 ASCO Annual Meeting (abstract TPS3161).
- **APR-548 Phase 1 Trial** -- The Company's second product candidate, APR-548, is a next-generation p53 reactivator that is being developed in an oral dosage form. The Company has planned a Phase 1 dose-escalation clinical trial evaluating the safety, tolerability, and preliminary efficacy of APR-548 with azacitidine in frontline and relapsed/refractory MDS patients. The Company anticipates the first patient to be enrolled in the second half of 2021.

Second Quarter Financial Results

- **Cash and cash equivalents:** As of June 30, 2021, the Company had \$69.8 million of cash and cash equivalents compared to \$89.0 million of cash and cash equivalents as of December 31, 2020. The Company expects cash burn for the full year 2021 to be between \$30.0 million \$35.0 million. The Company believes its cash and cash equivalents as of June 30, 2021, will be sufficient to meet its current projected operating requirements into 2023.
- **Research and Development (R&D) expenses:** R&D expenses were \$6.7 million for the quarter ended June 30, 2021, compared to \$10.7 million for the comparable period in 2020. The decrease in R&D expenses was primarily due to decreases in clinical trial costs for our pivotal Phase 3 clinical trial of eprenetapopt with azacitidine for the frontline treatment of *TP53* mutant MDS which completed enrollment in Q2 2020 and our Phase 2 post-transplant MDS/AML clinical trial. These decreases were partially offset by increases in clinical trial costs for our other ongoing clinical trials.
- **General and Administrative (G&A) expenses:** G&A expenses were \$3.4 million for the quarter ended June 30, 2021, compared to \$3.8 million for the comparable period in 2020. The decrease in G&A expenses was primarily due to a decrease in pre-commercialization development activities.
- **Net loss:** Net loss was \$10.3 million, or \$0.48 per share for the quarter ended June 30, 2021, compared to a net loss of \$16.4 million, or \$0.78 per share for the quarter ended June 30, 2020. The Company had 21,186,827 shares of common stock outstanding as of June 30, 2021.

About Aprea Therapeutics, Inc.

Aprea Therapeutics, Inc. is a biopharmaceutical company headquartered in Boston, Massachusetts with research facilities in Stockholm, Sweden, focused on developing and commercializing novel cancer therapeutics that reactivate mutant tumor suppressor protein, p53. The Company's lead product candidate is eprenetapopt (APR-246), a small molecule in clinical development for hematologic malignancies and solid tumors. A pivotal Phase 3 clinical trial of eprenetapopt and azacitidine for frontline treatment of *TP53* mutant MDS has been completed and failed to meet the primary statistical endpoint of complete remission. Eprenetapopt is currently on clinical hold in myeloid and lymphoid malignancies. Eprenetapopt has received Breakthrough Therapy, Orphan Drug and Fast Track designations from the FDA for myelodysplastic syndromes (MDS), Orphan Drug and Fast Track designations from the FDA for acute myeloid leukemia (AML), and Orphan Drug designation from the European Commission for MDS and AML. APR-548, a next generation small molecule reactivator of mutant p53, is being developed for oral administration. For more information, please visit the company website at www.aprea.com.

The Company may use, and intends to use, its investor relations website at <https://ir.aprea.com/> as a means of disclosing material nonpublic information and for complying with its disclosure obligations under Regulation FD.

Forward-Looking Statement

Certain information contained in this press release includes "forward-looking statements", within the meaning of Section 27A of the

Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, related to our study analyses, clinical trials, regulatory submissions, and projected cash position. We may, in some cases use terms such as “future,” “predicts,” “believes,” “potential,” “continue,” “anticipates,” “estimates,” “expects,” “plans,” “intends,” “targeting,” “confidence,” “may,” “could,” “might,” “likely,” “will,” “should” or other words that convey uncertainty of the future events or outcomes to identify these forward-looking statements. Our forward-looking statements are based on current beliefs and expectations of our management team that involve risks, potential changes in circumstances, assumptions, and uncertainties. Any or all of the forward-looking statements may turn out to be wrong or be affected by inaccurate assumptions we might make or by known or unknown risks and uncertainties. These forward-looking statements are subject to risks and uncertainties including risks related to the success and timing of our clinical trials or other studies, risks associated with the coronavirus pandemic and the other risks set forth in our filings with the U.S. Securities and Exchange Commission. For all these reasons, actual results and developments could be materially different from those expressed in or implied by our forward-looking statements. You are cautioned not to place undue reliance on these forward-looking statements, which are made only as of the date of this press release. We undertake no obligation to publicly update such forward-looking statements to reflect subsequent events or circumstances.

Source: Aprea Therapeutics, Inc.

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Aprea Therapeutics, Inc.
Condensed Consolidated Balance Sheets
(Unaudited)

	<u>June 30, 2021</u>	<u>December 31, 2020</u>
Assets		
Current assets:		
Cash and cash equivalents	\$69,803,845	\$89,017,686
Prepaid expenses and other current assets	1,494,453	3,399,019
Total current assets	<u>71,298,298</u>	<u>92,416,705</u>
Property and equipment, net	30,955	38,515
Right of use lease and other noncurrent assets	220,477	349,999
Total assets	<u>\$71,549,730</u>	<u>\$92,805,219</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$2,361,318	\$4,503,619
Accrued expenses	8,037,524	10,571,237
Lease liability—current	199,219	256,309
Total current liabilities	<u>10,598,061</u>	<u>15,331,165</u>
Lease liability—noncurrent	--	78,847
Total liabilities	<u>10,598,061</u>	<u>15,410,012</u>
Commitments and contingencies		
Stockholders' equity:		
Common stock, par value \$0.001; 21,186,827 shares issued and outstanding at June 30, 2021 and December 31, 2020, respectively.	21,187	21,187
Additional paid-in capital	235,104,416	231,418,356
Accumulated other comprehensive loss	(10,247,091)	(10,037,261)
Accumulated deficit	<u>(163,926,843)</u>	<u>(144,007,075)</u>
Total stockholders' equity	<u>60,951,669</u>	<u>77,395,207</u>
Total liabilities and stockholders' equity	<u>\$71,549,730</u>	<u>\$92,805,219</u>

Aprea Therapeutics, Inc.
Condensed Consolidated Statements of Operations and Comprehensive Loss
(Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2021	2020	2021	2020
Operating expenses:				
Research and development	\$ 6,654,257	\$ 10,694,029	\$ 13,418,105	\$ 19,790,151
General and administrative	3,343,325	3,786,886	6,769,158	6,563,354
Total operating expenses	<u>9,997,582</u>	<u>14,480,915</u>	<u>20,187,263</u>	<u>26,353,505</u>
Other income (expense):				
Interest income (expense)	(588)	2,678	(1,645)	227,120
Foreign currency (loss) gain	<u>(252,843)</u>	<u>(1,889,690)</u>	<u>269,140</u>	<u>358,201</u>
Total other income (expense)	<u>(253,431)</u>	<u>(1,887,012)</u>	<u>267,495</u>	<u>585,321</u>
Net loss	\$ (10,251,013)	\$ (16,367,927)	\$ (19,919,768)	\$ (25,768,184)
Other comprehensive income (loss):				
Foreign currency translation	<u>193,020</u>	<u>1,756,783</u>	<u>(209,830)</u>	<u>(667,870)</u>
Total comprehensive loss	<u>(10,057,993)</u>	<u>(14,611,144)</u>	<u>(20,129,598)</u>	<u>(26,436,054)</u>
Net loss per share attributable to common stockholders, basic and diluted	\$ (0.48)	\$ (0.78)	\$ (0.94)	\$ (1.22)
Weighted-average common shares outstanding, basic and diluted	21,186,827	21,107,056	21,186,827	21,079,891



Source: Aprea Therapeutics