# **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM 10-Q**

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 X

For the quarterly period ended September 30, 2020

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number: 001-37923

# **CRISPR THERAPEUTICS AG**

(Exact name of Registrant as specified in its charter)

Switzerland

(State or other jurisdiction of incorporation or organization)

**Baarerstrasse 14** 6300 Zug, Switzerland (Address of principal executive offices) Not Applicable (I.R.S. Employer Identification No.)

Not Applicable (zip code)

+41 (0)41 561 32 77

(Registrant's telephone number, including area code)

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

Title of each class	Trading Symbol	Name of each exchange on which registered
Common Shares, CHF 0.03 par value	CRSP	The Nasdaq Global Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. YES ⊠ NO □

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). YES 🗵 NO 🗆

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or emerging growth company. See definition of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated filer		Accelerated filer	
Non-accelerated filer		Smaller reporting company	
		Emerging growth company	
0 00 1	ny, indicate by check mark if the registrant has elected not to use the extended transition period fo provided pursuant to Section 13(a) of the Exchange Act. $\Box$	r complying with any new or revised	

Indicate by check mark whether registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). YES 🗌 NO 🗵

As of October 23, 2020, there were 70,652,429 shares of registrant's common shares outstanding.

Throughout this Quarterly Report on Form 10-Q, the "Company," "CRISPR," "CRISPR Therapeutics," "we," "us," and "our," except where the context requires otherwise, refer to CRISPR Therapeutics AG and its consolidated subsidiaries.

"CRISPR Therapeutics®" standard character mark and design logo, "CTX001<sup>TM</sup>," "CTX10<sup>TM</sup>," and "CTX130<sup>TM</sup>" are trademarks and registered trademarks of CRISPR Therapeutics AG. All other trademarks and registered trademarks contained in this Quarterly Report on Form 10-Q are the property of their respective owners. Solely for convenience, trademarks, service marks and trade names referred to in this Quarterly Report on Form 10-Q may appear without the ® or <sup>TM</sup> symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights to these trademarks, service marks and trade names.

# FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains "forward-looking statements" that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this Quarterly Report on Form 10-Q are forward-looking statements. These statements are often identified by the use of words such as "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "predict," "project," "potential," "will," "would" or the negative or plural of these words or similar expressions or variations, although not all forward-looking statements contain these identifying words. Forward-looking statements in this Quarterly Report on Form 10-Q include, but are not limited to, statements about:

- the safety, efficacy and clinical progress of our various clinical programs including those for CTX001<sup>TM</sup>, CTX110<sup>TM</sup>, CTX120<sup>TM</sup> and CTX130<sup>TM</sup>;
- the status of clinical trials, development timelines and discussions with regulatory authorities related to product candidates under development by us and our collaborators;
- the initiation, timing, progress and results of our preclinical studies and clinical trials, including our ongoing clinical trials and any planned clinical trials for CTX001, CTX110, CTX120 and CTX130, and our research and development programs, including delays or disruptions in clinical trials, non-clinical experiments and investigational new drug application-enabling studies;
- the actual or potential benefits of United States Federal Drug Administration, or FDA, designations, such as orphan drug, fast track and regenerative medicine advanced therapy, or such European equivalents, including Priority Medicines (PRIME) designation;
- our ability to advance product candidates into, and successfully complete, clinical trials;
- our intellectual property coverage and positions, including those of our licensors and third parties as well as the status and potential outcome of proceedings involving any such intellectual property;
- our anticipated expenses, ability to obtain funding for our operations and the sufficiency of our cash resources;
- the therapeutic value, development, and commercial potential of CRISPR/Cas9 gene-editing technologies and therapies; and
- potential impacts due to the coronavirus pandemic such as delays, interruptions or other adverse effects to clinical trials, delays in regulatory review, manufacturing and supply chain interruptions, adverse effects on healthcare systems and disruption of the global economy, and the overall impact of the coronavirus pandemic on our business, financial condition and results of operations.

Any forward-looking statements in this Quarterly Report on Form 10-Q reflect our current views with respect to future events or to our future financial performance and involve known and unknown risks, uncertainties and assumptions that could cause our actual results and the timing of certain events to differ materially from future results expressed or implied by the forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those identified herein, and those discussed in the section titled "Risk Factors," set forth in Part II, Item 1A of this Quarterly Report on Form 10-Q, if any, our Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on February 12, 2020, and in other SEC filings. You should not rely upon forward-looking statements as predictions of future events. Such forward-looking statements speak only as of the date of this report. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make or enter into.

You should read this Quarterly Report on Form 10-Q and the documents that we have filed as exhibits to this Quarterly Report on Form 10-Q completely and with the understanding that our actual future results, performance or achievements may be materially different from what we expect. Except as required by law, we undertake no obligation to update any forward-looking statements to reflect events or circumstances after the date of such statements.

Investors and others should note that we announce material information to our investors using our investor relations website (https://crisprtx.gcsweb.com/), SEC filings, press releases, public conference calls and webcasts. We use these channels as well as social media to communicate with the public about our company, our business, our product candidates and other matters. It is possible that the information we post on social media could be deemed to be material information. Therefore, we encourage investors, the media, and others interested in our company to review the information we post on the social media channels listed on our investor relations website.

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Item 1. Financial Statements

# CRISPR Therapeutics AG Condensed Consolidated Balance Sheets (unaudited, in thousands, except share and per share data)

Current assets:         S         1,041,41         S         943,771           Marketable securities         324,573         —           Accounts receivable         110         99           Prepaid expenses and other current assets         24.839         43.677           Total current assets         1,390,939         9907,547           Proteid expenses and other current assets         33,924         31,333           Intagible assets, net         38,454         41,503           Operating lease assets         662         1,097           Operating lease assets         662         1,097           Total assets         \$         1,445,018         \$           Current labilities:         \$         1,930,454         41,500           Oher non-current assets         662         1,097         \$         5,544           Accrued expenses         610         9966         \$         9,649         \$         9,019           Current labilities         110,640         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0155         0,0155         0,0155         0,0155         0,0155         0,01			As	of		
Current assets:         S         1,041,41         S         943,771           Marketable securities         324,573         —           Accounts receivable         110         99           Prepaid expenses and other current assets         24.839         43.677           Total current assets         1,390,939         9907,547           Proteid expenses and other current assets         33,924         31,333           Intagible assets, net         38,454         41,503           Operating lease assets         662         1,097           Operating lease assets         662         1,097           Total assets         \$         1,445,018         \$           Current labilities:         \$         1,930,454         41,500           Oher non-current assets         662         1,097         \$         5,544           Accrued expenses         610         9966         \$         9,649         \$         9,019           Current labilities         110,640         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0164         8,485         0,0155         0,0155         0,0155         0,0155         0,0155         0,01		S		Γ		
Cash and cash equivalents         \$         1.041,417         \$         943,771           Marketable securities         324,573         —           Accounts receivable         110         997           Prepaid expenses and other current assets         24,839         43,677           Total current assets         1,390,939         997,843           Property and equipment, net         37,924         31,330           Intangible assets, net         194         233           Exstitcted cash         168,45         5,044           Operating lease assets         38,454         41,502           Other non-current assets         662         1,0997           Total assets         \$         1,046,752           Liabilities:         \$         1,046,752         \$           Accounts payable         \$         1,066,752         \$           Accounts payable         \$         1,066,752         \$           Accounts payable         \$         1,040,848         \$           Operating lease liabilities         \$         1,040,848         \$           Operating lease liabilities         61,049         \$         \$           Operating lease liabilities, net of current portion         38,570	Assets					
Marketable securities         324,573         —           Accounts receivable         110         99           Prepaid expenses and other current assets         1,390,939         987,543           Propenty and equipment, net         37,924         31,333           Inangible assets, net         114         223           Restricted cash         16,845         5,5441           Operating lease assets         36,854         441,503           Other non-current assets         662         1,090           Total assets         652         1,6845           Current liabilities         5         19,020         \$           Accounts payable         \$         10,640         8,485           Operating lease liabilities         6,348         5833         0,906           Operating lease liabilities         6,348         5833         0,906         5,944           Accounts payable         \$         10,640         8,485         30,105           Deferred revenue, current         6,101         9,964         5,1019         0,955         11,776         11,776         11,776         11,776         11,777         127,322         14,845         11,955         11,776         11,777         127,322         14,845	Current assets:					
Accounts receivable       110       99         Prepaid expenses and other current assets       24,839       43,677         Total current assets       37,924       31,330         Inangible assets, net       194       233         Sestifiet Cash       16,845       5,041         Operating lease assets       38,454       41,500         Other non-current assets       662       1,090         Total assets       \$ 1,445,018       \$ 1,066,752         Liabilities:       31,445,018       \$ 1,066,752         Liabilities:       \$ 1,9020       \$ 5,944         Accounts payable       \$ 19,020       \$ 5,944         Accounte payable       \$ 19,020       \$ 5,944         Accounte payable       \$ 19,020       \$ 5,944         Accured expenses       35,445       30,108         Operating lease liabilities, and shareholders' equity       6,348       588         Operating lease liabilities       10,640       8,488         Operating lease liabilities       11,776       11,776         Operating lease liabilities, and contingencies, see Note 6       34,149       57,100         Operating lease liabilities, and contingencies, see Note 6       34,149       57,222         Shareholders' equity:<	Cash and cash equivalents	\$	1,041,417	\$	943,771	
Prepaid expenses and other current assets         24,839         43,677           Total current assets         1,300,399         987,544           Property and equipment, net         37,924         31,333           Intangible assets, net         194         233           Restricted cash         16,845         5,044           Operating lesse assets         364,54         41,500           Other non-current assets         662         1,067           Total assets         5         1,485,018         \$           Accounts payable         \$         9,920         \$         5,544           Accounts payable         \$         9,020         \$         5,544           Accounts payable         \$         9,020         \$         5,544           Accounts payable         \$         9,020         \$         5,544           Account at iabilities         6,10         966         9,020         \$         5,544           Other current liabilities         10,640         8,488         0,662         10,950         \$         5,544         30,180           Other current liabilities         6,348         563         \$         9,020         \$         5,544         \$         9,018         \$	Marketable securities		324,573		—	
Total current assets         1,390,939         987,547           Property and equipment, net         37,924         31,333           Restricted cash         1644         233           Restricted cash         16,645         5,041           Operating lease assets         38,454         41,502           Other non-current assets         662         1,093           Total assets         5         1,445,018         \$           Accounts payable         \$         1,920         \$         5,944           Account payable         \$         1,903         \$         5,944           Account payable         \$         1,966         \$         5,944           Account payable         \$         1,966         9,865         \$         9,966         \$         5,944         \$         9,966         \$         5,944         \$         5,864         \$         9,865         \$         9,966         \$         5,944         \$         \$         9,864         \$         \$         9,865         \$         9,864         \$         \$         \$         9,865         \$         9,464         \$         \$         \$         \$         9,466         \$         \$         \$         <	Accounts receivable		110		99	
Property and equipment, net         37,924         31,333           Intangible assets, net         194         233           Restricted cash         16,845         5,041           Operating lease assets         38,454         41,502           Other non-current assets         662         1,0697           Total assets         \$ 1,066,752         1,066,752           Liabilities and shareholders' equity         \$ 1,062,752         1,066,752           Current liabilities:         \$ 1,062,952         5,944           Accroued expenses         35,445         30,106           Operating lease liabilities         6,104         966           Operating lease liabilities         10,644         8,4858           Operating lease liabilities         10,644         8,4858           Operating lease liabilities, net of current portion         38,570         44,055           Total current liabilities, net of current portion         38,570         44,055           Other non-current liabilities, net of current portion         38,570         44,055           Other non-current liabilities, net of current portion         38,570         44,055           Other non-current liabilities, net of current portion         38,570         44,055           Spatenbiders' equity: <t< td=""><td>Prepaid expenses and other current assets</td><td></td><td>24,839</td><td></td><td>43,677</td></t<>	Prepaid expenses and other current assets		24,839		43,677	
Intangible assets, net         194         233           Restricted cash         16,845         5,041           Operating lease assets         38,454         41,503           Other non-current assets         662         1,099           Total assets         662         1,099           Current liabilities         8         1,485,018         \$ 1,066,552           Liabilities and shareholders' equity         5         19,020         \$ 5,944           Accrued expenses         35,445         30,108           Deferred revenue, current         610         960           Accrued expenses         10,640         8,484           Other current liabilities         10,640         8,484           Other current liabilities         11,776         11,776           Operating lease liabilities, net of current portion         38,570         44,055           Other non-current liabilities         141,717         12,7327           Commont shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at         September 30, 2020 and December 31, 2019, respectively, 70,603,862 and           G0/783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and         (63)         (63)           Commont shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares author	Total current assets		1,390,939		987,547	
Restricted cash         16,845         5,041           Operating lease assets         38,454         41,502           Other non-current assets         662         1,0997           Total assets         \$ 1,485,018         \$ 1,066,752           Libbilities and shareholders' equity	Property and equipment, net		37,924		31,330	
Operating lease assets         38,454         41,502           Other non-current assets         662         1,097           Total assets         \$ 1,485,018         \$ 1,066,752           Libilities and shareholders' equity             Current liabilities:         \$ 19,020         \$ 5,944           Accounds payable         \$ 19,020         \$ 5,944           Accured expenses         35,445         30,186           Operating lease liabilities         6,348         583           Operating lease liabilities         6,348         583           Operating lease liabilities         10,640         8,489           Other current liabilities         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, not of current portion         38,570         44,050           Operating lease liabilities         7,222         14,392           Total Lipsbilities         7,222         14,392           Coher current liabilities         7,222         14,392           Total Lipsbilities         7,222         14,392           Coher current liabilities         7,222         14,392           Coher current liabilities         7,222         <	Intangible assets, net		194		235	
Other non-current assets         662         1,097           Total assets         \$ 1,485,018         \$ 1,066,753           Liabilities and shareholders' equity	Restricted cash		16,845		5,041	
Total assets         \$         1,485,018         \$         1,066,752           Liabilities and shareholders' equity	Operating lease assets		38,454		41,502	
Liabilities and shareholders' equity         1.000         1.000           Current liabilities:         5         19.020         \$         5.944           Accounds payable         35.445         30.180         966           Deferred revenue, current         610         966           Accrued tax liabilities         6,348         583           Operating lease liabilities         6,348         583           Other current liabilities         10,640         8,488           Other current liabilities         11,776         11,776           Total current liabilities         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Other non-current liabilities         7,222         14,395           Total liabilities         7,222         14,395           Total liabilities         141,717         127,327           Commitments and contingencies, see Note 6         5         5           Shareholders' equity:	Other non-current assets		662		1,097	
Current liabilities:         \$         19,020         \$         5,944           Accounts payable         \$         19,020         \$         5,944           Accured expenses         35,445         30,180         966           Deferred revenue, current         610         966           Accured tax liabilities         6,348         583           Operating lease liabilities         10,640         8,486           Other current liabilities         12,086         10,950           Total current liabilities         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, net of current portion         38,570         44,055           Other non-current liabilities         7,222         14,395           Total liabilities         141,717         127,327           Comminments and contingencies, see Note 6         5         5           Shareholders' equity:         141,717         127,327           Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025         shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.         (63)	Total assets	\$	1,485,018	\$	1,066,752	
Accounts payable         \$         19,020         \$         5,944           Accnued expenses         35,445         30,186           Deferred revenue, current         610         960           Accured tax liabilities         6,348         583           Operating lease liabilities         10,640         8,488           Other current liabilities         12,086         10,950           Total current liabilities, ent of current portion         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, ent of current portion         38,570         44,055           Other non-current liabilities         7,222         14,395           Other non-current liabilities         7,222         14,395           Total liabilities         7,222         14,395           Sareholders' equity:         7,222         14,395           Commin shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,6799,178 and 61,034,025         share sissued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and           60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,633,862 and         (63)         (63           Accumulated deficit         1,807,878 <td>Liabilities and shareholders' equity</td> <td></td> <td></td> <td></td> <td></td>	Liabilities and shareholders' equity					
Accrued expenses       35,445       30,180         Deferred revenue, current       610       960         Accrued tax liabilities       6,348       583         Operating lease liabilities       10,640       8,489         Other current liabilities       12,086       10,955         Total current liabilities, net of current portion       84,149       57,100         Deferred revenue, non-current       11,776       11,776         Operating lease liabilities, net of current portion       38,570       44,050         Other current liabilities       7,222       14,392         Total liabilities       7,222       14,392         Total liabilities       141,717       127,327         Commitments and contingencies, see Note 6       141,717       127,327         Shareholders' equity:       Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.       2,157       1,847         Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.       6(3)       (65         Accumulated deficit       (466,537)       (224,711)       1,2034         Accumulated deficit       (466,537)       (24	Current liabilities:					
Deferred revenue, current         610         960           Accrued tax liabilities         6,348         583           Operating lease liabilities         10,640         8,488           Other current liabilities         12,086         10,950           Total current liabilities         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, net of current portion         38,570         44,050           Other non-current liabilities         7,222         14,395           Total liabilities         141,717         127,327           Commitments and contingencies, see Note 6         141,717         127,327           Spetember 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025         september 30, 2020 and December 31, 2019, respectively, 70,603,862 and           60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and         663         (67           Accumulated deficit         (466,537)         (224,711         1,807,878         1,162,345           Accumulated deficit         (466,537)         (224,711         7         7           Accumulated other comprehensive (loss) income         (134)         7         7	Accounts payable	\$	19,020	\$	5,944	
Accrued tax liabilities       6,348       583         Operating lease liabilities       10,640       8,489         Other current liabilities       12,086       10,950         Total current liabilities       84,149       57,100         Deferred revenue, non-current       11,776       11,776         Operating lease liabilities, net of current portion       38,570       44,055         Other non-current liabilities       7,222       14,395         Total liabilities       141,717       127,327         Commitments and contingencies, see Note 6       111,776       1127,327         Shareholders' equity:       141,717       127,327         Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.       2,157       1,847         Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.       6(3)       6(3)         Accumulated deficit       (466,537)       (224,711         Accumulated deficit       (466,537)       (224,711         Accumulated other comprehensive (loss) income       (134)       57         Total shareholders' equity       1,343,301       939,425 <td>Accrued expenses</td> <td></td> <td>35,445</td> <td></td> <td>30,180</td>	Accrued expenses		35,445		30,180	
Operating lease liabilities10,6408,489Other current liabilities12,08610,950Total current liabilities84,14957,100Deferred revenue, non-current11,77611,776Operating lease liabilities, net of current portion38,57044,050Other non-current liabilities7,22214,395Total liabilities141,717127,327Commitments and contingencies, see Note 611Shareholders' equity:Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively. $2,157$ 1,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively. $(63)$ $(63)$ Additional paid-in capital1,807,8781,162,342Accumulated deficit(466,537) $(224,711)$ Accumulated other comprehensive (loss) income $(134)$ $57$ Total shareholders' equity $1,343,301$ $939,425$	Deferred revenue, current		610		960	
Other current liabilities         12,086         10,950           Total current liabilities         84,149         57,106           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, net of current portion         38,570         44,050           Other non-current liabilities         7,222         14,395           Total liabilities         141,717         127,327           Commitments and contingencies, see Note 6         141,717         127,327           Shareholders' equity         141,717         127,327           Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and         50,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and         60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.         2,157         1,847           Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.         (63)         (65           Additional paid-in capital         1,807,878         1,162,343           Accumulated deficit         (466,537)         (224,711           Accumulated other comprehensive (loss) income         (134)         7           Total shareholders' equity         1,343,301         939,425 </td <td>Accrued tax liabilities</td> <td></td> <td>6,348</td> <td></td> <td>583</td>	Accrued tax liabilities		6,348		583	
Total current liabilities         84,149         57,100           Deferred revenue, non-current         11,776         11,776           Operating lease liabilities, net of current portion         38,570         44,050           Other non-current liabilities         7,222         14,395           Total liabilities         141,717         127,327           Commitments and contingencies, see Note 6         141,717         127,327           Commitments and contingencies, see Note 6         5         141,717         127,327           Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025         5         141,717         18,847           Treasury shares outstanding at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.         2,157         1,847           Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.         (63)         (63)           Additional paid-in capital         1,807,878         1,162,345           Accumulated deficit         (466,537)         (224,711           Accumulated other comprehensive (loss) income         (134)         7           Total shareholders' equity         1,343,301         939,425	Operating lease liabilities		10,640		8,489	
Deferred revenue, non-current11,77611,776Operating lease liabilities, net of current portion38,57044,050Other non-current liabilities7,22214,395Total liabilities141,717127,327Commitments and contingencies, see Note 6141,717127,327Shareholders' equity:Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.6(3)(663)Additional paid-in capital1,807,8781,162,342Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Other current liabilities		12,086		10,950	
Operating lease liabilities, net of current portion38,57044,050Other non-current liabilities7,22214,395Total liabilities141,717127,327Commitments and contingencies, see Note 6141,717127,327Shareholders' equity: Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,345Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Total current liabilities		84,149		57,106	
Other non-current liabilities7,22214,395Total liabilities141,717127,327Commitments and contingencies, see Note 6141,717127,327Shareholders' equity:Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,345Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Deferred revenue, non-current		11,776		11,776	
Total liabilities141,717127,327Commitments and contingencies, see Note 6Shareholders' equity: Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,342Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Operating lease liabilities, net of current portion		38,570		44,050	
Commitments and contingencies, see Note 6Shareholders' equity: Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,348Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Other non-current liabilities		7,222		14,395	
Shareholders' equity:Shareholders' equity:Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively.2,1571,84760,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,345Accumulated deficit(466,537)(224,711)Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Total liabilities		141,717		127,327	
Common shares, CHF 0.03 par value, 115,172,786 and 103,901,006 shares authorized at September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,345Accumulated deficit(466,537)(224,711)Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Commitments and contingencies, see Note 6					
September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and 60,783,799 shares outstanding at September 30, 2020 and December 31, 2019, respectively.2,1571,847Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31, 2019, respectively.(63)(63)Additional paid-in capital1,807,8781,162,345Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Shareholders' equity:					
Treasury shares, at cost, 195,316 and 250,226 shares at September 30, 2020 and December 31,       (63)       (63)         2019, respectively.       (63)       (63)         Additional paid-in capital       1,807,878       1,162,345         Accumulated deficit       (466,537)       (224,711)         Accumulated other comprehensive (loss) income       (134)       7         Total shareholders' equity       1,343,301       939,425	September 30, 2020 and December 31, 2019, respectively, 70,799,178 and 61,034,025 shares issued at September 30, 2020 and December 31, 2019, respectively, 70,603,862 and					
2019, respectively.       (63)       (65)         Additional paid-in capital       1,807,878       1,162,345         Accumulated deficit       (466,537)       (224,711         Accumulated other comprehensive (loss) income       (134)       7         Total shareholders' equity       1,343,301       939,425			2,157		1,847	
Additional paid-in capital       1,807,878       1,162,345         Accumulated deficit       (466,537)       (224,711         Accumulated other comprehensive (loss) income       (134)       7         Total shareholders' equity       1,343,301       939,425			(63)		(63)	
Accumulated deficit(466,537)(224,711Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Additional paid-in capital		· · ·		1,162,345	
Accumulated other comprehensive (loss) income(134)7Total shareholders' equity1,343,301939,425	Accumulated deficit				(224,711)	
Total shareholders' equity         1,343,301         939,425	Accumulated other comprehensive (loss) income				7	
			<u> </u>	_	939,425	
	Total liabilities and shareholders' equity	\$	1,485,018	\$	1,066,752	

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

# CRISPR Therapeutics AG Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) (unaudited, in thousands, except share and per share data)

	Three Months Ended September 30,				Nine Mon Septem			
		2020		2019		2020		2019
Collaboration revenue (1)	\$	148	\$	211,928	\$	349	\$	212,574
Operating expenses:								
Research and development (2)		71,008		57,246		184,581		130,601
General and administrative		21,539		15,519		62,442		46,216
Total operating expenses		92,547		72,765		247,023		176,817
Income (loss) from operations		(92,399)		139,163		(246,674)		35,757
Other income (expense):								
Loss from equity method investment		_		(3,430)		_		(5,467)
Other income, net		160		2,964		5,804		6,470
Total other income (expense), net		160		(466)		5,804		1,003
Net income (loss) before income taxes		(92,239)		138,697		(240,870)		36,760
Provision for income taxes		(200)		(274)		(956)		(444)
Net income (loss)		(92,439)		138,423		(241,826)		36,316
Foreign currency translation adjustment		31		(12)		3		(14)
Unrealized loss on marketable securities		(144)				(144)		
Comprehensive income (loss)	\$	(92,552)	\$	138,411	\$	(241,967)	\$	36,302
			_					
Net income (loss) per common share — basic	\$	(1.32)	\$	2.52	\$	(3.77)	\$	0.68
Basic weighted-average common shares outstanding		70,143,481	_	54,829,057	_	64,159,224		53,380,123
Net income (loss) per common share — diluted	\$	(1.32)	\$	2.40	\$	(3.77)	\$	0.65
Diluted weighted-average common shares outstanding		70,143,481	_	57,598,901	_	64,159,224		55,821,420
<ul><li>(1) Including the following revenue from a related party, see Notes 7 &amp; 12:</li><li>(2) Including the following research and development expense with a related party, see Notes 7 &amp;</li></ul>	\$	—	\$	31	\$	—	\$	677
12:	\$	_	\$	31	\$	—	\$	14,490

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

# CRISPR Therapeutics AG Condensed Consolidated Statements of Shareholders' Equity (unaudited, in thousands, except share and per share data)

	Common Sl	hares	Treasury	Shares				
	Shares	CHF 0.03 Par Value	Shares	Amount, at cost	Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive Income (Loss)	Total Shareholders' Equity
Balance at December 31, 2018	51,852,862	1,584	307,936	(57)	682,245	(291,569)	(8)	392,195
Issuance of common shares, net of issuance costs of \$1.2								
million	631,580	_	_	—	23,472	_	—	23,472
Vesting of restricted shares	9,288	—	—	—	15	—	—	15
Exercise of vested options	141,915	5	_	_	1,827	_	—	1,832
Stock-based compensation expense	—	—	—	—	10,696	—	—	10,696
Other comprehensive income	—	_	—	_	_	—	8	8
Net loss	—	_	_	_	—	(48,408)		(48,408)
Balance at March 31, 2019	52,635,645	\$ 1,589	307,936	\$ (57) \$	718,255	\$ (339,977)	\$ —	\$ 379,810
Issuance of common shares, net of issuance costs of \$1.3								
million	732,108	40	(47,297)	_	28,074	_	_	28,114
Vesting of restricted shares	12,317	1	_	_	15	_	_	16
Exercise of vested options	118,987	_	(3,650)	_	1,254	_	_	1,254
Stock-based compensation expense	_	_	_	_	12,198	_	_	12,198
Other comprehensive loss	_	_	_	_	_	_	(10)	(10)
Net loss	_	_	_	_	_	(53,699)	_	(53,699)
Balance at June 30, 2019	53,499,057	\$ 1,630	256,989	\$ (57) \$	759,796	\$ (393,676)	\$ (10)	\$ 367,683
Issuance of common shares, net of issuance costs of \$2.3			· · · · · · · · · · · · · · · · · · ·		í.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
million	1,452,880	43	_	_	68,618	_	_	68,661
Vesting of restricted shares	34,328	1	_	_	11			12
Exercise of vested options	203,105	10	_	_	2,328	_	_	2,338
Stock-based compensation expense	—		_		14,773	_		14,773
Other comprehensive loss	_	_	_	_	_	_	(12)	(12)
Net income	_	_	_			138,423		138,423
Balance at September 30, 2019	55,189,370	\$ 1,684	256,989	\$ (57) \$	845,526	\$ (255,253)	\$ (22)	\$ 591,878

# CRISPR Therapeutics AG Condensed Consolidated Statements of Shareholders' Equity – (continued) (unaudited, in thousands, except share and per share data)

	Common Sl	iares	Treasury	Shares				
	Shares	CHF 0.03 Par Value	Shares	Amount, at cost	Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive Income (Loss)	Total Shareholders' Equity
Balance at December 31, 2019	60,783,799	1,847	250,226	(63)	1,162,345	(224,711)	7	939,425
Vesting of restricted shares	5,000	_	_	_	_	_	_	-
Exercise of vested options	83,406	3	—	—	1,385	—	—	1,388
Stock-based compensation expense	—	_	_	_	14,151	_	_	14,151
Issuance of common shares related to license agreement	17,830	_	(17,830)	_	889	_	—	889
Other comprehensive loss	_	_	_	_	_	_	(25)	(25)
Net loss					_	(69,731)		(69,731)
Balance at March 31, 2020	60,890,035	\$ 1,850	232,396	\$ (63) \$	1,178,770	\$ (294,442)	\$ (18)	\$ 886,097
Issuance of common shares, net of issuance costs of \$3.1								
million	1,238,453	38	_	_	82,151	_	_	82,189
Vesting of restricted shares	29,916	1	_	_	_	_	_	1
Exercise of vested options	394,101	11	(37,080)		6,334	—	—	6,345
Stock-based compensation expense	—	_	_	_	15,697	—	_	15,697
Other comprehensive loss	—	—	—		—	—	(3)	(3)
Net loss	_	_	_	_	_	(79,656)	_	(79,656)
Balance at June 30, 2020	62,552,505	\$ 1,900	195,316	\$ (63) \$	1,282,952	\$ (374,098)	\$ (21)	\$ 910,670
Issuance of common shares, net of issuance costs of \$32.8								
million	7,499,135	240	_	_	494,349	_	_	494,589
Vesting of restricted shares	39,667	1	_	_	_	_	_	1
Exercise of vested options	499,145	16	_	_	12,643	_	_	12,659
Purchase of common stock under ESPP	13,410	_	_	_	694	_	_	694
Stock-based compensation expense	_	_	_		17,240	_	_	17,240
Other comprehensive loss	—	_			_	_	(113)	(113)
Net loss	_	_	_	_	_	(92,439)	·	(92,439)
Balance at September 30, 2020	70,603,862	\$ 2,157	195,316	\$ (63) \$	1,807,878	\$ (466,537)	\$ (134)	\$ 1,343,301

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

# CRISPR Therapeutics AG Condensed Consolidated Statements of Cash Flows (unaudited, in thousands)

		Nine Months End	led Septer	mber 30,
		2020		2019
Operating activities:				
Net loss	\$	(241,826)	\$	36,316
Reconciliation of net loss to net cash used in operating activities:				
Depreciation and amortization		6,618		3,293
Equity-based compensation		47,088		32,200
Loss from equity method investment		_		5,467
Other expense, non-cash		979		—
Changes in:				
Accounts receivable		(11)		49
Prepaid expenses and other assets		19,273		(25,342)
Accounts payable and accrued expenses		17,394		420
Deferred revenue		(350)		1,714
Operating lease assets and liabilities		(282)		(689)
Other liabilities, net		(6,037)		(127)
Net cash (used in) provided by operating activities		(157,154)		53,301
Investing activities:				
Purchase of property, plant and equipment		(12,119)		(5,732)
Purchases of marketable securities		(325,316)		_
Maturities of marketable securities		509		_
Net cash used in investing activities		(336,926)		(5,732)
Financing activities:		<u> </u>		
Proceeds from issuance of common shares, net of issuance costs		582,225		121,216
Proceeds from exercise of options and ESPP contributions, net of issuance costs		21,300		5,049
Net cash provided by financing activities		603,525		126,265
Effect of exchange rate changes on cash		5		(14)
Increase in cash		109,450		173,820
Cash, cash equivalents and restricted cash, beginning of period		948,812		459,812
Cash, cash equivalents and restricted cash, end of period	\$	1,058,262	\$	633,632
Supplemental disclosure of non-cash investing and financing activities			<u> </u>	
Property and equipment purchases in accounts payable and accrued expenses	\$	2,863	\$	428
Equity issuance costs in accounts payable and accrued expenses	\$	5,955	э \$	739
Equity issuance costs in accounts payable and accrued expenses	3	5,955	Ф	/ 39
		As of Sept	tember 30	
Reconciliation to amounts within the condensed consolidated balance sheets	+	2020	<u>+</u>	2019
Cash and cash equivalents	\$	1,041,417	\$	629,717
Restricted cash		16,845		3,915
Cash, cash equivalents and restricted cash at end of period		1,058,262		633,632

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

# CRISPR Therapeutics AG Notes to Condensed Consolidated Financial Statements (unaudited)

# 1. Basis of Presentation and Significant Accounting Policies

#### **Basis of Presentation**

The accompanying condensed consolidated financial statements are unaudited and have been prepared by the Company in accordance with accounting principles generally accepted in the United States of America, or GAAP.

The accompanying condensed consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. Prior to December 13, 2019, the Company accounted for its 50% investment in Casebia Therapeutics Limited Liability Partnership, or Casebia, under the equity method. As described in Note 7, on December 13, 2019, Casebia became a fully-owned subsidiary and, as a result, the Company consolidated Casebia's financial results from that date forward. All intercompany balances and transactions have been eliminated in consolidation. The Company views its operations and manages its business in one operating segment, which is the business of discovering, developing and commercializing therapies derived from or incorporating genome-editing technology. Certain information and footnote disclosures normally included in the Company's annual financial statements have been condensed or omitted. These interim financial statements, in the opinion of management, reflect all normal recurring adjustments necessary for a fair presentation of the financial position and results of operations for the three and nine-month interim periods ended September 30, 2020 and 2019.

The results of operations for the interim periods are not necessarily indicative of the results of operations to be expected for the full year. These interim financial statements should be read in conjunction with the audited financial statements for the year ended December 31, 2019, which are contained in the 2019 Annual Report on Form 10-K filed with the Securities and Exchange Commission, or the SEC, on February 12, 2020.

### Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. On an ongoing basis, the Company's management evaluates its estimates, which include, but are not limited to, revenue recognition, equity-based compensation expense and reported amounts of expenses during the period. Significant estimates in these consolidated financial statements have been made in connection with revenue recognition and equity-based compensation expense. The Company bases its estimates on historical experience and other market-specific or other relevant assumptions that it believes to be reasonable under the circumstances. Actual results may differ from those estimates or assumptions. Changes in estimates are reflected in reported results in the period in which they become known.

#### Significant Accounting Policies

The significant accounting policies used in preparation of these condensed consolidated financial statements for the three and nine months ended September 30, 2020 are consistent with those discussed in Note 2 to the consolidated financial statements in the Company's 2019 Annual Report on Form 10-K filed with the SEC on February 12, 2020, except as noted immediately below and as noted within the "Recently Adopted Accounting Standards" section.

#### **Marketable Securities**

The Company's investment strategy is focused on capital preservation. The Company invests in instruments that meet the credit quality standards outlined in the Company's investment policy. The Company classifies marketable securities with a remaining maturity, when purchased, of greater than three months as available-for-sale. The Company classifies marketable securities available to fund current operations as current assets on its condensed consolidated balance sheets. Marketable securities are classified as long-term assets on the condensed consolidated balance sheets if (i) they have been in an unrealized loss position for longer than one year or (ii) the Company has the ability and intent to hold them (a) until the carrying value is recovered and (b) such holding period may be longer than one year.



Marketable securities classified as Level 2 within the valuation hierarchy generally consist of U.S. treasury securities and government agency securities, corporate bonds, and commercial paper. Debt securities are carried at fair value with the unrealized gains and losses included in other comprehensive income (loss) as a component of stockholders' equity until realized. Any premium arising at purchase is amortized to interest expense over the period of the earliest call date, and any discount arising at purchase is accreted to interest income over the life of the instrument. Realized gains and losses on debt securities are determined using the specific identification method and are included in other income (expense), net.

Effective January 1, 2020, the Company adopted ASU 2016-13, *Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Statements*, or ASC 326. As the Company did not hold available-for-sale debt securities upon adoption, no related transition provisions were applicable to the Company upon adoption.

The Company assesses its available-for-sale debt securities under the available-for-sale debt security impairment model in ASC 326 as of each reporting date in order to determine if a portion of any decline in fair value below carrying value recognized on its available-for-sale debt securities is the result of a credit loss. The Company records credit losses in the condensed consolidated statements of operations and comprehensive loss as credit loss expense within other expense, net, which is limited to the difference between the fair value and the amortized cost of the security. To date, the Company has not recorded any credit losses on its available-for-sale debt securities.

#### **Recently Adopted Accounting Standards**

#### **Credit Losses**

On January 1, 2020, the Company adopted ASC 326. The new standard requires that expected credit losses relating to financial assets measured on an amortized cost basis and available-for-sale debt securities be recorded through an allowance for credit losses. It also limits the amount of credit losses to be recognized for available-for-sale debt securities to the amount by which carrying value exceeds fair value and also requires the reversal of previously recognized credit losses if fair value increases. The targeted transition relief standard allows filers an option to irrevocably elect the fair value option of ASC 825-10, *Financial Instruments-Overall*, applied on an instrument-by-instrument basis for eligible instruments. The Company adopted ASC 326 using the modified retrospective method for all financial assets measured at amortized cost. The adoption of ASC 326 did not have a material impact on the Company's financial position or results of operations upon adoption.

#### 2. Marketable Securities

A summary of the Company's cash equivalents and marketable securities, which are recorded at fair value (and do not include \$125.7 million of cash at September 30, 2020) is shown below (in thousands):

	Amortized Cost		I	Gross Unrealized Gains	Gross Unrealized Losses		Fair Value
Cash equivalents:							
Money market funds	\$	896,690	\$	—	\$	—	\$ 896,690
Corporate debt securities		6,505		—		(1)	6,504
Certificates of deposit		4,012				—	4,012
Commercial paper		8,497				_	8,497
Total cash equivalents		915,704		_		(1)	 915,703
Marketable securities:							
U.S. Treasury securities		39,978		2		_	39,980
Corporate debt securities		182,716		9		(154)	182,571
Certificates of deposit		9,153		—		—	9,153
Government-sponsored enterprise securities		6,772				_	6,772
Commercial paper		86,097				_	86,097
Total marketable securities		324,716		11		(154)	324,573
Total cash equivalents and marketable securities	\$	1,240,420	\$	11	\$	(155)	\$ 1,240,276

The amortized cost of all cash equivalents as of December 31, 2019 approximated fair value and the Company did not hold any marketable securities as of December 31, 2019.

As of September 30, 2020, the aggregate fair value of marketable securities that were in an unrealized loss position for less than twelve months was \$107.9 million. As of September 30, 2020, no marketable securities were in an unrealized loss position for more than twelve months. The Company has recorded a net unrealized loss of \$0.1 million during the three and nine months ended September 30, 2020 related to its debt securities, which is included in comprehensive income (loss) on the condensed consolidated statements of operations and comprehensive loss.

The Company determined that there was no material change in the credit risk of the above investments. As such, an allowance for credit losses was not recognized. As of September 30, 2020, the Company does not intend to sell such securities and it is not more likely than not that the Company will be required to sell the securities before recovery of their amortized cost bases. No available-for-sale debt securities held as of September 30, 2020 had remaining maturities greater than two years.

# 3. Fair Value Measurements

The following tables present information about the Company's financial assets measured at fair value on a recurring basis and indicate the fair value hierarchy classification of such fair values as of September 30, 2020 and December 31, 2019 (in thousands):

			Measurements at nber 30, 2020	
	 Total	 Level 1	Level 2	 Level 3
Cash and cash equivalents:				
Cash	\$ 125,713	\$ 125,713	\$ —	\$ _
Money market funds	896,690	896,690	_	_
Corporate debt securities	6,504	_	6,504	_
Certificates of deposit	4,012		4,012	_
Commercial paper	8,497	_	8,497	_
Marketable securities:				
U.S. Treasury securities	39,980	_	39,980	_
Corporate debt securities	182,572		182,572	_
Certificates of deposit	9,153	_	9,153	_
Government-sponsored enterprise securities	6,772		6,772	_
Commercial paper	86,097	_	86,097	_
Other non-current assets	 600			600
Total	\$ 1,366,590	\$ 1,022,403	\$ 343,587	\$ 600
	Total		Measurements at nber 31, 2019 Level 2	Level 3
Cash and cash equivalents:				
Cash	\$ 13,998	\$ 13,998	_	_
Money market funds	929,773	929,773	_	_
Other non-current assets	 600	_	_	600
Total	\$ 944,371	\$ 943,771	\$	\$ 600

Marketable securities classified as Level 2 within the valuation hierarchy generally consist of U.S. treasury securities and government agency securities, corporate bonds, and commercial paper. The Company estimates the fair values of these marketable securities by taking into consideration valuations obtained from third-party pricing sources.

The Company holds equity securities classified as Level 3 which are not material to the Company's financial position.

#### 4. Property and Equipment, net

Property and equipment, net, consists of the following (in thousands):

	As of				
	September 30, 2020			cember 31, 2019	
Computer equipment	\$	727	\$	727	
Furniture, fixtures and other		3,416		3,215	
Laboratory equipment		23,895		16,640	
Leasehold improvements		25,473		21,400	
Construction work in process		3,036		1,394	
Total property and equipment, gross		56,547		43,376	
Accumulated depreciation		(18,623)		(12,046)	
Total property and equipment, net	\$	37,924	\$	31,330	

Depreciation expense for the three and nine months ended September 30, 2020 was \$2.3 million and \$6.6 million, respectively. Depreciation expense for the three and nine months ended September 30, 2019 was \$1.3 million and \$3.3 million, respectively.

#### 5. Accrued Expenses

Accrued expenses consist of the following (in thousands):

	As of					
	September 30, 2020			cember 31, 2019		
Payroll and employee-related costs	\$	14,327	\$	15,229		
Research costs		15,973		9,434		
Licensing fees		915		750		
Professional fees		1,762		2,040		
Intellectual property costs		1,864		2,311		
Accrued property and equipment		566		407		
Other		38		9		
Total	\$	35,445	\$	30,180		

#### 6. Commitments and Contingencies

#### Future Lease Commitments

The Company has entered into certain leasing commitments for which right of use assets and right of use liabilities are not reflected on the consolidated balance sheet as the leases have not yet commenced.

In November 2019, the Company, together with one of its partners, committed to making \$3.7 million in annual rental payments to a clinical manufacturing organization under a lease arrangement for a five-year period following commencement of the lease arrangement. The lease arrangement is expected to commence in the first quarter of 2021 and all payments will be split equally between the Company and its partner.

In May 2020, the Company entered into a lease agreement for a cell therapy manufacturing facility in Framingham, Massachusetts, or the Framingham Lease, for clinical and commercial production of the Company's investigational cell therapy product candidates. The Framingham Lease is expected to commence in either the fourth quarter of 2020 or the first quarter of 2021. In connection therewith, the Company has committed to making at least \$40.2 million in rental payments over the fifteen-year lease term.



In July 2020, the Company entered into a lease agreement for an office and laboratory facility in Boston, Massachusetts, or the 2020 Boston Lease. The 2020 Boston Lease is expected to commence in the first half of 2022. In connection therewith, the Company has committed to making at least \$292.5 million in rental payments over a lease term of 152 months.

#### Litigation

In the ordinary course of business, the Company is from time to time involved in lawsuits, claims, investigations, proceedings, and threats of litigation relating to intellectual property, commercial arrangements, employment and other matters. While the outcome of those proceedings and claims cannot be predicted with certainty, the Company is not party to any legal or arbitration proceedings that may have significant effects on its financial position. It is not a party to any material proceedings in which any director, member of executive management or affiliate of the Company is either a party adverse to it or its subsidiaries or has a material interest adverse to it or its subsidiaries.

# Letters of Credit

As of September 30, 2020, the Company had restricted cash of \$16.8 million, representing letters of credit securing the Company's obligations under certain leased facilities, as well as certain credit card arrangements. The letters of credit are secured by cash held in a restricted depository account. The cash deposit is recorded in restricted cash in the accompanying condensed consolidated balance sheet as of September 30, 2020.

#### Research, License and Intellectual Property Agreements

The Company has engaged several research institutions and companies to identify new delivery strategies and applications of the Company's geneediting technology. The Company is also a party to a number of research license agreements which require significant upfront payments and may be required to make future royalty payments and potential milestone payments from time to time. In addition, the Company is also a party to intellectual property agreements, which require maintenance and milestone payments from time to time. Further, the Company is a party to a number of manufacturing agreements that require upfront payments for the future performance of services.

In association with these agreements, on a product-by-product basis, the counterparties are eligible to receive up to low eight-digit potential payments upon specified research, development and regulatory milestones. In addition, on a product-by-product basis, the counterparties are eligible to receive potential commercial milestone payments based on specified annual sales thresholds. The potential payments are low-single digit percentages of the specified annual sales thresholds. The counterparties are also eligible to receive low single-digit royalties on future net sales.

Under certain circumstances and if certain contingent future events occur, Vertex Pharmaceuticals Incorporated and certain of its subsidiaries, or Vertex, is eligible to receive up to \$395.0 million in potential specified research, development, regulatory and commercial milestones and tiered single-digit percentage royalties on future net sales. Refer to Note 7 for further discussion on the Company's arrangements with Vertex.

#### 7. Significant Contracts

#### Agreements with Vertex Pharmaceuticals Incorporated and certain of its subsidiaries

#### Summary

On October 26, 2015, the Company entered into a strategic collaboration, option and license agreement, or the 2015 Collaboration Agreement, with Vertex. The 2015 Collaboration Agreement is focused on the use of the Company's CRISPR/Cas9 gene-editing technology to discover and develop potential new treatments aimed at the underlying genetic causes of human disease.

On December 12, 2017, the Company and Vertex entered into Amendment No. 1 to the 2015 Collaboration Agreement, or Amendment No. 1, and the Joint Development Agreement, or the JDA. Amendment No. 1, among other things, modified certain definitions and provisions of the 2015 Collaboration Agreement to make them consistent with the JDA and clarified how many options are exercised (or deemed exercised) in connection with certain targets specified under the 2015 Collaboration Agreement. Amendment No. 1 also amended other provisions of the 2015 Collaboration Agreement, including the expiration terms.

In connection with the 2015 Collaboration Agreement, Vertex made a nonrefundable upfront payment of \$75.0 million. Under the 2015 Collaboration Agreement, Vertex agreed to fund the discovery activities conducted pursuant to the agreement while retaining options to co-exclusive and exclusive licenses. In December 2017, upon execution of the JDA and Amendment No. 1, Vertex exercised its option to obtain a co-exclusive license to develop and commercialize hemoglobinopathy and beta-globin targets. As such, for potential hemoglobinopathy treatments, including treatments for sickle cell disease, the Company and Vertex will share equally all research and development costs and worldwide revenues. In connection with the JDA, the Company received a \$7.0 million up-front payment from Vertex and subsequently received a one-time low seven-digit milestone payment upon the dosing of the second patient in a clinical trial with the initial product candidate. In addition, upon execution of the JDA and Amendment No. 1, it was clarified that Vertex may elect to license up to four remaining targets, for which it will lead global development and commercialization activities and the Company received the right to receive up to \$420.0 million in development, regulatory and commercial milestones and royalties on net product sales for each of the targets (inclusive of \$10 million due upon exercise of each exclusive option).

In June 2019, the Company and Vertex entered into a series of agreements, which closed on July 23, 2019, including a strategic collaboration and license agreement, or the 2019 Collaboration Agreement, for the development and commercialization of products for the treatment of Duchenne muscular dystrophy, or DMD, and myotonic dystrophy type 1, or DM1. Under the terms of the 2019 Collaboration Agreement, the Company received an upfront, nonrefundable payment of \$175.0 million. In addition, the Company is eligible to receive potential aggregate payments of up to \$825.0 million based upon the successful achievement of specified research, development, regulatory and commercial milestones for the DMD and DM1 programs. The Company is also eligible to receive tiered royalties on future net sales on any products that may result from this collaboration. For the DMD program, Vertex is responsible for all research, development, manufacturing and commercialization activities and all related costs. For the DM1 program, the Company will perform specified guide RNA research and Vertex is responsible for all other research, development, manufacturing and commercialization costs. Upon Investigational New Drug, or IND, application filing, the Company has the option to forego the DM1 milestones and royalties and instead, co-develop and co-commercialize all DM1 products globally in exchange for payment of 50% of research and development costs incurred by Vertex from the effective date of the agreement through IND filing.

In connection with the execution of the 2019 Collaboration Agreement, the Company and Vertex entered into a second amendment to the 2015 Collaboration Agreement, or Amendment No. 2. Among other things, Amendment No. 2 modified certain definitions and provisions of the 2015 Collaboration Agreement to make them consistent with the 2019 Collaboration Agreement and set forth the number and identity of the collaboration targets under the 2015 Collaboration Agreement. The Company and Vertex agreed that one of the four remaining options under the 2015 Collaboration Agreement, as amended, would not be exercised; instead, the Company will reacquire the exclusive rights and will conduct research and development activities for the specified target. Vertex will have the option to co-develop and co-commercialize the specified target upon IND filing in exchange for payment of 50% of research and development costs incurred by the Company from the effective date of the agreement through IND filing. If Vertex does not exercise its option to co-develop and co-commercialize the specified to receive up to \$395.0 million in potential specified research, development, regulatory and commercial milestones and tiered single-digit royalties on future net sales.

In October 2019, Vertex exercised the remaining three options granted to it under the 2015 Collaboration Agreement to exclusively license the collaboration targets developed under the 2015 Collaboration Agreement, resulting in a payment of \$30.0 million to the Company in the fourth quarter of 2019. The Company achieved the first milestone under the 2019 Collaboration Agreement in the first quarter of 2020 and, in connection therewith, received a payment of \$25.0 million in April 2020.

#### Accounting for the Vertex Agreements

The 2015 Collaboration Agreement, Amendment No. 1, and JDA are collectively the "2015 Agreements" and the 2019 Collaboration Agreement and Amendment No. 2. are collectively the "2019 Agreements." The 2015 Collaboration Agreement, Amendment No. 1, Amendment No. 2, JDA and 2019 Collaboration Agreement are collectively the "Vertex Agreements."

The Vertex Agreements include components of a customer-vendor relationship as defined under ASC 606, *Revenue from Contracts with Customers*, or ASC 606, collaborative arrangements as defined under ASC 808, *Collaborative Agreements*, or ASC 808, and research and development costs as defined under ASC 730, *Research and Development*, or ASC 730.

#### Accounting Analysis Under ASC 606

#### Accounting for the 2019 Agreements

#### Identification of the Contract

The 2019 Agreements represented a contract modification to the 2015 Agreements. As a result, the 2019 Agreements and the 2015 Agreements are combined for accounting purposes and treated as a single arrangement.

#### Identification of Performance Obligations

The Company concluded the following material promises were both capable of being distinct and distinct within the context of the Vertex Agreements and represented separate performance obligations: (i) an exclusive license for worldwide rights for DMD gene editing products, or DMD License; (ii) an exclusive license for worldwide rights for DM1 gene editing products, or DM1 License; (iii) the performance of specified guide RNA research for DM1, or DM1 R&D Services; (iv) a material right representing the option to obtain a co-exclusive development and commercialization license for a specified target, or Specified Target Option; (v) three material rights representing the option for up to three exclusive licenses to develop and commercialize the collaboration targets, or Collaboration Target Options; and (vi) the waiving of Vertex's material right associated with its option to a fourth exclusive license in connection with the Company's reacquisition of exclusive rights to the specified target.

## Determination of Transaction Price

The overall transaction price was determined based on the remaining transaction price from the 2015 Agreements, as well as the transaction price from the 2019 Agreements. The transaction price includes variable consideration estimated using the most likely amount methodology. As such, the Company determined the transaction price totaling \$268.6 million was comprised of: (i) \$57.8 million of pre-existing deferred revenue from the 2015 Agreements; (ii) non-cash consideration of \$10.0 million related to the waiving of Vertex's material right associated with its option to a fourth exclusive license in connection with the Company's reacquisition of exclusive rights to the specified target; (iii) an upfront payment of \$175.0 million; (iv) variable consideration of \$25.0 million which represented the Company's estimate related to a near-term research and development milestone for which the Company determined that it is not probable that a significant reversal of cumulative consideration will occur at the onset of the transaction; and (v) variable consideration of \$0.8 million which represents the Company's estimate of payments from Vertex for DM1 R&D Services.

The Company determined that all other possible variable consideration resulting from milestones and royalties discussed above was fully constrained as of September 30, 2020. The Company will re-evaluate the transaction price in each reporting period.

#### Allocation of Transaction Price to Performance Obligations

The selling price of each performance obligation was determined based on the Company's estimated standalone selling price, or the ESSP. The Company developed the ESSP for all the performance obligations included in the Vertex Agreements with the objective of determining the price at which it would sell such an item if it were to be sold regularly on a standalone basis. The Company then allocated the transaction price to each performance obligation on a relative standalone selling price basis.

The ESSP for the DMD License and DM1 License was determined to be \$224.6 million and \$76.2 million, respectively. The ESSP was determined based on probability and present value adjusted cash flows from projected worldwide net profit for each of the respective programs based on probability assessments, projections based on internal forecasts, industry data, and information from other guideline companies within the same industry and other relevant factors. On a relative basis, \$151.1 million and \$51.3 million of the transaction price was allocated to the DMD License and DM1 License, respectively.

The ESSP for the Specified Target Option material right was determined to be \$17.5 million, which was based on the incremental discount between (i) the value of the probability and present value adjusted cash flows from the equal sharing of projected worldwide net profit increased by the value of the option provided to Vertex less (ii) the expected exercise price at the time of option exercise. The present value adjusted cash flows also considered projections based on internal forecasts, industry data, and information from other guideline companies within the same industry and other relevant factors. On a relative basis, \$11.8 million of the transaction price was allocated to the Specified Target Option material right.

The ESSP for each of the three Collaboration Target Option material rights was determined to be \$25.0 million, \$22.2 million and \$22.2 million, respectively, which was determined based on the probability and present value adjusted cash flows from milestone payments owed for exclusive licenses, less the price paid to exercise each option. On a relative basis, \$46.7 million of the transaction price was allocated to the Collaboration Target Option material rights.

The aforementioned ESSPs reflect the level of risk and expected probability of success inherent in the nature of the associated research area.

The ESSP for the waiving of Vertex's material right associated with its option to a fourth exclusive license under the 2015 Agreements was determined to be \$10.0 million, or the contractual value of the option. On a relative basis, \$6.7 million of the transaction price was allocated to the waiving of Vertex's material right associated with its option to a fourth exclusive license under the 2015 Agreements.



The ESSP for the DM1 R&D Services was determined to be \$1.7 million, which was based on estimates of the associated effort and cost of the services, adjusted for a reasonable profit margin that would be expected to be realized under similar contracts. On a relative basis, \$1.1 million of the transaction price was allocated to the DM1 R&D Services.

#### Recognition of Revenue

The Company determined that the DMD License and DM1 License represent functional intellectual property, as the intellectual property provides Vertex with the ability to perform a function or task in the form of research and development. As such, the revenue related to the licenses was recognized at the point in time in which they were delivered during the third quarter of 2019.

The revenue allocated to the waiving of Vertex's material right associated with its option to a fourth exclusive license in connection with Company's reacquisition of exclusive rights to the specified target was recognized at the point in time in which the option was waived, on the effective date of the 2019 Agreements.

The Company concluded that the Specified Target Option and Collaboration Target Options were considered material rights under the Vertex Agreements. Revenue related to the three Collaboration Target Options material right was recognized at the point in time in which Vertex exercised the Collaboration Target Options, which occurred in the fourth quarter of 2019. Revenue related to the Specified Target Option will be recognized at the point in time in which the option is exercised.

The Company recognizes revenue related to the DM1 R&D Services over time as the services are rendered, which is expected to be over an 18month period from the effective date of the 2019 Agreements.

#### Accounting for the 2015 Agreements (prior to the execution of the 2019 Agreements)

On January 1, 2018, the Company adopted ASC 606 using the modified retrospective approach. The Company applied the practical expedient in ASC 606-10-65-1 in identifying the satisfied and unsatisfied performance obligations, determining the transaction price and allocating the transaction price under the practical expedient in ASC 606. There was no significant impact on revenue recognized under ASC 606 and the prior revenue recognition as a result of the adoption.

#### Identification of the Contract

Amendment No. 1 and the JDA represented a contract modification to the 2015 Collaboration Agreement. As a result, the 2015 Agreements are combined for accounting purposes and treated as a single arrangement.

#### Identification of Performance Obligations

The Company concluded the following material promises were both capable of being distinct and distinct within the context of the 2015 Agreements and represented separate performance obligations: (i) the non-exclusive research license; (ii) four material rights representing the option for up to four exclusive licenses to develop and commercialize the collaboration targets; (iii) a combined performance obligation representing the co-exclusive research license, and a development and commercialization license to develop and commercialize hemoglobinopathies and beta-globin targets; and (iv) the performance of R&D Services.

#### Determination of Transaction Price

The overall transaction price was comprised of: (i) original upfront payment of \$75.0 million, (ii) an upfront payment of \$7.0 million under the JDA, and (iii) \$19.3 million of variable consideration associated with the R&D services.

The Company determined that all other possible variable consideration resulting from milestones and royalties discussed above was fully constrained at the time of the transaction.

#### Allocation of Transaction Price to Performance Obligations

The selling price of each performance obligation was determined based on the Company's ESSP. The Company developed the ESSP for all the performance obligations included in the 2015 Agreements with the objective of determining the price at which it would sell such an item if it were to be sold regularly on a standalone basis. The Company then allocated the transaction price to each performance obligation on a relative standalone selling price basis.

The ESSP for R&D Services was determined to be \$19.3 million. The Company developed the ESSP for the R&D Services primarily based on the nature of the services to be performed and estimates of the associated effort and cost of the services, adjusted for a reasonable profit margin that would be expected to be realized under similar contracts. The Company allocated \$19.3 million of the transaction price to R&D Services.

The Company's ESSP for each of the remaining material rights to obtain an exclusive license to develop and commercialize a single collaboration target are \$45.6 million, \$38.4 million, \$17.3 million and \$17.3 million for a total of \$118.6 million. ESSPs for these items were determined based on the probability and present value adjusted cash flows from milestone payments owed for exclusive licenses, less the price paid to exercise each option. On a relative basis, \$57.7 million of the transaction price was allocated to these material rights.

The Company's ESSP for the co-exclusive research license and the development and commercialization licenses for hemoglobinopathy and betaglobin targets is \$48.9 million. The ESSP for this item was determined based on probability and present value adjusted cash flows from the equal sharing of projected worldwide net profit. ESSP reflects the level of risk and expected probability of success inherent in the nature of the associated research area. On a relative basis, \$23.8 million of the transaction price was allocated to the co-exclusive research license and the development and commercialization licenses for hemoglobinopathy and beta-globin targets.

The Company used a market-based approach to determine the ESSP of the non-exclusive research license of \$1.0 million. The Company determined ESSP by use of comparative data, including in-licensed research agreements negotiated and executed within the Company. On a relative basis, \$0.5 million of the transaction price was allocated to the non-exclusive research license.

The aforementioned ESSPs reflect the level of risk and expected probability of success inherent in the nature of the associated research area.

#### Recognition of Revenue

The Company determined that the non-exclusive research license is symbolic intellectual property as Vertex receives value from the license through the Company's ongoing activities, and, as such, the revenue related to the non-exclusive research license was recognized ratably over the term of the arrangement. Upon the execution of the JDA, a co-exclusive research, development and commercialization license was granted for hemoglobinopathy and beta-globin targets. The Company determined that the revenue related to these licenses was recognized at a point in time, in which they were delivered at inception of the JDA in December 2017. As Vertex has the material right in its option to obtain four additional exclusive licenses to develop and commercialize four additional collaboration targets, the Company determined that consideration allocated to these material rights would be included in the transaction price of the exclusive license and recognized at a point in time, upon the exercise of the option by Vertex or expiration. As the Company has a right to consideration from Vertex in an amount that corresponds directly with the value of the Company's performance completed to date for the R&D services, the Company recognized revenue related to the R&D services as invoiced, in line with the practical expedient in ASC 606-10-55-18.

#### Revenue recognized in connection with the Vertex Agreements

Revenue recognized under the Vertex Agreements for the three and nine months ended September 30, 2020, respectively, was not material. Revenue recognized under the Vertex Agreements for the three and nine months ended September 30, 2019 was \$211.9 million and \$212.1 million, respectively.

As of September 30, 2020, there was \$0.6 million of current deferred revenue related to the collaboration with Vertex compared to \$0.9 million as of December 31, 2019. As of September 30, 2020, there was \$11.8 million of non-current deferred revenue related to the collaboration with Vertex, which is unchanged from December 31, 2019. The transaction price allocated to the remaining performance obligations was \$12.0 million.

#### Milestones under the Vertex Agreements

The Company has evaluated the milestones that may be received in connection with the Vertex Agreements. As discussed above, the Company is eligible to receive up to \$410.0 million in additional development, regulatory and commercial milestones and royalties on net product sales for each of the three collaboration targets that Vertex licensed in the fourth quarter of 2019. Each milestone is payable only once per collaboration target, regardless of the number of products directed to such collaboration target that achieve the relevant milestone event.



The Company is eligible to receive potential future payments of up to \$800.0 million based upon the successful achievement of specified research, development, regulatory and commercial milestones for the DMD and DM1 programs. As discussed above, the first research milestone of \$25.0 million was included in the transaction price. This amount was recorded as a contract asset within prepaid expenses and other current assets on the condensed consolidated balance sheet at December 31, 2019. This milestone was achieved during the first quarter of 2020 and paid during the second quarter of 2020. The Company is also eligible to receive tiered royalties on future net sales on any products that may result from this collaboration; however, the Company has the option to forego the DM1 milestones and royalties to co-develop and co-commercialize all DM1 products globally.

Each of the remaining milestones are fully constrained as of September 30, 2020. There is uncertainty that the events to obtain the research and developmental milestones will be achieved given the nature of clinical development and the stage of the CRISPR/Cas9 technology. The remaining research, development and regulatory milestones will be constrained until it is probable that a significant revenue reversal will not occur. Commercial milestones and royalties relate predominantly to a license of intellectual property and are determined by sales or usage-based thresholds. The commercial milestones and royalties are accounted for under the royalty recognition constraint and will be accounted for as constrained variable consideration. The Company applies the royalty recognition constraint for each commercial milestone and will not recognize revenue for each until the subsequent sale of a licensed product (achievement of each) occurs.

#### Accounting Analysis under ASC 808

In connection with the 2019 Agreements, the Company identified the following collaborative elements, which were unchanged as those identified with the 2015 Agreements and are accounted for under ASC 808: (i) development and commercialization services for shared products; (ii) R&D Services for follow-on products; and (iii) committee participation. The related impact of the cost sharing associated with research and development is included in research and development expense. Expenses related to services performed by the Company are classified as research and development expense. Payments received from Vertex for partial reimbursement of expenses are recorded as a reduction of research and development expense.

During the three and nine months ended September 30, 2020, the Company recognized \$12.5 million and \$31.5 million of research and development expense related to the Vertex Agreements, respectively. During the three and nine months ended September 30, 2019, the Company recognized \$7.5 million and \$21.3 million of research and development expense related to the Vertex Agreements, respectively. Research and development expense for the three and nine months ended September 30, 2020 was net of \$6.8 million and \$17.8 million of reimbursements from Vertex, respectively. Research and development expense for the three and nine months ended September 30, 2019 was net of \$3.8 million and \$11.8 million of reimbursements from Vertex, respectively.

#### Accounting Analysis under ASC 730

In connection with the 2019 Vertex Agreements, the Company and Vertex agreed that one of the four remaining options under the 2015 Agreements, as amended, would not be exercised; instead, the Company will conduct research and development activities for a specified target. Vertex will have the option to co-develop and co-commercialize the specified target upon IND filing in exchange for payment of 50% of research and development costs incurred by the Company from the effective date of the agreement through IND filing. If Vertex does not exercise its option to do so within a specified time period, Vertex is eligible to receive up to \$395.0 million in potential specified research, development, regulatory and commercial milestones and tiered single-digit royalties on future net sales.

In connection therewith, the Company determined that in order for the Company to obtain the right to conduct research and development activities on the specified target, the Company had waived its right to receive an option exercise payment of \$10.0 million from Vertex, which was included as noncash consideration in the transaction price for the 2019 Agreements described above. The Company then subsequently reacquired its rights to the specified target by waiving payment owed by Vertex of \$10.0 million for a license that represents in-process research and development and therefore, \$10.0 million of non-cash consideration was fully expensed upon the execution of the 2019 Agreements. The Company also determined that research and development services through IND for the specified target and any payment of future development and commercialization milestones, as well as sales-based milestones and royalties for the specified target, would be accounted for as research and development costs under ASC 730 and expensed as incurred. In addition, the Company also determined that should the Company elect its option to co-develop and co-commercialize all DM1 products globally, it will record the option fee as research and development expense upon exercise.

#### Agreements with Bayer Healthcare LLC

#### Summary

On December 19, 2015, the Company entered into an agreement with Bayer, to establish a joint venture to focus on the research and the development of new therapeutics to cure blood disorders, blindness and congenital heart disease. On February 12, 2016, the Company and Bayer completed the formation of the joint venture entity, Casebia. Bayer and the Company each received a 50% equity interest in the entity in exchange for their respective contributions to the entity. At that time, the Company also entered into a separate service agreement with Casebia, under which the Company agreed to provide compensated research and development services. Collectively, these agreements are referred to as the "2015 Casebia Agreements."

On December 13, 2019, the Company, Bayer and Casebia entered into a series of transactions by which, among other things, the Company acquired 100% of the partnership interests in Casebia, or the Retirement Agreement, the Company and Bayer terminated their joint venture, or the Joint Venture Termination Agreement, and the Company and Bayer entered into a new option agreement, or the 2019 Option Agreement. Collectively, these agreements are referred to as the "2019 Casebia Agreements."

In connection with the Retirement Agreement, Casebia retired Bayer's outstanding partnership interests in exchange for \$22.0 million less certain estimated interim operating expenses of \$6.0 million, and the Company acquired 100% of the partnership interests in Casebia.

In connection with entering into the Retirement Agreement, the Company, Bayer and Casebia entered into the Joint Venture Termination Agreement. In connection therewith, the Company and Bayer agreed to terminate the Joint Venture Agreement from December 2015. Under the Joint Venture Termination Agreement, Casebia-owned patents are co-owned by the Company and Bayer, subject to certain exclusive licenses granted therein. Under the Joint Venture Termination Agreement, the Company and Bayer each retained rights to their respective contributed intellectual property.

In connection with entering into the Retirement Agreement and the Joint Venture Termination Agreement, the Company and Bayer also entered into the 2019 Option Agreement, under which, among other things, the Company committed to invest a specified amount in certain research and development activities as described under "Accounting Analysis – Accounting for 2019 Casebia Agreements". In addition, Bayer has an option (exercisable during a specified exercise period defined by future events, but in no event longer than 5 years after the effective date of the 2019 Option Agreement) to co-develop and co-commercialize two products for the diagnosis, treatment or prevention of certain autoimmune disorders, eye disorders or hemophilia A disorders. In the event Bayer elects to co-develop and co-commercialize a product, the parties will negotiate and enter into a co-development and co-commercialization agreement, or the Co-Commercialization Agreement, for such product, and Bayer would be responsible for 50% of the research and development costs incurred by the Company for such product going forward. Bayer would receive 50% of all profits from sales of such product and would be responsible for 50% of all losses.

If Bayer elects to exercise its option to co-develop and co-commercialize a product, Bayer will make a one-time \$20.0 million payment, or the Option Payment, to the Company that will become non-refundable once the parties execute a Co-Commercialization Agreement with respect to such optioned product. The Option Payment is payable only once with respect to the first time Bayer exercises an option under the 2019 Option Agreement.

In addition, following Bayer's exercise of its option and/or the execution of the Co-Commercialization Agreement for an optioned product, for a period beginning on the effective date of such Co-Commercialization Agreement and ending on the earlier of the three month anniversary of such effective date or during the 90-day negotiation process of such Co-Commercialization Agreement, Bayer has a right to negotiate an exclusive license to develop and commercialize such optioned product. If Bayer exercises such right, the parties will enter into an exclusive license agreement for such optioned product on terms mutually agreeable to the parties. Further, the Option Payment paid for such optioned product would become credited against payments due under such exclusive license or any other exclusive license entered into in connection with the 2019 Option Agreement.

Either party may terminate the 2019 Option Agreement upon the other party's material breach, subject to specified notice and cure provisions. The Company may also terminate the 2019 Option Agreement in the event Bayer commences or participates in any action or proceeding challenging the validity or enforceability of any Company patent necessary or useful for the research, development, manufacture or commercialization of a product that is the subject of the 2019 Option Agreement. Bayer may also terminate the 2019 Option Agreement upon the Company's bankruptcy or insolvency, or for convenience at any time, after giving written notice.

#### Accounting Analysis

#### Accounting for the 2015 Casebia Agreements

During 2016, the Company recorded an equity method investment of \$36.5 million equal to the fair value of the Company's interest in Casebia and subsequently recorded unrealized equity method losses for the same amount. The Company had no further contractual obligations to provide cash financing to Casebia and accordingly, no additional losses were recorded beyond the initial equity amount. Casebia's net losses for the three and nine months ended September 30, 2019 were \$22.6 million and \$54.9 million, respectively. Unrecognized equity method losses in excess of the Company's equity method investment in Casebia were \$70.1 million as of September 30, 2019.

The remaining performance obligations prior to the 2019 Casebia Agreements included research and development services, which were recorded as revenue under ASC 606, and cost sharing activities with Casebia related to shared research and technology licenses, which were recorded as a cost/profit sharing arrangement under ASC 808, with the related impact of the cost sharing included as research and development expense. All performance obligations were terminated upon the execution of the 2019 Casebia Agreements.

During the three and nine months ended September 30, 2019, the Company recognized \$0.1 million and \$0.5 million, respectively, of revenue related to the collaboration with Casebia. During the three and nine months ended September 30, 2019, the Company recognized \$0.1 million and \$0.7 million of research and development expense related to the collaboration with Casebia. During the three and nine months ended September 30, 2019, the Company recognized a loss from equity method investment of \$3.3 million and \$5.5 million, respectively, related to stock-based compensation expense for Casebia employees.

#### Accounting for the 2019 Casebia Agreements

The Company determined that the Retirement Agreement and Joint Venture Termination Agreement resulted in the Company obtaining a controlling interest in Casebia and should be accounted for as a separate component from the 2019 Option Agreement. In doing so, the Company allocated the consideration transferred of \$41.0 million (consisting of \$16.0 million of assets acquired net of the purchase price, as displayed in the table below, and \$25.0 million of cash allocated to the 2019 Option Agreement) between the two components using a relative fair value approach. The Company determined the relative fair value related to obtaining a controlling interest in Casebia was \$32.0 million and the relative fair value of the consideration transferred related to the 2019 Option Agreement was \$25.0 million, which is comprised of \$20.2 million related to certain research and development activities and \$4.8 million related to certain options as described above.

As a result of the Retirement Agreement, the Company determined that it had obtained a controlling interest in a variable interest entity, for which it became the primary beneficiary. As such, under ASC 810, *Consolidation*, the Company accounted for the net assets obtained under ASC 805, *Business Combinations*. In accordance therewith, the Company determined the set of acquired assets and assumed liabilities did not meet the definition of a business, as the Company did not acquire an assembled workforce and thus the Company did not acquire substantive processes capable of producing outputs. As such, no goodwill was recorded. The Company measured the fair value of the assets and liabilities received, determining the relative fair value was \$16.0 million (after paying the \$16.0 million for Bayer's 50% interest) and recorded the difference between that amount and the Company's carrying amount, which was zero, as a gain within other income (expense). The relative fair value of the assets and liabilities received (exclusive of the \$16.0 million paid from Casebia to Bayer to retire Bayer's interest in the JV) was determined as follows (in thousands):

Fair value	Amount
Cash and cash equivalents	\$ 6,784
Prepaid expenses and other current assets	2,565
Property, plant and equipment, net	9,340
Operating lease assets	11,003
Restricted cash	1,226
Accrued expenses and other current liabilities	(3,915)
Operating lease liabilities	(11,003)
Net assets	\$ 16,000

The value of the reacquired rights related to the intellectual property was determined to be insignificant.

The Company determined that the 2019 Option Agreement should be accounted for under ASC 730-20, *Research and Development Expense*. This determination was based on the fact that the financial risk associated with the research and development has been transferred to the Company because repayment of any of the funds provided by Bayer depends solely on the results of the research and development having a future economic benefit. The Company further determined that it had two separate obligations under the 2019 Option Agreements, which consist of research and development services and future delivery of up to two options for products in defined fields. The relative fair value of the obligations was determined to be \$20.2 million and \$4.8 million, respectively. As the Company has accounted for its obligations as a contract to perform research and development expense as the research is performed and, with respect to the future delivery of up to two option for products in defined fields, at the earlier of option exercise (at or near IND application filing), expiration, or when commercially reasonable efforts to progress the program have been exhausted.

During the three and nine months ended September 30, 2020, the Company recorded a benefit of \$4.4 million and \$8.6 million, respectively, to research and development expense for qualifying expenses incurred under the 2019 Option Agreement. The Company has recorded \$11.6 million in other current liabilities relating to certain research and development obligations to be satisfied within one year of the balance sheet date and \$4.8 million in other long-term liabilities consisting of the relative fair value of such obligations to be satisfied beyond one year from the balance sheet date as well as the relative fair value of the options.

#### 8. Share Capital

The Company had 115,172,786 authorized common shares as of September 30, 2020, with a par value of CHF 0.03 per share. Share Capital consisted of the following:

		As o	f
Type of Share Capital	Conditional Capital	September 30, 2020	December 31, 2019
Common shares	Registered share capital	71,633,951	61,036,566
Common shares	Authorized share capital	21,125,426	19,246,503
Common shares	Conditional share capital - Bonds or similar debt instruments	4,919,700	4,919,700
Common shares	Conditional share capital - Employee benefit plans	17,493,709	18,698,237
	Total	115,172,786	103,901,006

#### At-the-Market Offering

In August 2018, the Company entered into an Open Market Sale Agreement<sup>SM</sup>, or the 2018 ATM, with Jefferies LLC, or Jefferies, under which Jefferies was able to offer and sell, from time to time, common shares having aggregate gross proceeds of up to \$125.0 million.

In August 2019, following the termination of the 2018 ATM by its terms, the Company entered into a new Open Market Sale Agreement<sup>SM</sup> with Jefferies, or the 2019 ATM, under which the Company may offer and sell, from time to time, common shares having aggregate gross proceeds of up to \$200.0 million.

During the three and nine months ended September 30, 2019, the Company sold 1.5 million and 2.8 million common shares, respectively, under the 2018 ATM for net cash proceeds of \$69.4 million and \$121.9 million, respectively, after deducting commission fees of \$1.5 million and \$3.1 million, respectively. In addition, the Company paid approximately \$0.5 million and \$0.7 million in stamp taxes during the three and nine months ended September 30, 2019, respectively, and accrued an additional \$0.6 million for stamp taxes as of September 30, 2019 related to securities sold under the 2018 ATM.

For the year ended December 31, 2019, the Company issued and sold an aggregate of 2.8 million common shares under the 2018 ATM, for aggregate proceeds of \$120.6 million, which were net of equity issuance costs of \$4.4 million.

During the three and nine months ended September 30, 2020, the Company sold 0.1 million and 1.3 million common shares, respectively, under the 2019 ATM for net cash proceeds of \$9.6 million and \$91.9 million, respectively, after deducting commission fees \$0.2 million and \$2.4 million, respectively. In addition, the Company paid approximately \$0.4 million in stamp taxes during the three and nine months ended September 30, 2020, respectively, and accrued an additional \$0.6 million for stamp taxes as of September 30, 2020 related to securities sold under the 2019 ATM.

# July 2020 Offering

In July 2020, the Company sold 7.4 million common shares through an underwritten public offering (inclusive of shares sold pursuant to the exercise of the underwriters' option to purchase additional shares) at a public offering price of \$70.00 per share for aggregate net proceeds of \$484.8 million, which were net of equity issuance costs and stamp tax of \$32.5 million, of which \$4.9 million was accrued on the condensed consolidated balance sheet as of September 30, 2020.

#### 9. Stock-based Compensation

During the three and nine months ended September 30, 2020 and 2019, the Company recognized the following stock-based compensation expense (in thousands):

	Thr	Three Months Ended September 30,				Nine Months Ended September 30,			
		2020		2019		2020		2019	
Research and development	\$	9,109	\$	6,262	\$	24,492	\$	17,137	
General and administrative		8,131		5,081		22,596		15,063	
Loss from equity method investment		-		3,430		-		5,467	
Total	\$	17,240	\$	14,773	\$	47,088	\$	37,667	

#### Stock option activity

The following table summarizes stock option activity for the nine months ended September 30, 2020:

	Shares (in thousands)	exe	Weighted- average ercise price per share
Outstanding at December 31, 2019	7,782,437	\$	31.30
Granted	1,468,758	\$	56.19
Exercised	(1,011,236)	\$	22.34
Cancelled or forfeited	(307,053)	\$	41.35
Outstanding at September 30, 2020	7,932,906	\$	36.66
Exercisable at September 30, 2020	3,741,338	\$	28.68
Vested and expected to vest at September 30, 2020	7,932,906	\$	36.66

As of September 30, 2020, total unrecognized compensation expense related to stock options was \$105.5 million, which the Company expects to recognize over a remaining weighted-average period of 2.6 years.

#### Restricted stock activity

The following table summarizes restricted stock activity for the nine months ended September 30, 2020:

	Restricted Stock	Weighted- Average Grant Date Fair Value
Unvested balance as of December 31, 2019	699,534	\$ 56.53
Granted	306,220	49.01
Vested	(74,583)	50.60
Cancelled or forfeited	(33,661)	46.23
Unvested balance as of September 30, 2020	897,510	\$ 54.84

As of September 30, 2020, total unrecognized compensation expense related to unvested restricted common shares was \$31.6 million, which the Company expects to recognize over a remaining weighted-average vesting period of 2.0 years.



# 10. Net Income (Loss) Per Share Attributable to Common Shareholders

Basic net income (loss) per share is calculated by dividing net income (loss) attributable to common shareholders by the weighted-average number of common shares outstanding during the period. Diluted net income (loss) per share is calculated by dividing the net income (loss) attributable to common shareholders by the weighted-average number of common share equivalents outstanding for the period, including any dilutive effect from outstanding stock options and warrants using the treasury stock method. The Company's net income (loss) is net income (loss) attributable to common shareholders for all periods presented.

The following table sets forth the computation of basic and diluted net income (loss) per share for the periods ended (in thousands, except per share amounts):

	Three Mon Septem		Nine Months Ended September 30,		
	2020	2019	2020	2019	
Net income (loss)	\$ (92,439)	\$ 138,423	\$ (241,826)	\$ 36,316	
Basic weighted-average common shares outstanding	70,143,481	54,829,057	64,159,224	53,380,123	
Effect of potentially dilutive securities:					
Outstanding options		2,612,354		2,326,824	
Unvested restricted common shares		157,490		114,473	
Employee stock purchase plan		—		—	
Diluted weighted-average common shares outstanding	70,143,481	57,598,901	64,159,224	55,821,420	
Basic net income (loss) per common share	(1.32)	2.52	(3.77)	0.68	
Diluted net income (loss) per common share	(1.32)	2.40	(3.77)	0.65	

The following common stock equivalents were excluded from the calculation of diluted net loss per share for the periods indicated because including them would have had an anti-dilutive effect (in thousands):

	Three Mon Septem		Nine Months Ende	d September 30,
	2020	2019	2020	2019
Outstanding options	7,932,906	3,791,475	7,932,906	3,911,071
Unvested restricted common shares	897,510	13,750	897,510	34,250
ESPP	11,808	—	11,808	—
Total	8,842,224	3,805,225	8,842,224	3,945,321

#### 11. Income Taxes

During the three and nine months ended September 30, 2020, the Company recorded an income tax provision of \$0.2 million and \$1.0 million, respectively, representing an effective tax rate of -0.2% and -0.4%, respectively. During the three and nine months ended September 30, 2019, the Company recorded an income tax provision of \$0.3 million and \$0.4 million, respectively, representing an effective tax rate of 0.2% and 1.2%, respectively. The income tax provision is primarily attributable to the year-to-date pre-tax income earned by the Company's U.S. subsidiary. The difference in the statutory tax rate and effective tax rate is primarily a result of the jurisdictional mix of earnings and losses that are not benefited. The Company maintains a valuation allowance against certain deferred tax assets that are not more-likely-than-not realizable. As a result, the Company has not recognized a tax benefit related to losses generated in Switzerland in the current periods. On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security Act, or the CARES Act, was enacted in the United States, the impact of which was not material.

# 12. Related Party Transactions

#### Casebia

Prior to the termination of the joint venture in December 2019, Casebia was a related party under ASC 850, *Related Party Disclosures*, or ASC 850. Refer to Note 7, "*Joint Venture with Bayer Healthcare LLC*."

#### Vertex

In the fourth quarter of 2018, upon becoming owners of record of more than 10% of the voting interest of the Company, Vertex became a related party under ASC 850. As of July 2, 2019, upon becoming owners of record of less than 10% of the voting interest of the Company, Vertex was no longer a related party under ASC 850. Refer to Note 7, "*Agreements with Vertex Pharmaceuticals Incorporated and certain of its subsidiaries.*"

#### Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with (i) our unaudited condensed consolidated financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q and (ii) our audited consolidated financial statements and related notes and management's discussion and analysis of financial condition and results of operations included in our Annual Report on Form 10-K for the year ended December 31, 2019 filed with the Securities and Exchange Commission, or the SEC, on February 12, 2020. Some of the information contained in this discussion and analysis or set forth elsewhere in this Quarterly Report on Form 10-Q, including information with respect to our plans and strategy for our business and impact and potential impacts on our business, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including, without limitation, those factors set forth in the "Risk Factors" section of our Annual Report on Form 10-K for the year ended December 31, 2019 and the "Risk Factors" section of subsequent Quarterly Reports on Form 10-Q, our actual results or timing of certain events could differ materially from the results or timing described in, or implied by, these forward-looking statements.

#### Special Note About Coronavirus (COVID-19)

Since March 2020, we have been evaluating the actual and potential business impacts related to the outbreak of a novel strain of virus named SARS-CoV-2 (severe acute respiratory syndrome 2), or coronavirus, which causes coronavirus disease, or COVID-19. As a result of the coronavirus pandemic, we have experienced, and may further experience, disruptions, pauses and/or delays that have and could further adversely impact our business operations, and/or associates timelines. As we continue to reopen our offices to additional staff in accordance with state and local regulations, we maintain temporary work-from-home procedures for all employees other than for those personnel and contractors who perform essential activities that must be completed on-site. If negative developments relating to the coronavirus pandemic, including a so-called "resurgence" or additional "waves" were to occur, we may be required to restrict on-site staff at our offices and laboratories; with respect to our hemoglobinopathies clinical trials, we may elect to pause patient dosing in certain of our trials again if ICU beds and related healthcare resources become significantly constrained again or governmental authorities impose additional business or travel restrictions; with respect to our immuno-oncology clinical trials, investigators participating in our clinical trials may not want to take the risk of exposing cancer patients to COVID-19 since the dosing of patients is conducted within an in-patient setting; and certain aspects of our supply chain could be disrupted if our third party suppliers and manufacturers paused their operations in response to such negative developments. The ultimate impact of the coronavirus pandemic on our business operations remains uncertain and subject to change and will depend on future developments, which cannot be accurately predicted. We will continue to monitor the situation closely. Please refer to our Risk Factors in Part II, Item IA of our Quarterly Report on Form 10-Q filed with the Securities and Exc

#### **Overview**

We are a leading gene editing company focused on the development of CRISPR/Cas9-based therapeutics. CRISPR/Cas9 is a revolutionary gene editing technology that allows for precise, directed changes to genomic DNA. The application of CRISPR/Cas9 for gene editing was co-invented by one of our scientific founders, Dr. Emmanuelle Charpentier, who, along with her collaborators, published work elucidating how CRISPR/Cas9, a naturally occurring viral defense mechanism found in bacteria, can be adapted for use in gene editing. We are applying this technology to potentially treat a broad set of rare and common diseases by disrupting, correcting or regulating the genes related to such diseases. We believe that our scientific expertise, together with our approach, may enable an entirely new class of highly active and potentially curative therapies for patients for whom current biopharmaceutical approaches have had limited success.

We have established a portfolio of therapeutic programs across a broad range of disease areas including hemoglobinopathies, oncology, regenerative medicine and rare diseases.

Our lead product candidate, CTX001, is an investigational, autologous, gene-edited hematopoietic stem cell therapy that is being evaluated for the treatment of transfusion-dependent beta thalassemia, or TDT, and severe sickle cell disease, or SCD. CTX001 is being developed under a co-development and co-commercialization agreement between us and Vertex Pharmaceuticals Incorporated and certain of its subsidiaries, or Vertex.

We and Vertex are investigating CTX001 in a Phase 1/2 open-label clinical trial, CLIMB THAL-111, that is designed to assess the safety and efficacy of a single dose of CTX001 in patients ages 12 to 35 with TDT. In the fourth quarter of 2019, we expanded the TDT patient population for CTX001 to include beta zero/beta zero subtypes. The first two patients in the trial were treated sequentially and, following data from the initial two patients indicating successful dosing and engraftment, the trial opened for broader concurrent enrollment. CTX001 has been granted Regenerative Medicine Advanced Therapy, or RMAT, designation, as well as Fast Track Designation and Rare Pediatric Disease designation by the United States Federal Drug Administration, or FDA, for the treatment of TDT. Additionally, CTX001 for the treatment of TDT has received orphan drug designation, or ODD, by the FDA and European Commission. In the fourth quarter of 2019, we released preliminary clinical data from the first patient treated with CTX001 in the ongoing Phase 1/2 clinical trial in TDT. In June 2020, we released 15 months of follow-up data for this patient and preliminary data for a second patient treated with CTX001 in the ongoing Phase 1/2 clinical trial in TDT.

We and Vertex are also investigating CTX001 in a Phase 1/2 open-label clinical trial, CLIMB SCD-121, that is designed to assess the safety and efficacy of a single dose of CTX001 in patients ages 18 to 35 with severe SCD. Similar to the trial in beta thalassemia, the first two patients in the trial were treated sequentially and, following data from the initial two patients indicating successful dosing and engraftment, the trial opened for broader concurrent enrollment. CTX001 has been granted RMAT Designation, as well as Fast Track Designation and Rare Pediatric Disease designation by the FDA for the treatment of SCD. In addition, CTX001 for the treatment of SCD has received ODD by the FDA and European Commission. Additionally, CTX001 has been granted Priority Medicines (PRIME) designation by the European Medicines Agency for the treatment of SCD. In the fourth quarter of 2019, we released preliminary clinical data from the first patient treated with CTX001 in the ongoing Phase 1/2 clinical trial in severe SCD. In June 2020, we released nine months of follow-up data for this patient.

In addition, we are developing our own portfolio of CAR-T cell product candidates based on our gene-editing technology.

*CTX110.* Our lead candidate, CTX110, is a healthy donor-derived gene-edited allogeneic CAR-T investigative therapy targeting cluster of differentiation 19, or CD19. CTX110 is being investigated in an ongoing Phase 1 single-arm, multi-center, open-label clinical trial, CARBON, that is designed to assess the safety and efficacy of several dose levels of CTX110 for the treatment of relapsed or refractory B-cell malignancies. In October 2020, we released initial top-line data from the ongoing CARBON clinical trial.

*CTX120*. CTX120 is a healthy donor-derived gene-edited allogeneic CAR-T investigative therapy targeting B-cell maturation antigen. CTX120 is being investigated in an ongoing Phase 1 single-arm, multi-center, open-label clinical trial that is designed to assess the safety and efficacy of several dose levels of CTX120 for the treatment of relapsed or refractory multiple myeloma. CTX120 has received ODD by the FDA.

*CTX130*. CTX130 is a healthy donor-derived gene-edited allogeneic CAR-T investigative therapy targeting cluster of differentiation 70, or CD70, an antigen expressed on various solid tumors and hematologic malignancies. CTX130 is being developed for the treatment of both solid tumors, such as renal cell carcinoma, and T-cell and B-cell hematologic malignancies. CTX130 is being investigated in two ongoing independent Phase 1 single-arm, multi-center, open-label clinical trials that are designed to assess the safety and efficacy of several dose levels of CTX130 for the treatment of relapsed or refractory renal cell carcinoma and various types of lymphoma, respectively.

Given the numerous potential therapeutic applications for CRISPR/Cas9, we have partnered strategically to broaden the indications we can pursue and accelerate development of programs by accessing specific technologies and/or disease-area expertise. We maintain three broad strategic partnerships to develop gene editing-based therapeutics in specific disease areas.

*Vertex.* We established our initial collaboration agreement in 2015 with Vertex, which focused on TDT, SCD, cystic fibrosis and select additional indications. In December 2017, we entered into a joint development and commercialization agreement with Vertex to co-develop and co-commercialize CTX001 as part of that collaboration. In June 2019, we expanded our collaboration and entered into a strategic collaboration and license agreement for the development and commercialization dystrophy and myotonic dystrophy type 1.

*ViaCyte.* We entered into the ViaCyte Collaboration Agreement in September 2018 with ViaCyte, Inc., or ViaCyte, to pursue the discovery, development and commercialization of gene-edited allogeneic stem cell therapies for the treatment of diabetes. The combination of ViaCyte's stem cell capabilities and our gene-editing capabilities has the potential to enable a beta-cell replacement product that may deliver durable benefit to patients without the need for immune suppression.

*Bayer*. In the fourth quarter of 2019, we entered into a series of transactions, or the Bayer Transaction, pursuant to which we and Bayer terminated our 2015 agreement, which created the joint venture, Casebia Therapeutics Limited Liability Partnership, or Casebia, to discover, develop and commercialize CRISPR/Cas9 gene-editing therapeutics to treat the genetic causes of bleeding disorders, autoimmune disease, blindness, hearing loss and heart disease. In connection thereto, Casebia became a wholly-owned subsidiary of ours. We and Bayer also entered into a new option agreement pursuant to which Bayer has an option to co-develop and co-commercialize two products for the diagnosis, treatment or prevention of certain autoimmune disorders, eye disorders, or hemophilia A disorders for a specified period of time, or, under certain circumstances, exclusively license such optioned products.

Refer to Note 7 of the notes to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2019 for a description of the key terms of our arrangement with ViaCyte. Refer to Note 7 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for a description of the key terms of our arrangements with Vertex and Bayer.

Since our inception in October 2013, we have devoted substantially all of our resources to our research and development efforts, identifying potential product candidates, undertaking drug discovery and preclinical development activities, building and protecting our intellectual property estate, organizing and staffing our company, business planning, raising capital and providing general and administrative support for these operations. To date, we have primarily financed our operations through private placements of our preferred shares, common share issuances, convertible loans and collaboration agreements with strategic partners.

All of our revenue to date has been collaboration revenue. We were profitable for the year ended December 31, 2019 due to collaboration revenue from Vertex and Casebia, but we do not expect to sustain our profitability in future years. With the exception of the year ended December 31, 2019, we have incurred significant net operating losses each year since our inception and expect to continue to incur net operating losses for the foreseeable future. As of September 30, 2020, we had \$1.4 billion in cash, cash equivalents and marketable securities and an accumulated deficit of \$466.5 million. We expect to continue to incur significant expenses and increasing operating losses for the next several years. Our net losses may fluctuate significantly from quarter to quarter and year to year. We anticipate that our expenses will increase significantly as we continue our current research programs and development activities; seek to identify additional research programs and additional product candidates; conduct initial drug application supporting preclinical studies and initiate clinical trials for our product candidates; initiate preclinical testing and clinical trials for any other product candidates we identify and develop; maintain, expand and protect our intellectual property estate; further develop our gene editing platform; hire additional research, clinical and scientific personnel; incur facilities costs associated with such personnel growth; develop manufacturing infrastructure; and incur additional costs associated with operating as a public company.

# **Financial Overview**

#### Revenue

We have not generated any revenue to date from product sales and do not expect to do so in the near future. Revenue recognized for the nine months ended September 30, 2020 was \$0.3 million, compared to \$212.6 million for the nine months ended September 30, 2019. For additional information about our revenue recognition policy, see Note 2, "Summary of Significant Accounting Policies," in our Annual Report on Form 10-K for the year ended December 31, 2019 filed with the SEC on February 12, 2020, as well as Note 7 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q.

#### Research and Development Expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our product discovery efforts and the development of our product candidates, which include:

- employee-related expenses, including salaries, benefits and equity-based compensation expense;
- costs of services performed by third parties that conduct research and development and preclinical activities on our behalf;
- costs of purchasing lab supplies and non-capital equipment used in our preclinical activities and in manufacturing preclinical study materials;
- consultant fees;
- facility costs, including rent, depreciation and maintenance expenses; and
- fees and other payments related to acquiring and maintaining licenses under our third-party licensing agreements.

Research and development costs are expensed as incurred. Nonrefundable advance payments for research and development goods or services to be received in the future are deferred and capitalized. The capitalized amounts are expensed as the related goods are delivered or the services are performed. At this time, we cannot reasonably estimate or know the nature, timing or estimated costs of the efforts that will be necessary to complete the development of any product candidates we may identify and develop. This is due to the numerous risks and uncertainties associated with developing such product candidates, including the uncertainty of:

- successful completion of preclinical studies and IND-enabling studies;
- successful enrollment in, and completion of, clinical trials;
- receipt of marketing approvals from applicable regulatory authorities;
- establishing commercial manufacturing capabilities or making arrangements with third-party manufacturers;
- obtaining and maintaining patent and trade secret protection and non-patent exclusivity;
- launching commercial sales of the product, if and when approved, whether alone or in collaboration with others;
- acceptance of the product, if and when approved, by patients, the medical community and third-party payors;
- effectively competing with other therapies and treatment options;
- a continued acceptable safety profile following approval;
- enforcing and defending intellectual property and proprietary rights and claims; and
- achieving desirable medicinal properties for the intended indications.

A change in the outcome of any of these variables with respect to the development of any product candidates or the subsequent commercialization of any product candidates we may successfully develop could significantly change the costs, timing and viability associated with the development of that product candidate.

Except for activities we perform in connection with our collaboration with Vertex, as well as certain arrangements we had with Casebia prior to the Bayer Transaction, we do not track research and development costs on a program-by-program basis.

Research and development activities are central to our business model. We expect our research and development costs to increase significantly for the foreseeable future as our current development programs progress, new programs are added and as we continue to prepare regulatory filings. These increases will likely include the costs related to the implementation and expansion of clinical trial sites and related patient enrollment, monitoring, program management and manufacturing expenses for current and future clinical trials. In addition, we expect that our research and development expenses will increase in future periods as we incur additional costs in connection with research and development activities under our collaboration with ViaCyte.

# General and Administrative Expenses

General and administrative expenses consist primarily of employee related expenses, including salaries, benefits and equity-based compensation, for personnel in executive, finance, accounting, business development and human resources functions. Other significant costs include facility costs not otherwise included in research and development expenses, legal fees relating to patent and corporate matters and fees for accounting and consulting services.

We anticipate that our general and administrative expenses will increase in the future to support continued research and development activities, potential commercialization of our product candidates and increased costs of operating as a public company. In addition, we anticipate increased expenses related to the reimbursements of third-party patent related expenses in connection with certain of our in-licensed intellectual property.

## **Results of Operations**

Comparison of three months ended September 30, 2020 and 2019 (in thousands):

	Three Months Ended September 30, 2020 2019					Period to Period Change	
Collaboration revenue	\$	148	\$	2019 211,928	\$	(211,780)	
Operating expenses:							
Research and development		71,008	\$	57,246		13,762	
General and administrative		21,539	\$	15,519		6,020	
Total operating expenses		92,547		72,765		19,782	
Income (loss) from operations		(92,399)		139,163		(231,562)	
Other income (expense), net		160	\$	(466)		626	
Net income (loss) before income taxes		(92,239)		138,697		(230,936)	
Provision for income taxes		(200)	\$	(274)		74	
Net income (loss)	\$	(92,439)	\$	138,423	\$	(230,862)	

#### Collaboration Revenue

Collaboration revenue for the three months ended September 30, 2020 was \$0.1 million, compared to \$211.9 million for the three months ended September 30, 2019. The decrease of approximately \$211.8 million was primarily attributable to revenue recognized in connection with our collaboration with Vertex during the third quarter of 2019. Please refer to Note 7 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for further information.

#### Research and Development Expenses

Research and development expenses were \$71.0 million for the three months ended September 30, 2020, compared to \$57.2 million for the three months ended September 30, 2019. The increase of approximately \$13.8 million was primarily attributable to the following:

- \$6.9 million of increased employee compensation, benefit and other headcount related expenses, of which \$2.8 million is increased stockbased compensation expense, primarily due to an increase in headcount to support overall growth;
- \$7.4 million of increased variable research and development costs; and,
- \$8.8 million of increased facility-related expenses.

The increased costs were offset by \$10.3 million of decreased license fee expenses due to the recognition of non-cash consideration expensed in the third quarter of 2019 related to our collaboration with Vertex.

#### General and Administrative Expenses

General and administrative expenses were \$21.5 million for the three months ended September 30, 2020, compared to \$15.5 million for the three months ended September 30, 2019. The increase of approximately \$6.0 million was primarily attributable to the following:

- \$5.1 million of increased employee compensation, benefit and other headcount related expenses, of which \$3.1 million is increased stockbased compensation expense, primarily due to an increase in headcount to support overall growth; and,
- \$1.4 million of increased facility-related expenses.

#### Other Income, Net

Other income was \$0.2 million for the three months ended September 30, 2020, compared to \$0.5 million of expense for the three months ended September 30, 2019. The change was primarily due to the fact that losses from equity method investments in the third quarter of 2019 were greater than interest income earned on cash, cash equivalents and marketable securities during the same period. There were no losses from equity method investments during the three months ended September 30, 2020, and interest income was minimal given the low interest rate environment.

#### Comparison of nine months ended September 30, 2020 and 2019 (in thousands):

	Nine Months Ended September 30, 2020 2019				Period to Period Change	
Collaboration revenue	\$	349	\$	212,574	\$	(212,225)
Operating expenses:						
Research and development		184,581	\$	130,601		53,980
General and administrative		62,442	\$	46,216		16,226
Total operating expenses		247,023		176,817		70,206
Income (loss) from operations		(246,674)		35,757		(282,431)
Other income (expense), net		5,804		1,003		4,801
Net income (loss) before income taxes		(240,870)		36,760		(277,630)
Provision for income taxes		(956)		(444)		(512)
Net income (loss)	\$	(241,826)	\$	36,316	\$	(278,142)

#### Collaboration Revenue

Collaboration revenue for the nine months ended September 30, 2020 was \$0.3 million, compared to \$212.6 million for the nine months ended September 30, 2019. The decrease of approximately \$212.2 million was primarily attributable to revenue recognized in connection with our collaboration with Vertex during the third quarter of 2019. Please refer to Note 7 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for further information.

#### Research and Development Expenses

Research and development expenses were \$184.6 million for the nine months ended September 30, 2020, compared to \$130.6 million for the nine months ended September 30, 2019. The increase of approximately \$54.0 million was primarily attributable to the following:

- \$22.0 million of increased employee compensation, benefit and other headcount related expenses, of which \$7.4 million is increased stockbased compensation expense, primarily due to an increase in headcount to support overall growth;
- \$19.2 million of increased variable research and development costs; and,
- \$20.5 million of increased facility-related expenses.

The increased costs were partially offset by \$10.0 million of decreased license fee expenses due to the recognition of non-cash consideration expensed in the third quarter of 2019 related to our collaboration with Vertex.

#### General and Administrative Expenses

General and administrative expenses were \$62.4 million for the nine months ended September 30, 2020, compared to \$46.2 million for the nine months ended September 30, 2019. The increase of approximately \$16.2 million was primarily attributable to the following:

- \$11.7 million of increased employee compensation, benefit and other headcount related expenses, of which \$7.5 million is increased stockbased compensation expense, primarily due to an increase in headcount to support overall growth; and,
- \$4.6 million of increased facility-related expenses.

#### Other Income, Net

Other income was \$5.8 million for the nine months ended September 30, 2020, compared to \$1.0 million of income for the nine months ended September 30, 2019. The change was primarily due to interest income earned on cash, cash equivalents and marketable securities for the nine months ended September 30, 2020, and losses from equity method investments, which were present for the nine months ended September 30, 2019 due to the treatment of stock-based compensation for Casebia employees prior to the Bayer Transaction.



#### Liquidity and Capital Resources

As of September 30, 2020, we had cash, cash equivalents and marketable securities of approximately \$1.4 billion, of which approximately \$872.9 million was held outside of the United States.

In August 2019, we entered into a new Open Market Sale Agreement<sup>SM</sup> with Jefferies, or the 2019 ATM, under which we may offer and sell, from time to time, common shares having aggregate gross proceeds of up to \$200.0 million. During the three and nine months ended September 30, 2020, we sold 0.1 million and 1.3 million common shares, respectively, under the 2019 ATM for net cash proceeds of \$9.6 million and \$91.9 million, respectively, after deducting commission fees of \$0.2 million and \$2.4 million, respectively. In addition, we paid approximately \$0.4 million in stamp taxes during the three and nine months ended September 30, 2020, respectively, and accrued an additional \$0.6 million for stamp taxes as of September 30, 2020 related to securities sold under the 2019 ATM.

In July 2020, we sold 7.4 million common shares through an underwritten public offering (inclusive of shares sold pursuant to the exercise of underwriters' option to purchase additional shares) at a public offering price of \$70.00 per share for aggregate net proceeds of \$484.8 million, which were net of equity issuance costs and stamp tax of \$32.5 million of which \$4.9 million was accrued on the condensed consolidated balance sheet as of September 30, 2020.

We have predominantly incurred losses and cumulative negative cash flows from operations since our inception, and as of September 30, 2020, we had an accumulated deficit of \$466.5 million. We anticipate that we will continue to incur losses for at least the next several years. We expect that our research and development and general and administrative expenses will continue to increase and, as a result, we will need additional capital to fund our operations, which we may raise through public or private equity or debt financings, strategic collaborations, or other sources.

#### Funding Requirements

Our primary uses of capital are, and we expect will continue to be, research and development activities, compensation and related expenses, laboratory and related supplies, legal and other regulatory expenses, patent prosecution filing and maintenance costs for our licensed intellectual property and general overhead costs. We expect our expenses to increase compared to prior periods in connection with our ongoing activities, particularly as we continue research and development and preclinical activities and initiate preclinical studies to support initial drug applications. We also anticipate that we will incur significant capital expenditures as we develop our manufacturing infrastructure. In addition, we expect to incur additional costs associated with operating as a public company.

Because our research programs are still in early stages of development and the outcome of these efforts is uncertain, we cannot estimate the actual amounts necessary to successfully complete the development and commercialization of any current or future product candidates, if approved, or whether, or when, we may achieve profitability. Until such time as we can generate substantial product revenues, if ever, we expect to finance our cash needs through a combination of equity, debt financings and payments received in connection with our collaboration agreements. We are entitled to research payments under our collaboration with Vertex. Additionally, we are eligible to earn payments, in each case, on a per-product basis under our collaboration with Vertex. Except for this source of funding, we do not have any committed external source of liquidity. We intend to consider opportunities to raise additional funds through the sale of equity or debt securities when market conditions are favorable to us to do so. However, including as a result of the coronavirus pandemic, the trading prices for our common shares and other biopharmaceutical companies have been highly volatile. As a result, we may face difficulties raising capital through sales of our common shares or such sales may be on unfavorable terms. In addition, a recession, depression or other sustained adverse market event, including resulting from the spread of the coronavirus, could materially and adversely affect our business and the value of our common shares. To the extent that we raise additional capital through the future sale of equity or debt securities, the ownership interests of our shareholders will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of our existing shareholders. If we raise additional funds through collaboration arrangements in the future, we may have to relinquish valuable rights to our technologies, future revenue streams or product candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

#### Outlook

Based on our research and development plans and our timing expectations related to the progress of our programs, we expect our existing cash will enable us to fund our operating expenses and capital expenditures for at least the next 24 months without giving effect to any additional proceeds we may receive under our collaboration with Vertex and any other capital raising transactions we may complete. We have based this estimate on assumptions that may prove to be wrong, and we could use our capital resources sooner than we expect. Given our need for additional financing to support the long-term clinical development of our programs, we intend to consider additional financing opportunities when market terms are favorable to us.

Our ability to generate revenue and achieve profitability depends significantly on our success in many areas, including: developing our delivery technologies and our gene-editing technology platform; selecting appropriate product candidates to develop; completing research and preclinical and clinical development of selected product candidates; obtaining regulatory approvals and marketing authorizations for product candidates for which we complete clinical trials; developing a sustainable and scalable manufacturing process for product candidates; launching and commercializing product candidates for which we obtain regulatory approvals and marketing authorizations, either directly or with a collaborator or distributor; obtaining market acceptance of our product candidates, if approved; addressing any competing technological and market developments; negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter; maintaining good relationships with our collaborators and licensors; maintaining, protecting and expanding our estate of intellectual property rights, including patents, trade secrets and know-how; and attracting, hiring and retaining qualified personnel.

#### **Cash Flows**

The following table provides information regarding our cash flows for each of the periods below (in thousands):

	Nine Months Ended September 30,				Period to Period		
		2020		2019		Change	
Net cash provided by (used in) operating activities	\$	(157,154)	\$	53,301	\$	(210,455)	
Net cash used in investing activities		(336,926)		(5,732)		(331,194)	
Net cash provided by financing activities		603,525		126,265		477,260	
Effect of exchange rate changes on cash		5		(14)		19	
Net increase (decrease) in cash	\$	109,450	\$	173,820	\$	(64,370)	

#### Net Cash Used in Operating Activities

Net cash used in operating activities was \$157.2 million for the nine months ended September 30, 2020, compared to cash provided by operating activities of \$53.3 million for the nine months ended September 30, 2019. Net cash used in operating activities for the nine months ended September 30, 2020 was driven by a net loss of \$241.8 million, offset by non-cash expenses of \$54.7 million, primarily related to stock-based compensation and depreciation, as well as a benefit to net-working capital driven by the receipt of a \$25.0 million milestone payment from Vertex in the second quarter of 2020. Net cash provided by operating activities for the nine months ended September 30, 2019 was primarily due to net income generated from revenue in connection with our collaboration with Vertex during the third quarter of 2019. Please refer to Note 7 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for further information.

#### Net Cash Used in Investing Activities

Net cash used in investing activities for the nine months ended September 30, 2020 was \$336.9 million, compared to \$5.7 million for the nine months ended September 30, 2019. The increase in net cash used in investing activities consisted primarily of purchases of marketable securities.

#### Net Cash Provided by Financing Activities

Net cash provided by financing activities for the nine months ended September 30, 2020 was \$603.5 million, compared with \$126.3 million for the nine months ended September 30, 2019. The net cash provided by financing activities for the nine months ended September 30, 2020 consisted of proceeds from the issuance of 7.4 million common shares through an underwritten public offering in July 2020, which resulted in \$484.8 million of net cash proceeds, after deducting \$32.5 million of which \$4.9 million was accrued on the condensed consolidated balance sheet as of September 30, 2020.Additionally, 1.3 million common shares were issued in connection with our Open Market Sale Agreement<sup>SM</sup>, which resulted in \$91.9 million of net cash proceeds, after deducting \$2.4 million in commissions, excluding \$0.6 million of stamp taxes which were accrued as of September 30, 2020, as well as option exercise proceeds, net of issuance costs.

#### **Contractual Obligations**

The disclosure of our contractual obligations and commitments was reported in our Annual Report on Form 10-K for the year ended December 31, 2019 filed with the SEC on February 12, 2020. There have been no material changes from the contractual commitments and obligations previously disclosed in our Annual Report on Form 10-K except for certain lease commitments described in Note 6 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q.

#### **Off-Balance Sheet Arrangements**

As of September 30, 2020, we did not have any off-balance sheet arrangements as defined under applicable SEC rules.

#### Critical Accounting Policies and Significant Judgments and Estimates

This discussion and analysis of our financial condition and results of operations is based on our financial statements, which we have prepared in accordance with U.S. GAAP. We believe that several accounting policies are important to understanding our historical and future performance. We refer to these policies as critical because these specific areas generally require us to make judgments and estimates about matters that are uncertain at the time we make the estimate, and different estimates—which also would have been reasonable—could have been used. On an ongoing basis, we evaluate our estimates and judgments, including those described in greater detail below. We base our estimates on historical experience and other market-specific or other relevant assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

We believe that our most critical accounting policies are those relating to revenue recognition, variable interest entities and equity-based compensation, and there have been no changes to our accounting policies discussed in our Annual Report on Form 10-K for the year ended December 31, 2019 filed with the SEC on February 12, 2020.

#### **Recent Accounting Pronouncements**

Refer to Note 1 of the notes to our unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for a discussion of recent accounting pronouncements.

#### Item 3. Qualitative and Quantitative Disclosures about Market Risk

#### Interest Rate Sensitivity

We are exposed to market risk related to changes in interest rates. As of September 30, 2020, we had cash, cash equivalents and marketable securities of \$1.4 billion, primarily invested in U.S. treasury securities and government agency securities, corporate bonds, commercial paper and money market accounts invested in U.S. government agency securities. Due to the conservative nature of these instruments, we do not believe that we have a material exposure to interest rate risk. If interest rates were to increase or decrease by 1%, the fair value of our investment portfolio would increase or decrease by an immaterial amount.

#### Foreign Currency Exchange Rate Risk

As a result of our foreign operations, we face exposure to movements in foreign currency exchange rates, primarily the Swiss Franc and British Pound, against the U.S. dollar. The current exposures arise primarily from cash, accounts payable and intercompany receivables and payables. Changes in foreign exchange rates affect our consolidated statement of operations and distort comparisons between periods. To date, foreign currency transaction gains and losses have not been material to our financial statements and we have not engaged in any foreign currency hedging transactions.

#### Item 4. Controls and Procedures.

#### Management's Evaluation of our Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in the reports that we file or submit under the Securities and Exchange Act of 1934 is (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management, including our principal executive officer and principal financial officer, to allow timely decisions regarding required disclosure.



As of September 30, 2020, our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities and Exchange Act of 1934). Our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of September 30, 2020, our disclosure controls and procedures were effective at the reasonable assurance level.

#### Changes in Internal Control over Financial Reporting

During the quarter ended September 30, 2020, there were no changes in our internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15(d)-15(f) promulgated under the Securities Exchange Act of 1934, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

# PART II—OTHER INFORMATION

#### Item 1. Legal Proceedings.

From time to time, we may become involved in litigation or other legal proceedings relating to claims arising from the ordinary course of business. There are currently no claims or actions pending against us that, in the opinion of our management, are likely to have a material adverse effect on our business.

There have been no material developments with respect to the legal proceedings previously disclosed in "Item 3. Legal Proceedings" of our Annual Report on Form 10-K for the fiscal year ended December 31, 2019 filed with the SEC on February 12, 2020.

# Item 5. Other Information.

In reference to the '115 interference as previously disclosed and described in our Annual Report on Form 10-K for the year ended December 31, 2019, in September 2020, the Patent Trial and Appeal Board affirmed its decision to deny the CVC Group benefit to its two earliest provisional patent applications, and, as a result, the CVC Group remains the Junior Party for purposes of determining which entity was the first to invent the inventions at issue.

# Item 6. Exhibits

The exhibits filed as part of this Quarterly Report on Form 10-Q are set forth in the Exhibit Index below.

Exhibit Number	Description of Document
10.1†	Lease, dated July 24, 2020, by and between the Registrant and 105 W First Street Owner, L.L.C. (incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 10-Q filed on July 27, 2020)
31.1*	Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.2*	Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32.1*+	Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS*	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the inline XBRL document.
101.SCH*	Inline XBRL Taxonomy Extension Schema Document
101.CAL*	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104*	Cover Page Interactive Data File (formatted as inline XBRL with applicable taxonomy extension information contained in Exhibits 101.*)
* Filed	herewith.

- + The certification attached as Exhibit 32.1 that accompany this Quarterly Report on Form 10-Q are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of CRISPR Therapeutics AG under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Form 10-Q, irrespective of any general incorporation language contained in such filing.
- + Confidential portions of this exhibit have been omitted.

# 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 thereunto duly authorized.

Dated: October 28, 2020

Dated: October 28, 2020

# **CRISPR** Therapeutics AG

By:	/s/ Samarth Kulkarni
	Samarth Kulkarni
	Chief Executive Officer
	(Principal Executive Officer)

By: /s/ Michael Tomsicek Michael Tomsicek Chief Financial Officer

(Principal Financial Officer)

## CERTIFICATIONS

I, Samarth Kulkarni, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of CRISPR Therapeutics AG;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 28, 2020

By: /s/ Samarth Kulkarni

Samarth Kulkarni Chief Executive Officer (Principal Executive Officer)

## CERTIFICATIONS

I, Michael Tomsicek, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of CRISPR Therapeutics AG;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 28, 2020

By: /s/ Michael Tomsicek

Michael Tomsicek Chief Financial Officer (Principal Financial and Accounting Officer)

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of CRISPR Therapeutics AG (the "Company") for the period ended September 30, 2020 as filed with the Securities and Exchange Commission on or about the date hereof (the "Report"), the undersigned officers of the Company hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his or her knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of, and for, the periods presented in the Report.

/s/ Samarth Kulkarni Samarth Kulkarni Chief Executive Officer (Principal Executive Officer)

October 28, 2020

/s/ Michael Tomsicek

Michael Tomsicek Chief Financial Officer (Principal Financial and Accounting Officer)

October 28, 2020