
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.

For the quarterly period ended June 30, 2013.

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

001-35342

NEWLINK GENETICS CORPORATION

(Exact name of Registrant as specified in Its Charter)

Delaware

(State or other jurisdiction of incorporation or organization)

42-1491350

(I.R.S. Employer Identification No.)

2503 South Loop Drive

Ames, Iowa 50010

(515) 296-5555

(Address, including zip code, and telephone number, including area code, of principal executive offices)

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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

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

As of August 5, 2013, there were 25,701,354 shares of the registrant's Common Stock, par value \$0.01 per share, outstanding.



NewLink Genetics Corporation

FORM 10-Q

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PART I**NewLink Genetics Corporation
(A Development Stage Enterprise)****Condensed Consolidated Balance Sheets
(unaudited)
(In thousands, except share and per share data)**

| | <u>June 30, 2013</u> | <u>December 31, 2012</u> |
|--|----------------------|--------------------------|
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 59,039 | \$ 20,250 |
| Certificates of deposit | 249 | 1,494 |
| Prepaid expenses | 535 | 907 |
| State research and development credit receivable | 436 | 542 |
| Other receivables | 812 | 196 |
| Total current assets | <u>61,071</u> | <u>23,389</u> |
| Leasehold improvements and equipment: | | |
| Leasehold improvements | 5,249 | 5,085 |
| Computer equipment | 668 | 636 |
| Lab equipment | 3,428 | 3,297 |
| Total leasehold improvements and equipment | <u>9,345</u> | <u>9,018</u> |
| Less accumulated depreciation and amortization | <u>(3,403)</u> | <u>(2,978)</u> |
| Leasehold improvements and equipment, net | <u>5,942</u> | <u>6,040</u> |
| Total assets | <u>\$ 67,013</u> | <u>\$ 29,429</u> |

See accompanying notes to condensed consolidated financial statements.

NewLink Genetics Corporation
(A Development Stage Enterprise)

Condensed Consolidated Balance Sheets
(unaudited)
(In thousands, except share and per share data)

| | <u>June 30, 2013</u> | <u>December 31, 2012</u> |
|---|----------------------|--------------------------|
| Liabilities and Equity | | |
| Current liabilities: | | |
| Accounts payable | \$ 1,076 | \$ 972 |
| Accrued expenses | 2,817 | 1,659 |
| Deferred rent | 84 | 84 |
| Obligations under capital lease and current portion of notes payable | 186 | 204 |
| Total current liabilities | <u>4,163</u> | <u>2,919</u> |
| Long term liabilities: | | |
| Royalty obligation payable to Iowa Economic Development Authority | 6,000 | 6,000 |
| Notes payable and obligations under capital leases | 1,129 | 1,178 |
| Deferred rent, excluding current portion | 1,363 | 1,405 |
| Total long-term liabilities | <u>8,492</u> | <u>8,583</u> |
| Total liabilities | <u>12,655</u> | <u>11,502</u> |
| Commitments and contingencies | | |
| Equity: | | |
| Blank check preferred stock, \$0.01 par value: Authorized shares — 5,000,000 at June 30, 2013 and December 31, 2012; issued and outstanding shares — 0 at June 30, 2013 and December 31, 2012 | — | — |
| Common stock, \$0.01 par value: Authorized shares — 75,000,000 at June 30, 2013 and 38,833,334 at December 31, 2012; issued and outstanding shares — 25,700,286 at June 30, 2013, and 20,985,192 at December 31, 2012 | 257 | 210 |
| Additional paid-in capital | 173,909 | 122,514 |
| Deficit accumulated during the development stage | <u>(119,808)</u> | <u>(104,797)</u> |
| Total equity | <u>54,358</u> | <u>17,927</u> |
| Total liabilities and equity | <u>\$ 67,013</u> | <u>\$ 29,429</u> |

See accompanying notes to condensed consolidated financial statements.

NewLink Genetics Corporation
(A Development Stage Enterprise)

Condensed Consolidated Statements of Operations
(unaudited)
(In thousands, except share and per share data)

| | Three Months Ended June 30, | | Six Months Ended June 30, | | Cumulative from June 4, 1999 (inception) through June 30, |
|---|--------------------------------|------------|------------------------------|------------|--|
| | 2013 | 2012 | 2013 | 2012 | 2013 |
| Grant revenue | \$ 232 | \$ 590 | 534 | 1,061 | \$ 7,938 |
| Operating expenses: | | | | | |
| Research and development | 5,037 | 4,740 | 11,380 | 8,570 | 89,536 |
| General and administrative | 2,264 | 2,151 | 4,265 | 3,609 | 41,208 |
| Total operating expenses | 7,301 | 6,891 | 15,645 | 12,179 | 130,744 |
| Loss from operations | (7,069) | (6,301) | (15,111) | (11,118) | (122,806) |
| Other income and expense: | | | | | |
| Miscellaneous income (expense) | — | — | 114 | (21) | 434 |
| Forgiveness of debt | — | — | — | — | 449 |
| Interest income | 2 | 4 | 4 | 8 | 1,771 |
| Interest expense | (10) | (12) | (18) | (20) | (199) |
| Other income (expense), net | (8) | (8) | 100 | (33) | 2,455 |
| Net loss | (7,077) | (6,309) | (15,011) | (11,151) | (120,351) |
| Less net loss attributable to noncontrolling interest | — | — | — | — | 583 |
| Net loss attributable to NewLink | \$ (7,077) | \$ (6,309) | (15,011) | (11,151) | \$ (119,768) |
| Net loss per common share, basic and diluted | \$ (0.28) | \$ (0.31) | \$ (0.61) | \$ (0.54) | |
| Weighted-average common shares outstanding, basic and diluted | 25,620,566 | 20,684,944 | 24,745,380 | 20,649,045 | |

See accompanying notes to condensed consolidated financial statements.

NewLink Genetics Corporation
(A Development Stage Enterprise)
Condensed Consolidated Statements of Equity (Deficit)
(unaudited)
(In thousands, except share and per share data)

| | Common Stock | | | Deficit Accumulated During the Development Stage | Total Equity (Deficit) |
|--|--|-----------------|----------------------------------|--|------------------------------|
| | Number of Common Shares Outstanding | Common Stock | Additional Paid-in Capital | | |
| Balance at December 31, 2012 | 20,985,192 | \$ 210 | \$ 122,514 | \$ (104,797) | \$ 17,927 |
| Stock compensation | — | — | 2,027 | — | 2,027 |
| Exercise of stock options | 86,867 | 1 | 322 | — | 323 |
| Sale of shares under stock purchase plan | 28,227 | — | 176 | — | 176 |
| Issuance of 4,600,000 shares of common stock (net of offering costs of \$3,524) (February 4, 2013) | 4,600,000 | 46 | 48,870 | — | 48,916 |
| Net loss | — | — | — | (15,011) | (15,011) |
| Balance at June 30, 2013 | <u>25,700,286</u> | <u>\$ 257</u> | <u>\$ 173,909</u> | <u>\$ (119,808)</u> | <u>\$ 54,358</u> |

See accompanying notes to condensed consolidated financial statements.

NewLink Genetics Corporation
(A Development Stage Enterprise)
Condensed Consolidated Statements of Cash Flows
(unaudited)
(In thousands, except share and per share data)

| | Six Months Ended June 30, | | Cumulative from June 4, 1999 (inception) through June 30, |
|--|------------------------------|------------------|---|
| | 2013 | 2012 | 2013 |
| Cash Flows From Development Activities | | | |
| Net loss | \$ (15,011) | \$ (11,151) | \$ (120,351) |
| Adjustments to reconcile net loss to net cash used in development activities: | | | |
| Share-based compensation | 2,027 | 1,905 | 10,571 |
| Depreciation and amortization | 425 | 372 | 4,174 |
| Loss on sale of fixed assets | — | 20 | 38 |
| In-process research and development expenses | — | — | 1,629 |
| Forgiveness of debt | — | — | (449) |
| Forgiveness of notes receivable from related parties | — | — | 350 |
| Changes in operating assets and liabilities: | | | |
| Prepaid expenses | 372 | 155 | (535) |
| State research and development credit receivable | 107 | (130) | (435) |
| Other receivables | (617) | (1,015) | (813) |
| Accounts payable | 104 | (1,095) | (156) |
| Accrued expenses and deferred rent | 1,116 | 490 | 4,264 |
| Net cash used in development activities | <u>(11,477)</u> | <u>(10,449)</u> | <u>(101,713)</u> |
| Cash Flows From Investing Activities | | | |
| Purchase of certificates of deposit | — | — | (13,282) |
| Sale of certificates of deposit | 1,245 | 1,743 | 13,033 |
| Notes receivable from related parties | — | — | (350) |
| Purchase of equipment | (274) | (1,114) | (8,366) |
| Proceeds on sale of equipment | — | 50 | 50 |
| Cash paid for OncoRx | — | — | (120) |
| Net cash provided by (used in) investing activities | <u>971</u> | <u>679</u> | <u>(9,035)</u> |
| Cash Flows From Financing Activities | | | |
| Cash received from noncontrolling interest investment | — | — | 3,479 |
| Issuance of common stock, net of offering costs | 49,416 | 709 | 91,861 |
| Repurchase of common stock | — | (4) | (505) |
| Proceeds from preferred stock | — | — | 67,743 |
| Proceeds from notes payable | — | — | 8,215 |
| Principal payments on debt | (74) | (47) | (550) |
| Payments under capital lease obligations | (47) | (51) | (456) |
| Net cash provided by financing activities | <u>49,295</u> | <u>607</u> | <u>169,787</u> |
| Net increase (decrease) in cash and cash equivalents | <u>38,789</u> | <u>(9,163)</u> | <u>59,039</u> |
| Cash and cash equivalents at beginning of period | 20,250 | 39,490 | — |
| Cash and cash equivalents at end of period | <u>\$ 59,039</u> | <u>\$ 30,327</u> | <u>\$ 59,039</u> |
| Supplemental disclosure of cash flows information: | | | |
| Cash paid for interest | \$ 18 | \$ 20 | \$ 150 |
| Noncash financing and investing activities: | | | |
| Accretion on redeemable preferred stock | — | — | 113 |
| Purchased leasehold improvements and equipment in accounts payable | 71 | 22 | 9 |
| Common stock issued to shareholders of OncoRx as part of acquisition | — | — | 1,654 |
| Issuance of common stock dividend to Series AA preferred shareholders | — | — | 6 |
| Assets acquired under capital lease | — | — | 596 |
| Reduction of IPO offering costs | — | — | 158 |

See accompanying notes to condensed consolidated financial statements.

NewLink Genetics Corporation and Subsidiary
(A Development Stage Enterprise)
Notes to Condensed Consolidated Financial Statements
(unaudited)

1. Description of Business and Development Stage Activities

NewLink Genetics Corporation ("NewLink") is a biopharmaceutical company focused on discovering, developing and commercializing novel immunotherapeutic products to improve treatment options for patients with cancer. NewLink was incorporated as a Delaware corporation on June 4, 1999 and initiated operations in April of 2000. In 2005, NewLink created a wholly-owned subsidiary, BioProtection Systems Corporation (BPS). NewLink and BPS (together referred to herein as the "Company") are development stage enterprises that devote substantially all of their efforts toward research and development.

NewLink's portfolio includes biologic and small molecule immunotherapy product candidates intended to treat a wide range of oncology indications. NewLink's product candidates are designed to harness multiple components of the immune system to combat cancer without significant incremental toxicity, either as a monotherapy or in combination with other treatment regimens.

The Company has never earned revenue from sales of its drugs under development. The Company incurred net losses of \$7.1 million and \$15.0 million for the three and six months ended June 30, 2013, and from June 4, 1999 (inception) through June 30, 2013 has generated a cumulative deficit of \$119.8 million. On November 16, 2011, the Company completed its initial public offering (IPO) of common stock raising \$37.6 million in net proceeds. On February 4, 2013, the Company completed a follow-on offering of its common stock raising \$48.9 million in net proceeds.

The accompanying financial statements as of June 30, 2013 and for the three and six months then ended have been prepared assuming the Company will continue as a going concern. Our cash and cash equivalents are expected to be adequate to satisfy the Company's liquidity requirements through December 31, 2014, although not through commercialization and launch of revenue producing products. There is no assurance that, if required, the Company will be able to raise additional capital or reduce discretionary spending to provide the required liquidity.

2. Basis of Presentation

The interim financial statements have been prepared and presented by the Company in accordance with U.S. generally accepted accounting principles (U.S. GAAP) and the rules and regulations of the U.S. Securities and Exchange Commission (SEC), without audit, and, in management's opinion, reflect all adjustments necessary to present fairly the Company's interim financial information.

Certain information and footnote disclosures normally included in the Company's annual financial statements prepared in accordance with U.S. GAAP have been condensed or omitted. The accompanying unaudited condensed financial statements should be read in conjunction with the audited financial statements for the year ended December 31, 2012, included in the Company's Annual Report on Form 10-K. There were no significant changes in the Company's accounting policies since the end of fiscal 2012. The financial results for any interim period are not necessarily indicative of financial results for the full year.

3. Significant Accounting Policies

(a) Use of Estimates

The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(b) Principles of Consolidation

The consolidated financial statements include the financial statements of NewLink and BPS. All significant intercompany balances and transactions have been eliminated in consolidation.

(c) Financial Instruments and Concentrations of Credit Risk

The fair values of cash and cash equivalents, certificates of deposit, receivables, accounts payable, and accrued liabilities, which are recorded at cost, approximate fair value based on the short-term nature of these financial instruments. The fair value and carrying value of notes payable and capital lease obligations was \$1.3 million and \$1.4 million as of June 30, 2013 and

NewLink Genetics Corporation and Subsidiary
(A Development Stage Enterprise)
Notes to Condensed Consolidated Financial Statements
(unaudited)

December 31, 2012, respectively, and was determined using Level 3 inputs. The Company is unable to estimate the fair value of the royalty obligation because the timing of payments is uncertain. Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents, and certificates of deposit. Cash and cash equivalents are held by financial institutions and are federally insured up to certain limits. At times, the Company's cash and cash equivalents balance exceeds the federally insured limits. To limit the credit risk, the Company invests its excess cash primarily in high quality cash equivalents such as money market funds or certificates of deposit.

(d) Corporate Actions During the Quarter Ended June 30, 2013

On May 9, 2013, the stockholders of the Company approved the following actions:

- An increase in the authorized number of shares of common stock from 38,833,334 shares to 75,000,000 shares;
- An increase in the shares reserved under the 2010 Non-Employee Directors' Stock Award Plan of 161,905 shares from 238,095 shares to 400,000 shares of common stock; and
- An increase in the shares reserved under the 2010 Employee Stock Purchase Plan of 185,715 shares from 214,285 shares to 400,000 shares of common stock.

4. Common Stock Equity Incentive Plan

In April 2000, the stockholders approved the Company's 2000 Equity Incentive Plan (the "2000 Plan"), and in July 2009, the stockholders approved the Company's 2009 Equity Incentive Plan (the "2009 Plan"). Following the approval of the 2009 Plan, all options outstanding under the 2000 Plan are effectively included under the 2009 Plan. Under the provisions of the 2009 Plan, the Company may grant the following types of common stock awards:

- Incentive Stock Options
- Nonstatutory Stock Options
- Restricted Stock Awards
- Stock Appreciation Rights

Awards under the 2009 Plan, as amended, may be made to officers, employees, members of the Board of Directors, advisors, and consultants to the Company. On January 1, 2013 an additional 838,375 shares of common stock were added to the shares reserved for future issuance under the Company's 2009 Equity Incentive Plan. The shares added to the reserve on January 1, 2013 were increased pursuant to an "evergreen provision" on January 1 of each year, from 2012 to (and including) 2019, in an amount equal to 4% of the total number of shares of Common Stock outstanding on December 31 of the preceding calendar year. As of June 30, 2013, there were 5,733,514 shares of common stock authorized for the 2009 plan and 702,409 shares remained available for issuance.

Under the terms of the Company's 2010 Non-Employee Directors' Stock Option Plan, or Directors' Plan, which became effective on November 10, 2011, 238,095 shares of common stock were reserved for future issuance. On May 9, 2013 an additional 161,905 shares of common stock were added to the shares reserved for future issuance under the Directors' Plan. As of June 30, 2013, 266,202 shares remained available for issuance under the plan.

Under the terms of the Company's 2010 Employee Stock Purchase Plan, or 2010 Purchase Plan, which became effective on November 10, 2011, 214,285 shares of common stock were reserved for future issuance. On May 9, 2013 an additional 185,715 shares of common stock were added to the shares reserved for future issuance under the 2010 Purchase Plan. As of June 30, 2013, 332,250 shares remained available for issuance under the plan.

Stock Options

Share-based employee compensation expense for the three and six months ended June 30, 2013, the three and six months ended June 30, 2012, and from inception through June 30, 2013 was \$1.1 million, \$2.0 million, \$1.2 million, \$1.9 million, and \$10.6 million, respectively, and is allocated between research and development and general and administrative expenses within the consolidated statements of operations, giving rise to a related tax benefit of \$0 for all periods. As of June 30, 2013, the total compensation cost related to nonvested option awards not yet recognized was \$8.6 million and the weighted average period over which it is expected to be recognized is 2.9 years.

NewLink Genetics Corporation and Subsidiary
(A Development Stage Enterprise)
Notes to Condensed Consolidated Financial Statements
(unaudited)

The following table summarizes the stock option activity for the six months ended June 30, 2013:

| | Number of options | Weighted average exercise price | Weighted average remaining contractual term (years) |
|--------------------------------------|----------------------|--|---|
| Outstanding at beginning of period | 3,752,413 | \$ 4.34 | |
| Options granted | 815,250 | 12.25 | |
| Options exercised | (86,867) | 3.71 | |
| Options forfeited | (4,619) | 11.46 | |
| Options expired | — | — | |
| Outstanding at end of period | <u>4,476,177</u> | <u>\$ 5.78</u> | 7.3 |
| Options exercisable at end of period | 2,859,887 | \$ 3.62 | 6.4 |

Based on the June 28, 2013 closing price of \$19.72 per share, the intrinsic value of stock options outstanding as of June 30, 2013, was \$62.4 million, of which \$46.1 million and \$16.3 million related to stock options that were vested and unvested, respectively, at that date.

The following table summarizes options that were granted during the six months ended June 30, 2013, and the range of assumptions used to estimate the fair value of those stock options using a Black-Scholes valuation model:

| | |
|--|-------------|
| Risk-free interest rate | 1.12%-1.36% |
| Expected dividend yield | — |
| Expected volatility | 65.3%-67.3% |
| Expected term (in years) | 6.8-7.0 |
| Weighted average grant-date fair value per share | \$7.31 |

The intrinsic value of options exercised during the six months ended June 30, 2013 was \$1.2 million. The fair value of awards vested during the six months ended June 30, 2013 was \$1.5 million.

5. Income Taxes

The company incurred no income tax expense for the six months ended June 30, 2013 and 2012 or since inception. Income tax expense differs from the amount that would be expected after applying the statutory U.S. federal income tax rate primarily due to changes in the valuation allowance for deferred taxes.

The valuation allowance for deferred tax assets as of June 30, 2013 and December 31, 2012 was \$27.3 million and \$23.1 million, respectively. The net change in the total valuation allowance for the six months ended June 30, 2013 and 2012 was an increase of \$4.2 million and \$2.3 million, respectively. In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management considers the scheduled reversal of deferred tax liabilities, projected taxable income, and tax planning strategies in making this assessment. Valuation allowances have been established for the entire amount of the net deferred tax assets as of June 30, 2013 and December 31, 2012, due to the uncertainty of future recoverability.

Based on a preliminary analysis, we believe that, from its inception through December 31, 2011, NewLink experienced Section 382 ownership changes in September 2001 and March 2003 and our subsidiary experienced Section 382 ownership changes in January 2006 and January 2011. These ownership changes limit NewLink's ability to utilize federal net operating loss carryforwards (and certain other tax attributes) that accrued prior to the respective ownership changes of NewLink and our

NewLink Genetics Corporation and Subsidiary
(A Development Stage Enterprise)
Notes to Condensed Consolidated Financial Statements
(unaudited)

subsidiary. Additional ownership changes may occur in the future as a result of events over which the Company will have little or no control, including purchases and sales of the Company's equity by our 5% stockholders, the emergence of new 5% stockholders, additional equity offerings or redemptions of the Company's stock or certain changes in the ownership of any of the Company's 5% stockholders.

6. Net Loss per Common Share

Basic net loss per share is calculated by dividing the net loss attributable to common stockholders by the weighted average number of common shares outstanding for the period, without consideration of common stock equivalents. Diluted net loss per share is computed by dividing the net loss attributable to common stockholders by the weighted average number of common share equivalents outstanding for the period determined using the treasury-stock method. For purposes of this calculation, preferred stock, stock options and warrants are considered to be common stock equivalents and are only included in the calculation of diluted net loss per share when their effect is dilutive.

The following table presents the computation of basic and diluted net loss per common share (in thousands, except share and per share data):

| | Six Months Ended June 30, | |
|--|------------------------------|-------------|
| | 2013 | 2012 |
| Historical net loss per share | | |
| Numerator | | |
| Net loss attributable to common stockholders | \$ (15,011) | \$ (11,151) |
| Denominator | | |
| Weighted-average common shares outstanding (basic and diluted) | 24,745,380 | 20,649,045 |
| Basic and diluted net loss per share | \$ (0.61) | \$ (0.54) |

As of June 30, 2013 and 2012 respectively, 4.5 million and 3.8 million common equivalent shares of potentially dilutive securities were not included in the calculation of diluted net loss per common share because to do so would be anti-dilutive.

7. Commitments and Contingencies

On May 30, 2013, we entered into a Standard Design-Build Agreement, or the Story Agreement, with Story Construction Co. to provide temporary remodeling services with respect to approximately 11,800 square feet of existing manufacturing and quality control space at our headquarters in Ames, Iowa. Our obligations under the Story Agreement constitute a purchase obligation of approximately \$1.0 million. The full amount is due upon substantial completion of the work, which the Story Agreement contemplates to be less than one year following the date of the Story Agreement. The Story Agreement does not affect our contractual lease obligations or other contractual obligations.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, Section 21E of the Securities Exchange Act of 1934, as amended, and the Private Securities Litigation Reform Act of 1995, and such statements are subject to the "safe harbor" created by those sections. Forward-looking statements are based on our management's beliefs and assumptions and on information available to our management as of the date hereof. In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "could," "would," "expect," "plans," "anticipates," "believes," "estimates," "projects," "predicts," "potential" and similar expressions intended to identify forward-looking statements. Examples of these statements include, but are not limited to, statements regarding: our plans to develop and commercialize our product candidates; our ongoing and planned preclinical studies and clinical trials, including the timing for completion of enrollment and outcome of our Phase 3 clinical trial for our algenpantucel-L cancer immunotherapy; the timing of release of data from ongoing clinical studies; the timing of and our ability to obtain and maintain regulatory approvals for our product candidates; the clinical utility of our products; our plans to leverage our existing technologies to discover and develop additional product candidates; our ability to quickly and efficiently identify and develop product candidates; our commercialization, marketing and manufacturing capabilities and strategy; our intellectual property position; the potential benefits of strategic collaboration agreements and our ability to enter into strategic arrangements; our estimates regarding expenses, future revenues, capital requirements and needs for additional financing; and other risks and uncertainties, including those described in Part II, Item 1A, "Risk Factors" of this Quarterly Report and in our other periodic reports filed from time to time with the Securities and Exchange Commission, or SEC, including our Annual Report on Form 10-K for the year ended December 31, 2012. Our actual results could differ materially from those discussed in our forward-looking statements for many reasons, including those risks. You should not place undue reliance on these forward-looking statements, which apply only as of the date of this Quarterly Report on Form 10-Q. You should read this Quarterly Report on Form 10-Q completely. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future.

The following discussion and analysis should be read in conjunction with the unaudited financial statements and notes thereto included in Part I, Item 1 of this Quarterly Report on Form 10-Q.

Overview

We are a biopharmaceutical company focused on discovering, developing and commercializing novel immunotherapeutic products to improve treatment options for patients with cancer. Our portfolio includes biologic and small-molecule immunotherapy product candidates intended to treat a wide range of oncology indications. Our lead product candidate, HyperAcute Pancreas cancer immunotherapy (algenpantucel-L), or HyperAcute Pancreas, is being studied in two Phase 3 clinical trials; one in surgically-resected pancreatic cancer patients that is being performed under a Special Protocol Assessment, or SPA, with the United States Food and Drug Administration, or FDA, and one in locally advanced pancreatic cancer patients. We initiated these trials based on encouraging Phase 2 data that suggest improvement in both disease-free and overall survival. We have also received Fast Track and Orphan Drug designations from the FDA for this product candidate for the adjuvant treatment of surgically-resected pancreatic cancer and Orphan Medicinal Product designation for this product candidate from the European Commission. The primary endpoint for our IMPRESS (Immunotherapy for Pancreatic Resectable cancer Survival Study) Phase 3 trial with algenpantucel-L for patients with surgically-resected pancreatic cancer is overall survival and, as determined by the SPA, the first interim analysis will be conducted when 222 deaths are reported for the study. This triggering event for the first interim analysis has not yet occurred. We have three additional product candidates in clinical development, including our HyperAcute Lung cancer immunotherapy (tergenpumatulcel-L), or HyperAcute Lung, our HyperAcute Melanoma cancer immunotherapy, or HyperAcute Melanoma and indoximod, our IDO pathway inhibitor. To date, our HyperAcute product candidates have been dosed in more than 500 cancer patients, either as a monotherapy or in combination with other therapies, and have demonstrated a favorable safety profile.

Our HyperAcute product candidates are based on our proprietary HyperAcute immunotherapy technology, which is designed to stimulate the human immune system. Our HyperAcute product candidates use allogeneic (non-patient specific) cells from previously established cell lines rather than cells derived from the patient. We believe our approach enables a simpler, more consistent and scalable manufacturing process than therapies based on patient specific tissues or cells. Our product candidates are designed to harness multiple components of the innate immune system to combat cancer, either as a monotherapy or in combination with current treatment regimens without incremental toxicity. We are also conducting small-molecule based research and development with an aim to produce new drugs capable of breaking the immune system's tolerance to cancer through inhibition of the indoleamine-(2,3)-dioxygenase, or IDO, pathway. We are currently studying our

lead IDO pathway inhibitor product candidate, indoximod or 1-methyl-D-tryptophan (D-1MT), in multiple Phase 2 studies in breast cancer and prostate cancer. We believe that our immunotherapeutic technologies will enable us to discover, develop and commercialize multiple product candidates that can be used either alone or in combination to enhance or potentially replace current therapies to treat cancer with underserved patient populations and significant market potential.

BioProtection Systems Corporation, or BPS, was founded by us as a subsidiary in 2005 to research, develop and commercialize vaccines to control the spread of emerging lethal viruses and infectious diseases, improve the efficacy of existing vaccines and provide rapid-response prophylactic and therapeutic treatment for pathogens most likely to enter the human population through pandemics or acts of bioterrorism. BPS is based on three core technologies, each of which can be leveraged into the infectious disease or biodefense fields. The first is our HyperAcute immunotherapy technology, which is currently focused on enhancing vaccines for influenza. The second technology is based on a yellow fever virus. The third technology is a replication competent recombinant Vesicular Stomatitis Vaccine, or rVSV, an advanced vaccine technology developed for the Marburg and Ebola viruses.

We are a development stage company and have incurred significant losses since our inception. As of June 30, 2013, we had an accumulated deficit of \$119.8 million. We incurred net losses of \$7.1 million, \$15.0 million, \$6.3 million, \$11.2 million, and \$119.8 million, for the three and six months ended June 30, 2013, the three and six months ended June 30, 2012, and since inception, respectively. We expect our losses to increase over the next several years as we advance our products through late-stage clinical trials, pursue regulatory approval of our product candidates, and begin to build our commercialization activities in anticipation of one or more of our products receiving marketing approval.

On October 19, 2011, our board of directors approved a 2.1-for-one reverse split of our common stock which became effective upon filing of a Certificate of Amendment of the Restated Certificate of Incorporation with the Secretary of State of Delaware on October 25, 2011. All share and per share amounts have been retroactively restated in the accompanying financial statements and notes for all periods presented.

Financial Overview

Revenues

From our inception through June 30, 2013, we have not generated any revenue from product sales. We have generated \$7.9 million in grant revenue from our inception through June 30, 2013, which is primarily attributable to research and development being performed by our subsidiary, BPS, under contracts and grants with the Department of Defense, or DOD, and the National Institutes of Health, or NIH.

In the future, we may generate revenue from a variety of sources, including product sales (if we develop products that are approved for sale), license fees, and milestone, research and development and royalty payments in connection with strategic collaborations or licenses of our intellectual property. We expect that any revenue we generate will fluctuate from quarter to quarter as a result of the timing and amount of license fees, research and development reimbursements, milestone and other payments we may receive under potential strategic collaborations, and the amount and timing of payments we may receive upon the sale of any products, if approved, to the extent any are successfully commercialized. We do not expect to generate revenue from product sales for several years, if ever. If we fail to complete the development of our product candidates in a timely manner or to obtain regulatory approval for them, our ability to generate future revenue, and our results of operations and financial position, would be materially adversely affected.

Research and Development Expenses

Research and development expenses consist of expenses incurred in connection with the discovery and development of our product candidates. These expenses consist primarily of:

- employee-related expenses, which include salaries, bonuses, benefits and share-based compensation;
- the cost of acquiring and manufacturing clinical trial materials, including equipment and supplies;
- expenses incurred under agreements with contract research organizations, investigative sites and consultants that conduct our clinical trials and a substantial portion of our preclinical studies;
- facilities, depreciation of fixed assets and other allocated expenses, which include direct and allocated expenses for rent and maintenance of facilities and equipment related to research and development;
- license fees for and milestone payments related to in-licensed products and technology; and
- costs associated with non-clinical activities and regulatory approvals.

We expense research and development expenses as incurred.

Product candidates in late stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size, duration and complexity of later stage clinical trials. We plan to increase our research and development expenses for the foreseeable future as we seek to complete development of our most advanced product candidates, and to further advance our earlier-stage research and development projects. From our inception through June 30, 2013, we have incurred \$89.5 million in research and development expenses. The following tables summarize our research and development expenses for the periods indicated:

Research and Development Expenses by Product
(In thousands)
(unaudited)

| | Three Months Ended June 30, | | Six Months Ended June 30, | | Cumulative from June 4, 1999 (inception) through June 30, |
|---|--------------------------------|----------|------------------------------|----------|---|
| | 2013 | 2012 | 2013 | 2012 | 2013 |
| HyperAcute immunotherapy technology | \$ 3,877 | \$ 3,212 | \$ 7,711 | \$ 5,872 | \$ 62,812 |
| IDO pathway inhibitor technology | 835 | 1,066 | 2,920 | 1,861 | 17,997 |
| Other research and development | 325 | 462 | 749 | 837 | 8,727 |
| Total research and development expenses | \$ 5,037 | \$ 4,740 | \$ 11,380 | \$ 8,570 | \$ 89,536 |

Research and Development Expenses by Category
(In thousands)
(unaudited)

| | Three Months Ended June 30, | | Six Months Ended June 30, | | Cumulative from June 4, 1999 (inception) through June 30, |
|---|--------------------------------|----------|------------------------------|----------|---|
| | 2013 | 2012 | 2013 | 2012 | 2013 |
| Compensation | \$ 2,198 | \$ 2,062 | \$ 4,537 | \$ 3,971 | \$ 42,551 |
| Equipment, supplies and occupancy | 1,259 | 1,307 | 2,588 | 2,352 | 27,120 |
| Outside clinical and other | 1,580 | 1,371 | 4,255 | 2,247 | 19,865 |
| Total research and development expenses | \$ 5,037 | \$ 4,740 | \$ 11,380 | \$ 8,570 | \$ 89,536 |

At this time, we cannot accurately estimate or know the nature, specific timing or costs necessary to complete clinical development activities for our product candidates. We are subject to the numerous risks and uncertainties associated with developing biopharmaceutical products including the uncertain cost and outcome of ongoing and planned clinical trials, the possibility that the FDA or another regulatory authority may require us to conduct clinical or non-clinical testing in addition to trials that we have planned, rapid and significant technological changes, frequent new product and service introductions and enhancements, evolving industry standards in the life sciences industry and our future need for additional capital. In addition, we currently have limited clinical data concerning the safety and efficacy of our product candidates. A change in the outcome of any of these variables with respect to the development of any of our product candidates could result in a significant change in the costs and timing of our research and development expenses.

General and Administrative Expenses

General and administrative expenses consist principally of salaries and related costs for personnel in executive, finance, business development, information technology, legal and human resources functions. Other general and administrative expenses include facility costs not otherwise associated with research and development expenses, intellectual property prosecution and defense costs and professional fees for legal, consulting, auditing and tax services.

We anticipate that our general and administrative expenses will continue to increase over the next several years for, among others, the following reasons:

- as a result of increased payroll, expanded infrastructure and higher consulting, legal, auditing and tax services and investor relations costs, and director and officer insurance premiums associated with being a public company;
- to support our research and development activities, which we expect to expand as we continue to advance the clinical development of our product candidates;
- as a result of beginning to incur expenses related to the planned sales and marketing of one or more of our product candidates, before we receive regulatory approval, in anticipation of commercial launch, if any, of those product candidates.

Interest Income and Interest Expense

Interest income consists of interest earned on our cash and cash equivalents and certificates of deposit. The primary objective of our investment policy is capital preservation. We expect our interest income to increase as we invest the net proceeds from our offerings pending their use in our operations.

Interest expense consists primarily of interest and amortization of deferred financing costs associated with our notes payable and obligations under capital leases.

Tax Loss Carryforwards

The valuation allowance for deferred tax assets as of June 30, 2013 and December 31, 2012 was \$27.3 million and \$23.1 million, respectively. The net change in the total valuation allowance for the three months ended June 30, 2013 and 2012 was an increase of \$4.2 million and \$2.3 million, respectively. In assessing the realizability of deferred tax assets, we consider whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. We consider the scheduled reversal of deferred tax liabilities, projected taxable income, and tax planning strategies in making this assessment. Valuation allowances have been established for the entire amount of the net deferred tax assets as of June 30, 2013 and December 31, 2012, due to the uncertainty of future recoverability.

As of June 30, 2013 and December 31, 2012, we had federal net operating loss carryforwards of \$108.5 million and \$94.5 million and federal research credit carryforwards of \$4.1 million and \$2.9 million, respectively, that expire at various dates from 2019 through 2033. Sections 382 and 383 of the Internal Revenue Code limit a corporation's ability to utilize its net operating loss carryforwards and certain other tax attributes (including research credits) to offset any future taxable income or tax if the corporation experiences a cumulative ownership change of more than 50% over any rolling three year period. State net operating loss carryforwards (and certain other tax attributes) may be similarly limited. An ownership change can therefore result in significantly greater tax liabilities than a corporation would incur in the absence of such a change and any increased liabilities could adversely affect the corporation's business, results of operations, financial condition and cash flow.

Based on a preliminary analysis, we believe that, from its inception through December 31, 2011, we experienced Section 382 ownership changes in September 2001 and March 2003 and our subsidiary experienced Section 382 ownership changes in January 2006 and January 2011. These ownership changes limit our ability to utilize federal net operating loss carryforwards (and certain other tax attributes) that accrued prior to our ownership changes and those of our subsidiary. Additional analysis will be required to determine whether changes in our ownership since December 31, 2011 and/or changes in our ownership that resulted from our follow-on offering have caused or will cause another ownership change to occur. Any such change could result in significant limitations on some or all of our net operating loss carryforwards and other tax attributes. Even if another ownership change has not occurred, additional ownership changes may occur in the future as a result of events over which we will have little or no control, including purchases and sales of our equity by our 5% stockholders, the emergence of new 5% stockholders, additional equity offerings or redemptions of our stock or certain changes in the ownership of any of our 5% stockholders.

Income tax expense was \$0 for the three months ended June 30, 2013 and 2012. Income tax expense differs from the amount that would be expected after applying the statutory United States federal income tax rate primarily due to changes in the valuation allowance for deferred taxes.

Critical Accounting Policies and Significant Judgments and Estimates

We have prepared our financial statements in accordance with United States generally accepted accounting principles. Our preparation of these financial statements requires us to make estimates, assumptions and judgments that affect the reported amounts of assets, liabilities, expenses and related disclosures at the date of the financial statements, as well as revenues and expenses during the reporting periods. We evaluate our estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are 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 could therefore differ materially from these estimates under different assumptions or conditions.

Our Annual Report on Form 10-K for the year ended December 31, 2012, discusses our most critical accounting policies. Since December 31, 2012, there have been no material changes in the critical accounting policies discussed in the 2012 Annual Report.

Results of Operations

Comparison of the Three Months Ended June 30, 2013 and 2012

Revenues. Revenues for the three months ended June 30, 2013 were \$232,000, decreasing from \$590,000 for the same period in 2012. The decrease in revenue of \$358,000 was due to decreased research by BPS under various DOD contracts and the completion of three grants in 2012.

Research and Development Expenses. Research and development expenses for the three months ended June 30, 2013 were \$5.0 million, increasing from \$4.7 million for the same period in 2012. The \$300,000 increase was primarily due to an increase of \$209,000 in clinical trial expense, accompanied by a \$136,000 increase in personnel-related expenses. The increase in clinical trial expense is primarily attributable to higher levels of patient counts enrolled in our clinical trials and the increase in personnel-related expense is attributable to both increases in headcount and compensation levels.

General and Administrative Expenses. General and administrative expenses for the three months ended June 30, 2013 were \$2.3 million, increasing from \$2.2 million for the same period in 2012. The \$100,000 increase was primarily due to an increase in consulting and dues and subscriptions, offset by decreases in recruiting and other expenses.

Interest Income and Expense. Interest expense for the three months ended June 30, 2013 was \$10,000, compared to \$12,000 for the same period in 2012. Interest income for the three months ended June 30, 2013 was \$2,000, compared to \$4,000 for the same period in 2012.

Comparison of the Six Months Ended June 30, 2013 and 2012

Revenues. Revenues for the six months ended June 30, 2013 were \$534,000, decreasing from \$1.1 million for the same period in 2012. The decrease in revenue of \$527,000 was due to decreased research by BPS under various DOD contracts and the completion of three grants in 2012.

Research and Development Expenses. Research and development expenses for the six months ended June 30, 2013 were \$11.4 million, increasing from \$8.6 million for the same period in 2012. The \$2.8 million increase was primarily due to an increase in outside clinical and other expenses, including a \$908,000 increase in contract research and manufacturing, an increase of \$896,000 in clinical trial expense, accompanied by a \$566,000 increase in personnel-related expenses, an increase of \$130,000 in consulting fees and other expenses and an increase in \$66,000 in maintenance and repair and other expenses. The increase in contract research and manufacturing relates primarily to small-molecule based research and development. The increase in clinical trial expense is primarily attributable to higher levels of patient counts enrolled in our clinical trials and the increase in personnel-related expense is attributable to both increases in headcount and compensation levels.

General and Administrative Expenses. General and administrative expenses for the six months ended June 30, 2013 were \$4.3 million, increasing from \$3.6 million for the same period in 2012. The \$700,000 increase was primarily due to a \$265,000 increase in personnel-related expenses, accompanied by a \$346,000 increase in professional fees, travel and other expenses.

Interest Income and Expense. Interest expense for the six months ended June 30, 2013 was \$18,000, compared to \$20,000 for the same period in 2012. Interest income for the six months ended June 30, 2013 was \$4,000, compared to \$8,000 for the same period in 2012.

Other Income (Expense). Miscellaneous income (expense), net for the six months ended June 30, 2013 was \$114,000, compared to (\$21,000) for the same period in 2012. Miscellaneous income (expense), net for the six months ended June 30, 2013 was primarily attributable to a rebate from our clinical trial insurance carrier.

Liquidity and Capital Resources

We have funded our operations through the proceeds of our initial public offering, or IPO, completed in November 2011, the proceeds of our follow-on public offering, completed in February 2013, the private placement of equity securities, debt financing and interest income. As of June 30, 2013, we have received proceeds of \$158.0 million from the issuance of common and convertible preferred stock and \$8.2 million from debt financing. As of June 30, 2013, we had cash, cash equivalents and certificates of deposit of approximately \$59.3 million. The following table sets forth the primary sources and uses of cash for each of the periods set forth below:

| | Six Months Ended June 30, | |
|--|------------------------------|-------------------|
| | 2013 | 2012 |
| Net cash used in development activities | \$ (11,477) | \$ (10,449) |
| Net cash provided by investing activities | 971 | 679 |
| Net cash provided by financing activities | 49,295 | 607 |
| Net increase (decrease) in cash and cash equivalents | <u>\$ 38,789</u> | <u>\$ (9,163)</u> |

For the six months ended June 30, 2013 and 2012, we used cash of \$11.5 million and \$10.4 million for our development activities, respectively. The cash used by development activities in the six months ended June 30, 2013 primarily resulted from our net loss of \$15.0 million, offset by non-cash expenses of \$2.5 million (primarily share-based compensation and depreciation) and offset by changes in operating assets and liabilities of \$1.1 million. The cash used by development activities in the six months ended June 30, 2012 primarily resulted from our net loss of \$11.2 million, accompanied by changes in operating assets and liabilities of \$1.6 million and offset by non-cash expenses of \$2.3 million.

For the six months ended June 30, 2013 and 2012, our investing activities provided cash of \$971,000 and \$679,000, respectively. The cash provided by investing activities in the six months ended June 30, 2013 was primarily a result of the sale of investments of \$1.2 million offset by the purchase of fixed assets of \$274,000. The cash provided by investing activities in the six months ended June 30, 2012 was primarily a result of the sale of investments of \$1.7 million offset by the purchase of equipment of \$1.1 million.

For the six months ended June 30, 2013 and 2012, our financing activities provided \$49.3 million and \$607,000, respectively. The cash provided by financing activities in the six months ended June 30, 2013 was primarily due to the sale and issuance of common stock of \$49.4 million offset by payments on long-term financing obligations of \$121,000. The cash provided by financing activities in the six months ended June 30, 2012 was primarily due to the sale and issuance of common stock of \$709,000 offset by payments on long-term financing obligations of \$98,000.

Operating Capital Requirements

We anticipate that we will continue to generate significant operating losses for the next several years as we incur expenses related to the research and development of our HyperAcute immunotherapy and IDO pathway inhibitor product candidates, build commercial capabilities and expand our corporate infrastructure. Including the funds received from our IPO and our follow-on public offering, we believe that we have sufficient cash and cash equivalents and certificates of deposit to fund our operations through at least the end of 2014.

We may seek to sell additional equity or debt securities or obtain a credit facility if our available cash and cash equivalents are insufficient to satisfy our liquidity requirements or if we develop additional opportunities to do so. The sale of additional equity and debt securities may result in additional dilution to our shareholders. If we raise additional funds through the issuance of debt securities or preferred stock, these securities could have rights senior to those of our common stock and could contain covenants that would restrict our operations. We may require additional capital beyond our currently forecasted amounts. Any such required additional capital may not be available on reasonable terms, if at all. If we are unable to obtain additional financing, we may be required to reduce the scope of, delay or eliminate some or all of our planned research, development and commercialization activities, which could harm our business.

Because of the numerous risks and uncertainties associated with research, development and commercialization of biopharmaceutical products, we are unable to estimate the exact amounts of our working capital requirements. Our future funding requirements will depend on many factors, including, but not limited to:

- the scope, progress, results and costs of clinical trials for our product candidates, and discovery and development activities related to new product candidates;
- the timing of, and the costs involved in, obtaining regulatory approvals for our product candidates;
- the cost of commercialization activities if any of our product candidates are approved for sale, including marketing, sales, distribution and facilities and occupancy costs;
- the cost of manufacturing our product candidates and any products we commercialize;
- our ability to establish and maintain strategic partnerships, licensing or other arrangements and the financial terms of such agreements;
- whether, and to what extent, we are required to repay our outstanding government provided loans;
- the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims, including litigation costs and the outcome of such litigation; and
- the timing, receipt and amount of sales of, or royalties on, our future products, if any.

Contractual Obligations and Commitments

On May 30, 2013, we entered into a Standard Design-Build Agreement, or the Story Agreement, with Story Construction Co. to provide temporary remodeling services with respect to approximately 11,800 square feet of existing manufacturing and quality control space at our headquarters in Ames, Iowa. Our obligations under the Story Agreement constitute a purchase obligation of approximately \$1.0 million. The full amount is due upon substantial completion of the work, which the Story Agreement contemplates to be less than one year following the date of the Story Agreement. The Story Agreement does not affect our contractual lease obligations or other contractual obligations. There are no other material changes to our contractual obligations as disclosed in our Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on March 15, 2013.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under SEC rules.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risk related to changes in interest rates. As of June 30, 2013 and December 31, 2012, we had cash and cash equivalents and certificates of deposit of \$59.3 million and \$21.7 million, respectively, consisting of money market funds and bank certificates of deposit. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of United States interest rates, particularly because our investments are in short-term marketable securities. Our certificates of deposit are subject to interest rate risk and will fall in value if market interest rates increase. Due to the short-term duration of our investment portfolio and the low risk profile of our investments, an immediate 10% change in interest rates would not have a material effect on the fair market value of our portfolio. We expect to have the ability to hold our certificates of deposit until maturity, and therefore we would not expect our operating results or cash flows to be affected to any significant degree by the effect of a change in market interest rates on our investments.

Our long-term debt and our capital lease obligations bear interest at fixed rates. Any change in interest rates would have an immaterial (or no) impact on our financial statements.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

As required by paragraph (b) of Rules 13a-15 and 15d-15 of the Securities Exchange Act of 1934, as amended, or the Exchange Act, an evaluation was carried out under the supervision and with the participation of our management, including our principal executive officer (Chief Executive Officer) and principal financial officer (Chief Financial Officer), of the effectiveness of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act. Based on that evaluation, our management, including our principal executive officer and principal financial officer, concluded that our disclosure controls and procedures were effective as of June 30, 2013 to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

No Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting during the period covered by this Quarterly Report on Form 10-Q that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1A. RISK FACTORS

Investing in our common stock involves a high degree of risk. In evaluating our business, investors should carefully consider the following risk factors. These risk factors contain, in addition to historical information, forward-looking statements that involve risks and uncertainties. Our actual results could differ significantly from the results discussed in the forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed below. The order in which the following risks are presented is not intended to reflect the magnitude of the risks described. The occurrence of any of the following risks could have a material adverse effect on our business, financial condition, results of operations and prospects. In that case, the trading price of our common stock could decline, and you may lose all or part of your investment.

Business Risks

Risks Relating to Clinical Development and Commercialization of Our Product Candidates

Our near term prospects are highly dependent on HyperAcute Pancreas. If we fail to complete, or demonstrate safety and efficacy in, clinical trials, fail to obtain regulatory approval or fail to successfully commercialize HyperAcute Pancreas, our business would be harmed and the value of our securities would likely decline.

We must be evaluated in light of the uncertainties and complexities affecting a development stage biopharmaceutical company. We have not completed clinical development for any of our products. Our most advanced product candidate is HyperAcute Pancreas. The United States Food and Drug Administration, or FDA, must approve HyperAcute Pancreas before it can be marketed or sold. Our ability to obtain FDA approval of HyperAcute Pancreas depends on, among other things, completion of our Phase 3 clinical trial, whether our Phase 3 clinical trial of HyperAcute Pancreas demonstrates statistically significant achievement of the clinical trial endpoints with no significant safety issues and whether the FDA agrees that the data from our Phase 3 clinical trial of HyperAcute Pancreas is sufficient to support approval. The final results of our Phase 3 clinical trials of HyperAcute Pancreas may not meet the FDA's requirements to approve the product for marketing, and the FDA may otherwise determine that our manufacturing processes, facilities or raw materials are insufficient to warrant approval. We may need to conduct more clinical trials than we currently anticipate. Furthermore, even if we do receive FDA approval, we may not be successful in commercializing HyperAcute Pancreas. If any of these events occur, our business could be materially harmed and the value of our common stock would likely decline.

If our product candidates do not meet safety and efficacy endpoints in clinical trials, they will not receive regulatory approval, and we will be unable to market them. We have not completed testing any of our product candidates in controlled clinical trials.

The clinical development and regulatory approval process is expensive and time-consuming. The timing of any future product approval cannot be accurately predicted. If we fail to obtain regulatory approval for our current or future product candidates, we will be unable to market and sell them and therefore we may never be profitable.

As part of the regulatory process, we must conduct clinical trials for each product candidate to demonstrate safety and efficacy to the satisfaction of the FDA and other regulatory authorities abroad. The number and design of clinical trials that will be required varies depending on the product candidate, the condition being evaluated, the trial results and regulations applicable to any particular product candidate.

Prior clinical trial program designs and results are not necessarily predictive of future clinical trial designs or results. Initial results may not be confirmed upon full analysis of the detailed results of a trial. Product candidates in later stage clinical trials may fail to show the desired safety and efficacy despite having progressed through initial clinical trials with acceptable endpoints.

In particular, there have been no control groups in our clinical trials completed to date. While comparisons to results from other reported clinical trials can assist in predicting the potential efficacy of our HyperAcute Pancreas product candidate, there are many factors that affect the outcome for patients in clinical trials, some of which are not apparent in published reports, and results from two different trials cannot always be reliably compared. As a result, we are studying HyperAcute Pancreas in combination with the current standard-of-care in direct comparison to the current standard-of-care alone in the same trial and will need to show a statistically significant benefit when added to the current standard-of-care in order for HyperAcute Pancreas to be approved as a marketable drug. Patients in our Phase 3 study who do not receive HyperAcute Pancreas may not have results similar to patients studied in the other studies we have used for comparison to our Phase 2 studies. If the patients in our Phase 3 study who receive standard-of-care without HyperAcute Pancreas have results which are better than the results predicted by the other

large studies, we may not demonstrate a sufficient benefit from the HyperAcute Pancreas to allow the FDA to approve it for marketing.

Our HyperAcute product candidates are based on a novel technology, which may raise development issues we may not be able to resolve, regulatory issues that could delay or prevent approval or personnel issues that may keep us from being able to develop our product candidates.

Our HyperAcute product candidates are based on our novel HyperAcute immunotherapy technology. In the course of developing this technology and these product candidates, we have encountered difficulties in the development process. There can be no assurance that additional development problems, which we may not be able to resolve or which may cause significant delays in development, will not arise in the future.

Regulatory approval of novel product candidates such as ours can be more expensive and take longer than for other, more well-known or extensively studied pharmaceutical or biopharmaceutical products, due to our and regulatory agencies' lack of experience with them. This may lengthen the regulatory review process, require us to conduct additional studies or clinical trials, increase our development costs, lead to changes in regulatory positions and interpretations, delay or prevent approval and commercialization of these product candidates or lead to significant post-approval limitations or restrictions. For example, the two cell lines that comprise HyperAcute Pancreas are novel and complex therapeutics that we have endeavored to better characterize so that their identity, strength, quality, purity and potency may be compared among batches created from different manufacturing methods. We currently lack the manufacturing capacity necessary for larger-scale production. If we make any changes to our current manufacturing methods or cannot design assays that satisfy the FDA's expectations regarding the equivalency of such therapeutics in the laboratory, the FDA may require us to undertake additional clinical trials.

The novel nature of our product candidates also means that fewer people are trained in or experienced with product candidates of this type, which may make it difficult to find, hire and retain capable personnel for research, development and manufacturing positions.

Our Special Protocol Assessment, or SPA, with the FDA relating to our HyperAcute Pancreas Phase 3 clinical trial does not guarantee any particular outcome from regulatory review of the trial or the product candidate, including any regulatory approval.

The protocol for our HyperAcute Pancreas Phase 3 clinical trial was reviewed by the FDA under its SPA process, which allows for FDA evaluation of a clinical trial protocol intended to form the primary basis of an efficacy claim in support of a New Drug Application, or NDA, and provides an agreement that the study design, including trial size, clinical endpoints and/or data analyses are acceptable to the FDA. However, the SPA agreement is not a guarantee of approval. The FDA retains the right to require additional Phase 3 testing, and we cannot be certain that the design of, or data collected from, the HyperAcute Pancreas Phase 3 clinical trial will be adequate to demonstrate the safety and efficacy of HyperAcute Pancreas for the treatment of patients with pancreatic cancer, or otherwise be sufficient to support FDA or any foreign regulatory approval. In addition, the survival rates, duration of response and safety profile required to support FDA approval are not specified in the HyperAcute Pancreas Phase 3 clinical trial protocol and will be subject to FDA review. Although the SPA agreement calls for review of interim data at certain times prior to completion, there is no assurance that any such review, even if such interim data are positive, will result in early approval. Further, the SPA agreement is not binding on the FDA if public health concerns unrecognized at the time the SPA agreement was entered into become evident, other new scientific concerns regarding product safety or efficacy arise, or if we fail to comply with the agreed upon trial protocols. In addition, the SPA agreement may be changed by us or the FDA on written agreement of both parties, and the FDA retains significant latitude and discretion in interpreting the terms of the SPA agreement and the data and results from the HyperAcute Pancreas Phase 3 clinical trial. As a result, we do not know how the FDA will interpret the parties' respective commitments under the SPA agreement, how it will interpret the data and results from the HyperAcute Pancreas Phase 3 clinical trial, or whether HyperAcute Pancreas will receive any regulatory approvals as a result of the SPA agreement or the HyperAcute Pancreas Phase 3 clinical trial. Therefore, significant uncertainty remains regarding the clinical development and regulatory approval process for HyperAcute Pancreas for the treatment of patients with pancreatic cancer.

We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success.

Because we have limited financial and managerial resources, we must focus on research programs and product candidates for the specific indications that we believe are the most scientifically and commercially promising. As a result, we have in the past determined to let certain of our development projects remain idle including by allowing Investigational New Drug applications, or INDs, to lapse into inactive status, and we may in the future decide to forego or delay pursuit of opportunities with other product candidates or other indications that later prove to have greater scientific or commercial potential. Our resource allocation decisions

may cause us to fail to capitalize on viable scientific or commercial products or profitable market opportunities. In addition, we may spend valuable time and managerial and financial resources on research programs and product candidates for specific indications that ultimately do not yield any scientifically or commercially viable products. If we do not accurately evaluate the scientific and commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in situations where it would have been more advantageous for us to retain sole rights to development and commercialization.

We may face delays in completing our clinical trials, and we may not be able to complete them at all.

We have not completed all the clinical trials necessary to support an application with the FDA for approval to market any of our product candidates. Our current and future clinical trials may be delayed or terminated as a result of many factors, including:

- delays or failure in reaching agreement on acceptable clinical trial contracts or clinical trial protocols with prospective sites;
- regulators or institutional review boards may not authorize us to commence a clinical trial;
- regulators or institutional review boards may suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements or concerns about patient safety;
- we may suspend or terminate our clinical trials if we believe that they expose the participating patients to unacceptable health risks;
- slower than expected patient enrollment or lack of a sufficient number of patients that meet the enrollment criteria for our clinical trials;
- patients may not complete clinical trials due to safety issues, side effects, dissatisfaction with the product candidate, or other reasons;
- difficulty in maintaining contact with patients after treatment, preventing us from collecting the data required by our study protocol;
- product candidates may demonstrate a lack of efficacy during clinical trials;
- governmental or regulatory delays, failure to obtain regulatory approval or changes in regulatory requirements, policy and guidelines;
- competition with ongoing clinical trials and scheduling conflicts with participating clinicians; and
- delays in achieving study endpoints and completing data analysis for a trial.

In addition, we rely on academic institutions, physician practices and clinical research organizations to conduct, supervise or monitor some or all aspects of clinical trials involving our product candidates. We have less control over the timing and other aspects of these clinical trials than if we conducted the monitoring and supervision entirely on our own. Third parties may not perform their responsibilities for our clinical trials on our anticipated schedule or consistent with a clinical trial protocol or applicable regulations. We also may rely on clinical research organizations to perform our data management and analysis. They may not provide these services as required or in a timely or compliant manner.

Moreover, our development costs will increase if we are required to complete additional or larger clinical trials for the HyperAcute product candidates, indoximod or other product candidates prior to FDA approval. If the delays or costs are significant, our financial results and ability to commercialize the HyperAcute product candidates, indoximod or other future product candidates will be adversely affected.

If we encounter difficulties enrolling patients in our clinical trials, our clinical trials could be delayed or otherwise adversely affected.

Clinical trials for our product candidates require us to identify and enroll a large number of patients with the disease under investigation. We may not be able to enroll a sufficient number of patients, or those with required or desired characteristics to achieve diversity in a study, to complete our clinical trials in a timely manner. Patient enrollment is affected by factors including:

- severity of the disease under investigation;
- design of the trial protocol;
- the size of the patient population;
- eligibility criteria for the study in question;
- perceived risks and benefits of the product candidate under study;
- availability of competing therapies and clinical trials;
- efforts to facilitate timely enrollment in clinical trials;
- patient referral practices of physicians;
- the ability to monitor patients adequately during and after treatment; and
- proximity and availability of clinical trial sites for prospective patients.

In particular, the inclusion of critically ill patients in our clinical trials may result in deaths or other adverse medical events for reasons that may not be related to the product candidate we are testing or, in those trials where our product candidate is being tested in combination with one or more other therapies, for reasons that may be attributable to such other therapies, but which can nevertheless negatively affect clinical trial results. In addition, we have experienced difficulties enrolling patients in certain of our smaller clinical trials due to lack of referrals and may experience similar difficulties in the future.

If we have difficulty enrolling a sufficient number or diversity of patients to conduct our clinical trials as planned, we may need to delay or terminate ongoing or planned clinical trials, either of which would have an adverse effect on our business.

Regulatory authorities may not approve our product candidates even if they meet safety and efficacy endpoints in clinical trials.

We have discussions with and obtain guidance from regulatory authorities regarding certain aspects of our clinical development activities. These discussions are not binding commitments on the part of regulatory authorities. Under certain circumstances, regulatory authorities may revise or retract previous guidance during the course of our clinical activities or after the completion of our clinical trials. A regulatory authority may also disqualify a clinical trial in whole or in part from consideration in support of approval of a potential product for commercial sale or otherwise deny approval of that product. Prior to regulatory approval, a regulatory authority may elect to obtain advice from outside experts regarding scientific issues and/or marketing applications under a regulatory authority review. In the United States, these outside experts are convened through the FDA's Advisory Committee process, which would report to the FDA and make recommendations that may differ from the views of the FDA; should an Advisory Committee be convened, it would be expected to lengthen the time for obtaining regulatory approval, if such approval is obtained at all.

The FDA and other foreign regulatory agencies can delay, limit or deny marketing approval for many reasons, including:

- a product candidate may not be considered safe or effective;
- our manufacturing processes or facilities may not meet the applicable requirements; and
- changes in their approval policies or adoption of new regulations may require additional work on our part.

Any delay in, or failure to receive or maintain, approval for any of our product candidates could prevent us from ever generating meaningful revenues or achieving profitability.

Our product candidates may not be approved even if they achieve their endpoints in clinical trials. Regulatory agencies, including the FDA, or their advisors may disagree with our trial design and our interpretations of data from preclinical studies and clinical trials. Regulatory agencies may change requirements for approval even after a clinical trial design has been approved. Regulatory agencies also may approve a product candidate for fewer or more limited indications than requested or may grant approval subject to the performance of post-marketing studies. In addition, regulatory agencies may not approve the labeling claims that are necessary or desirable for the successful commercialization of our product candidates.

We may be required to suspend, repeat or terminate our clinical trials if they are not conducted in accordance with regulatory requirements, the results are negative or inconclusive or the trials are not well designed.

Clinical trials must be conducted in accordance with the FDA's current Good Clinical Practices, or cGCP, or other applicable foreign government guidelines and are subject to oversight by the FDA, other foreign governmental agencies and Institutional Review Boards at the medical institutions where the clinical trials are conducted. In addition, clinical trials must be conducted with product candidates produced under current Good Manufacturing Practices, or cGMP, and may require large numbers of test subjects. Clinical trials may be suspended by the FDA, other foreign governmental agencies, or us for various reasons, including:

- deficiencies in the conduct of the clinical trials, including failure to conduct the clinical trial in accordance with regulatory requirements or clinical protocols;
- deficiencies in the clinical trial operations or trial sites;
- the product candidate may have unforeseen adverse side effects;
- the time required to determine whether the product candidate is effective may be longer than expected;
- fatalities or other adverse events arising during a clinical trial due to medical problems that may not be related to clinical trial treatments;
- the product candidate may not appear to be more effective than current therapies;
- the quality or stability of the product candidate may fall below acceptable standards; or
- insufficient quantities of the product candidate to complete the trials.

In addition, changes in regulatory requirements and guidance may occur and we may need to amend clinical trial protocols to reflect these changes. Amendments may require us to resubmit our clinical trial protocols to Institutional Review Boards for reexamination, which may impact the costs, timing or successful completion of a clinical trial. Due to these and other factors, our HyperAcute product candidates, indoximod and other product candidates could take a significantly longer time to gain regulatory approval for any additional indications than we expect or we may never gain approval for additional indications, which could reduce our revenue by delaying or terminating the commercialization of our HyperAcute product candidates, indoximod and other product candidates for additional indications.

Some of our product candidates have been or in the future may be studied in clinical trials co-sponsored by the National Cancer Institute, or NCI, or in investigator-initiated clinical trials, which means we have little control over the conduct of such trials.

Our indoximod product candidate has been studied in two Phase 1B/2 clinical trials co-sponsored by the National Cancer Institute. We are currently supplying our indoximod product candidate in support of a Phase 2 investigator-initiated clinical trial, and we provided clinical supply of our HyperAcute Melanoma product candidate in support of a Phase 2 investigator-initiated clinical trial. We may continue to supply and otherwise support similar trials in the future. However, because we are not the sponsors of these trials, we do not control the protocols, administration or conduct of these trials, including follow-up with patients and ongoing collection of data after treatment, and, as a result, are subject to risks associated with the way these types of trials are conducted, in particular should any problems arise. These risks include difficulties or delays in communicating with investigators or administrators, procedural delays and other timing issues and difficulties or differences in interpreting data.

If we cannot demonstrate the safety of our product candidates in preclinical and/or other non-clinical studies, we will not be able to initiate or continue clinical trials or obtain approval for our product candidates.

In order to move a product candidate not yet being tested in humans into a clinical trial, we must first demonstrate in preclinical testing that the product candidate is safe. Furthermore, in order to obtain approval, we must also demonstrate safety in various preclinical and non-clinical tests. We may not have conducted or may not conduct in the future the types of preclinical and other non-clinical testing ultimately required by regulatory authorities, or future preclinical tests may indicate that our product candidates are not safe for use in humans. Preclinical testing is expensive, can take many years and have an uncertain outcome. In addition, success in initial preclinical testing does not ensure that later preclinical testing will be successful. We may experience numerous unforeseen events during, or as a result of, the preclinical testing process, which could delay or prevent our ability to develop or commercialize our product candidates, including:

- our preclinical testing may produce inconclusive or negative safety results, which may require us to conduct additional preclinical testing or to abandon product candidates that we believed to be promising;
- our product candidates may have unfavorable pharmacology, toxicology or carcinogenicity;
- our product candidates may cause undesirable side effects; and
- the FDA or other regulatory authorities may determine that additional safety testing is required.

Any such events would increase our costs and could delay or prevent our ability to commercialize our product candidates, which could adversely impact our business, financial condition and results of operations.

Even if approved, the HyperAcute product candidates, indoximod or any other product we may commercialize and market may be later withdrawn from the market or subject to promotional limitations.

We may not be able to obtain the labeling claims necessary or desirable for the promotion of our products. We may also be required to undertake post-marketing clinical trials. If the results of such post-marketing studies are not satisfactory, the FDA or a comparable agency in a foreign country may withdraw marketing authorization or may condition continued marketing on commitments from us that may be expensive and/or time consuming to fulfill. In addition, if we or others identify adverse side effects after any of our products are on the market, or if manufacturing problems occur, regulatory approval may be withdrawn and reformulation of our products, additional clinical trials, changes in labeling of our products and additional marketing applications may be required. Any reformulation or labeling changes may limit the marketability of our products.

We will need to develop or acquire additional capabilities in order to commercialize any product candidates that obtain FDA approval, and we may encounter unexpected costs or difficulties in doing so.

We will need to acquire additional capabilities and effectively manage our operations and facilities to successfully pursue and complete future research, development and commercialization efforts. Currently, we have no experience in preparing applications for marketing approval, commercial-scale manufacturing, managing of large-scale information technology systems

or managing a large-scale distribution system. We will need to add personnel and expand our capabilities, which may strain our existing managerial, operational, regulatory compliance, financial and other resources.

To do this effectively, we must:

- train, manage and motivate a growing employee base;
- accurately forecast demand for our products; and
- expand existing operational, financial and management information systems.

We plan to increase our manufacturing capacity and seek FDA approval for our production process simultaneously with seeking approval for the marketing and sale of our HyperAcute Pancreas product candidate. Should we not receive timely approval of our production process, our ability to produce the immunotherapy products following regulatory approval for sale could be delayed, which would further delay the period of time when we would be able to generate revenues from the sale of such products, if we are even able to generate revenues at all.

If we are unable to establish sales and marketing capabilities or enter into agreements with third parties to market and sell our product candidates, we may be unable to generate significant product revenue.

We do not have a sales organization and have no experience in the sales and distribution of pharmaceutical products. There are risks involved with establishing our own sales capabilities and increasing our marketing capabilities, as well as entering into arrangements with third parties to perform these services. Developing an internal sales force is expensive and time consuming and could delay any product launch. On the other hand, if we enter into arrangements with third parties to perform sales, marketing and distribution services, our product revenues or the profitability of these product revenues to us could potentially be lower than if we market and sell any products that we develop ourselves.

We may establish our own specialty sales force and/or engage other biopharmaceutical or other healthcare companies with established sales, marketing and distribution capabilities to sell, market and distribute any future products. We may not be able to establish a specialty sales force or establish sales, marketing or distribution relationships on acceptable terms. Factors that may inhibit our efforts to commercialize any future products without strategic partners or licensees include:

- our inability to recruit and retain adequate numbers of effective sales and marketing personnel;
- the inability of sales personnel to obtain access to or persuade adequate numbers of physicians to prescribe any future products;
- the lack of complementary products to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and
- unforeseen costs and expenses associated with creating an independent sales and marketing organization.

Because the establishment of sales, marketing and distribution capabilities depends on the progress towards commercialization of our product candidates, and because of the numerous risks and uncertainties involved with establishing those capabilities, we are unable to predict when, if ever, we will establish our own sales, marketing and distribution capabilities. If we are not able to partner with third parties and are unsuccessful in recruiting sales, marketing and distribution personnel or in building the necessary infrastructure, we will have difficulty commercializing our product candidates, which would adversely affect our business and financial condition.

Failure to attract and retain key personnel could impede our ability to develop our products and to obtain new collaborations or other sources of funding.

Because of the specialized scientific nature of our business, our success is highly dependent upon our ability to attract and retain qualified scientific and technical personnel, consultants and advisors. We are highly dependent on the principal members of our scientific and management staff, particularly Dr. Charles J. Link, Jr. The loss of his services might significantly delay or prevent the achievement of our research, development, and business objectives. We do not maintain key-man life insurance with respect to any of our employees, nor do we intend to secure such insurance.

We will need to recruit a significant number of additional personnel in order to achieve our operating goals. In order to pursue product development and marketing and sales activities, if any, we will need to hire additional qualified scientific personnel to perform research and development, as well as personnel with expertise in clinical testing, government regulation, manufacturing, marketing and sales. We also rely on consultants and advisors to assist in formulating our research and development strategy and adhering to complex regulatory requirements. We face competition for qualified individuals from numerous pharmaceutical and biotechnology companies, universities and other research institutions. There can be no assurance that we will be able to attract

and retain such individuals on acceptable terms, if at all. If the personnel that have contingently agreed to join us do not join us it will be difficult or impossible for us to execute our business plan in a timely manner. Additionally, our facilities are located in Iowa, which may make attracting and retaining qualified scientific and technical personnel from outside of Iowa difficult. The failure to attract and retain qualified personnel, consultants and advisors could have a material adverse effect on our business, financial condition and results of operations.

Risks Relating to Manufacturing Activities

We have never manufactured our product candidates at commercial scale, and there can be no assurance that such products can be manufactured in compliance with regulations at a cost or in quantities necessary to make them commercially viable.

We have no experience in commercial-scale manufacturing, the management of large-scale information technology systems or the management of a large-scale distribution system. We may develop our manufacturing capacity in part by expanding our current facilities. This activity would require substantial additional funds and we would need to hire and train significant numbers of qualified employees to staff these facilities. We may not be able to develop commercial-scale manufacturing facilities that are sufficient to produce materials for additional later-stage clinical trials or commercial use.

If we are unable to manufacture or contract for a sufficient supply of our product candidates on acceptable terms, or if we encounter delays or difficulties in the scale-up of our manufacturing processes or our relationships with other manufacturers, our preclinical and human clinical testing schedule would be delayed. This in turn would delay the submission of product candidates for regulatory approval and thereby delay the market introduction and subsequent sales of any products that receive regulatory approval, which would have a material adverse effect on our business, financial condition and results of operations. Furthermore, we or our contract manufacturers must supply all necessary documentation in support of each Biologics License Application, or BLA, and each NDA on a timely basis and must adhere to Good Laboratory Practice, or GLP and cGMP regulations enforced by the FDA through its facilities inspection program. If these facilities cannot pass a pre-approval plant inspection, the FDA approval of the products will not be granted.

We and our contract manufacturers are subject to significant regulation with respect to manufacturing of our products.

All entities involved in the preparation of a therapeutic drug for clinical trials or commercial sale, including our existing contract manufacturer for indoximod and the components used in the HyperAcute product candidates and our contract manufacturer for NLG-919, one of our IDO pathway inhibitor candidates, are subject to extensive regulation. Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical trials must be manufactured in accordance with cGMP. These regulations govern manufacturing processes and procedures (including record keeping) and the implementation and operation of quality systems to control and assure the quality of investigational products and products approved for sale. Our facilities and quality systems and the facilities and quality systems of some or all of our third party contractors must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of the HyperAcute product candidates, indoximod or any of our other potential products. In addition, the regulatory authorities may, at any time, audit or inspect a manufacturing facility involved with the preparation of the HyperAcute product candidates, indoximod or our other potential products or the associated quality systems for compliance with the regulations applicable to the activities being conducted. The regulatory authorities also may, at any time following approval of a product for sale, audit our manufacturing facilities or those of our third party contractors. If any such inspection or audit identifies a failure to comply with applicable regulations or if a violation of our product specifications or applicable regulations occurs independent of such an inspection or audit, we or the relevant regulatory authority may require remedial measures that may be costly and/or time consuming for us or a third party to implement and that may include the temporary or permanent suspension of a clinical trial or commercial sales or the temporary or permanent closure of a facility. Any such remedial measures imposed upon us or third parties with whom we contract could materially harm our business. In addition, to the extent that we rely on foreign contract manufacturers, as we do for NLG-919, we are subject to additional risks including the need to comply with export and import regulations.

We currently rely on relationships with third-party contract manufacturers, which limits our ability to control the availability of, and manufacturing costs for, our product candidates in the near-term.

We will rely upon contract manufacturers for indoximod, and for components of the HyperAcute product candidates, for commercial sale if any are approved for sale. In addition, we currently rely on a contract manufacturer for supply of NLG-919 for preclinical studies and, if our IND is approved, we may rely on a contract manufacturer for clinical trials. Problems with any of our facilities or processes, or our contract manufacturers' facilities or processes, could prevent or delay the production of adequate supplies of antigen, components or finished HyperAcute product candidates, indoximod or NLG-919. This could delay or reduce commercial sales and materially harm our business. We do not currently have experience with the manufacture of products at commercial scale, and may incur substantial costs to develop the capability to manufacture products at commercial scale. Any prolonged delay or interruption in the operations of our facilities or our contract manufacturers' facilities could result in cancellation

of shipments, loss of components in the process of being manufactured or a shortfall in availability of a product. A number of factors could cause interruptions, including the inability of a supplier to provide raw materials, equipment malfunctions or failures, damage to a facility due to natural disasters, changes in regulatory requirements or standards that require modifications to our manufacturing processes, action by the regulatory authorities or by us that results in the halting or slowdown of production of components or finished product due to regulatory issues, a contract manufacturer going out of business or failing to produce product as contractually required or other similar factors. Because manufacturing processes are highly complex and are subject to a lengthy regulatory approval process, alternative qualified production capacity and sufficiently trained or qualified personnel may not be available on a timely or cost-effective basis or at all. Difficulties or delays in our contract manufacturers' production of drug substances could delay our clinical trials, increase our costs, damage our reputation and cause us to lose revenue and market share if we are unable to timely meet market demand for any products that are approved for sale.

Further, if our contract manufacturers are not in compliance with regulatory requirements at any stage, including post-marketing approval, we may be fined, forced to remove a product from the market and/or experience other adverse consequences, including delays, which could materially harm our business.

We use hazardous materials in our business and must comply with environmental laws and regulations, which can be expensive.

Our research and development involves the controlled use of hazardous materials, chemicals, various active microorganisms and volatile organic compounds, and we may incur significant costs as a result of the need to comply with numerous laws and regulations. We are subject to laws and regulations enforced by the FDA, the Drug Enforcement Agency, foreign health authorities and other regulatory requirements, including the Occupational Safety and Health Act, the Environmental Protection Act, the Toxic Substances Control Act, the Food, Drug and Cosmetic Act, the Resource Conservation and Recovery Act, and other current and potential federal, state, local and foreign laws and regulations governing the use, manufacture, storage, handling and disposal of our products, materials used to develop and manufacture our product candidates, and resulting waste products. Although we believe that our safety procedures for handling and disposing of such materials, and for killing any unused microorganisms before disposing of them, comply with the standards prescribed by state and federal regulations, the risk of accidental contamination or injury from these materials cannot be completely eliminated. In the event of such an accident, we could be held liable for any damages that result and any such liability could exceed our resources.

We replicate all biological cells for our products internally and utilize a single manufacturing site to manufacture our clinical product candidates. Any disruption in the operations of our manufacturing facility would have a significant negative impact on our ability to manufacture products for clinical testing and would result in increased costs and losses.

We have thus far elected to replicate all biological cells for our products internally using a complex process. The disruption of our operations could result in manufacturing delays due to the inability to purchase the cell lines from outside sources. We have only one manufacturing facility in which we can manufacture clinical products. In the event of a physical catastrophe at our manufacturing or laboratory facilities, we could experience costly delays in reestablishing manufacturing capacity, due to a lack of redundancy in manufacturing capability.

Our current manufacturing facility contains highly specialized equipment and utilizes complicated production processes developed over a number of years, which would be difficult, time-consuming and costly to duplicate. Any prolonged disruption in the operations of our manufacturing facility would have a significant negative impact on our ability to manufacture products for clinical testing on our own and would cause us to seek additional third-party manufacturing contracts, thereby increasing our development costs. We may suffer losses as a result of business interruptions that exceed the coverage available under our insurance policies or any losses may be excluded under our insurance policies. Certain events, such as natural disasters, fire, political disturbances, sabotage or business accidents, which could impact our current or future facilities, could have a significant negative impact on our operations by disrupting our product development efforts until such time as we are able to repair our facility or put in place third-party contract manufacturers to assume this manufacturing role.

We have experienced bacterial and mycoplasma contaminations in lots produced at our facilities, and we destroyed the contaminated lots and certain overlapping lots. We may experience additional contaminated lots at our facilities, and we will destroy any contaminated lots that we detect, which could result in significant delay or additional expense in our operations.

Our facilities are located in areas where floods and tornados are known to occur, and the occurrence of a flood, tornado or other catastrophic disaster could damage our facilities and equipment, which could cause us to curtail or cease operations.

Our facilities are located in Ames, Iowa, which is susceptible to floods and tornados, and our facilities are therefore vulnerable to damage or disruption from floods and tornados. We are also vulnerable to damage from other types of disasters, such as power loss, fire and similar events. If any disaster were to occur, our ability to operate our business could be seriously impaired. We currently carry business personal property insurance in the amount of \$9.5 million in the aggregate, but this policy

does not cover disasters such as floods and earthquakes. We may not have adequate insurance to cover our losses resulting from disasters or other similar significant business interruptions, and we do not plan to purchase additional insurance to cover such losses due to the cost of obtaining such coverage. Any significant losses that are not recoverable under our insurance policies could seriously impair our business and financial condition.

Risks Relating to Regulation of Our Industry

The industry within which we operate and our business are subject to extensive regulation, which is costly, and time consuming and may subject us to unanticipated delays.

The research, design, testing, manufacturing, labeling, marketing, distribution and advertising of biologic and pharmaceutical products such as our product candidates are subject to extensive regulation by governmental regulatory authorities in the United States and other countries. The drug development and approval process is generally lengthy, expensive and subject to unanticipated delays. Data obtained from preclinical and clinical testing are subject to varying interpretations that could delay, limit or prevent regulatory approval. In addition, delays or rejections may be encountered based upon changes in regulatory policy for product approval during the period of development and regulatory review of each submitted application for approval. To obtain approval for a product candidate, we must demonstrate to the satisfaction of the regulatory authorities that the product candidate is safe, pure, potent and effective, which typically takes several years or more depending upon the type, complexity and novelty of the product and requires the expenditure of substantial resources. There can be no assurance that we will not encounter problems in clinical trials that would cause us or the regulatory authorities to delay or suspend clinical trials. Any such delay or suspension could have a material adverse effect on our business, financial condition and results of operations.

There can be no assurance that clinical studies for any of our product candidates currently under development will be completed successfully or within any specified time period, if at all. Further, there can also be no assurance that such testing will show any product to be safe, pure, potent or effective. There can be no assurance that we will not encounter problems in clinical trials that will cause us to delay or suspend clinical trials.

Regardless of how much time and resources we devote to development of a product candidate, there can be no assurance that regulatory approval will be obtained for that product candidate. To date, the FDA has approved only one active cellular cancer immunotherapy product, even though several have been, and currently are in, clinical development. Further, even if such regulatory approval is obtained, we, our products and any contract manufacturers or commercial collaborators of ours will be subject to continual regulatory review in both the United States and other countries. Later discovery of previously unknown problems with regard to a product, distributor or manufacturer may result in restrictions, including withdrawal of the product from the market and/or disqualification or decertification of the distributor or manufacturer.

We cannot predict when, if ever, we might submit for regulatory review our product candidates currently under development. Once we submit our potential products for review, there can be no assurance that regulatory approvals for any pharmaceutical products developed by us will be granted on a timely basis, if at all.

The FDA and comparable agencies in foreign countries impose substantial requirements on the introduction of new biologic and pharmaceutical products through lengthy and detailed preclinical and clinical testing procedures, sampling activities and other costly and time-consuming compliance procedures. Clinical trials are vigorously regulated and must meet requirements for FDA review and oversight and requirements under GCP guidelines. A new drug may not be marketed in the United States until the FDA has approved it. There can be no assurance that we will not encounter delays or rejections or that the FDA will not make policy changes during the period of product development and FDA regulatory review of each submitted BLA and NDA. A delay in obtaining or failure to obtain such approvals would have a material adverse effect on our business, financial condition and results of operations. Even if regulatory approval were obtained, it would be limited as to the indicated uses for which the product may be promoted or marketed. A marketed product, its manufacturer and the facilities in which it is manufactured are subject to continual review and periodic inspections. If marketing approval is granted, we would be required to comply with FDA requirements for manufacturing, labeling, advertising, record keeping and reporting of adverse experiences and other information. In addition, we would be required to comply with federal and state anti-kickback and other health care fraud and abuse laws that pertain to the marketing of pharmaceuticals. Failure to comply with regulatory requirements and other factors could subject us to regulatory or judicial enforcement actions, including product recalls or seizures, injunctions, withdrawal of the product from the market, civil penalties, criminal prosecution, refusals to approve new products and withdrawals of existing approvals, as well as enhanced product liability exposure, any of which could have a material adverse effect on our business, financial condition and results of operations. Sales of our products outside the United States will be subject to foreign regulatory requirements governing clinical trials, marketing approval, manufacturing and pricing. Non-compliance with these requirements could result in enforcement actions or penalties or could delay introduction of our products in certain countries.

The requirements governing the conduct of clinical trials, product licensing, pricing and reimbursement outside the United States vary greatly from country to country. The time required to obtain approvals outside the United States may differ from that required to obtain FDA approval. We may not obtain foreign regulatory approvals on a timely basis, or at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries, and approval by one foreign regulatory authority does not ensure approval by regulatory authorities in other countries or by the FDA and foreign regulatory authorities could require additional testing. Failure to comply with these regulatory requirements or obtain required approvals could impair our ability to develop foreign markets for our products and may have a material adverse effect on our results of operations and financial condition.

We are also subject to laws generally applicable to businesses, including but not limited to, federal, state and local regulations relating to wage and hour matters, employee classification, mandatory healthcare benefits, unlawful workplace discrimination and whistle-blowing. Any actual or alleged failure to comply with any regulation applicable to our business or any whistle-blowing claim, even if without merit, could result in costly litigation, regulatory action or otherwise harm our business, results of operations, financial condition, cash flow and future prospects.

The availability and amount of reimbursement for our product candidates, if approved, and the manner in which government and private payors may reimburse for our potential product, are uncertain.

In both United States and foreign markets, sales of our proposed products will depend in part on the availability of reimbursement from third-party payors such as government health administration authorities, private health insurers and other organizations. Our future levels of revenues and profitability may be affected by the continuing efforts of governmental and third party payors to contain or reduce the costs of health care. We cannot predict the effect that private sector or governmental health care reforms may have on our business, and there can be no assurance that any such reforms will not have a material adverse effect on our business, financial condition and results of operations.

In addition, in both the United States and elsewhere, sales of prescription drugs are dependent in part on the availability of reimbursement to the consumer from third-party payors, such as government and private insurance plans. Third-party payors are increasingly challenging the price and cost-effectiveness of medical products and services. Significant uncertainty exists as to the reimbursement status of newly approved health care products. There can be no assurance that our proposed products will be considered cost-effective or that adequate third-party reimbursement will be available to enable us to maintain price levels sufficient to realize an appropriate return on our investment in product development. Legislation and regulations affecting the pricing of pharmaceuticals may change before any of our proposed products are approved for marketing. Adoption of such legislation could further limit reimbursement for medical products and services. As a result, we may elect not to market future products in certain markets.

Moreover, while we are in clinical trials, we will not be reimbursed for any of our materials used during the clinical trials.

The biopharmaceutical industry is subject to significant regulation and oversight in the United States, in addition to approval of products for sale and marketing.

In addition to FDA restrictions on marketing of biopharmaceutical products, several other types of state and federal laws have been applied to restrict certain marketing practices in the biopharmaceutical industry in recent years. These laws include anti-kickback statutes and false claims statutes.

The federal health care program anti-kickback statute prohibits, among other things, knowingly and willfully offering, paying, soliciting, or receiving remuneration to induce or in return for purchasing, leasing, ordering, or arranging for the purchase, lease, or order of any health care item or service reimbursable under Medicare, Medicaid, or other federally financed healthcare programs. This statute has been interpreted to apply to arrangements between pharmaceutical manufacturers on one hand and prescribers, purchasers and formulary managers on the other. Although there are a number of statutory exemptions and regulatory safe harbors protecting certain common activities from prosecution, the exemptions and safe harbors are drawn narrowly, and practices that involve remuneration intended to induce prescribing, purchases or recommendations may be subject to scrutiny if they do not qualify for an exemption or safe harbor. Our practices may not in all cases meet all of the criteria for safe harbor protection from anti-kickback liability.

Federal false claims laws prohibit any person from knowingly presenting, or causing to be presented, a false claim for payment to the federal government, or knowingly making, or causing to be made, a false statement to get a false claim paid. Recently, several pharmaceutical and other health care companies have been prosecuted under these laws for allegedly providing free product to customers with the expectation that the customers would bill federal programs for the product. Other companies have been prosecuted for causing false claims to be submitted because of marketing of the product for unapproved, and thus non-reimbursable, uses. The majority of states also have statutes or regulations similar to the federal anti-kickback law and false claims

laws, which apply to items and services reimbursed under Medicaid and other state programs, or, in several states, apply regardless of the payor. Sanctions under these federal and state laws may include civil monetary penalties, exclusion of a manufacturer's products from reimbursement under government programs, criminal fines and imprisonment.

Because of the breadth of these laws and the narrowness of the safe harbors, it is possible that some of our business activities could be subject to challenge under one or more of these laws, which could have a material adverse effect on our business, financial condition and results of operations.

In the United States and foreign jurisdictions, there have been a number of legislative and regulatory changes to the healthcare system that could affect our future results of operations. We expect to face pricing pressure globally from managed care organizations, institutions and government agencies and programs, which could negatively affect the sales and profit margins for our HyperAcute product candidates, indoximod or 1-methyl-D-tryptophan (D-1MT) or any other of our product candidates that are approved for marketing.

In particular, there have been and continue to be a number of initiatives at the United States federal and state levels that seek to reduce healthcare costs. Most recently, in March 2010 the Patient Protection and Affordable Health Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or collectively the PPACA, was enacted, which includes measures to significantly change the way health care is financed by both governmental and private insurers. Among the provisions of the PPACA of greatest importance to the pharmaceutical and biotechnology industry are the following:

- an annual, nondeductible fee on any entity that manufactures or imports certain branded prescription drugs and biologic agents, apportioned among these entities according to their market share in certain government healthcare programs;
- requirements to report certain financial arrangements with physicians and others, including reporting any "transfer of value" made or distributed to prescribers and other healthcare providers and reporting any investment interests held by physicians and their immediate family members during each calendar year beginning in 2012, with reporting starting in 2013;
- a licensure framework for follow-on biologic products, also known as biosimilars;
- a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research;
- creation of the Independent Payment Advisory Board which, beginning in 2014, will have authority to recommend certain changes to the Medicare program that could result in reduced payments for prescription drugs and those recommendations could have the effect of law even if Congress does not act on the recommendations; and
- establishment of a Center for Medicare Innovation at the Centers for Medicare & Medicaid Services to test innovative payment and service delivery models to lower Medicare and Medicaid spending, potentially including prescription drug spending.

Many of the details regarding the implementation of the PPACA are yet to be determined, and at this time, it remains unclear the full effect that the PPACA would have on our business. The regulations that are ultimately promulgated and their implementation are likely to have considerable impact on the way we conduct our business and may require us to change current strategies.

Individual states have become increasingly aggressive in passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access, and marketing cost disclosure and transparency measures, and designed to encourage importation from other countries and bulk purchasing. Legally-mandated price controls on payment amounts by third-party payors or other restrictions could harm our business, results of operations, financial condition and prospects. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare programs. This could reduce ultimate demand for our products or put pressure on our product pricing, which could negatively affect our business, results of operations, financial condition and prospects.

In addition, given recent federal and state government initiatives directed at lowering the total cost of healthcare, Congress and state legislatures will likely continue to focus on healthcare reform, the cost of prescription drugs and biologics and the reform of the Medicare and Medicaid programs. While we cannot predict the full outcome of any such legislation, it may result in decreased reimbursement for drugs and biologics, which may further exacerbate industry-wide pressure to reduce prescription drug prices. This could harm our ability to generate revenues. In addition, legislation has been introduced in Congress that, if enacted, would permit more widespread importation or re-importation of pharmaceutical products from foreign countries into the United States, including from countries where the products are sold at lower prices than in the United States. Such legislation, or similar regulatory changes, could put competitive pressure on our ability to profitably price our products, which, in turn, could adversely affect our

business, results of operations, financial condition and prospects. Alternatively, in response to legislation such as this, we might elect not to seek approval for or market our products in foreign jurisdictions in order to minimize the risk of re-importation, which could also reduce the revenue we generate from our product sales. It is also possible that other legislative proposals having similar effects will be adopted.

Furthermore, regulatory authorities' assessment of the data and results required to demonstrate safety and efficacy can change over time and can be affected by many factors, such as the emergence of new information, including on other products, changing policies and agency funding, staffing and leadership. We cannot be sure whether future changes to the regulatory environment will be favorable or unfavorable to our business prospects. For example, average review times at the FDA for marketing approval applications have fluctuated over the last ten years, and we cannot predict the review time for any of our submissions with any regulatory authorities. In addition, review times can be affected by a variety of factors, including budget and funding levels and statutory, regulatory and policy changes.

Financial Risks

We have a history of net losses. We expect to continue to incur increasing net losses for the foreseeable future, and we may never achieve or maintain profitability.

We are not profitable and have incurred significant net losses in each year since our inception, including net losses of \$23.3 million, \$18.1 million and \$16.2 million for the years ended December 31, 2012, 2011 and 2010, respectively and a net loss of \$15.0 million for the six months ended June 30, 2013. As of June 30, 2013, we had an accumulated deficit of \$119.8 million. Our losses have resulted principally from costs incurred in our research and development activities. We anticipate that our operating losses will substantially increase over the next several years as we expand our discovery, research and development activities, including the Phase 2 and Phase 3 clinical development of the HyperAcute product candidates and Phase 2 clinical development of indoximod.

Because of the numerous risks and uncertainties associated with biopharmaceutical product development and commercialization, we are unable to accurately predict the timing or amount of future expenses or when, or if, we will be able to achieve or maintain profitability. Currently, we have no products approved for commercial sale, and to date we have not generated any product revenue. We have financed our operations primarily through the sale of equity securities, government grants, economic development loans and capital lease and equipment financing. The size of our future net losses will depend, in part, on the rate of growth or contraction of our expenses and the level and rate of growth, if any, of our revenues. Our ability to achieve profitability is dependent on our ability, alone or with others, to complete the development of our products successfully, obtain the required regulatory approvals, manufacture and market our proposed products successfully or have such products manufactured and marketed by others and gain market acceptance for such products. There can be no assurance as to whether or when we will achieve profitability.

We will require substantial additional capital in the future. If additional capital is not available, we will have to delay, reduce or cease operations.

Development of our HyperAcute product candidates, indoximod and any other product candidates will require substantial additional funds to conduct research, development and clinical trials necessary to bring such product candidates to market and to establish manufacturing, marketing and distribution capabilities. Our future capital requirements will depend on many factors, including, among others:

- the scope, rate of progress, results and costs of our preclinical studies, clinical trials and other research and development activities;
- the scope, rate of progress and costs of our manufacturing development and commercial manufacturing activities;
- the cost, timing and outcomes of regulatory proceedings (including FDA review of any BLA or NDA we file);
- payments required with respect to development milestones we achieve under our in-licensing agreements;
- the costs involved in preparing, filing, prosecuting, maintaining and enforcing patent claims;
- the costs associated with commercializing our product candidates, if they receive regulatory approval;
- the cost and timing of developing our ability to establish sales and marketing capabilities;
- competing technological efforts and market developments;
- changes in our existing research relationships;
- our ability to establish collaborative arrangements to the extent necessary;
- revenues received from any existing or future products; and
- payments received under any future strategic partnerships.

We anticipate that we will continue to generate significant losses for the next several years as we incur expenses to complete our clinical trial programs for our product candidates, build commercial capabilities, develop our pipeline and expand our corporate infrastructure. We believe that our existing cash and cash equivalents and certificates of deposit, including the proceeds from our follow-on public offering that closed on February 4, 2013, will allow us to fund our operating plan through at least the end of 2014. However, our operating plan may change as a result of factors currently unknown to us.

There can be no assurance that our revenue and expense forecasts will prove to be accurate, and any change in the foregoing assumptions could require us to obtain additional financing earlier than anticipated. There is a risk of delay or failure at any stage of developing a product candidate, and the time required and costs involved in successfully accomplishing our objectives cannot be accurately predicted. Actual drug research and development costs could substantially exceed budgeted amounts, which could force us to delay, reduce the scope of or eliminate one or more of our research or development programs.

We are party to license agreements with various parties pursuant to which we have obtained licenses to certain patents, patent applications and other intellectual property related to our product candidates and product development efforts. Pursuant to most of these license agreements, we are obligated to make aggregate payments ranging from approximately \$200,000 to \$2.8 million per license (and in some cases, for each product candidate in such license) upon achievement of development and regulatory approval milestones specified in the applicable license. The timing of our achievement of these events and corresponding milestone payments to our licensors are subject to factors relating to the clinical and regulatory development and commercialization of our product candidates, many of which are beyond our control. We may become obligated to make a milestone payment when we do not have the cash on hand to make such payment, which could require us to delay our clinical trials, curtail our operations, scale back our commercialization or marketing efforts or seek funds to meet these obligations on terms unfavorable to us.

We may never be able to generate a sufficient amount of product revenue to cover our expenses. Until we do, we expect to seek additional funding through public or private equity or debt financings, collaborative relationships, capital lease transactions or other available financing transactions. However, there can be no assurance that additional financing will be available on acceptable terms, if at all, and such financings could be dilutive to existing stockholders. Moreover, in the event that additional funds are obtained through arrangements with collaborative partners, such arrangements may require us to relinquish rights to certain of our technologies, product candidates or products that we would otherwise seek to develop or commercialize ourselves.

If adequate funds are not available, we may be required to delay, reduce the scope of or eliminate one or more of our research or development programs. Our failure to obtain adequate financing when needed and on acceptable terms would have a material adverse effect on our business, financial condition and results of operations.

We have a forgivable loan that may have to be repaid if we do not achieve job creation goals.

In March 2010, we entered into a \$400,000 forgivable loan agreement with the City of Ames, Iowa and the Ames Chamber of Commerce, in order to help finance the construction of new facilities within the Ames city limits. In the absence of a default, there are no principal or interest payments due until the expected completion date for the project, which is March 10, 2015. The project calls for us to create or retain at least 70 full-time jobs located in Ames, Iowa as of March 10, 2012 and to create or retain at least 150 full-time positions located in Ames, Iowa as of March 10, 2015. The agreement also calls for us to enter into a five-year building lease with option for extension for an additional five years of not less than 20,000 square feet within the corporate limits of the City of Ames by March 10, 2015. If, as of March 10, 2015, we have fulfilled the terms of the loan agreement, the loan will be forgiven. If on March 10, 2012 and March 10, 2015, we have failed to create or retain at least 70 full-time jobs and 150 full-time jobs in Ames, Iowa, respectively, we will be required to repay approximately \$3,100 per job not created or retained following the respective date. As of June 30, 2013, we had created or retained an aggregate of 93 full-time jobs in Ames, Iowa, and prior to March 10, 2012, we had created or retained at least 70 full-time jobs in Ames, Iowa. As of June 30, 2013, \$300,000 of the total \$400,000 forgivable loan was advanced to us with the final \$100,000 pending certification to the City of Ames regarding the creation of a threshold level of jobs. In the event of default, including failure to repay any amounts under the loan when due, we will be required to repay the note including 6.5% interest per annum beginning at the date of default.

We have not yet met all the job creation requirements of the City of Ames loan. If we cannot or do not comply with these and all other requirements under this loan, we may be obligated to pay principal and interest on this loan immediately. If we are unable to meet our obligations to service our debt and fund our business, we may be forced to reduce or delay capital expenditures, seek additional debt financing or equity capital, restructure or refinance our debt or sell assets. We cannot assure you that we would be able to obtain additional financing, refinance existing debt or sell assets on satisfactory terms or at all.

Even though we have received governmental support in the past, we may not continue to receive support at the same level or at all.

We have received significant financial assistance from state and local governments, primarily in the form of forgivable loans. There can be no assurance that we will continue to receive the same level of assistance from these or other government agencies, if at all.

Through our subsidiary, BioProtection Systems Corporation, or BPS, we also have ongoing contracts and grants with the United States Department of Defense and National Institutes of Health, respectively. The termination of a United States government grant, contract or relationship as a result of our failure to satisfy any of our obligations under the grants or contracts would have a negative impact on our operations and harm our reputation and ability to procure government contracts. Additionally, there can be no assurance that we will secure comparable contracts with, or grants from, the United States government in the future.

Risks Relating to Competitive Factors

We compete in an industry characterized by extensive research and development efforts and rapid technological progress. New discoveries or commercial developments by our competitors could render our potential products obsolete or non-competitive.

New developments occur and are expected to continue to occur at a rapid pace, and there can be no assurance that discoveries or commercial developments by our competitors will not render some or all of our potential products obsolete or non-competitive, which would have a material adverse effect on our business, financial condition and results of operations.

We expect to compete with fully integrated and well-established pharmaceutical and biotechnology companies in the near and long term. Most of these companies have substantially greater financial, research and development, manufacturing and marketing experience and resources than we do and represent substantial long-term competition for us. Such companies may succeed in discovering and developing pharmaceutical products more rapidly than we do or pharmaceutical products that are safer, more effective or less costly than any that we may develop. Such companies also may be more successful than we are in production and marketing. Smaller companies may also prove to be significant competitors, particularly through collaborative arrangements with large pharmaceutical and established biotechnology companies. Academic institutions, governmental agencies and other public and private research organizations also conduct clinical trials, seek patent protection and establish collaborative arrangements for the development of oncology products.

We will face competition based on product efficacy and safety, the timing and scope of regulatory approvals, availability of supply, marketing and sales capabilities, reimbursement coverage, price and patent position. There can be no assurance that our competitors will not develop safer and more effective products, commercialize products earlier than we do, or obtain patent protection or intellectual property rights that limit our ability to commercialize our products.

There can be no assurance that our issued patents or pending patent applications, if issued, will not be challenged, invalidated or circumvented or that the rights granted thereunder will provide us with proprietary protection or a competitive advantage.

Our competitors may develop and market products that are less expensive, more effective, safer or reach the market sooner than our product candidates, which may diminish or eliminate the commercial success of any products we may commercialize.

The biopharmaceutical industry is highly competitive. There are many public and private biopharmaceutical companies, public and private universities and research organizations actively engaged in the discovery and research and development of products for cancer. Given the significant unmet patient need for new therapies, oncology is an area of focus for large and small companies as well as research institutions. As a result, there are and will likely continue to be extensive research and substantial financial resources invested in the discovery and development of new oncology products. In addition, there are a number of multinational pharmaceutical companies and large biotechnology companies currently marketing or pursuing the development of products or product candidates targeting the same cancer indications as our product candidates, and several large public biopharmaceutical companies have approved or are developing cancer immunotherapy products, including Dendreon Corporation, Bristol-Myers Squibb Company, GlaxoSmithKline plc, Merck & Co., Merck KGaA and Sanofi-Aventis.

There are several marketed products indicated for pancreatic cancer, including Eli Lilly and Company's Gemzar[®], Astellas Pharma's Tarceva[®], Teva Pharmaceutical Industries Limited's streptozocin, and fluorouracil, or 5-FU, and mitomycin which are marketed by several generic pharmaceutical firms. There are numerous marketed therapeutics indicated for NSCLC, including Roche AG's Avastin[®], Eli Lilly's Alimta[®] and Gemzar, Astellas Pharma's Tarceva, AstraZeneca's Iressa[®], and Sanofi-Aventis' Taxotere and Eloxatin, as well as generically available platinum-based chemotherapeutics (cisplatin and carboplatin) and mitotic

inhibitors (paclitaxel and venorelbine). There are also several marketed therapeutics indicated for advanced melanoma, including Merck's Intron A and Novartis/Prometheus Laboratories' Proleukin[®], as well as cisplatin and dacarbazine, which are available generically. Bristol-Myers Squibb's immunotherapy ipilimumab was recently approved by the FDA as was Roche/Daiichi Sankyo's drug, vemurafenid.

In addition, there are a number of companies with active clinical trials ongoing in pancreatic cancer including AB Science SA, Amgen Inc., Astellas Pharma, BioSante Pharmaceuticals, Inc., Celgene Corporation, Immunomedics, Inc., Lorus Therapeutics Inc., Sanofi-Aventis and Threshold Pharmaceuticals, Inc., a number of companies with active clinical trials ongoing in NSCLC, including Abbott Laboratories, Amgen, Bristol-Myers Squibb, Boehringer Ingelheim, BioNumerik Pharmaceuticals, Inc., Celgene, GlaxoSmithKline, NovaRx Corporation, Onyx Pharmaceuticals, Inc., Pfizer Inc. and Regeneron Pharmaceuticals, Inc., and a number of companies with active clinical trials ongoing in advanced melanoma, including Amgen, Astellas Pharma, Eli Lilly, Onyx, Roche, Synta Pharmaceuticals Corp., and Vical Inc. among other companies.

Many of our competitors, either alone or with their strategic partners, have substantially greater financial, technical and human resources than we do and significantly greater experience in the discovery and development of drugs, obtaining FDA and other regulatory approvals, and the commercialization of those products. Accordingly, our competitors may be more successful in obtaining approval for drugs and achieving widespread market acceptance. Our competitors' drugs may be more effective, or more effectively marketed and sold, than any drug we may commercialize and may render our product candidates obsolete or non-competitive before we can recover the significant expenses of developing and commercializing any of our product candidates. We anticipate that we will face intense and increasing competition as new drugs enter the market and advanced technologies become available.

There are many different approaches to using immunotherapies to treat cancer, including anti-idiotypic, whole cell, DNA, peptide/antigen, viral, tumor lysate, shed antigens, and dendritic cell. Cancer immunotherapies are also distinguished by whether or not they are derived from autologous or allogeneic sources. Each of the various approaches to cancer immunotherapy have potential advantages and disadvantages based on factors such as their immunostimulatory mechanisms, formulation characteristics, manufacturing requirements, and treatment regimens.

We also compete with other clinical-stage companies and institutions for clinical trial participants, which could reduce our ability to recruit participants for our clinical trials. Delay in recruiting clinical trial participants could adversely affect our ability to bring a product to market prior to our competitors. Further, research and discoveries by others may result in breakthroughs that render our HyperAcute product candidates, indoximod or our other potential products obsolete even before they begin to generate any revenue.

In addition, our competitors may obtain patent protection or FDA approval and commercialize products more rapidly than we do, which may impact future sales of any of our products that receive marketing approval. If the FDA approves the commercial sale of any of our products, we will also be competing with respect to marketing capabilities and manufacturing efficiency, areas in which we have limited or no experience. We expect that competition among products approved for sale will be based, among other things, on product efficacy, price, safety, reliability, availability, patent protection, and sales, marketing and distribution capabilities. Our profitability and financial position will suffer if our products receive regulatory approval, but cannot compete effectively in the marketplace.

If any of our product candidates are approved and commercialized, we may face competition from generic products if the product candidate is a small molecule drug, or biosimilars if the product candidate is a biologic. The route to market for generic versions of small molecule drugs was established with the passage of the Hatch-Waxman Amendments in 1984 and for biosimilars with the passage of the PPACA in March 2010. The PPACA establishes a pathway for the FDA approval of follow-on biologics and provides 12 years of marketing exclusivity for reference products and an additional six months of exclusivity if pediatric studies are conducted. In Europe, the European Medicines Agency has issued guidelines for approving products through an abbreviated pathway, and biosimilars have been approved in Europe. If a biosimilar version of one of our potential products were approved in the United States or Europe, it could have a negative effect on sales and gross profits of the potential product and our financial condition.

Our biodefense product candidates face significant competition for United States government funding for both development and procurement of medical countermeasures for biological, chemical and nuclear threats, diagnostic testing systems and other emergency preparedness countermeasures. Competitors include Emergent BioSolutions, SIGA Technologies, AVI Biopharma, Pharmathene, Acambis, Bavarian Nordic AS, and Novartis. Academic institutions, government agencies, private research organizations and public research organizations are also conducting research and filing patents toward commercialization of products. In addition, we may not be able to compete effectively if our product candidates do not satisfy government procurement requirements with respect to biodefense products.

Our products may not be accepted in the marketplace; therefore, we may not be able to generate significant revenue, if any.

Even if the HyperAcute product candidates, indoximod or any of our other potential products are approved for sale, physicians and the medical community may not ultimately use them or may use them only in applications more restricted than we expect. Our products, if successfully developed, will compete with a number of traditional products and immunotherapies manufactured and marketed by major pharmaceutical and other biotechnology companies. Our products will also compete with new products currently under development by such companies and others. Physicians will prescribe a product only if they determine, based on experience, clinical data, side effect profiles and other factors, that it is beneficial as compared to other products currently in use. Many other factors influence the adoption of new products, including marketing and distribution restrictions, course of treatment, adverse publicity, product pricing, the views of thought leaders in the medical community and reimbursement by government and private third party payors.

Risks Relating to Our Arrangements with Third Parties

We rely on third parties to conduct our preclinical studies and our clinical trials. If these third parties do not perform as contractually required or expected, we may not be able to obtain regulatory approval for our product candidates, or we may be delayed in doing so.

We do not have the ability to conduct preclinical studies or clinical trials independently for our product candidates. We must rely on third parties, such as contract research organizations, medical institutions, academic institutions, clinical investigators and contract laboratories, to conduct our preclinical studies and clinical trials. We are responsible for confirming that our preclinical studies are conducted in accordance with applicable regulations and that each of our clinical trials is conducted in accordance with its general investigational plan and protocol. The FDA requires us to comply with GLP for conducting and recording the results of our preclinical studies and cGCP for conducting, monitoring, recording and reporting the results of clinical trials, to assure that data and reported results are accurate and that the clinical trial participants are adequately protected. Our reliance on third parties does not relieve us of these responsibilities. If the third parties conducting our clinical trials do not perform their contractual duties or obligations, do not meet expected deadlines, fail to comply with cGCP, do not adhere to our clinical trial protocols or otherwise fail to generate reliable clinical data, we may need to enter into new arrangements with alternative third parties and our clinical trials may be more costly than expected or budgeted, extended, delayed or terminated or may need to be repeated, and we may not be able to obtain regulatory approval for or commercialize the product candidate being tested in such trials.

Further, if our contract manufacturers are not in compliance with regulatory requirements at any stage, including post-marketing approval, we may be fined, forced to remove a product from the market and/or experience other adverse consequences, including delays, which could materially harm our business.

If we fail to enter into any needed collaboration agreements for our product candidates, we may be unable to commercialize them effectively or at all.

To successfully commercialize the HyperAcute product candidates or indoximod, we will need substantial financial resources as well as expertise and physical resources and systems. We may elect to develop some or all of these physical resources and systems and expertise ourselves or we may seek to collaborate with another company that can provide some or all of such physical resources and systems as well as financial resources and expertise. Such collaborations are complex and any potential discussions may not result in a definitive agreement for many reasons. For example, whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration, and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of our clinical trials, the potential market for the HyperAcute product candidates and indoximod, the costs and complexities of manufacturing and delivering the HyperAcute product candidates and indoximod to patients, the potential of competing products, the existence of uncertainty with respect to ownership or the coverage of our technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge and industry and market conditions generally. If we were to determine that a collaboration for the HyperAcute product candidates or indoximod is necessary and were unable to enter into such a collaboration on acceptable terms, we might elect to delay or scale back the commercialization of the HyperAcute product candidates or indoximod in order to preserve our financial resources or to allow us adequate time to develop the required physical resources and systems and expertise ourselves.

If we enter into a collaboration agreement we consider acceptable, the collaboration may not proceed as quickly, smoothly or successfully as we plan. The risks in a collaboration agreement include the following:

- the collaborator may not apply the expected financial resources, efforts or required expertise in developing the physical resources and systems necessary to successfully commercialize the HyperAcute product candidates or indoximod;
- the collaborator may not invest in the development of a sales and marketing force and the related infrastructure at levels that ensure that sales of the HyperAcute product candidates or indoximod reach their full potential;
- disputes may arise between us and a collaborator that delay the commercialization or adversely affect its sales or profitability of the HyperAcute product candidates or indoximod; or
- the collaborator may independently develop, or develop with third parties, products that could compete with the HyperAcute product candidates or indoximod.

If we enter into one or more collaborations for our HyperAcute product candidates, indoximod or any of our other product candidates, we will be dependent on our collaborators' performance of their responsibilities and their cooperation with us. Our collaborators may not perform their obligations under our agreements with them or otherwise cooperate with us. We cannot control whether our collaborators will devote the necessary resources to the activities contemplated by our collaborative agreements, nor can we control the timing of their performance. Our collaborators may choose to pursue existing or alternative technologies in preference to those being developed in collaboration with us. Disputes may arise between us and our collaborators that delay the development and commercialization of our product candidates that are difficult and costly to resolve, or may not be resolved. In addition, a collaborator for the HyperAcute product candidates or indoximod may have the right to terminate the collaboration at its discretion. Any termination may require us to seek a new collaborator, which we may not be able to do on a timely basis, if at all, or require us to delay or scale back the commercialization efforts. The occurrence of any of these events could adversely affect the commercialization of the HyperAcute product candidates or indoximod and materially harm our business and stock price by delaying the sale of any product that may be approved by the FDA, by slowing the growth of such sales, by reducing the profitability of the product and/or by adversely affecting the reputation of the product.

We rely on a single manufacturer for a key component used in the manufacture of our HyperAcute immunotherapy product candidates, which could impair our ability to manufacture and supply our products.

The manufacturing process for our HyperAcute immunotherapy product candidates has one component that we obtain from a single manufacturer. If we utilize an alternative manufacturer, we may be required to demonstrate comparability of the drug product before releasing the product for clinical use. The loss of our current supplier could result in manufacturing delays for the component substitution, and we may need to accept changes in terms or price from our existing supplier in order to avoid such delays.

We may explore strategic partnerships that may never materialize or may fail.

We may, in the future, periodically explore a variety of possible strategic partnerships in an effort to gain access to additional product candidates or resources. At the current time, we cannot predict what form such a strategic partnership might take. We are likely to face significant competition in seeking appropriate strategic partners, and these strategic partnerships can be complicated and time consuming to negotiate and document. We may not be able to negotiate strategic partnerships on acceptable terms, or at all. We are unable to predict when, if ever, we will enter into any additional strategic partnerships because of the numerous risks and uncertainties associated with establishing strategic partnerships.

If we enter into one or more strategic partnerships, we may be required to relinquish important rights to and control over the development of our product candidates or otherwise be subject to unfavorable terms.

Any future strategic partnerships we enter into could subject us to a number of risks, including:

- we may be required to undertake the expenditure of substantial operational, financial and management resources;
- we may be required to issue equity securities that would dilute our existing stockholders' percentage ownership;
- we may be required to assume substantial actual or contingent liabilities;
- we may not be able to control the amount and timing of resources that our strategic partners devote to the development or commercialization of our product candidates;
- strategic partners may delay clinical trials, provide insufficient funding, terminate a clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new version of a product candidate for clinical testing;
- strategic partners may not pursue further development and commercialization of products resulting from the strategic partnering arrangement or may elect to discontinue research and development programs;
- strategic partners may not commit adequate resources to the marketing and distribution of our product candidates, limiting our potential revenues from these products;

- disputes may arise between us and our strategic partners that result in the delay or termination of the research, development or commercialization of our product candidates or that result in costly litigation or arbitration that diverts management's attention and consumes resources;
- strategic partners may experience financial difficulties;
- strategic partners may not properly maintain or defend our intellectual property rights or may use our proprietary information in a manner that could jeopardize or invalidate our proprietary information or expose us to potential litigation;
- business combinations or significant changes in a strategic partner's business strategy may also adversely affect a strategic partner's willingness or ability to complete its obligations under any arrangement;
- strategic partners could decide to move forward with a competing product candidate developed either independently or in collaboration with others, including our competitors; and
- strategic partners could terminate the arrangement or allow it to expire, which would delay the development and may increase the cost of developing our product candidates.

Risks Relating to Protecting Our Intellectual Property

If we are unable to protect our proprietary rights or to defend against infringement claims, we may not be able to compete effectively or operate profitably.

Our success will depend, in part, on our ability to obtain patents, operate without infringing the proprietary rights of others and maintain trade secrets, both in the United States and other countries. Patent matters in the biotechnology and pharmaceutical industries can be highly uncertain and involve complex legal and factual questions. Accordingly, the validity, breadth, and enforceability of our patents and the existence of potentially blocking patent rights of others cannot be predicted, either in the United States or in other countries.

There can be no assurance that we will discover or develop patentable products or processes or that patents will issue from any of the currently pending patent applications or that claims granted on issued patents will be sufficient to protect our technology or adequately cover the actual products we may actually sell. Potential competitors or other researchers in the field may have filed patent applications, been issued patents, published articles or otherwise created prior art that could restrict or block our efforts to obtain additional patents. There also can be no assurance that our issued patents or pending patent applications, if issued, will not be challenged, invalidated, rendered unenforceable or circumvented or that the rights granted hereunder will provide us with proprietary protection or competitive advantages. Our patent rights also depend on our compliance with technology and patent licenses upon which our patent rights are based and upon the validity of assignments of patent rights from consultants and other inventors that were, or are, not employed by us.

In addition, competitors may manufacture and sell our potential products in those foreign countries where we have not filed for patent protection or where patent protection may be unavailable, not obtainable or ultimately not enforceable. In addition, even where patent protection is obtained, third party competitors may challenge our patent claims in the various patent offices, for example via opposition in the European Patent Office or reexamination or interference proceedings in the United States Patent and Trademark Office, or USPTO. The ability of such competitors to sell such products in the United States or in foreign countries where we have obtained patents is usually governed by the patent laws of the countries in which the product is sold.

We will incur significant ongoing expenses in maintaining our patent portfolio. Should we lack the funds to maintain our patent portfolio or to enforce our rights against infringers, we could be adversely impacted. Even if claims of infringement are without merit, any such action could divert the time and attention of management and impair our ability to access additional capital and/or cost us significant funds to defend.

Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents.

On September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to United States patent law. These include provisions that affect the way patent applications will be prosecuted and may also affect patent litigation. The United States Patent and Trademark Office has developed regulations and procedures to govern administration of the Leahy-Smith Act, but many of the substantive changes to patent law associated with the Leahy-Smith Act, particularly the first inventor to file provisions, only became effective 18 months after its enactment. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business and financial condition.

We may be subject to litigation with respect to the ownership and use of intellectual property that will be costly to defend or pursue and uncertain in its outcome.

Our success also will depend, in part, on our refraining from infringing patents or otherwise violating intellectual property owned or controlled by others. Pharmaceutical companies, biotechnology companies, universities, research institutions, and others may have filed patent applications or have received, or may obtain, issued patents in the United States or elsewhere relating to aspects of our technology. It is uncertain whether the issuance of any third-party patents will require us to alter our products or processes, obtain licenses, or cease certain activities. Some third-party applications or patents may conflict with our issued patents or pending applications. Any such conflict could result in a significant reduction of the scope or value of our issued or licensed patents.

In addition, if patents issued to other companies contain blocking, dominating or conflicting claims and such claims are ultimately determined to be valid, we may be required to obtain licenses to these patents or to develop or obtain alternative non-infringing technology and cease practicing those activities, including potentially manufacturing or selling any products deemed to infringe those patents. If any licenses are required, there can be no assurance that we will be able to obtain any such licenses on commercially favorable terms, if at all, and if these licenses are not obtained, we might be prevented from pursuing the development and commercialization of certain of our potential products. Our failure to obtain a license to any technology that we may require to commercialize our products on favorable terms may have a material adverse impact on our business, financial condition and results of operations.

Litigation, which could result in substantial costs to us (even if determined in our favor), may also be necessary to enforce any patents issued or licensed to us or to determine the scope and validity of the proprietary rights of others. Under the Abbreviated New Drug Application provisions of U.S. law, after four years from the date marketing approval is granted to us by the FDA for a patented drug, a generic drug company may submit an Abbreviated New Drug Application to the FDA to obtain approval to market in the United States a generic version of the drug patented by us. If approval were given to the generic drug company, we would be required to promptly initiate patent litigation to prevent the marketing of such generic version prior to the normal expiration of the patent. There can be no assurance that our issued or licensed patents would be held valid by a court of competent jurisdiction or that any generic drug would be found to infringe our patents.

In addition, if our competitors file patent applications in the United States that claim technology also claimed by us, we may have to participate in interference proceedings to determine priority of invention. These proceedings, if initiated by the USPTO, could result in substantial cost to us, even if the eventual outcome is favorable to us. Such proceedings can be lengthy, are costly to defend and involve complex questions of law and fact the outcomes of which are difficult to predict. An adverse outcome with respect to a third party claim or in an interference proceeding could subject us to significant liabilities, require us to license disputed rights from third parties, or require us to cease using such technology, any of which could have a material adverse effect on our business, financial condition and results of operations.

We also rely on trade secrets to protect technology, especially where patent protection is not believed to be appropriate or obtainable or where patents have not issued. We attempt to protect our proprietary technology and processes, in part, with confidentiality agreements and assignment of invention agreements with our employees and confidentiality agreements with our consultants and certain contractors. There can be no assurance that these agreements will not be breached, that we would have adequate remedies for any breach, or that our trade secrets will not otherwise become known or be independently discovered by competitors. We may fail in certain circumstances to obtain the necessary confidentiality agreements, or their scope or term may not be sufficiently broad to protect our interests.

If our trade secrets or other intellectual property become known to our competitors, it could result in a material adverse effect on our business, financial condition and results of operations. To the extent that we or our consultants or research collaborators use intellectual property owned by others in work for us, disputes may also arise as to the rights to related or resulting know-how and inventions.

Risks Relating to Our Exposure to Litigation

We are exposed to potential product liability or similar claims, and insurance against these claims may not be available to us at a reasonable rate in the future.

Our business exposes us to potential liability risks that are inherent in the testing, manufacturing and marketing of human therapeutic products. Clinical trials involve the testing of product candidates on human subjects or volunteers under a research plan, and carry a risk of liability for personal injury or death to patients due to unforeseen adverse side effects, improper

administration of the product candidate, or other factors. Many of these patients are already seriously ill and are therefore particularly vulnerable to further illness or death.

We currently carry clinical trial liability insurance in the amount of \$5 million in the aggregate, but there can be no assurance that we will be able to maintain such insurance or that the amount of such insurance will be adequate to cover claims. We could be materially and adversely affected if we were required to pay damages or incur defense costs in connection with a claim outside the scope of indemnity or insurance coverage, if the indemnity is not performed or enforced in accordance with its terms, or if our liability exceeds the amount of applicable insurance. In addition, there can be no assurance that insurance will continue to be available on terms acceptable to us, if at all, or that if obtained, the insurance coverage will be sufficient to cover any potential claims or liabilities. Similar risks would exist upon the commercialization or marketing of any products by us or our partners.

Regardless of their merit or eventual outcome, product liability claims may result in:

- decreased demand for our product;
- injury to our reputation and significant negative media attention;
- withdrawal of clinical trial volunteers;
- costs of litigation;
- distraction of management; and
- substantial monetary awards to plaintiffs.

We may become involved in securities class action litigation that could divert management's attention and adversely affect our business and could subject us to significant liabilities.

The stock markets have from time to time experienced significant price and volume fluctuations that have affected the market prices for the common stock of biopharmaceutical companies. These broad market fluctuations as well as a broad range of other factors, including the realization of any of the risks described in this "Risk Factor," section of this Quarterly Report on Form 10-Q, may cause the market price of our common stock to decline. In the past, securities class action litigation has often been brought against a company following a decline in the market price of its securities. This risk is especially relevant for us because biotechnology and pharmaceutical companies generally experience significant stock price volatility. We may become involved in this type of litigation in the future. Litigation often is expensive and diverts management's attention and resources, which could adversely affect our business. Any adverse determination in any such litigation or any amounts paid to settle any such actual or threatened litigation could require that we make significant payments.

Risks Related to Ownership of Our Common Stock

The market price of our common stock may be highly volatile, and could decline significantly.

The trading price of our common stock is likely to be highly volatile and could be subject to wide fluctuations in price in response to various factors, many of which are beyond our control, including those described elsewhere in this "Risk Factors" section of this Quarterly Report on Form 10-Q and the following:

- new products, product candidates or new uses for existing products introduced or announced by our strategic partners, or our competitors, and the timing of these introductions or announcements;
- actual or anticipated results from and any delays in our clinical trials, including our Phase 3 clinical trial of our HyperAcute Pancreas product candidate, as well as results of regulatory reviews relating to the approval of our product candidates;
- variations in the level of expenses related to any of our product candidates or clinical development programs, including relating to the timing of invoices from, and other billing practices of, our clinical research organizations and clinical trial sites;
- the results of our efforts to discover, develop, acquire or in-license additional product candidates or products;
- disputes or other developments relating to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our technologies;
- announcements by us or our competitors of significant acquisitions, strategic partnerships, joint ventures and capital commitments;
- additions or departures of key scientific or management personnel;
- conditions or trends in the biotechnology and biopharmaceutical industries;
- actual or anticipated changes in earnings estimates, development timelines or recommendations by securities analysts; actual and anticipated fluctuations in our quarterly operating results;

- the financial projections we may provide to the public, any changes in these projections or our failure to meet these projections;
- deviations from securities analysts' estimates or the impact of other analyst ratings downgrades by any securities analysts who follow our common stock;
- other events or factors, including those resulting from war, incidents of terrorism, natural disasters or responses to these events;
- changes in accounting principles;
- discussion of us or our stock price by the financial and scientific press and in online investor communities;
- general economic and market conditions and other factors that may be unrelated to our operating performance or the operating performance of our competitors, including changes in market valuations of similar companies; and
- sales of common stock by us or our stockholders in the future, as well as the overall trading volume of our common stock.

In addition, the stock market in general and the market for biotechnology and biopharmaceutical companies in particular have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. These broad market and industry factors may seriously harm the market price of our common stock, regardless of our operating performance. In the past, following periods of volatility in the market, securities class-action litigation has often been instituted against companies. Such litigation, if instituted against us, could result in substantial costs and diversion of management's attention and resources, which could materially and adversely affect our business and financial condition.

Our principal stockholders and management own a significant percentage of our stock and will be able to exercise significant influence over matters subject to stockholder approval.

As of June 30, 2013, our executive officers, directors and principal stockholders, together with their respective affiliates, owned approximately 44.2% of our common stock, including shares subject to outstanding options and warrants that are exercisable within 60 days after June 30, 2013. These stockholders will be able to exert a significant degree of influence over our management and affairs and over matters requiring stockholder approval, including the election of our Board of Directors, future issuances of our common stock or other securities, declarations of dividends on our common stock and approval of other significant corporate transactions. This concentration of ownership could have the effect of delaying or preventing a change in our control or otherwise discouraging a potential acquirer from attempting to obtain control of us, which in turn could have a material and adverse effect on the fair market value of our common stock. In addition, sales of shares beneficially owned by executive officers and directors and their affiliates could be viewed negatively by third parties and have a negative impact on our stock price. Moreover, we cannot assure you as to how these shares may be distributed and subsequently voted.

A significant portion of our total outstanding shares of common stock is restricted from immediate resale but may be sold into the market in the near future. This could cause the market price of our common stock to drop significantly, even if our business is doing well.

Sales of a substantial number of shares of our common stock in the public market could occur in the future. These sales, or the perception in the market that the holders of a large number of shares of common stock intend to sell shares, could reduce the market price of our common stock. Certain holders of outstanding shares of our common stock that have rights, subject to some conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other stockholders.

We incur significant costs as a result of operating as a public company, and our management is required to devote substantial time to meet compliance obligations.

As a public company, we incur significant legal, accounting and other expenses to comply with reporting requirements of the Securities Exchange Act of 1934, or the Exchange Act, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and The NASDAQ Stock Market, or NASDAQ. Meeting the requirements of these rules and regulations entails significant legal and financial compliance costs, makes some activities more difficult, time-consuming or costly and may also place undue strain on our personnel, systems and resources. Our management and other personnel devote a substantial amount of time to these compliance requirements. In addition, these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. As a result, it may be more difficult for us to attract and retain qualified people to serve on our Board of Directors, our board committees or as executive officers.

Failure to achieve and maintain effective internal controls in accordance with Section 404 of the Sarbanes-Oxley Act could have a material adverse effect on our ability to produce accurate financial statements and on our stock price.

Pursuant to Section 404 of the Sarbanes-Oxley Act of 2002, we are required to publish a report by our management on our internal control over financial reporting. The internal control report must contain (a) a statement of management's responsibility for establishing and maintaining adequate internal control over financial reporting, (b) a statement identifying the framework used by management to conduct the required evaluation of the effectiveness of our internal control over financial reporting, (c) management's assessment of the effectiveness of our internal control over financial reporting as of the end of our most recent fiscal year, including a statement as to whether or not internal control over financial reporting is effective, and (d) a statement that our independent registered public accounting firm has issued an attestation report on internal control over financial reporting.

To achieve compliance with Section 404, we have engaged in a process to document and evaluate our internal control over financial reporting, which has been both costly and challenging. To maintain compliance on an ongoing basis, we will need to dedicate internal resources, engage outside consultants and adopt a detailed work plan to (a) assess and document the adequacy of internal control over financial reporting, (b) take steps to improve control processes where appropriate, (c) validate through testing that controls are functioning as documented, and (d) implement a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, we can provide no assurance as to our, or our independent registered public accounting firm's, conclusions with respect to the effectiveness of our internal control over financial reporting under Section 404. There is a risk that neither we nor our independent registered public accounting firm will be able to conclude that our internal control over financial reporting is effective as required by Section 404. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements.

We do not expect to pay any cash dividends for the foreseeable future. Investors may never obtain a return on their investment.

You should not rely on an investment in our common stock to provide dividend income. We do not anticipate that we will pay any cash dividends to holders of our common stock in the foreseeable future. Instead, we plan to retain any earnings to maintain and expand our existing operations. In addition, our ability to pay cash dividends is currently prohibited by the terms of one of our debt financing arrangements, and any future debt financing arrangement may contain terms prohibiting or limiting the amount of dividends that may be declared or paid on our common stock. Accordingly, investors must rely on sales of their common stock after price appreciation, which may never occur, as the only way to realize any return on their investment. As a result, investors seeking cash dividends should not purchase our common stock.

Provisions in our certificate of incorporation, our by-laws or Delaware law might discourage, delay or prevent a change in control of our company or changes in our management and, therefore, depress the trading price of our common stock.

Provisions of our certificate of incorporation, our by-laws or Delaware law may have the effect of deterring unsolicited takeovers or delaying or preventing a change in control of our company or changes in our management, including transactions in which our stockholders might otherwise receive a premium for their shares over then current market prices. In addition, these provisions may limit the ability of stockholders to approve transactions that they may deem to be in their best interest. These provisions include:

- the division of our Board of Directors into three classes with staggered, three-year terms;
- advance notice requirements for stockholder proposals and nominations;
- the inability of stockholders to act by written consent or to call special meetings;
- limitation on the ability of stockholders to remove directors or amend our by-laws; and
- the ability of our Board of Directors to designate the terms of and issue new series of preferred stock without stockholder approval, which could include the right to approve an acquisition or other change in our control or could be used to institute a rights plan, also known as a poison pill, that would work to dilute the stock ownership of a potential hostile acquirer, likely preventing acquisitions that have not been approved by our Board of Directors.

In addition, Section 203 of the Delaware General Corporation Law prohibits a publicly-held Delaware corporation from engaging in a business combination with an interested stockholder, generally a person which together with its affiliates owns, or within the last three years has owned, 15% of our voting stock, for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner.

The existence of the foregoing provisions and anti-takeover measures could limit the price that investors might be willing to pay in the future for shares of our common stock. They could also deter potential acquirers of our company, thereby reducing the likelihood that you could receive a premium for your common stock in an acquisition.

Our stockholders may be diluted, and the prices of our securities may decrease, by the exercise of outstanding stock options and warrants or by future issuances of securities by us.

We may issue additional common stock, preferred stock, restricted stock units, or securities convertible into or exchangeable for our common stock. Furthermore, substantially all shares of common stock for which our outstanding stock options or warrants are exercisable are, once they have been purchased, eligible for immediate sale in the public market. The issuance of additional common stock, preferred stock, restricted stock units, or securities convertible into or exchangeable for our common stock or the exercise of stock options or warrants would dilute existing investors and could adversely affect the price of our securities. In addition, such securities may have rights senior to the rights of securities held by existing investors.

Our ability to use our net operating loss carryforwards and certain other tax attributes is limited by Sections 382 and 383 of the Internal Revenue Code.

Sections 382 and 383 of the Internal Revenue Code limit a corporation's ability to utilize its net operating loss carryforwards and certain other tax attributes (including research credits) to offset any future taxable income or tax if the corporation experiences a cumulative ownership change of more than 50% over any rolling three year period. State net operating loss carryforwards (and certain other tax attributes) may be similarly limited. A Section 382 ownership change can therefore result in significantly greater tax liabilities than a corporation would incur in the absence of such a change and any increased liabilities could adversely affect the corporation's business, results of operations, financial condition and cash flow.

Based on Section 382 ownership change analyses, we believe that, from its inception through December 31, 2011, NewLink experienced Section 382 ownership changes in September 2001 and March 2003 and our subsidiary experienced Section 382 ownership changes in January 2006 and January 2011. These ownership changes limit NewLink's ability to utilize federal net operating loss carryforwards (and certain other tax attributes) that accrued prior to the respective ownership changes of NewLink and our subsidiary.

Additional analysis will be required to determine whether changes in our ownership since December 31, 2011 and/or changes in our ownership that resulted from our follow-on offering have caused or will cause another ownership change to occur, and the conclusions will depend on information that currently may not be available to us. Any such change could result in significant limitations on all of our net operating loss carryforwards and other tax attributes.

Additional ownership changes may occur in the future as a result of events over which we will have little or no control, including purchases and sales of our equity by our 5% stockholders, the emergence of new 5% stockholders, additional equity offerings or redemptions of our stock or certain changes in the ownership of any of our 5% stockholders.

Accounting pronouncements may impact our reported results of operations and financial position.

United States generally accepted accounting principles, or GAAP, and related implementation guidelines and interpretations can be highly complex and involve subjective judgments. Changes in these rules or their interpretation, the adoption of new pronouncements or the application of existing pronouncements to changes in our business could significantly alter our reported financial statements and results of operations.

If securities or industry analysts do not publish research or publish inaccurate or unfavorable research about our business, our stock price and trading volume could decline.

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business. If no securities or industry analysts commence coverage of our company, the trading price for our stock would be negatively impacted. If we obtain securities or industry analyst coverage and if one or more of the analysts who covers us downgrades our stock, publishes inaccurate or unfavorable research about our business, our stock price would likely decline. If one or more of these analysts ceases coverage of us or fails to publish reports on us regularly, demand for our stock could decrease, which could cause our stock price and trading volume to decline.

We began implementation of a new accounting system in the second quarter of 2013, and we may experience unforeseen difficulties or delays in implementing the new system.

We began implementation of a new accounting system in the second quarter of 2013 and expect it to be implemented for financial reporting purposes by the end of the third quarter. If we encounter unforeseen difficulties in implementing the system, we could experience delays in financial reporting, weaknesses in our internal controls or unanticipated expenses.

ITEM 1. LEGAL PROCEEDINGS

None.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Recent Sales of Unregistered Securities

None.

Use of Proceeds

On November 16, 2011, we completed our initial public offering, or IPO, raising a total of \$37.6 million in net proceeds after deducting underwriting discounts and commissions of \$3.0 million and offering expenses of \$2.9 million.

As of June 30, 2013, we had invested the net proceeds from the IPO in cash equivalents, including money market funds, treasury bills and certificates of deposit. We intend to invest these funds in the future in short- and intermediate-term, interest-bearing obligations, investment-grade instruments, certificates of deposit or direct or guaranteed obligations of the U.S. government in accordance with our investment policy. Through June 30, 2013, we have used approximately \$31.8 million of the net proceeds from the initial public offering to fund our Phase 3 clinical trial and related development activities for HyperAcute Pancreas, clinical and related development activities for our other HyperAcute immunotherapy and IDO pathway inhibitor product candidates, other research and development activities and other working capital expenditures and general corporate purposes. There has been no material change in our planned use of the net proceeds from the IPO as described in the final prospectus for the offering filed with the SEC pursuant to Rule 424(b).

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. REMOVED

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

The exhibits listed in the Index to Exhibits (following the signatures page of this Quarterly Report) are filed with, or incorporated by reference in, this Quarterly Report.

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.

NEWLINK GENETICS CORPORATION

By: /s/ Charles J. Link, Jr.

Charles J. Link, Jr.

Chief Executive Officer

(Principal Executive Officer)

Date: August 8, 2013

By: /s/ Gordon H. Link, Jr.

Gordon H. Link, Jr.

Chief Financial Officer and Secretary

(Principal Financial and Accounting Officer)

Date: August 8, 2013

The following exhibits are filed with this form 10-Q or incorporated herein by reference to the document set forth next to the exhibit listed below. Where so indicated, exhibits that were previously filed are incorporated by reference.

| Exhibit Number | Description | Incorporated By Reference | | | Filed Herewith |
|----------------|---|---------------------------|-------------|---------|----------------|
| | | Form | Filing Date | Number | |
| 3.1 | Amended and Restated Certificate of Incorporation filed on November 16, 2011 | 8-K | 11/18/2011 | 3.1 | |
| 3.2 | Amended and Restated Bylaws | 8-K | 11/18/2011 | 3.2 | |
| 4.1 | Form of the Registrant's Common Stock Certificate | S-1/A | 10/26/2011 | 4.1 | |
| 4.2 | Reference is made to Exhibits 3.1 and 3.2 | 8-K | 11/18/2011 | 3.1,3.2 | |
| 4.3 | Amended and Restated Investor Rights Agreement by and between the Company and certain holders of the Company's capital stock dated as of December 1, 2010 | 10-Q | 5/10/2012 | 4.3 | |
| 10.1 | Story Construction Contract | | | | X |
| 10.2 | Memorandum of Agreement; Addendum to the Lease Between ISU Research Park Corporation and NewLink Genetics Corporation Dated March 1, 2010 | | | | X |
| 10.3 | 2010 Non-Employee Directors' Stock Award Plan, as amended | 8-K | 5/14/2013 | 10.1 | |
| 10.4 | 2010 Employee Stock Purchase Plan, as amended | 8-K | 5/14/2013 | 10.2 | |
| 10.5 | 2013 Target Bonus Awards | 8-K | 4/5/2013 | 10.1 | |
| 31.1 | Certification of principal executive officer required by Rule 13a-14(a) / 15d-14(a) | | | | X |
| 31.2 | Certification of principal financial officer required by Rule 13a-14(a) / 15d-14(a) | | | | X |
| 32.1 | # Section 1350 Certification | | | | X |
| 101.INS | ‡ XBRL Instance Document | | | | X |
| 101.SCH | ‡ XBRL Taxonomy Extension Schema Document (furnished electronically herewith) | | | | X |
| 101.CAL | ‡ XBRL Taxonomy Extension Calculation Linkbase Document | | | | X |
| 101.DEF | ‡ XBRL Taxonomy Extension Definition Linkbase Document | | | | X |
| 101.LAB | ‡ XBRL Taxonomy Extension Label Linkbase Document | | | | X |
| 101.PRE | ‡ XBRL Taxonomy Extension Presentation Linkbase Document | | | | X |

The certifications 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 NewLink Genetics Corporation 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.

‡ XBRL (Extensible Business Reporting Language) information is furnished and not filed or a part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, as amended, is deemed not filed for purposes of section 18 of the Securities Exchange Act of 1934, as amended, and otherwise is not subject to liability under these sections.



CONSENSUSDOCS 415

STANDARD DESIGN-BUILD AGREEMENT AND GENERAL CONDITIONS BETWEEN OWNER AND DESIGN-BUILDER

(Where the Basis of Payment is a Lump Sum Based on an Owner's Program Including Schematic Design Documents)

This document was developed through a collaborative effort of organizations representing a wide cross-section of the design and construction industry. The organizations endorsing this document believe it represents a fair allocation of risk and responsibilities for all project participants.

Endorsing organizations recognize that this document must be reviewed and adapted to meet specific needs and applicable laws. This document has important legal and insurance consequences. You are encouraged to consult legal, insurance and surety advisors before completing or modifying this document. The software includes a notes section indicating where information is to be inserted to complete this document. Further information and endorsing organizations' perspectives are available at www.consensusdocs.org/guidebook.

TABLE OF ARTICLES

1. AGREEMENT
2. GENERAL PROVISIONS
3. DESIGN-BUILDER'S RESPONSIBILITIES
4. OWNER'S RESPONSIBILITIES
5. SUBCONTRACTS
6. CONTRACT TIME

IMPORTANT: A vertical line in the margin indicates a change has been made to the original text. Prior to signing, recipients may wish to request from the party producing the document a "redlined" version indicating changes to the original text. Consultation with legal and insurance counsel and careful review of the entire document are strongly encouraged.

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7. CONTRACT PRICE
8. CHANGES IN THE WORK
9. PAYMENT
10. INDEMNITY, INSURANCE, BONDS, AND WAIVER OF SUBROGATION
11. SUSPENSION AND TERMINATION OF THE AGREEMENT AND OWNER'S RIGHT TO PERFORM DESIGN-BUILDER'S RESPONSIBILITIES
12. DISPUTE RESOLUTION
13. MISCELLANEOUS PROVISIONS
14. EXISTING CONTRACT DOCUMENTS

This Agreement has important legal and insurance consequences. Consultations with an attorney and with insurance and surety consultants are encouraged with respect to its completion or modification. Notes indicate where information is to be inserted to complete this Agreement.

ARTICLE 1 AGREEMENT

This Agreement is made this 30th Day of May in the year 2013, by and between the
OWNER

NEWLINK GENETICS CORPORATION

2503 South Loop Drive, Suite 5100

Ames, Iowa 50010

and the

DESIGN-BUILDER

STORY CONSTRUCTION CO.

300 South Bell Avenue

Ames, Iowa 50010

for services in connection with the following
PROJECT

Remodel approximately 11,700 sq. ft. of existing Manufacturing and Quality Control space (Phase 1 and 2) in Building 5 at the Iowa State University Research Park.

Notice to the Parties shall be given at the above addresses.

ARTICLE 2 GENERAL PROVISIONS

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2.1 TEAM RELATIONSHIP The Owner and the Design-Builder agree to proceed with the Project on the basis of trust, good faith and fair dealing. The Design-Builder agrees to procure the architectural and engineering services set forth below, and to furnish construction and administration of the Work.

2.1.1 The Design-Builder represents that it is an independent contractor and that it is familiar with the type of work it is undertaking.

2.1.2 Neither the Design-Builder nor any of its agents or employees shall act on behalf of or in the name of the Owner unless authorized in writing by the Owner's Representative.

2.1.3 The Owner and the Design-Builder shall perform their obligations with integrity, ensuring at a minimum that:

2.1.3.1 conflicts of interest shall be avoided or disclosed promptly to the other Party; and

2.1.3.2 The Design-Builder and the Owner warrant that they have not and shall not pay nor receive any contingent fees or gratuities to or from the other Party, including their agents, officers and employees, Subcontractors or others for whom they may be liable, to secure preferential treatment.

2.2 DESIGN PROFESSIONAL Architectural and engineering services shall be procured from licensed, independent design professionals retained by the Design-Builder or furnished by licensed employees of the Design-Builder, or as permitted by the law of the state where the Project is located. The person or entity providing architectural and engineering services shall be referred to as the Design Professional. If the Design Professional is an independent design professional, the architectural and engineering services shall be procured and payments shall be made pursuant to a separate agreement between the Design-Builder and the Design Professional. The Design Professional for the Project is Story Design Ltd.

2.3 EXTENT OF AGREEMENT This Agreement is solely for the benefit of the Parties, represents the entire and integrated agreement between the Parties, and supersedes all prior negotiations, representations or agreements, either written or oral. The Owner and the Design-Builder agree to look solely to each other with respect to the performance of the Agreement. The Agreement and each and every provision is for the exclusive benefit of the Owner and the Design-Builder and not for the benefit of any third party nor any third party beneficiary, except to the extent expressly provided in the Agreement.

2.4 DEFINITIONS

2.4.1 The Contract Documents consist of:

- a. Change Orders and written amendments to this Agreement including exhibits and appendices, signed by both the Owner and Design-Builder;
- b. this Agreement, except for the existing Contract Documents set forth in item e below;
- c. the most current Documents approved by the Owner pursuant to Paragraph 3.1;
- d. the information provided by the Owner pursuant to Clause 4.1.2.1;
- e. the Contract Documents in existence at the time of this Agreement which are set forth in Article 14;
- f. the Owner's Program provided pursuant to Subparagraph 4.1.1.

In case of any inconsistency, conflict or ambiguity among the Contract Documents, the Documents shall govern in the order in which they are listed above.

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- 2.4.2 The term Day shall mean calendar day unless otherwise specifically defined.
- 2.4.3 Defective Work is any portion of the Work not in conformance with the Contract Documents as more fully described in Paragraph 3.7.
- 2.4.4 Final Completion occurs on the date when the Design-Builder's obligations under this Agreement are complete and accepted by the Owner and final payment becomes due and payable.
- 2.4.5 A Material Supplier is a party or entity retained by the Design Builder to provide material and equipment for the Work.
- 2.4.6 Others means other contractors and all persons at the Worksite who are not employed by Design-Builder, its Subcontractors or Material Suppliers.
- 2.4.7 The term Overhead shall mean 1) payroll costs and other compensation of Design-Builder employees in the Design-Builder's principal and branch offices; 2) general and administrative expenses of the Design-Builder's principal and branch offices including deductibles paid on any insurance policy, charges against the Design-Builder for delinquent payments, and costs related to the correction of defective work; and, 3) the Design-Builder's capital expenses, including interest on capital used for the Work.
- 2.4.8 The Owner is the person or entity identified as such in this Agreement and includes the Owner's Representative.
- 2.4.9 The Owner's Program is a description of the Owner's objectives, budgetary and time criteria, space requirements and relationships, flexibility and expandability requirements, special equipment and systems, and site requirements, together with Schematic Design Documents which shall include drawings, outline specifications and other conceptual documents illustrating the Projects basic elements, scale and their relationship to the Worksite.
- 2.4.10 The Project, as identified in Article 1, is the building, facility or other improvements for which the Design-Builder is to perform the Work under this Agreement. It may also include improvements to be undertaken by the Owner or Others.
- 2.4.11 A Subcontractor is a party or entity retained by the Design-Builder as an independent contractor to provide the on site labor, materials, equipment or services necessary to complete a specific portion of the Work. The term Subcontractor does not include the Design Professional or any separate contractor employed by the Owner or any separate contractors' subcontractors.
- 2.4.12 Substantial Completion of the Work, or of a designated portion, occurs on the date when construction is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Project, or a designated portion, for the use for which it is intended, without unscheduled disruption, in accordance with Paragraph 9.4. The issuance of a Certificate of Occupancy is not a prerequisite for Substantial Completion if the Certificate of Occupancy cannot be obtained due to factors beyond the Design-Builder's control. This date shall be confirmed by a certificate of Substantial Completion signed by the Owner and Design-Builder. The certificate shall state the respective responsibilities of the Owner and Design-Builder for security, maintenance, heat, utilities, damage to the Work, and insurance. The certificate shall also list the items to be completed or corrected, and establish the time for their completion and correction within the timeframe, if any, established in Subparagraph 6.2.1 for the Date of Final Completion.
- 2.4.13 A Sub-subcontractor is a party or entity who has an agreement with a Subcontractor to perform any portion of the Subcontractor's work.

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- 2.4.14 Terrorism means a violent act, or an act that is dangerous to human life, property or infrastructure, that is committed by an individual or individuals and that appears to be part of an effort to coerce a civilian population or to influence the policy or affect the conduct of any government by coercion. Terrorism includes, but is not limited to, any act certified by the United States Secretary of Treasury as an act of terrorism pursuant to the Terrorism Risk Insurance Act, as amended.
- 2.4.15 The Work is the Design services procured in accordance with Paragraph 3.1, the Construction services provided in accordance with Paragraph 3.2, Additional services in accordance with Paragraph 3.9, and other services which are necessary to complete the Project in accordance with and reasonably inferable from the Contract Documents.
- 2.4.16 Worksite means the geographical area at the location mentioned in Article 1 where the Work is to be performed.

ARTICLE 3

DESIGN-BUILDER'S RESPONSIBILITIES

The Design-Builder shall be responsible for procuring or furnishing the design and for the construction of the Work consistent with the Owner's Program. The Design-Builder shall exercise reasonable skill and judgment in the performance of the Work.

3.1 DESIGN SERVICES Pursuant to a mutually agreeable schedule, the Design-Builder shall submit for the Owner's written approval, as applicable, Design Development Documents or Construction Documents, based on the Contract Documents in existence at the time of the execution of this Agreement or any further development of Contract Documents that have been approved in writing by the Owner.

3.1.1 If required, the Design Development Documents shall further define the Project including drawings and outline specifications fixing and describing the Project size and character as to site utilization, and other appropriate elements incorporating the structural, architectural, mechanical and electrical systems. When the Design-Builder submits the Design Development Documents, the Design-Builder shall identify in writing all material changes and deviations that have taken place from the Contract Documents in existence at the time of the execution of this Agreement. Any changes in the Work contained in the Design Development Documents approved by the Owner shall result in a Change Order pursuant to Article 8 adjusting the Contract Price or the Date of Substantial Completion or the Date of Final Completion.

3.1.2 The Construction Documents shall set forth in detail the requirements for construction of the Work, and shall be based upon codes, laws or regulations enacted at the time of their preparation. When the Design-Builder submits the Construction Documents, the Design-Builder shall identify in writing all material changes and deviations that have taken place from the Design Development Documents or the Contract Documents in existence at the time of the execution of this Agreement. Any changes in the Work contained in the Construction Documents approved by the Owner shall result in a Change Order pursuant to Article 8 adjusting the Contract Price or the Date of Substantial Completion or the Date of Final Completion. Construction shall be in accordance with the approved Construction Documents. One set of these documents shall be furnished to the Owner prior to commencement of construction.

3.1.3 OWNERSHIP OF DOCUMENTS

3.1.3.1 OWNERSHIP OF TANGIBLE DOCUMENTS The Owner shall receive ownership of the property rights, except for copyrights, of all documents, drawings, specifications, electronic

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data and information (hereinafter "Documents") prepared, provided or procured by the Design-Builder, its Design Professional, Subcontractors or consultants and distributed to the Owner for this Project, upon the making of final payment to the Design-Builder or in the event of termination under Article 11, upon payment for all sums due to Design-Builder pursuant to Article 11.

3.1.3.2 COPYRIGHT The Parties agree that Owner **shall not** obtain ownership of the copyright of all Documents. The Owner's acquisition of the copyright for all Documents shall be subject to the making of payments as required by Paragraph 3.1.3.1 and the payment of the fee reflecting the agreed value of the copyright set forth below:

If the Parties have not made a selection to transfer copyright interests in the Documents, the copyright shall remain with the Design-Builder.

3.1.3.3 USE OF DOCUMENTS IN EVENT OF TERMINATION In the event of a termination of this Agreement pursuant to Article 11, the Owner shall have the right to use, to reproduce, and to make derivative works of the Documents to complete the Project, regardless of whether there has been a transfer of copyright under Subparagraph 3.1.3.2, provided payment has been made pursuant to Paragraph 3.1.3.1.

3.1.3.4 OWNER'S USE OF DOCUMENTS AFTER COMPLETION OF PROJECT After completion of the Project, the Owner may reuse, reproduce or make derivative works from the Documents solely for the purposes of maintaining, renovating, remodeling or expanding the Project at the Worksite. The Owner's use of the Documents without the Design-Builder's involvement or on other projects is at the Owner's sole risk, except for the Design-Builder's indemnification obligations pursuant to Paragraph 10.6, and the Owner shall indemnify and hold harmless the Design-Builder, its Design Professional, Subcontractors and consultants, and the agents, officers, directors and employees of each of them, from and against any and all claims, damages, losses, costs and expenses, including reasonable attorneys' fees and costs, arising out of or resulting from such any prohibited use.

3.1.3.5 DESIGN-BUILDER'S USE OF DOCUMENTS Where the Design-Builder has transferred its copyright interest in the Documents under Subparagraph 3.1.3.1, the Design-Builder may reuse Documents prepared by it pursuant to this Agreement in its practice, but only in their separate constituent parts and not as a whole.

3.1.3.6 The Design-Builder shall obtain from its Design Professional, Subcontractors and consultants rights and rights of use that correspond to the rights given by the Design-Builder to the Owner in this Agreement and the Design-Builder shall provide evidence that such rights have been secured.

3.2 CONSTRUCTION SERVICES

3.2.1 Construction will commence upon the issuance by the Owner of a written notice to proceed.

3.2.2 In order to complete the Work, the Design-Builder shall provide all necessary construction supervision, inspection, construction equipment, construction labor, materials, tools and subcontracted items.

3.2.3 The Design-Builder shall give all notices and comply with all laws and ordinances legally enacted at the date of execution of the Agreement which govern the proper performance of the Work.

3.2.4 The Design-Builder shall maintain the Schedule of Work. This schedule shall indicate the dates for the start and completion of the various stages of the construction, including the dates

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when information and approvals are required from the Owner. It shall be revised as required by the conditions of the Work.

3.2.5 The Design-Builder shall obtain and the Owner shall pay, in addition to the Contract Price, for the building permits necessary for the construction of the Project.

3.2.6 The Design-Builder shall keep such full and detailed accounts as may be necessary for proper financial management under this Agreement. The Owner shall be afforded access to all the

Design-Builder's records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda and similar data relating to Change Order work performed on the basis of actual cost. The Design-Builder shall preserve all such records for a period of three years after the final payment or longer where required by law.

3.2.7 The Design-Builder shall provide periodic written reports to the Owner on the progress of the Work in such detail as is required by the Owner and as agreed to by the Owner and Design-Builder.

3.2.8 The Design-Builder shall regularly remove debris and waste materials at the Worksite resulting from the Work. Prior to discontinuing Work in an area, the Design-Builder shall clean the area and remove all rubbish and its construction equipment, tools, machinery, waste and surplus materials. The Design-Builder shall minimize and confine dust and debris resulting from construction activities. At the completion of the Work, the Design-Builder shall remove from the Worksite all construction equipment, tools, surplus materials, waste materials and debris.

3.2.9 The Design-Builder shall prepare and submit to the Owner

final marked up as-built drawings

in general documenting how the various elements of the Work including changes were actually constructed or installed, or as defined by the Parties by attachment to this Agreement.

3.3 SCHEDULE OF THE WORK The Design-Builder shall prepare and submit a Schedule of Work for the Owner's acceptance and written approval as to milestone dates. This schedule shall indicate the dates for the start and completion of the various stages of the Work, including the dates when information and approvals are required from the Owner. The Schedule shall be revised as required by the conditions of the Work.

3.4 SAFETY OF PERSONS AND PROPERTY

3.4.1 SAFETY PRECAUTIONS AND PROGRAMS The Design-Builder shall have overall responsibility for safety precautions and programs in the performance of the Work. While the provisions of this Paragraph establish the responsibility for safety between the Owner and the Design-Builder, they do not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with the provisions of applicable laws and regulations.

3.4.2 The Design-Builder shall seek to avoid injury, loss or damage to persons or property by taking reasonable steps to protect:

3.4.2.1 its employees and other persons at the Worksite;

3.4.2.2 materials, supplies and equipment stored at the Worksite for use in performance of the Work; and

3.4.2.3 the Project and all property located at the Worksite and adjacent to work areas, whether or not said property or structures are part of the Project or involved in the Work.

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3.4.3 DESIGN-BUILDER'S SAFETY REPRESENTATIVE The Design-Builder shall designate an individual at the Worksite in the employ of the Design-Builder who shall act as the Design-Builder's designated safety representative with a duty to prevent accidents. Unless otherwise identified by the Design-Builder in writing to the Owner, the designated safety representative shall be the

Design-Builder's project superintendent. The Design-Builder will report immediately in writing all accidents and injuries occurring at the Worksite to the Owner. When the Design-Builder is required to file an accident report with a public authority, the Design-Builder shall furnish a copy of the report to the Owner.

3.4.4 The Design-Builder shall provide the Owner with copies of all notices required of the Design-Builder by law or regulation. The Design-Builder's safety program shall comply with the requirements of governmental and quasi-governmental authorities having jurisdiction over the Work.

3.4.5 Damage or loss not insured under property insurance which may arise from the performance of the Work, to the extent of the negligence attributed to such acts or omissions of the

Design-Builder, or anyone for whose acts the Design-Builder may be liable, shall be promptly remedied by the Design-Builder. Damage or loss attributable to the acts or omissions of the Owner or Others and not to the Design-Builder shall be promptly remedied by the Owner.

3.4.6 If the Owner deems any part of the Work or Worksite unsafe, the Owner, without assuming responsibility for the Design-Builder's safety program, may require the Design-Builder to stop performance of the Work or take corrective measures satisfactory to the Owner, or both. If the Design-Builder does not adopt corrective measures, the Owner may perform them and reduce the amount of the Contract Price by the costs of the corrective measures. The Design-Builder agrees to make no claim for damages, for an adjustment in the Contract Price or the Date of Substantial Completion or the Date of Final Completion based on the Design-Builder's compliance with the Owner's reasonable request.

3.5 HAZARDOUS MATERIAL

3.5.1 A Hazardous Material is any substance or material identified now or in the future as hazardous under any federal, state or local law or regulation, or any other substance or material which may be considered hazardous or otherwise subject to statutory or regulatory requirements governing handling, disposal or clean-up. The Design-Builder shall not be obligated to commence or continue Work until all known or suspected Hazardous Material discovered at the Project site has been removed, rendered or determined to be harmless by the Owner as certified by an independent testing laboratory and approved by the appropriate government agency.

3.5.2 If after the commencement of the Work, known or suspected Hazardous Material is discovered at the Project, the Design-Builder shall be entitled to immediately stop Work in the affected area. The Design-Builder shall report the condition to the Owner and, if required, the government agency with jurisdiction.

3.5.3 The Design-Builder shall not be required to perform any Work relating to or in the area of Hazardous Material without written mutual agreement.

3.5.4 The Owner shall be responsible for retaining an independent testing laboratory to determine the nature of the material encountered and whether it is a Hazardous Material requiring corrective measures or remedial action. Such measures shall be the sole responsibility of the Owner, and shall be performed in a manner minimizing any adverse effect upon the Work of the Design-Builder. The Design-Builder shall resume Work in the area affected by any Hazardous Material only upon written agreement between the Parties after the Hazardous Material has been removed or rendered

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harmless and only after approval, if necessary, of the governmental agency or agencies with jurisdiction.

3.5.5 If the Design-Builder incurs additional costs or is delayed due to the presence or remediation of Hazardous Material, the Design-Builder shall be entitled to an equitable adjustment in the Contract Price or the date of Substantial Completion.

3.5.6 To the extent not caused by the negligent acts or omissions of the Design-Builder, its Subcontractors and Sub-subcontractors, and the agents, officers, directors and employees of each of them, the Owner shall defend, indemnify and hold harmless the Design-Builder, its Subcontractors and Sub-subcontractors, and the agents, officers, directors and employees of each of them, from and against all claims, damages, losses, costs and expenses, including but not limited to reasonable attorneys' fees, costs and expenses incurred in connection with any dispute resolution process, to the extent permitted pursuant to Paragraph 6.5, arising out of or relating to the performance of the Work in any area affected by Hazardous Material.

3.5.7 Material Safety Data (MSD) sheets as required by law and pertaining to materials or substances used or consumed in the performance of the Work, whether obtained by the Design-Builder, Subcontractors, the Owner or Others, shall be maintained at the Project by the Design-Builder and made available to the Owner and Subcontractors.

3.5.8 During the Design-Builder's performance of the Work, the Design-Builder shall be responsible for the proper handling of all materials brought to the Worksite by the Design-Builder. Upon the issuance of the Certificate of Substantial Completion, the Owner shall be responsible under this Paragraph for materials and substances brought to the site by the Design-Builder if such materials or substances are required by the Contract Documents.

3.5.9 The terms of this Paragraph 3.5 shall survive the completion of the Work under this Agreement or any termination of this Agreement.

3.6 TAX EXEMPTION If in accordance with the Owner's direction the Design-Builder claims an exemption for taxes, the Owner shall indemnify and hold the Design-Builder harmless from all liability, penalty, interest, fine, tax assessment, attorneys fees or other expense or cost incurred by the Design-Builder as a result of any action taken by the Design-Builder in accordance with the Owner's direction.

3.7 WARRANTIES AND COMPLETION

3.7.1 The Design-Builder warrants that all materials and equipment furnished under this Agreement will be new unless otherwise specified, of good quality, in conformance with the Contract Documents, and free from defective workmanship and materials. Warranties shall commence on the date of Substantial Completion of the Work or of a designated portion. The Design-Builder agrees to correct all construction performed under this Agreement which proves to be defective in workmanship or materials within a period of one year from the date of Substantial Completion as set forth in Paragraph 6.2 or for such longer periods of time as may be set forth with respect to specific warranties required by the Contract Documents.

3.7.2 To the extent products, equipment, systems or materials incorporated in the Work are specified and purchased by the Owner, they shall be covered exclusively by the warranty of the manufacturer. There are no warranties which extend beyond the description on the face thereof. To the extent products, equipment, systems or materials incorporated in the Work are specified by the Owner but purchased by the Design-Builder and are inconsistent with selection criteria that otherwise would have been followed by the Design-Builder, the Design-Builder shall assist the

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Owner in pursuing warranty claims. All other warranties expressed or implied including the warranty of merchantability and the warranty of fitness for a particular purpose are expressly disclaimed.

3.7.3 The Design-Builder shall secure required certificates of inspection, testing or approval and deliver them to the Owner.

3.7.4 The Design-Builder shall collect all written warranties and equipment manuals and deliver them to the Owner in a format directed by the Owner.

3.7.5 With the assistance of the Owner's maintenance personnel, the Design-Builder shall direct the checkout of utilities and start up operations, and adjusting and balancing of systems and equipment for readiness.

3.8 CONFIDENTIALITY The Design-Builder shall treat as confidential and not disclose to third persons, except Subcontractors, Sub-subcontractors and the Design Professional as is necessary for the performance of the Work, or use for its own benefit any of the Owner's developments, confidential information, know-how, discoveries, production methods and the like that may be disclosed to the Design-Builder or which the Design-Builder may acquire in connection with the Work. The Owner shall treat as confidential information all of the Design-Builder's estimating systems and historical and parameter cost data that may be disclosed to the Owner in connection with the performance of this

Agreement. The Owner and the Design-Builder shall each specify those items to be treated as confidential and shall mark them as "Confidential."

3.9 ADDITIONAL SERVICES The Design-Builder shall provide or procure the following Additional services upon the request of the Owner. A written agreement between the Owner and Design-Builder shall define the extent of such Additional services. Such Additional services shall be considered a Change in the Work, unless they are specifically included in Article 14.

3.9.1 Development of the Owner's Program, establishing the Project budget, investigating sources of financing, general business planning and other information and documentation as may be required to establish the feasibility of the Project.

3.9.2 Consultations, negotiations, and documentation supporting the procurement of Project financing.

3.9.3 Surveys, site evaluations, legal descriptions and aerial photographs.

3.9.4 Appraisals of existing equipment, existing properties, new equipment and developed properties.

3.9.5 Soils, subsurface and environmental studies, reports and investigations required for submission to governmental authorities or others having jurisdiction over the Project.

3.9.6 Consultations and representations before governmental authorities or others having jurisdiction over the Project other than normal assistance in securing building permits.

3.9.7 Investigation or making measured drawings of existing conditions or the verification of Owner-provided drawings and information.

3.9.8 Artistic renderings, models and mockups of the Project or any part of the Project or the Work.

3.9.9 Inventories of existing furniture, fixtures, furnishings and equipment which might be under consideration for incorporation into the Work.

3.9.10 Interior design and related services including procurement and placement of furniture,

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furnishings, artwork and decorations.

3.9.11 Making revisions to design documents after they have been approved by the Owner when revisions are due to causes beyond the control of the Design-Builder. Causes beyond the control of the Design-Builder do not include acts or omissions on the part of Subcontractors,

Sub-subcontractors or the Design Professional.

3.9.12 Design, coordination, management, expediting and other services supporting the procurement of materials to be obtained, or work to be performed, by the Owner, including but not limited to telephone systems, computer wiring networks, sound systems, alarms, security systems and other specialty systems which are not a part of this Agreement.

3.9.13 Estimates, proposals, appraisals, consultations, negotiations and services in connection with the repair or replacement of an insured loss, provided such repair or replacement did not result from the negligence of the Design-Builder.

3.9.14 The premium portion of overtime work ordered by the Owner including productivity impact costs, other than that required by the Design-Builder to maintain the Schedule of Work.

3.9.15 Out-of-town travel by the Design Professional in connection with the Work, except between the Design Professional's office, Design-Builder's office, Owner's office and the Project site.

3.9.16 Obtaining service contractors and training maintenance personnel; assisting and consulting in the use of systems and equipment after the initial start up.

3.9.17 Services for tenant or rental spaces not a part of this Agreement.

3.9.18 Services requested by the Owner or required by the Work which are not specified in the Contract Documents and which are not normally part of generally accepted design and construction practice.

3.9.19 Serving or preparing to serve as an expert witness in connection with any proceeding, legal or otherwise, regarding the Project.

3.9.20 Document reproduction exceeding the limits provided for in this Agreement.

3.9.21 Providing services relating to Hazardous Material discovered at the Worksite.

3.9.22 Other services as agreed to by the Parties and identified in an attached exhibit.

3.10 DESIGN-BUILDER'S REPRESENTATIVE The Design-Builder shall designate a person who shall be the Design-Builder's authorized representative. The Design-Builder's Representative is Jamie Rochleau, Project Manager.

ARTICLE 4 OWNER'S RESPONSIBILITIES

4.1 INFORMATION AND SERVICES PROVIDED BY OWNER

4.1.1 The Owner shall provide full information in a timely manner regarding requirements for the Project, including the Owner's Program and other relevant information.

4.1.2 The Owner shall provide:

4.1.2.1 all available information describing the physical characteristics of the site, including surveys, site evaluations, legal descriptions, existing conditions, subsurface and environmental

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studies, reports and investigations;

4.1.2.2 inspection and testing services during construction as required by law or as mutually agreed; and

4.1.2.3 unless otherwise provided in the Contract Documents, necessary approvals, site plan review, rezoning, easements and assessments, fees and charges required for the construction, use, occupancy or renovation of permanent structures, including legal and other required services.

4.1.3 Prior to commencement of the Work and thereafter at the written request of the

Design-Builder, the Owner shall provide the Design-Builder with evidence of Project financing. Evidence of such financing shall be a condition precedent to the Design-Builder's commencing or continuing the Work. The Design-Builder shall be notified prior to any material change in Project financing.

4.1.4 The Design-Builder shall be entitled to rely on the completeness and accuracy of the information and services required by this Paragraph 4.1.

4.2 RESPONSIBILITIES DURING DESIGN

4.2.1 The Owner shall review and approve further development of the drawings and specifications as set forth in Article 3.

4.3 RESPONSIBILITIES DURING CONSTRUCTION

4.3.1 The Owner shall review the Schedule of Work as set forth in Paragraph 3.3, timely approve milestone dates set forth and timely respond to its obligations.

4.3.2 If the Owner becomes aware of any error, omission or failure to meet the requirements of the Contract Documents or any fault or defect in the Work, the Owner shall give prompt written notice to the Design-Builder. The failure of the Owner to give such notice shall not relieve the Design-Builder of its obligations to fulfill the requirements of the Contract Documents.

4.3.3 The Owner shall communicate with the Design-Builder's Subcontractors, suppliers and Design Professional only through or in the presence of the Design-Builder. The Owner shall have no contractual obligations to Subcontractors, suppliers, or the Design Professional.

4.3.4 The Owner shall provide insurance for the Project as provided in Article 10.

4.4 OWNER'S REPRESENTATIVE The Owner's representative is Dr. Jay Ramsey. The representative:

4.4.1 shall be fully acquainted with the Project;

4.4.2 agrees to furnish the information and services required of the Owner pursuant to Paragraph

4.1 so as not to delay the Design-Builder's Work; and

4.4.3 shall have authority to bind the Owner in all matters requiring the Owner's approval, authorization or written notice. If the Owner changes its representative or the representative's authority as listed above, the Owner shall notify the Design-Builder in writing in advance.

4.5 ELECTRONIC DOCUMENTS If the Owner requires that the Owner and Design-Builder exchange documents and data in electronic or digital form, prior to any such exchange, the Owner and Design-Builder shall agree on a written protocol governing all exchanges in ConsensusDOCS 200.2 or a separate agreement, which, at a minimum, shall specify: (1) the definition of documents and data to be accepted in electronic or digital form or to be transmitted electronically or digitally; (2) management and

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coordination responsibilities; (3) necessary equipment, software and services; (4) acceptable formats, transmission methods and verification procedures; (5) methods for maintaining version control; (6) privacy and security requirements; and (7) storage and retrieval requirements. The Parties shall each bear their own costs for the requirements identified in the protocol. In the absence of a written protocol, use of documents and data in electronic or digital form shall be at the sole risk of the recipient.

ARTICLE 5

SUBCONTRACTS

Work not performed by the Design-Builder with its own forces shall be performed by Subcontractors or the Design Professional.

5.1 **RETAINING SUBCONTRACTORS** The Design-Builder shall not retain any Subcontractor to whom the Owner has a reasonable and timely objection, provided that the Owner agrees to increase the Contract Price for any additional costs incurred by the Design-Builder as a result of such objection. The Owner may propose subcontractors to be considered by the Design-Builder. The Design-Builder shall not be required to retain any subcontractor to whom the Design-Builder has a reasonable objection.

5.2 **MANAGEMENT OF SUBCONTRACTORS** The Design-Builder shall be responsible for the management of the Subcontractors in the performance of their work.

5.3 CONTINGENT ASSIGNMENT OF SUBCONTRACT AGREEMENTS

5.3.1 If this Agreement is terminated, each subcontract agreement shall be assigned by the Design-Builder to the Owner, subject to the prior rights of any surety, provided that:

5.3.1.1 this Agreement is terminated by the Owner pursuant to Paragraphs 11.2 or 11.3; and

5.3.1.2 the Owner accepts such assignment, after termination by notifying the Subcontractor and Design-Builder in writing, and assumes all rights and obligations of the Design-Builder pursuant to each subcontract agreement.

5.3.2 If the Owner accepts such an assignment, and the Work has been suspended for more than thirty (30) consecutive Days, following termination, if appropriate, the Subcontractor's compensation shall be equitably adjusted as a result of the suspension.

5.4 **BINDING OF SUBCONTRACTORS AND MATERIAL SUPPLIERS** The Design-Builder agrees to bind every Subcontractor and Material Supplier (and require every Subcontractor to so bind its Sub-subcontractors and Material Suppliers) to all the provisions of this Agreement and the Contract Documents as they apply to the Subcontractors and Material Suppliers portions of the Work.

5.5 **LABOR RELATIONS** (Insert here or attach as exhibit as necessary any conditions, obligations or requirements relative to labor relations and their effect on the Project. Legal counsel is recommended.)

ARTICLE 6 CONTRACT TIME

6.1 **DATE OF COMMENCEMENT** The Date of Commencement is the effective date of this Agreement as first written in Article 1 unless otherwise set forth below: (Insert here any special provisions concerning Notices to Proceed and the Date of Commencement.)

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Owner shall vacate areas scheduled for remodel on or before 12:00 a.m., August 31, 2013. Areas shall remain vacant throughout construction period. Owner may occupy areas once work is considered substantially complete.

Design-Builder shall procure materials prior to construction and shall commence its work on September 3, 2013.

The Work shall proceed in general accordance with the Schedule of Work as such schedule may be amended from time to time, subject, however, to other provisions of this Agreement.

6.2 SUBSTANTIAL COMPLETION/FINAL COMPLETION

6.2.1 Substantial Completion of the Work shall be achieved on November 1, 2013. Unless otherwise specified, the Work shall be finally complete within 10 Days after the date of Substantial Completion, subject to adjustments as provided for in the Contract Documents.

6.2.2 Time limits stated in the Contract Documents are of the essence.

6.2.3 The Date of Final Completion of the Work is within ten (10) Days after the Date of Substantial Completion, subject to adjustments as provided for in the Contract Documents.

6.2.4 Unless instructed by the Owner in writing, the Design-Builder shall not knowingly commence the Work before the effective date of insurance that is required to be provided by the Design-Builder or the Owner.

6.3 DELAYS IN THE WORK

6.3.1 If the Design-Builder is delayed at any time in the commencement or progress of the Work by any cause beyond the control of the Design-Builder, the Design-Builder shall be entitled to an equitable extension of the Date of Substantial Completion or the Date of Final Completion. Examples of causes beyond the control of the Design-Builder include, but are not limited to, the following: acts or omissions of the Owner or Others; changes in the Work or the sequencing of the Work ordered by the Owner, or arising from decisions of the Owner that impact the time of performance of the Work; transportation delays not reasonably foreseeable; labor disputes not involving the Design-Builder; general labor disputes impacting the Project but not specifically related to the Worksite; fire, terrorism, epidemics, adverse governmental actions, unavoidable accidents or circumstances, adverse weather conditions not reasonably anticipated, encountering Hazardous Materials, concealed or unknown conditions; delay authorized by the Owner pending dispute resolution and suspension by the Owner under Paragraph 11.1. The Design-Builder shall process any requests for equitable extensions of the Date of Substantial Completion or the Date of Final Completion in accordance with the provisions of Article 8..

6.3.2 In addition, if the Design-Builder incurs additional costs as a result of a delay that is caused by acts or omissions of the Owner or Others, changes in the Work or the sequencing of the Work ordered by the Owner, or arising from decisions of the Owner that impact the time of performance of the Work, encountering Hazardous Materials, or concealed or unknown conditions, delay authorized by the Owner pending dispute resolution and suspension by the Owner under Paragraph 11.1, the Design-Builder shall be entitled to an equitable adjustment in the Contract Price subject to

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Paragraph 6.5.

6.3.3 In the event delays to the project are encountered for any reason, the Parties agree to undertake reasonable steps to mitigate the effect of such delays.

6.4 LIQUIDATED DAMAGES

6.4.1 **SUBSTANTIAL COMPLETION** The Owner and the Design-Builder agree that this Agreement **shall** provide for the imposition of liquidated damages based on the Date of Substantial Completion.

6.4.1.1 The Design-Builder understands that if the Date of Substantial Completion established by Amendment No. 1, as may be amended by subsequent Change Order, is not attained, the Owner will suffer damages which are difficult to determine and accurately specify. The Design-Builder agrees that if the Date of Substantial Completion is not attained, the Design-Builder shall pay the Owner Two Thousand Dollars (\$2,000.00) per day as liquidated damages, (not as a penalty) for each Day that Substantial Completion extends beyond the Date of Substantial Completion. The liquidated damages provided herein shall be in lieu of all liability for any and all extra costs, losses, expenses, claims, penalties and any other damages of whatsoever nature incurred by the Owner which are occasioned by any delay in achieving the Date of Substantial Completion.

6.4.2 **FINAL COMPLETION** The Owner and the Design-Builder agree that this Agreement **shall not** provide for the imposition of liquidated damages based on the Date of Final Completion.

6.4.2.1 The Design-Builder understands that if the Date of Final Completion established by this Amendment No. 1 is not attained, the Owner will suffer damages which are difficult to determine and accurately specify. The Design-Builder agrees that if the Date of Final Completion is not attained, the Design-Builder shall pay the Owner zero Dollars (\$0.00) as liquidated damages for each Day that Final Completion extends beyond the Date of Final Completion. The liquidated damages provided herein shall be in lieu of all liability for any and all extra costs, losses, expenses, claims, penalties and any other damages of whatsoever nature incurred by the Owner which are occasioned by any delay in achieving the Date of Final Completion.

6.4.3 **OTHER LIQUIDATED DAMAGES** The Owner and the Design-Builder may agree upon the imposition of liquidated damages based on other project milestones or performance requirements. Such agreement shall be included as an exhibit to this Agreement.

6.5 **LIMITED MUTUAL WAIVER OF CONSEQUENTIAL DAMAGES** Except for damages mutually agreed upon by the Parties as liquidated damages in Paragraph 6.4 and excluding losses covered by insurance required by the Contract Documents, the Owner and the Design-Builder agree to waive all claims against each other for any consequential damages that may arise out of or relate to this Agreement, except for those specific items of damages excluded from this waiver as mutually agreed upon by the Parties and identified below. The Owner agrees to waive damages including but not limited to the Owner's loss of use of the Project, any rental expenses incurred, loss of income, profit or financing related to the Project, as well as the loss of business, loss of financing, principal office overhead and expenses, loss of profits not related to this Project, loss of reputation, or insolvency. The Design-Builder agrees to waive damages including but not limited to loss of business, loss of financing, principal office overhead and expenses, loss of profits not related to this Project, loss of bonding capacity, loss of reputation, or insolvency.

6.5.1 The following items of damages are excluded from this mutual waiver:

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6.5.2 The provisions of this Paragraph shall also apply to the termination of this Agreement and shall survive such termination. The Owner and the Design-Builder shall require similar waivers in contracts with Subcontractors and Others retained for the Project.

ARTICLE 7 CONTRACT PRICE

The Contract Price is One Million Twelve Thousand Five Dollars, (\$1,012,005.00) subject to adjustment in accordance with the provisions of Article 8. The contract price is based upon the base bid and the following add alternates.

Alternate 1 - Roof mounted make-up air unit

Alternate 4 - 24" deep Pass-through in lieu of 14" deep Pass-through

ARTICLE 8 CHANGES IN THE WORK

Changes in the Work which are within the general scope of this Agreement may be accomplished without invalidating this Agreement by Change Order, Interim Directed Change, or a minor change in the Work, subject to the limitations stated in the Contract Documents.

8.1 CHANGE ORDERS

8.1.1 The Design-Builder may request or the Owner, without invalidating this Agreement, may order changes in the Work within the general scope of the Contract Documents consisting of adjustment to the Contract Price or the Date of Substantial Completion or the Date of Final Completion. All such changes in the Work shall be authorized by applicable Change Order, and shall be performed under the applicable conditions of the Contract Documents. Each adjustment in the Contract Price resulting from a Change Order shall clearly separate the amount attributable to Design services.

8.1.2 The Owner and the Design-Builder shall negotiate in good faith an appropriate adjustment to Contract Price or the Date of Substantial Completion or the Date of Final Completion and shall conclude these negotiations as expeditiously as possible. Acceptance of the Change Order and any adjustment in the Contract Price or the Date of Substantial Completion or the Date of Final Completion shall not be unreasonably withheld.

8.2 INTERIM DIRECTED CHANGE

8.2.1 The Owner may issue a written Interim Directed Change directing a change in the Work prior to reaching agreement with the Design-Builder on the adjustment, if any, in the Contract Price or the Date of Substantial Completion or the Date of Final Completion, and if appropriate, the compensation for Design services.

8.2.2 The Owner and the Design-Builder shall negotiate expeditiously and in good faith for appropriate adjustments, as applicable, to the Contract Price or the Date of Substantial Completion or the Date of Final Completion, and if appropriate the compensation for Design services, arising out of Interim Directed Changes. As the changed work is completed, the Design Builder shall submit its costs for such work with its Application for Payment beginning with the next Application for Payment

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within thirty (30) Days of the issuance of the Interim Directed Change. Pending final determination of cost to the Owner, amounts not in dispute may be included in Applications for Payment and shall be paid by Owner.

8.2.3 If the Owner and the Design-Builder agree upon the adjustments in the Contract Price or the Date of Substantial Completion or the Date of Final Completion, and if appropriate the compensation for Design services, for a change in the Work directed by an Interim Directed Change, such agreement shall be the subject of an appropriate Change Order. The Change Order shall include all outstanding Change Directives issued since the last Change Order.

8.3 MINOR CHANGES IN THE WORK

8.3.1 Design-Builder may make minor changes in the design and construction of the Project consistent with the intent of the Contract Documents which do not involve an adjustment in the Contract Price or the Date of Substantial Completion or the Date of Final Completion; and do not materially and adversely affect the design of the Project, the quality of any of the materials or equipment specified in the Contract Documents, the performance of any materials, equipment or systems specified in the Contract Documents, or the quality of workmanship required by the Contract Documents.

8.3.2 Design-Builder shall promptly inform the Owner in writing of any such changes and shall record such changes on the Design-Build Documents maintained by the Design-Builder.

8.4 DETERMINATION OF COST

8.4.1 An increase or decrease in the Contract Price resulting from a change in the Work shall be determined by one or more of the following methods:

8.4.1.1 unit prices set forth in this Agreement or as subsequently agreed;

8.4.1.2 a mutually accepted, itemized lump sum; or

8.4.1.3 if an increase or decrease cannot be agreed to as set forth in Clause 8.4.1.1 or 8.4.1.2 and the Owner issues a written order for the Design-Builder to proceed with the change, the adjustment in the Contract Price shall be determined by the reasonable expense and savings of the performance of the Work resulting from the change. If there is a net increase in the Contract Price, a reasonable adjustment shall be made in the Design-Builder's overhead and profit. In the case of a net decrease in cost, the amount of decrease in the Contract Price will not include a reduction in overhead and profit. The Design-Builder shall maintain a documented, itemized accounting evidencing the expenses and savings.

8.4.2 If unit prices are indicated in the Contract Documents or are subsequently agreed to by the Parties, but the character or quantity of such unit items as originally contemplated is so different in a proposed Change Order that the original unit prices will cause substantial inequity to the Owner or the Design-Builder, such unit prices shall be equitably adjusted.

8.4.3 If the Owner and the Design-Builder disagree as to whether work required by the Owner is within the scope of the Work, the Design-Builder shall furnish the Owner with an estimate of the costs to perform the disputed work in accordance with the Owner's interpretations. If the Owner issues a written order for the Design-Builder to proceed, the Design-Builder shall perform the disputed work and the Owner shall pay the Design-Builder fifty percent (50%) of its estimated cost to perform the work. In such event, both Parties reserve their rights as to whether the work was within the scope of the Work. The Owner's payment does not prejudice its right to be reimbursed should it be determined that the disputed work was within the scope of Work. The Design-Builder's receipt of

payment for the disputed work does not prejudice its right to receive full payment for the disputed work should it be determined that the disputed work is not within the scope of the Work.

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8.5 UNKNOWN CONDITIONS If in the performance of the Work the Design-Builder finds latent, concealed or subsurface physical conditions which materially differ from the conditions the Design-Builder reasonably anticipated, or if physical conditions are materially different from those normally encountered and generally recognized as inherent in the kind of work provided for in this Agreement, then the Contract Price or the date of Substantial Completion shall be equitably adjusted by Change Order within a reasonable time after the conditions are first observed. Design-Builder shall provide Owner with written notice within the time period set forth in Paragraph 8.6.

8.6 CLAIMS FOR ADDITIONAL COST OR TIME For any claim for an increase in the Contract Price or an extension in the Date of Substantial Completion or the Date of Final Completion, the Design-Builder shall give the Owner written notice of the claim within twenty-one (21) Days after the occurrence giving rise to the claim or within twenty-one (21) Days after the Design-Builder first recognizes the condition giving rise to the claim, whichever is later. Except in an emergency, notice shall be given before proceeding with the Work. Claims for design and estimating costs incurred in connection with possible changes requested by the Owner, but which do not proceed, shall be made within twenty-one (21) Days after the decision is made not to proceed. Thereafter, the Design-Builder shall submit written documentation of its claim, including appropriate supporting documentation, within twenty-one (21) Days after giving notice, unless the Parties mutually agree upon a longer period of time. The Owner shall respond in writing denying or approving the Design-Builder's claim no later than fourteen (14) Days after receipt of the Design-Builder's documentation of claim. Owner's failure to so respond shall be deemed a denial of the Design-Builder's claim. Any change in Contract Price or the Date of Substantial Completion or the Date of Final Completion resulting from such claim shall be authorized by Change Order.

8.7 EMERGENCIES In any emergency affecting the safety of persons or property, the Design-Builder shall act, at its discretion, to prevent threatened damage, injury or loss. Any change in the Contract Price or extension of the Date of Substantial Completion or the Date of Final Completion on account of emergency work shall be determined as provided in this Article.

8.8 CHANGES IN LAW In the event any changes in laws or regulations affecting the performance of the Work are enacted after the date of this Agreement, the Contract Price and the Date of Substantial Completion or the Date of Final Completion, and if appropriate the compensation for Design services, shall be equitably adjusted by Change Order.

ARTICLE 9

PAYMENT

9.1 PROGRESS PAYMENTS

9.1.1 Prior to submitting the first application for payment, the Design-Builder shall provide a Schedule of Values satisfactory to the Owner, consisting of a breakdown of the Contract Price, with a separate line item for Design services.

9.1.2 On or before the first Day of each month after the Work has commenced, the Design-Builder shall submit to the Owner an application for payment in accordance with the Schedule of Values based upon the Work completed and materials suitably stored on the Worksite or at other locations approved by the Owner. Prior to submission of the next application for payment, the Design-Builder shall furnish to the Owner a statement accounting for the disbursement of funds received under the previous application. The extent of such statement shall be as agreed upon between the Owner and

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the Design-Builder.

9.1.3 Within seven (7) Days after receipt of each monthly application for payment, the Owner shall give written notice to the Design-Builder of the Owner's acceptance or rejection, in whole or in part, of such application for payment. Within fifteen (15) Days after accepting such Application, the Owner shall pay directly to the Design-Builder the appropriate amount for which application for payment is made, less amounts previously paid by the Owner. If such application is rejected in whole or in part, the Owner shall indicate the reasons for its rejection. If the Owner and the Design-Builder cannot agree on a revised amount then, within fifteen (15) Days after its initial rejection in part of such application, the Owner shall pay directly to the Design-Builder the appropriate amount for those items not rejected by the Owner for which application for payment is made, less amounts previously paid by the Owner. Those items rejected by the Owner shall be due and payable when the reasons for the rejection have been removed.

9.1.4 If the Owner fails to pay the Design-Builder at the time payment of any amount becomes due, then the Design-Builder may, at any time thereafter, upon serving written notice that the Work will be stopped within seven (7) Days after receipt of the notice by the Owner, and after such seven (7) Day period, stop the Work until payment of the amount owing has been received.

9.1.5 Payments due but unpaid pursuant to Subparagraph 9.1.3, less any amount retained pursuant to Paragraph 9.2 or 9.3, may bear interest from the date payment is due at the prime rate prevailing at the place of the Project.

9.1.6 The Design-Builder warrants and guarantees that title to all Work, materials and equipment covered by an application for payment, whether incorporated in the Project or not, will pass to the Owner upon receipt of such payment by the Design-Builder free and clear of all liens, claims, security interests or encumbrances, hereinafter referred to as "liens."

9.1.7 The Owner's progress payment, occupancy or use of the Project, whether in whole or in part, shall not be deemed an acceptance of any Work not conforming to the requirements of the Contract Documents.

9.1.8 Upon Substantial Completion of the Work, the Owner shall pay the Design-Builder the unpaid balance of the Contract Price, less a sum equal to one hundred fifty percent (150%) of the Design-Builder's estimated cost of completing any unfinished items as agreed to between the Owner and Design-Builder as to extent and time for completion. The Owner thereafter shall pay the Design-Builder monthly the amount retained for unfinished items as each item is completed.

9.1.9 STORED MATERIALS AND EQUIPMENT Unless otherwise provided in the contract documents, applications for payment may include materials and equipment not yet incorporated into the Work but delivered to and suitably stored onsite or offsite, including applicable insurance, storage and costs incurred transporting the materials to an offsite storage facility. Approval of payment applications for stored materials and equipment stored offsite shall be conditioned on submission by the Design-Builder of bills of sale and proof of required insurance, or such other procedures satisfactory to the Owner to establish the proper valuation of the stored materials and equipment, the Owner's title to such materials and equipment, and to otherwise protect the Owner's interests therein, including transportation to the site.

9.2 RETAINAGE From each progress payment made prior to the time of Substantial Completion, the Owner may retain five percent (5 %) of the amount otherwise due after deduction of any amounts as provided in Paragraph 9.3, and in no event shall such percentage exceed any applicable statutory requirements. If the Owner chooses to use this retainage provision:

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9.2.1 at the time the Work is fifty percent (50%) complete, the Owner shall withhold no additional retainage and pay the Design-Builder the full amount of what is due on account of subsequent progress payments;

9.2.2 the Owner may, in its sole discretion, reduce the amount to be retained at any time;

9.2.3 the Owner may release retainage on that portion of the Work a Subcontractor has completed, in whole or in part, and which work the Owner has accepted;

9.2.4 in lieu of retainage, the Design-Builder may furnish a retention bond acceptable to the Owner, to be held by the Owner.

9.3 ADJUSTMENT OF DESIGN-BUILDER'S APPLICATION FOR PAYMENT The Owner may adjust or reject an application for payment or nullify a previously approved application for payment, in whole or in part, as may reasonably be necessary to protect the Owner from loss or damage based upon the following, to the extent that the Design-Builder is responsible under this Agreement:

9.3.1 the Design-Builder's repeated failure to perform the Work as required by the Contract Documents;

9.3.2 loss or damage arising out of or relating to this Agreement and caused by the Design-Builder to the Owner, or Others to whom the Owner may be liable;

9.3.3 the Design-Builder's failure to pay the Design Professional, Subcontractors for labor, materials, equipment or supplies properly furnished in connection with the Work, provided that the Owner is making payments to the Design-Builder in accordance with the terms of this Agreement;

9.3.4 Defective Work not corrected in a timely fashion;

9.3.5 reasonable evidence of delay in performance of the Work such that the Work will not be completed by the Date of Substantial Completion or the Date of Final Completion, and that the unpaid balance of the Contract Price is not sufficient to offset any direct damages that may be sustained by the Owner as a result of the anticipated delay caused by the Design-Builder; and

9.3.6 reasonable evidence demonstrating that the unpaid balance of the Contract Price is insufficient to fund the cost to complete the Work.

9.3.7 third party claims involving the Design-Builder or reasonable evidence demonstrating that third party claims are likely to be filed unless and until the Design-Builder furnishes the Owner with adequate security in the form of a surety bond, letter of credit or other collateral or commitment which are sufficient to discharge such claims if established.

No later than seven (7) Days after receipt of an application for payment, the Owner shall give written notice to the Design-Builder, at the time of disapproving or nullifying all or part of an application for payment, stating its specific reasons for such disapproval or nullification, and the remedial actions to be taken by the Design-Builder in order to receive payment. When the above reasons for disapproving or nullifying an application for payment are removed, payment will be promptly made for the amount previously withheld.

9.4 OWNER OCCUPANCY OR USE OF COMPLETED OR PARTIALLY COMPLETED WORK

9.4.1 Portions of the Work that are completed or partially completed may be used or occupied by the Owner when (a) the portion of the Work is designated in a Certificate of Substantial Completion, (b) appropriate insurer(s) or sureties consent to the occupancy or use, and (c) appropriate public authorities authorize the occupancy or use. Such partial occupancy or use shall constitute

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Substantial Completion of that portion of the Work. The Design-Builder shall not unreasonably withhold consent to partial occupancy or use. The Owner shall not unreasonably refuse to accept partial occupancy or use, provided such partial occupancy or use is of value to the Owner.

9.5 FINAL PAYMENT

9.5.1 Final payment, consisting of the unpaid balance of the Contract Price, shall be due and payable when the Work is fully completed. Before issuance of final payment, the Owner may request satisfactory evidence that all payrolls, materials bills and other indebtedness connected with the Work have been paid or otherwise satisfied.

9.5.2 In making final payment the Owner waives all claims except for:

9.5.2.1 outstanding liens;

9.5.2.2 improper workmanship or defective materials appearing within one year after the date of Substantial Completion;

9.5.2.3 Work not in conformance with the Contract Documents; and

9.5.2.4 terms of any special warranties required by the Contract Documents.

9.5.3 In accepting final payment, the Design-Builder waives all claims except those previously made in writing and which remain unsettled.

ARTICLE 10

INDEMNITY, INSURANCE, BONDS, AND WAIVER OF SUBROGATION

10.1 INDEMNITY

10.1.1 To the fullest extent permitted by law, the Design-Builder shall indemnify and hold harmless the Owner, Owner's officers, directors, members, consultants, agents and employees (the Indemnitees) from all claims for bodily injury and property damage (other than to the Work itself and other property required to be insured under Paragraph 10.5), including reasonable attorneys' fees, costs and expenses that may arise from the performance of the Work, but only to the extent caused by the negligent acts or omissions of the Design-Builder Subcontractors or anyone employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable. The Design-Builder shall not be required to indemnify or hold harmless the Indemnitees for any negligent acts or omissions of the Indemnitees.

10.1.2 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Design-Builder, its officers, directors or members, Subcontractors or anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable from all claims for bodily injury and property damage, other than property insured under Paragraph 10.5, including reasonable attorneys' fees, costs and expenses, that may arise from the performance of work by Others, but only to the extent caused by the negligent acts or omissions of Others.

10.1.3 **NO LIMITATION ON LIABILITY** In any and all claims against the Indemnitees by any employee of the Design-Builder, anyone directly or indirectly employed by the Design-Builder or anyone for whose acts the Design-Builder may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Design-Builder under Workers' Compensation acts, disability benefit acts or other employee benefit acts.

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10.2 DESIGN-BUILDER'S LIABILITY INSURANCE

10.2.1 Prior to the start of the Work, the Design-Builder shall procure and maintain in force Workers Compensation Insurance, Employers' Liability Insurance, Business Automobile Liability Insurance, and Commercial General Liability Insurance (CGL). The CGL policy shall include coverage for liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, contractual liability, and broad form property damage. The Design-Builder's Employers' Liability, Business Automobile Liability, and Commercial General Liability policies, as required in this Subparagraph 10.2.1, shall be written with at least the following limits of liability:

10.2.1.1 Employers' Liability Insurance

- a. \$1,000,000 Bodily Injury by Accident Each Accident
- b. \$1,000,000 Bodily Injury by Disease Policy Limit
- c. \$1,000,000 Bodily Injury by Disease Each Employee

10.2.1.2 Business Automobile Liability Insurance

- a. \$1,000,000 Each Accident

10.2.1.3 Commercial General Liability Insurance

- a. \$2,000,000 Each Occurrence
- b. \$2,000,000 General Aggregate
- c. \$2,000,000 Products/Completed Operations Aggregate
- d. \$2,000,000 Personal and Advertising Injury Limit

10.2.2 Employers' Liability, Business Automobile Liability and Commercial General Liability coverage required under Subparagraph 10.2.1 may be arranged under a single policy for the full limits required or by a combination of underlying policies with the balance provided by Excess or Umbrella Liability policies.

10.2.3 The Design-Builder shall maintain in effect all insurance coverage required under Subparagraph 10.2.1 with insurance companies lawfully authorized to do business in the jurisdiction in which the Project is located. If the Design-Builder fails to obtain or maintain any insurance coverage required under this Agreement, the Owner may purchase such coverage and charge the expense to the Design-Builder, or terminate this Agreement.

10.2.4 The policies of insurance required under Subparagraph 10.2.1 shall contain a provision that the coverage afforded under the policies shall not be cancelled or allowed to expire until at least thirty (30) Days' prior written notice has been given to the Owner. The Design-Builder shall maintain completed operations liability insurance for one year after acceptance of the Work, Substantial Completion of the Project, or to the time required by the Contract Documents, whichever is longer. Prior to commencement of the Work, Design-Builder shall furnish the Owner with certificates evidencing the required coverage.

10.3 PROPERTY INSURANCE

10.3.1 Before the start of Work, the Owner shall obtain and maintain Builder's Risk Policy upon the entire Project for the full cost of replacement at the time of loss. This insurance shall also name the

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Design-Builder, Subcontractors, Sub-subcontractors, Material Suppliers and Design Professional as named insureds. This insurance shall be written as a Builder's Risk Policy or equivalent form to cover all risks of physical loss except those specifically excluded by the policy, and shall insure at least against the perils of fire, lightning, explosion, windstorm, hail, smoke, aircraft (except aircraft, including helicopter, operated by or on behalf of Design-Builder) and vehicles, riot and civil commotion, theft, vandalism, malicious mischief, debris removal, flood, earthquake, earth movement, water damage, wind damage, testing if applicable, collapse however caused, and damage resulting from defective design, workmanship or material, and material or equipment stored offsite, onsite or in transit. The Owner shall be solely responsible for any deductible amounts or coinsurance penalties. This policy shall provide for a waiver of subrogation in favor of the Design-Builder, Subcontractors, Sub-subcontractors, Material Suppliers and Design Professional. This insurance shall remain in effect until final payment has been made or until no person or entity other than the Owner has an insurable interest in the property to be covered by this insurance, whichever is sooner. Partial occupancy or use of the Work shall not commence until the Owner has secured the consent of the insurance company or companies providing the coverage required in this Subparagraph 10.3.1. Prior to commencement of the Work, the Owner shall provide a copy of the property policy or policies obtained in compliance with this Subparagraph 10.3.1.

10.3.2 If the Owner does not intend to purchase the property insurance required by this Agreement, including all of the coverages and deductibles described herein, the Owner shall give written notice to the Design-Builder and the Design Professional before the Work is commenced. The

Design-Builder may then provide insurance to protect its interests and the interests of the Subcontractors and Sub-subcontractors, including the coverage of deductibles. The cost of this insurance shall be charged to the Owner in a Change Order. The Owner shall be responsible for all of Design-Builder's costs reasonably attributed to the Owner's failure or neglect in purchasing or maintaining the coverage described above.

10.3.2.1 If the Owner does not obtain insurance to cover the risk of physical loss resulting from Terrorism, the Owner shall give written notice to the Design-Builder before the Work commences. The Design-Builder may then provide insurance to protect its interests and the interests of the Subcontractors and Sub-subcontractors against such risk of loss, including the coverage of deductibles. The cost of this insurance shall be charged to the Owner in a Change Order.

10.3.3 Owner and Design-Builder waive all rights against each other and their respective employees, agents, contractors, subcontractors and sub-subcontractors, and the Design Professional for damages caused by risks covered by the property insurance except such rights as they may have to the proceeds of the insurance and such rights as the Design-Builder may have for the failure of the Owner to obtain and maintain property insurance in compliance with Subparagraph 10.3.1.

10.3.4 To the extent of the limits of Design-Builder's Commercial General Liability Insurance specified in Subparagraph 10.2.1 or zero Dollars (\$0.00) whichever is more, the Design-Builder shall indemnify and hold harmless the Owner against any and all liability, claims, demands, damages, losses and expenses, including attorneys' fees, in connection with or arising out of any damage or alleged damage to any of Owner's existing adjacent property that may arise from the performance of the Work, to the extent of the negligent acts or omissions of the Design-Builder, Subcontractor or anyone employed directly or indirectly by any of them or by anyone for whose acts any of them may be liable.

10.3.5 RISK OF LOSS Except to the extent a loss is covered by applicable insurance, risk of loss

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or damage to the Work shall be upon the Design-Builder until the Date of Substantial Completion, unless otherwise agreed to by the Parties.

10.4 OWNER'S INSURANCE

10.4.1 BUSINESS INCOME INSURANCE The Owner may procure and maintain insurance against loss of use of the Owner's property caused by fire or other casualty loss.

10.4.2 OWNER'S LIABILITY INSURANCE The Owner shall either self-insure or obtain and maintain its own liability insurance for protection against claims arising out of the performance of this Agreement, including without limitation, loss of use and claims, losses and expenses arising out of the Owner's errors or omissions.

10.5 ADDITIONAL LIABILITY COVERAGE

10.5.1 The Owner **shall** require Design-Builder to purchase and maintain liability coverage, primary to Owner's coverage under Subparagraph 10.4.2.

10.5.2 If required by Subparagraph 10.5.1, the additional liability coverage required of the Design-Builder shall be:

[Designate Required Coverage(s)]

X .1 Additional Insured. Owner shall be named as an additional insured on

Design-Builder's Commercial General Liability Insurance specified, for operations and completed operations, but only with respect to liability for bodily injury, property damage or personal and advertising injury to the extent caused by the negligent acts or omissions of Design-Builder, or those acting on Design-Builder's behalf, in the performance of Design-Builder's Work for Owner at the Worksite.

__ .2 OCP. Design-Builder shall provide an Owners' and Contractors' Protective Liability Insurance ("OCP") policy with limits equal to the limits on Commercial General Liability Insurance specified, or limits as otherwise required by Owner.

Any documented additional cost in the form of a surcharge associated with procuring the additional liability coverage in accordance with this Subparagraph shall be paid by the Owner directly or the costs may be reimbursed by Owner to Design-Builder by increasing the Contract Price to correspond to the actual cost required to purchase and maintain the additional liability coverage. Prior to commencement of the Work, Design-Builder shall obtain and furnish to the Owner a certificate evidencing that the additional liability coverages have been procured.

10.6 ROYALTIES, PATENTS AND COPYRIGHTS The Design-Builder shall pay all royalties and license fees which may be due on the inclusion of any patented or copyrighted materials, methods or systems selected by the Design-Builder and incorporated in the Work. The Design-Builder shall defend, indemnify and hold the Owner harmless from all suits or claims for infringement of any patent rights or copyrights arising out of such selection. The Owner agrees to defend, indemnify and hold the Design-Builder harmless from any suits or claims of infringement of any patent rights or copyrights arising out of any patented or copyrighted materials, methods or systems specified by the Owner.

10.7 PROFESSIONAL LIABILITY INSURANCE The Design-Builder shall obtain, either itself or through the Design Professional, professional liability insurance for claims arising from the negligent performance of professional services under this Agreement, which shall be:

General Office Coverage

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written for not less than \$250,000 per claim and in the aggregate with a deductible not to exceed \$25,000. The Professional Liability Insurance shall include prior acts coverage sufficient to cover all services rendered by the Design Professional. This coverage shall be continued in effect for one year(s) after the Date of Substantial Completion.

10.8 BONDING

10.8.1 Performance and Payment Bonds

are not

required of the Design-Builder. Such bonds shall be issued by a surety licensed in the state in which the Project is located and must be acceptable to the Owner.

10.8.2 Such Performance Bond shall be issued in the penal sum equal to one-hundred percent (100%) of the

Contract price, including design and construction.

Not Applicable

Agreed estimated construction cost of the Project as reflected in the Schedule of Values.

Not Applicable

Such Performance Bond shall cover the cost to complete the Work, but shall not cover any damages of the type specified to be covered by the insurance pursuant to Paragraphs 10.2 and 10.3, whether or not such insurance is provided or in an amount sufficient to cover such damages.

10.8.3 The penal sum of the Payment Bond shall equal the penal sum of the Performance Bond. The Design-Builder's payment bond for the Project, if any, shall be made available by the Owner for review and copying by the Subcontractor.

10.8.4 Any increase in the Contract Price that exceeds 10% in the aggregate shall require a rider to the Bonds increasing penal sums accordingly. Up to such 10% amount, the penal sum of the bond shall remain equal to 100% of the Contract Price or as otherwise provided in Subparagraph 10.8.2. The Design-Builder shall endeavor to keep its surety advised of changes within the scope of the initial Agreement potentially impacting the Contract Price or the Dates of Substantial Completion or Final Completion, though the Design-Builder shall require that its surety waives any requirement to be notified of any alteration or extension of time.

ARTICLE 11

SUSPENSION, TERMINATION OF THE AGREEMENT AND OWNER'S RIGHT TO PERFORM DESIGN-BUILDER'S RESPONSIBILITIES

11.1 SUSPENSION BY THE OWNER FOR CONVENIENCE

11.1.1 The Owner may order the Design-Builder in writing to suspend, delay or interrupt all or any part of the Work without cause for such period of time as the Owner may determine to be appropriate for its convenience.

11.1.2 Adjustments caused by suspension, delay or interruption shall be made for increases in the Contract Price or the Date of Substantial Completion or the Date of Final Completion. No adjustment

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shall be made if the Design-Builder is or otherwise would have been responsible for the suspension, delay or interruption of the Work, or if another provision of this Agreement is applied to render an equitable adjustment.

11.2 OWNER'S RIGHT TO PERFORM DESIGN-BUILDER'S OBLIGATIONS AND TERMINATION BY THE OWNER FOR CAUSE

11.2.1 If the Design-Builder persistently fails to perform any of its obligations under this Agreement, the Owner may, after seven (7) Days' written notice, during which period the Design-Builder fails to perform such obligation, undertake to perform such obligations. The Contract Price shall be reduced by the cost to the Owner of performing such obligations.

11.2.2 Upon seven (7) Days' written notice to the Design-Builder and the Design-Builder's surety, if any, the Owner may terminate this Agreement for any of the following reasons:

11.2.2.1 if the Design-Builder persistently utilizes improper materials or inadequately qualified workers;

11.2.2.2 if the Design-Builder does not make proper payment to laborers, material suppliers or contractors provided that the Owner is making payments to the Design-Builder in accordance with the terms of this Agreement;

11.2.2.3 if the Design-Builder persistently fails to abide by the orders, regulations, rules, ordinances or laws of governmental authorities having jurisdiction; or

11.2.2.4 if the Design-Builder otherwise materially breaches this Agreement.

If the Design-Builder fails to cure or commence and continue to cure within the seven (7) Days, the Owner, without prejudice to any other right or remedy, may take possession of the Worksite and complete the Work utilizing any reasonable means. In this event, the Design-Builder shall not have a right to further payment until the Work is completed.

11.2.3 If the Design-Builder files a petition under the Bankruptcy Code, this Agreement shall terminate if the Design-Builder or the Design-Builder's trustee rejects the Agreement or, if there has been a default, the Design-Builder is unable to give adequate assurance that the Design-Builder will perform as required by this Agreement or otherwise is unable to comply with the requirements for assuming this Agreement under the applicable provisions of the Bankruptcy Code.

11.2.4 In the event the Owner exercises its rights under Subparagraph 11.2.1 or 11.2.2, upon the request of the Design-Builder the Owner shall provide a detailed accounting of the cost incurred by the Owner.

11.3 TERMINATION BY OWNER WITHOUT CAUSE If the Owner terminates this Agreement other than as set forth in Paragraph 11.2, the Owner shall pay the Design-Builder for all Work executed and for all proven loss, cost or expense in connection with the Work, plus all demobilization costs. In addition, the Design-Builder shall be paid an amount calculated as set forth below:

11.3.1 If the Owner terminates this Agreement prior to commencement of the construction, the Design-Builder shall be paid the unpaid balance of the Design-Builder's design costs as set forth in the Schedule of Values and a premium as set forth below: (Insert here the amount agreed to by the Parties)

No Premium

11.3.2 If the Owner terminates this Agreement after commencement of the construction, the

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Design-Builder shall be paid the unpaid balance of the Design-Builder's design costs as set forth in the Schedule of Values, the Construction services provided to date and a premium as set forth below: (Insert here the amount agreed to by the Parties)

No Premium

11.3.3 The Owner shall also pay to the Design-Builder fair compensation, either by purchase or rental at the election of the Owner, for all equipment retained. The Owner shall assume and become liable for obligations, commitments and unsettled claims that the Design-Builder has previously undertaken or incurred in good faith in connection with the Work or as a result of the termination of this Agreement. As a condition of receiving the payments provided under this Article 11, the Design-Builder shall cooperate with the Owner by taking all steps necessary to accomplish the legal assignment of the Design-Builder's rights and benefits to the Owner, including the execution and delivery of required papers.

11.4 TERMINATION BY THE DESIGN-BUILDER

11.4.1 Upon seven (7) Days' written notice to the Owner, the Design-Builder may terminate this Agreement for any of the following reasons:

11.4.1.1 if the Work has been stopped for a thirty (30) Day period;

- a. under court order or order of other governmental authorities having jurisdiction; or
- b. as a result of the declaration of a national emergency or other governmental act emergency during which, through no act or fault of the Design-Builder, materials are not available;

11.4.1.2 if the Work is suspended by the Owner for thirty (30) Days; or

11.4.1.3 if the Owner fails to furnish reasonable evidence that sufficient funds are available and committed for the entire cost of the Project in accordance with Subparagraph 4.1.3 of this Agreement.

11.4.2 If the Owner has for thirty (30) Days failed to pay the Design-Builder pursuant to Subparagraph 9.1.3, the Design-Builder may give written notice of its intent to terminate this Agreement. If the Design-Builder does not receive payment within seven (7) Days of giving written notice to the Owner, then upon seven (7) Days' additional written notice to the Owner, the Design-Builder may terminate this Agreement.

11.4.3 Upon termination by the Design-Builder in accordance with Subparagraph 11.4.1, the Design-Builder shall be entitled to recover from the Owner payment for all Work executed and for all proven loss, cost or expense in connection with the Work, plus all demobilization costs and reasonable damages. In addition, the Design-Builder shall be paid an amount calculated as set forth either in Subparagraph 11.3.1 or 11.3.2, depending on when the termination occurs, and Subparagraph 11.3.3.

ARTICLE 12 DISPUTE RESOLUTION

12.1 **WORK CONTINUANCE AND PAYMENT** Unless otherwise agreed in writing, the Design-Builder shall continue the Work and maintain the approved schedules during any dispute mitigation or resolution

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proceedings. If the Design-Builder continues to perform, the Owner shall continue to make payments in accordance with the Agreement.

12.2 DIRECT DISCUSSIONS If the Parties cannot reach resolution on a matter relating to or arising out of the Agreement, the Parties shall endeavor to reach resolution through good faith direct discussions between the Parties' representatives, who shall possess the necessary authority to resolve such matter and who will record the date of first discussions. If the Parties' representatives are not able to resolve such matter within five (5) business Days of the date of first discussion, the Parties' representatives shall immediately inform senior executives of the Parties in writing that resolution was not affected. Upon receipt of such notice, the senior executives of the Parties shall meet within five (5) business Days to endeavor to reach resolution. If the dispute remains unresolved after fifteen (15) Days from the date of first discussion, the Parties shall submit such matter to the dispute mitigation and dispute resolution procedures selected herein.

12.3 MITIGATION If the Parties select one of the dispute mitigation procedures provided in this Paragraph 12.3, disputes remaining unresolved after direct discussions shall be directed to the selected mitigation procedure. The dispute mitigation procedure shall result in a nonbinding finding on the matter, which may be introduced as evidence at a subsequent binding adjudication of the matter, as designated in Paragraph 12.5. The Parties agree that the dispute mitigation procedure shall be:

(Designate only one)

Project Neutral

Dispute Review Board

12.3.1 MITIGATION PROCEDURES The Project Neutral/Dispute Review Board shall be mutually selected and appointed by the Parties and shall execute a retainer agreement with the Parties establishing the scope of the Project Neutral's/Dispute Review Board's responsibilities. The costs and expenses of the Project Neutral/Dispute Review Board shall be shared equally by the Parties. The Project Neutral/Dispute Review Board shall be available to either Party, upon request, throughout the course of the Project, and shall make regular visits to the Project so as to maintain an up-to-date understanding of the Project progress and issues and to enable the Project Neutral/Dispute Review Board to address matters in dispute between the Parties promptly and knowledgeably. The Project Neutral/Dispute Review Board is to issue nonbinding finding(s) within five (5) business Days of referral of the matter to the Project Neutral, unless good cause is shown.

12.3.2 If the matter remains unresolved following the issuance of the nonbinding finding by the mitigation procedure or if the Project Neutral/Dispute Review Board fails to issue nonbinding findings within five (5) business Days of the referral, the Parties shall submit the matter to the binding dispute resolution procedure designated in Paragraph 12.5.

12.4 MEDIATION If direct discussions pursuant to Paragraph 12.2 do not result in resolution of the matter and no dispute mitigation procedure is selected under Paragraph 12.3, the Parties shall endeavor to resolve the matter by mediation through the current Construction Industry Mediation Rules of the American Arbitration Association, or the Parties may mutually agree to select another set of mediation rules. The administration of the mediation shall be as mutually agreed by the Parties. The mediation shall be convened within thirty (30) business Days of the matter first being discussed and shall conclude within forty-five (45) business Days of the matter first being discussed. Either Party may terminate the mediation at any time after the first session, but the decision to terminate shall be delivered in person by the terminating Party to the non-terminating Party and to the mediator. The costs of the mediation shall be shared equally by the Parties.

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12.5 **BINDING DISPUTE RESOLUTION** If the matter remains unresolved after submission of the matter to a mitigation procedure or to mediation, the Parties shall submit the matter to the binding dispute resolution procedure selected herein.

(Designate only one)

Arbitration using the current Construction Industry Arbitration Rules of the American Arbitration Association or the Parties may mutually agree to select another set of arbitration rules. The administration of the arbitration shall be as mutually agreed by the Parties.

Litigation in either the state or federal court having jurisdiction of the matter in the location of the Project.

12.5.1 The costs of any binding dispute resolution processes shall be borne by the non-prevailing Party, as determined by the adjudicator of the dispute.

12.5.2 **VENUE** The venue of any binding dispute resolution procedure shall be the location of the Project unless the Parties agree on a mutually convenient location.

12.6 **MULTIPARTY PROCEEDING** The Parties agree that all Parties necessary to resolve a matter shall be Parties to the same dispute resolution procedure. Appropriate provisions shall be included in all other contracts relating to the Work to provide for the joinder or consolidation of such dispute resolution proceedings.

12.7 **LIEN RIGHTS** Nothing in this Article shall limit any rights or remedies not expressly waived by the Design-Builder that the Design-Builder may have under lien laws.

ARTICLE 13 MISCELLANEOUS PROVISIONS

13.1 **ASSIGNMENT** Neither the Owner nor the Design-Builder shall assign its interest in this Agreement without the written consent of the other except as to the assignment of proceeds. The terms and conditions of this Agreement shall be binding upon both Parties, their partners, successors, assigns and legal representatives. Neither Party to this Agreement shall assign the Agreement as a whole without written consent of the other except that the Owner may assign the Agreement to a wholly owned subsidiary of the Owner when the Owner has fully indemnified the Design-Builder or to an institutional lender providing construction financing for the Project as long as the assignment is no less favorable to the Design-Builder than this Agreement. In the event of such assignment, the Design-Builder shall execute all consents reasonably required. In such event, the wholly-owned subsidiary or lender shall assume the Owner's rights and obligations under the Contract Documents. If either Party attempts to make such an assignment, that Party shall nevertheless remain legally responsible for all obligations under the Agreement, unless otherwise agreed by the other Party.

13.2 **GOVERNING LAW** This Agreement shall be governed by the law in effect at the location of the Project.

13.3 **SEVERABILITY** The partial or complete invalidity of any one or more provisions of this Agreement shall not affect the validity or continuing force and effect of any other provision.

13.4 **NO WAIVER OF PERFORMANCE** The failure of either Party to insist, in any one or more instances, on the performance of any of the terms, covenants or conditions of this Agreement, or to

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exercise any of its rights, shall not be construed as a waiver or relinquishment of such term, covenant, condition or right with respect to further performance.

13.5 TITLES AND GROUPINGS The title given to the articles of this Agreement are for ease of reference only and shall not be relied upon or cited for any other purpose. The grouping of the articles in this Agreement and of the Owner's specifications under the various headings is solely for the purpose of convenient organization and in no event shall the grouping of provisions, the use of paragraphs or the use of headings be construed to limit or alter the meaning of any provisions.

13.6 JOINT DRAFTING The Parties to this Agreement expressly agree that this Agreement was jointly drafted, and that both had opportunity to negotiate its terms and to obtain the assistance of counsel in reviewing its terms prior to execution. Therefore, this Agreement shall be construed neither against nor in favor of either Party, but shall be construed in a neutral manner.

13.7 RIGHTS AND REMEDIES The Parties' rights, liabilities, responsibilities and remedies with respect to this Agreement, whether in contract, tort, negligence or otherwise, shall be exclusively those expressly set forth in this Agreement.

13.8 OTHER PROVISIONS

ARTICLE 14 EXISTING CONTRACT DOCUMENTS

The Contract Documents in existence at the time of execution of this Agreement are as follows:

Exhibit No. 1

The following Exhibits are a part of this Agreement:

EXHIBIT NO. 1 Proposal Letter, Scope of Work, Cost Breakdown, and Construction Schedule dated May 23, 2013, prepared by Story Construction Co. to Newlink Genetics Corporation. (30 pages.)

This Agreement is entered into as of the date entered in Article 1.

OWNER: NEWLINK GENETICS CORPORATION

BY: /s/ Nick Vahanian

PRINT NAME: Nick Vahanian

PRINT TITLE: President

OWNER: NEWLINK GENETICS CORPORATION

BY: /s/ Charles Link

PRINT NAME: Charles Link

PRINT TITLE: Chief Executive Officer

OWNER: NEWLINK GENETICS CORPORATION

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BY: /s/ Gordon Link

PRINT NAME: Gordon Link

PRINT TITLE: Chief Financial Officer

DESIGN-BUILDER: STORY CONSTRUCTION CO.

BY: /s/ Patrick L. Geary

PRINT NAME: Patrick L. Geary

PRINT TITLE: Chief Operating Officer

END OF DOCUMENT

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May 23, 2013

Dr. Nick Vahanian
NewLink Genetics Corporation 2901 South Loop Drive, Suite 3900 Ames, Iowa 50010

Re: Phase 7 - Remodel of Existing Phase 1 and Phase 2 Building 5, Iowa State University Research Park Ames, Iowa

Dear Dr. Vahanian,

In response to your request, we are pleased to submit our revised proposal for the general, mechanical and electrical work to remodel areas previously built-out during Phase 1 and 2 within Building 5 on the Iowa State University Research Park Campus in Ames, Iowa.

Our proposal is in the amount of \$811,970.00. We propose performing this work using AGC Consensus Document 415 - Agreement and General Conditions Between Owner and Design-Builder (Lump Sum Based on the Owner's Program Including Schematic Design Documents). The proposal only includes the work specifically shown on the referenced documents and listed in the enclosed Scope of Work. We have enclosed a breakdown of the proposal amount for informational purposes. We are offering the following alternate for your consideration:

- Alternate 1- Roof mounted make-up air unit..... \$ 196,045.00
- Alternate 2- Condensed 28 Day Construction Schedule\$ 114,090.00
- Alternate 3- Condensed 35 Day Construction Schedule \$69,660.00
- Alternate 3 - Provide a 24" deep Pass-through in lieu of a 14" deep Pass-through\$3,990.00

Our base bid proposal is based upon receiving an executed contract and notice to proceed by May 29th, starting the work on September 3rd and obtaining substantial completion by November 1st. Our proposal is valid for two (2) days.

Thank you for the continued opportunity to work with NewLink Genetics Corporation.

Sincerely,

STORY CONSTRUCTION CO.

Jamie A. Rochleau
Project Manager

CC: Dr. Jay Ramsey, NewLink Genetics Corporation
Carl Langren, NewLink Genetics Corporation
Dallis Sonksen, ISU Research Park Corporation



NewLink Genetics - Phase 7 Ames, Iowa

Based upon Drawings E1.0 dated March 25 and A1.0, A1.1 , A1.2, A1.3 and A6.0, all dated April 11, 2013; all prepared by Story Design Ltd.; Project Manual Specifications dated April 2, 2013; all prepared jointly by Story Construction Co. and Story Design Ltd.; and the following Scope of Work dated April 26, 2012, prepared by Story Construction Co.

Scope of Approximate Work Project Size: 11,700 square feet total

Project Scope Inclusions:

Division 1

1. City of Ames building permit and plan review fees .
2. Architectural, Structural, Mechanical and Electrical Design Services.
3. Supervision and project management.
4. Construction layout.
5. Temporary sanitary facilities .
6. Cellular phone use charges for construction.
7. Return air filters for existing air handling units for temporary conditioning of the space during construction.
8. Disposal fees .
9. Dustproof partitions separating tenant occupied areas from construction areas .
10. Protection of existing finishes.
11. Temporary enclosures for exterior openings during construction.
12. Equipment and tools.
13. Progress and final cleaning.
14. As-built drawings and operation and maintenance manuals.
15. Owner and tenant training .
16. One year warranty from date of Substantial Completion.

Division 2

Selective Demolition

1. Demolition of existing doors, frames and hardware as indicated.
2. Demolition of existing gypsum board wall and ceiling assemblies as indicated.
3. Demolition of existing suspended acoustical ceiling systems as indicated.
4. Demolition of existing flooring finishes and wall base as indicated.
5. Demolition and reinstallation of one (1) existing pass-through located in Room 5446.
6. Demolition of existing slab on grade concrete as necessary for rough-in of underground plumbing.
7. Demolition of existing fully adhered membrane roofing, recovery board, insulation, and metal deck for new screenwall structural supports and roof top unit's.

Division 3

Cast In Place Concrete

1. Reinforce, place, and finish 4" concrete slab on grade to infill demolished openings in existing 4" slab for underground rough-in.

Division 4

Not applicable. **Division 5** Structural Steel

1. New screen-wall structure consisting of tube steel columns with top and bottom angle for screen wall support .
2. Miscellaneous framing angles beneath existing roof deck for screen-wall structural support and roof top unit opening deck support.
3. Miscellaneous steel to modify existing steel joists as necessary to support new roof top units.
4. . Roof opening framing for duct penetrations through existing steel deck .

Division 6

Rough Carpentry

1. Wood blocking in walls to support door hardware.
2. Wood blocking in walls to support new plumbing fixtures in Rooms 5340 and 5345.
3. Wood blocking in walls to support pass-through cabinets in Rooms 5315, 5320, 5408 and 5446.

Division 7

Insulation

1. Full height batt insulation in all interior wall partitions.

Metal Wall Panels

1. Wall panels and trim for new mechanical screen wall as shown on Drawing A 1.3. Metal wall panels to screen 6'-0' of vertical surface.

EPDM Roofing

1. Flash five (5) 4"x4" tube steel column penetrations for screenwall around new RTU-19.
2. Flash four (4) 1" to 6" pipe penetrations for plumbing and electrical.
3. Flash one (1) rooftop unit curb (8'-4" wide x 17'-0" long) for new RTU-19
4. Flash one (1) roof top unit curb (Approximately 4'-8" wide x 6'-0" long) for relocated RTU-12.
5. Provide and install weather-tight cap for existing curb to remain at original RTU-12 exhaust fan curb locations.
6. Flash one (1) new exhaust fan curb.

Joint Sealants

1. Perimeter of all door frames.
2. Perimeter of all pass-through openings.
3. Top of caved base.

Division 8

Doors and Hardware

1. Hollow metal doors and frames for new openings as scheduled in the Contract Documents. Hollow metal doors are 18 gage and hollow metal frames are 16 gage.
2. Flush wood doors for new openings as scheduled in the Contract Documents. Wood doors will be equal to Graham , Plain Sliced Red Oak , Factory Finish, Color 800.
3. Door hardware as scheduled in the Contract Documents.

Division 9

Gypsum Board Systems

1. Tie-in hollow metal door and borrow-light frames.
2. Provide light gage metal framing (LGM) for new walls, chases and bulkheads, where shown .
3. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
4. Provide and install LGM framing at ends of walls left to remain after demolition as necessary to receive gypsum board.
5. Framing Room Clarification Notes:
 - a. Hallway 5060: Provide and install new wall framing for the North and South walls. New wall framing to tie into existing wall framing.
 - b. Corridor 5200: Provide and install new wall framing for the North wall at the West end of the Corridor . New wall framing to tie into existing wall framing.
 - c. Room 5201: Provide and install new bulkhead framing above aluminum entrance at Opening 5201.
 - d. Room 5207: Provide and install new wall framing for West wall.
 - e. Room 5305: Provide and install new wall framing on East and West walls. Provide and install new wall framing and tie into existing wall framing on North wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
 - f. Room 5315: Provide and install framing for new pass-through opening on plan North wall. Framing shall support pass-through shelf and shall extend from shelf vertically to gypsum board ceiling.
 - g. Room 5320: Provide and install framing for new pass-through opening on plan North and East wall. Framing shall support pass-through shelf and shall extend from shelf vertically to gypsum board ceiling.
 - h. Room 5340: Provide and install wall framing for all new walls as shown on drawings . Tie into existing framing where new wall meet existing walls.
 - i. Room 5345: Provide and install wall framing for all new walls as shown on drawings . Tie into existing framing where new wall meet existing walls.
 - j. Corridor 5401: Provide and install wall framing at South end of Corridor as shown on drawings. Tie into existing framing where new walls meet existing walls. Corridor has extended to the South. Provide and install wall framing at South end of Corridor as shown on drawings. Tie into existing framing where new walls meet existing walls.
 - k. Corridor 5405: Provide and install wall framing at East end of Corridor. Provide end of wall framing after demo for Openings 5433, 5445 and 5447. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
 - l. Room 5408: Provide and install framing for new pass-through opening on plan

East wall. Framing shall support pass-through shelf and shall extend from shelf vertically to gypsum board ceiling.

- m. Room 5410: Provide bottom track wall framing for bulkhead between Room 5410 and Room 5416.
- n. Room 5430: Provide and install wall framing for new South wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- o. Room 5431: Provide and install wall framing for new North wall and door infill for East wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- p. Room 5433: Provide and install wall framing for new door infill on West and South walls . Provide and install wall framing for East wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings. The North elevation chase is required to extend East to 1' West of Opening 5433. Provide new wall framing, insulation , 5/8" type 'X' gypsum and level 5 finish and vinyl cove at all interior corners and vinyl bullnose at all exterior corners .
- q. Room 5434: Provide and install wall framing for North wall door infill, East wall and walls for Room 5435. Provide and install suspended framing (650 Grid) for new gypsum board ceilings .
- r. Room 5435: Provide and install wall framing for all walls and extend East and West wall North to Corridor 5400 as shown on drawings. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- s. Room 5440: Provide and install wall framing for West wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- t. Room 5445: Provide and install wall framing for South, East and West walls as shown on the drawing. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- u. Room 5446: Provide and install wall framing for all new walls as shown on drawings. Tie into existing framing where new walls meet existing walls. Provide and install framing for new pass-through opening on West wall. Framing shall support pass-through shelf and shall extend from shelf vertically above acoustic ceiling.
- v. Room 5447: Provide and install wall framing for new West wall. Provide and install suspended framing (650 Grid) for new gypsum board ceilings.
- w. Room 5450: Provide and install wall framing for new West and South walls, including door infill. Tie into existing walls where new walls meet existing walls. A chase is required adjacent to Room 5447. Provide new wall framing, insulation, 5/8" type 'X' gypsum and level 5 finish. The new wall is located 1' South of Room 5447's South elevation wall and will create a chase between Room 5450 and 5447.

- x. Room 5452: Provide and install wall framing for new walls and infill as shown on drawings. Tie into existing walls where new walls meet existing walls.
 - y. Room 5455: Provide and install wall framing for new North and West walls. Tie into existing framing where new walls meet existing walls.
 - z. Room 5457: Provide and install wall framing for new walls as shown on drawings . Tie into existing walls where new walls meet existing walls. Provide and install suspended framing (650 Grid) for new gypsum board ceilings. A chase is required adjacent to Room 5445. Provide new wall framing, insulation, 5/8" type 'X' gypsum, level 5 finish and vinyl cove at all interior corners and vinyl bullnose at all exterior corners. The new wall is located 1' South of Room 5445's South elevation wall and will run from Room 5457's West elevation wall and return at Opening 5457.
6. Provide and install 5/8" type 'X' gypsum board over new wall framing where indicated at pass-through wall framing.
7. Provide and install 5/8" type 'X' gypsum board over ends of existing walls .
8. Provide and install 5/8" type 'X' gypsum board over suspended ceiling framing where indicated.
9. Provide and install 'gasketed' expansion joints as following to control cracking.
- a. Vertically at hinge and strike jambs , int./ext. sides of door openings.
 - b. Vertically every 20'-0" minimum wall distance.
 - c. Horizontally in ceilings from lights fixture to light fixture, two per room minimum from North wall to South wall.
10. Provide and install vinyl cove at all interior corners and vinyl bullnose at all exterior corners of iso level rooms.
11. Tape and finish all new gypsum board surfaces to Level 5 standard. Tape and blend new wall surfaces into adjacent wall surfaces appropriately where tied in.
12. Gypsum Room Clarification Notes:
- a. Hallway 5000: Install 5/8" type 'X' gypsum board over new wall framing on North wall. Install vinyl cove at all interior corners and tie into existing walls as necessary .
 - b. Hallway 5060: Install 5/8" type 'X' gypsum board over new wall framing on North wall and south wall. Install vinyl cove at all interior corners and tie into existing walls as necessary.
 - c. Corridor 5200: Install 5/8" type 'X' gypsum board over new wall framing on North wall at East West end of Corridor. Install vinyl cove at all interior corners and tie into existing walls as necessary .
 - d. Room 5201: Install 5/8" type 'X' gypsum board over new bulkhead framing at Opening 5201. Install vinyl cove at all interior corners and tie into existing walls as necessary .
 - e. Room 5205: Install new 5/8" type 'X' gypsum board on North wall where chase was demoed. Install new 5/8" type 'X' gypsum board over new wall framing on East wall.
 - f. Room 5207: Install new 5/8" type 'X' gypsum board over new wall framing on West wall.
 - g. Room 5305: Install 5/8" type 'X' gypsum board over new wall framing on North, East and West walls . Install vinyl cove at all interior corners and tie into existing walls as necessary.

- h. Room 5315: Install 5/8" type 'X' gypsum board over new wall framing where indicated as pass-through wall framing on North wall. Install vinyl cove at all interior corners and vinyl bullnose at all exterior corners.
- i. Room 5320: Install 5/8" type 'X' gypsum board over new wall framing where indicated as pass-through wall framing on North and East walls. Install vinyl cove at all interior corners and vinyl bullnose at all exterior corners.
- j. Room 5325: Complete finish on gypsum around pass-through on West wall.
- k. Room 5340: Install 5/8" type 'X' gypsum board over new wall framing and complete finish of new walls into existing walls.
- l. Room 5345: Install 5/8" type 'X' gypsum board over new wall framing. Complete finish of new walls into existing walls.
- m. Corridor 5400: Install 5/8" type 'X' gypsum board over new wall framing for infill opening at Room 5434 and framing at Room 5435.
- n. Corridor 5405: Install 5/8" type 'X' gypsum board over new wall framing at East end of Corridor. Complete the finish on gypsum around pass through on East wall. Install 5/8" type 'X' gypsum board over new ceiling framing for entire corridor. Install vinyl cove at all interior corners .
- o. Room 5408: Install 5/8" type 'X' gypsum board over new wall framing where indicated as pass-through wall framing on East wall. Install vinyl cove at all interior corners and vinyl bull nose at all exterior corners. Complete the finish of gypsum around pass-through on South wall.
- p. Room 5410: Install gypsum board at bulkhead located in new Room 5410 complete with vinyl bullnose at outside corners . Tape and finish to level 5 standards. Complete the finish of gypsum around pass-through on South and West walls. Patch with 5/8" type 'X' gypsum and finish North and South walls where partition wall was removed.
- q. Room 5430: Install 5/8" type 'X' gypsum board over new wall framing on South wall. Install vinyl cove at all interior corners and tie into existing walls .
- r. Room 5431: Install 5/8" type 'X' gypsum board over new wall framing on North and East walls . Install vinyl cove at all interior corners and tie into existing walls .
- s. Room 5433: Install 5/8" type 'X' gypsum board over new infill wall framing on West and South walls. Install 5/8" type 'X' gypsum board over new wall framing on East wall.
- t. Room 5434: Install 5/8" type 'X' gypsum board over new wall framing on North and East walls. Install vinyl cove at all interior corners and tie into existing walls .
- u. Room 5435: Install 5/8" type 'X' gypsum board over new wall framing on all walls including East and West wall extending to existing framing along Corridor 5400.
- v. Room 5440: Install 5/8" type 'X' gypsum board over new wall framing on West wall. Install vinyl cove at all interior corners and tie into existing walls .
- w. Corridor 5401: Install 5/8" type 'X' gypsum board over new wall framing at South end of corridor.
- x. . Room 5445: Install 5/8" type 'X' gypsum board over new wall framing on South, West and East walls. Install vinyl cove at all interior corners and tie into existing walls .
- y. . Room 5446: Install 5/8" type 'X' gypsum board over new wall framing and chase framing . Install vinyl cove at all interior corners, vinyl bullnose at exterior corners and tie into existing walls .
- z. Room 5447: Install 5/8" type 'X' gypsum board over new West wall framing . Install vinyl cove at all interior corners.

- aa. Room 5450: Install 5/8" type 'X' gypsum board over new wall framing as shown on drawings. Install vinyl cove at all interior corners .
- bb. Room 5452: Install 5/8" type 'X' gypsum board over new wall framing as shown on drawings . Install vinyl cove at all interior corners.
- cc. Room 5455: Install 5/8" type 'X' gypsum board over new wall framing on North and West walls. Install vinyl cove at all interior corners .
- dd. Room 5457: Install 5/8" type 'X' gypsum board over new wall framing as shown on drawings . Install vinyl cove at all interior corners and tie into existing walls.

Acoustical Ceilings

- 1. Install new wall mold, grid, hangers, track, splicing, trim and ceiling tile panels at the following locations:
 - a. Hallway 5060.
 - b. Corridor 5200.
 - c. Room 5340.
 - d. Room 5446.
 - e. Room 5345.
 - f. Room 5450.
 - g. Room 5452.
 - h. Room 5455.
- 2. Provide rework and/or installation of new wall mold, grid, hangers, track , splicing, trim and ceiling tile panels at the following locations:
 - a. New wall above opening 5201.
 - b. New wall between Room 5205 and 5207.
 - c. New wall at Hallway 5000 at opening 5060.
 - d. New wall at Dirty Corridor 5401 provide and install new wall mold, grid, hangers, track, splicing, trim and ceiling tile panels in Corridor 5401 from Opening 5060A to approximately grid line F. At approximately grid line F, tie new acoustic ceiling into existing acoustic ceiling .
 - e. New wall at Dirty Corridor 5400 outside new Room 5435 and at door infill to Room 5434.
 - f. New wall at West end of Corridor 5200, next to opening 5305A.

Floor Coverings

- 1. Floor Prep.
 - a. Leveling and patching compounds for preparation of flooring materials. Floor transition preparation and accessories at transitions to differing flooring materials.
- 2. Resilient Base and Accessories
 - a. Clarification notes:
 - i. Provide and install base at new walls complete with adhesives (transition to existing where applicable) at the following locations:
 - 1. Hallway 5060.
 - 2. Corridor 5200.
 - 3. Room 5205.
 - 4. Room 5207.

5. Room 5340.
6. Room 5345.
7. Corridor 5401.
8. Room 5444.
9. Room 5450.
10. Room 5452.
11. Room 5455.

ii. Provide and install new base at the following existing wall locations:

1. Hallway Existing 5000. Five feet on either side of the new North wall partition.
2. Hallway 5060. New base at all existing walls .
3. Corridor 5200. New base at all existing walls.
4. Vestibule 5201. New base at existing walls where new opening 5201 is installed.
5. QA/QC/MANU 5205. New base at existing walls where new opening 5201 is installed and new East partition wall at Room 5207 is installed.
6. Room 5207. New base at existing walls.
7. Corridor 5401. Transition new base to existing base.
8. Room 5444. New base at existing walls.
9. Room 5450. New base at existing walls.
10. Room 5452. New base at existing walls.
11. Room 5455. New base at existing walls.

b. All base including adhesives.

3. Carpet Tile

a. All carpet tile replacement including adhesives, seam sealers, transition strips at the following locations:

- i. Room 5201.
- ii. Room 5205.

4. Sheet Vinyl

a. All vinyl including adhesives , heat welding and transition strips at the following locations:

- i. Corridor 5200.
- ii. Room 5207.
- iii. Room 5305.
- iv. Corridor 5400.
- v. Corridor 5401. Provide and install sheet vinyl at the South end of Corridor 5401. New sheet vinyl from Opening 5060A to approximately Grid Line F.
Transition new sheet vinyl to existing. Provide transition strip at Opening 5060A to polished concrete.
- vi. Corridor 5405.
- vii. Room 5430.
- viii. Room 5431.
- ix. Room 5433.
- x. Room 5434.

- xi. Room 5435.
- xii. Room 5440.
- xiii. Room 5444.
- xiv. Room 5445.
- xv. Room 5447.
- xvi. Room 5450.
- xvii. Room 5455.
- xviii. Room 5457.

5. Ceramic Tile

- a. All floor and base tile.
- b. Transitions at tile flooring to other flooring materials.
- c. Must use wetting agent for all cuts or use a wet saw.
- d. Skim coat around floor drains.
- e. Final clean of all hard surfaces installed.
- f. The following Rooms are to receive ceramic tile flooring and base:
 - i. 5340.
 - ii. 5345.

6. Clarifications:

- a. At Hallway 5000 repair/replace vinyl base around opening 5060. Allow for a 4' section.
- b. In Room 5410 install new sheet vinyl where partition wall is being removed. Allow for 2' x 23' section with base. Sheet vinyl should be heat welded to existing.
- c. In Corridor 5400 install new sheet vinyl and base and heat weld to existing at locations removed during demo at Door 5435A.
- d. In Room 5446 repair/replace sheet vinyl and base where new partition wall is being installed. Allow for 2' x 17' section.
- e. At Corridor 5405 install new sheet vinyl and base and heat weld to existing where new partition wall is being installed. Refer to floor plan for quantity .
- f. At Room 5205 allow for 2' x 6' vinyl patch and base along new east partition wall and new Door 5201.
- g. At Corridor 5300 repair/replace sheet vinyl and base where new partition wall and Door 5305 is located. Allow for 2' x 7' section .

Painting

- 1. Exterior painting of screen-wall structural supports.
- 2. Provide and install joint sealant at perimeter joint between hollow metal frames and new gypsum board walls and ceilings.
- 3. Paint all new hollow metal doors, frames and side lites.
- 4. Paint existing double doors and frames on east elevation of Hallway 5060 and Corridor 5401.
- 5. Paint all new gypsum board walls, ceilings and bulkheads as noted.
 - a. Hallway 5000: New partition wall located at North end of corridor.
 - b. Hallway 5060: New North and South partition walls .
 - c. Corridor 5200: New partition walls located at West end of corridor.

- d. Room 5201: New bulkhead above opening 5201.
 - e. Room 5205: East partition wall adjacent to Room 5207 and new bulkhead above opening 5201.
 - f. Room 5207: West partition wall adjacent to Room 5205.
 - g. Corridor 5300: East partition wall adjacent to Room 5305.
 - h. Room 5305: North, East and West partition walls. New ceiling.
 - i. Room 5340: New partition walls.
 - j. Room 5345: New partition walls .
 - k. Corridor 5400: New partition walls and door infill.
 - l. Corridor 5401: New partition walls at South end of Corridor .
 - m. Corridor 5405: Partition walls adjacent to Room 5446. New ceiling.
 - n. Room 5430: New South partition wall. New ceiling.
 - o. Room 5431: New North partition wall and door infill. New ceiling .
 - p. Room 5433: New East partition wall and South and West door infills. New ceiling. The North elevation chase is required to extend east to 1' West of Opening 5433. Provide gypsum board wall and ceiling painting for the revised wall layout.
 - q. Room 5434: New East partition wall and wall adjacent to Room 5435. New door infill. New ceiling.
 - r. Room 5435: New partition walls . New ceiling.
 - s. Room 5440: New West partition wall. New ceiling.
 - t. Room 5442: New partition walls.
 - u. Room 5445: New partition walls. New ceiling.
 - v. Room 5446: Partition walls adjacent to Corridor 5405.
 - w. Room 5447: New West partition wall. New ceiling.
 - x. Room 5450: New South and West partition walls, including door infill.
 - y. Room 5457: New partition walls . New ceiling.
 - z. Protection of all exposed cables, cable trays, floors and all items not to receive paint.
6. Repaint existing gypsum in the following areas as noted:
- a. Hallway 5000: North and East walls.
 - b. Hallway 5060: All walls .
 - c. Corridor 5200: All walls .
 - d. Room 5205: Wall from Northwest corner of Room 5245 to wall adjacent from Room 5207. North wall.
 - e. Corridor 5300: Wall from door frame of Room 5335 to door frame of Room 5201
 - f. Room 5305: All walls .
 - g. Room 5315: North wall.
 - h. Room 5320: North and East walls.
 - i. Room 5325: West wall.
 - j. Room 5345: North and South walls .
 - k. Room 5340: All walls .
 - l. Corridor 5400: Wall from door frame of Room 5427 to door frame of Room 5440.
 - m. Corridor 5401: West wall from opening 5450 to opening 5448 and East wall.
 - n. Corridor 5405: All walls.
 - o. Room 5408: South and East walls.
 - p. Room 5410: North, South and West walls including bulkhead.

- q. Room 5430: A ll walls .
- r. Room 5431 : A ll walls.
- s. Room 5433: South and West walls .
- t. Room 5434: A ll walls.
- u. Room 5440: North and South walls.
- v. Room 5443: Touchup around new floor sink.
- w. Room 5444: Touchup around new floor sink.
- x. Room 5445: North and South walls.
- y. Room 5446: South and West walls.
- z. Room 5450: A ll walls. aa. Room 5452: All walls .
- bb. Room 5455: North, South and East walls .
- cc. Room 5457: North wall.

Division 10

Not applicable . **Division 11**

Not applicable. **Division 12**

Casework

1. Five (5) new 24"x36"x14" pass-thoughts.
2. Reinstall one (1) existing salvaged pass-through in Room 5446.

Division 13

Not applicable. **Division 14**

Not applicable . **Division 15** HVAC

1. RTU-5: Modify controls, ductwork and diffusers as needed to revise the unit service from Clean Corridor to Production Lab.
2. RTU-7&8: The wall between these rooms is being removed. Both units will remain as is. Controls will be modified as necessary.
3. RTU-12: This unit is being relocated from above the gowning room to above Exit 5406. This unit will serve Exit 5406. Ductwork ,diffusers, control dampers and controls will be modified as required

4. RTU-18: Add ductwork , diffusers , control dampers and controls to allow this unit to serve Gowning 5431 and Decon 5457 in addition to its current service.
5. RTU-19: Provide and install new rooftop unit. The unit will serve the Clean Corridor, Exit 5440, Cleaning 5443, Air Lock 5430, Product Staging 5433, Air Lock 5445 and Environmental Monitoring 5447. New ductwork, diffusers and control dampers will be installed or modified as needed to accommodate the increased airflow in the existing spaces and pick up the new rooms.
6. Existing VAV Boxes: Relocate three boxes from the house system, including modification of the hydronic piping as necessary. The duct branch line from the house RTU heading north will be relocated as needed to allow for the installation of units in the lab space.

Plumbing

1. Remove seven existing plumbing fixtures. Remove and cap piping as necessary.
2. Furnish and install two new wall-mounted lavatories and two new mop sinks. Furnish and install water and waste piping as necessary. Insulate water piping similar to existing .

Medical Gasses

1. Install one new CO2 drop in the new production lab and relocate the existing CO2 header to the new gas manifold room.

Division 16

Lighting

1. We will reuse most of the existing fixtures and order the following (9) F2, (1) F4, (7) F7, (4) Em lights.
2. (6) Occupancy sensor in rooms and offices.

Devices

1. All devices to be 20 amp specification grade.
2. (8) Single pole switches, (4) 3 ways, (14) four plexs, (18) duplex's.

Switchgear

1. Add 200amp circuit breaker, and a 150amp circuit breaker to DP2.

Fire Alarm

1. Addressable system by NOTIFIER.
2. (6) Visual.

Telecom

1. (5) Voice data / jacks with wiring.

General

1. All wire and cable will be copper.

Alternates

Alternate 1 - Roof Mounted Make-up Air Unit

1. Install four new structural columns and four new beams to support new equipment load.
2. Flashing of new columns into existing roof system.
3. Relocate make-up air unit from Chem. Lab on the roof near room 5433. This unit would be 100% OA and have VFD, OX cooling and modulating gas heat. The unit would be ducted to the outdoor air intake of RTUs 2 through 19 and have an on/off control damper at each unit for emergency use.
4. Power to new make-up air unit.
5. Provide and install one (1) new smaller make up air unit at Chem. Lab.

Alternate 2 - Condensed 28 Day Construction Schedule

1. Newlink Genetics Corporation completely vacates Phase 1 & 2 Areas scheduled to be remodeled by Friday, August 30, 2013.
2. Story Construction Co. mobilizes and begins construction on Tuesday , September 3, 2013 and is substantially complete by Monday, September 30, 2013. Work to occur during two shifts throughout the week and single shifts throughout the weekend. Price includes premium for shift differential, overtime and double time. Refer to attached Alternate Schedule.
3. Written Notice to proceed with work to be received by Story Construction Co. on or before Wednesday , May 22, 2013. Contracts to be executed on or before Friday, May 24, 2013, to ensure that time sensitive air handling equipment, HEPA filtered diffusers, and light fixture orders can be placed and fabrication can begin.
 - a. AAON Rooftop Unit Cost \$ 76,000.00
 - b. Alternate 1 AAON Rooftop Unit Cost (Chem Lab) \$ 37,000.00
 - c. HEPA Filter Diffusers \$ 31,000.00
 - d. Light Fixtures \$ 9,000.00

Alternate 3 - Condensed 35 Day Construction Schedule

4. Newlink Genetics Corporation completely vacates Phase 1 & 2 Areas scheduled to be remodeled by Friday, August 30, 2013.
5. Story Construction Co. mobilizes and begins construction on Tuesday , September 3, 2013 and is substantially complete by Friday, October 11, 2013. Work to occur during two shifts throughout the week and single shift on Saturday . Price includes premium for shift differential , and overtime. Refer to attached Alternate Schedule.
6. Written Notice to proceed with work to be received by Story Construction Co. on or before Friday, May 24, 2013. Contracts to be executed on or before Wednesday , May 29, 2013, to ensure that time sensitive air handling equipment, HEPA filtered diffusers, and light fixture orders can be placed and fabrication can begin.

Alternate 4- 24" deep Pass-through in lieu of 14" deep Pass-through

1. Provide and install five (5) 24"x36"x24" Stainless Steel Pass-through's in lieu of five (5) 24"x36"x14" Stainless Steel Pass-through's .

Project Scope Exclusions:

All Divisions

Exclusions:

1. Performance and payment bonds.
2. Property Insurance (Builder's Risk)
3. Land cost and financing.
4. Construction power, gas and telephone hook-up and use charges.
5. Removal and disposal of any and all hazardous materials currently onsite such as asbestos, lead paint, buried tanks, etc.
6. Soil borings and soils report.
7. Soil corrections and/or modifications to provide adequate bearing capacity .
8. Winter construction costs (Heated concrete, enclosures, blankets, heaters, heater fuel, ground thawing, etc.)
9. Owner provided equipment and/or existing equipment including: -80 freezers, flammable cabinets , biological safety cabinets , incubators , fridges/freezers , etc.
10. Cold Room Construction .
11. Dismantling and relocating of existing Cold Room. Modifying of existing Cold Room and re-assembling existing Cold Room in other areas.
12. Handling and installation of Tenant furnished equipment.
13. Relocation of Tenant furnished equipment.
14. Costs associated with LEED or building commissioning.
15. Site sign.
16. Costs associated with imported sand for concrete mixes that is free of churl, coal, lignite, iron, etc.
17. Termite treating of subgrade soils and termite control.
18. Sealant at existing and new concrete expansion, isolation and construction joints unless noted otherwise .
19. Building furnishings (Desks, chairs, tables, cubicles, tv's, filing cabinets, fitness equipment, etc.).
20. Food service equipment, dishwasher, refrigerator, microwave, range, kitchen hoods and kitchen hood fire suppression .
21. Vacuum pump equipment.
22. Air compressor equipment.
23. CO2 system equipment.
24. DI water system or unit.
25. RO water system or unit.
26. Liquid nitrogen system.
27. Rework to existing ductwork systems beyond current scope of work .
28. Grease interceptor.
29. Central vacuum system including piping and equipment.
30. Interior or exterior building mounted security cameras and exterior pole mounted security cameras including conduit and wiring.
31. Lightning protection .
32. Generator or UPS.
33. Security system, devices and equipment.
34. Phone system and equipment.
35. Sound systems including conduit and wiring .
36. Anything not specifically listed in inclusions.



Iowa State University Research Park Corporation
 2711 South Loop Drive, Suite 4050
 Ames, Iowa 50010-8648

Memorandum of Agreement

DATE: April 12, 2013

TO: Carl Langren
 NewLink Genetics Corporation
 2503 S. Loop Drive, Suite 5100
 Ames, IA 50010

FROM: Steven T. Carter, President

RE: ADDENDUM TO THE LEASE BETWEEN ISU RESEARCH PARK CORPORATION AND NEWLINK GENETICS CORPORATION DATED MARCH 1, 2010.

The following information constitutes additions to the Lease Agreement between ISU Research Park Corporation (Landlord) and NewLink Genetics Corporation (Tenant). Upon signatures of appropriate representatives of Landlord and Tenant affixed to this Memorandum, this Memorandum becomes a part of that Lease Agreement dated March 1, 2010.

Tenant has requested and Landlord agrees to extend the Lease Agreement to the space in Building 5 Phase II (containing ±11,810 rsf) at 2503 South Loop Drive, in the following manner:

| <u>Term</u> | <u>Rents</u> | <u>Sq. Ft. Base</u> | <u>Sq. Ft. Operating</u> | <u>Monthly Base Rents</u> | <u>Monthly Operating Rents</u> | <u>Annual Base Rents</u> | <u>Annual Operating Rents</u> |
|--------------------|--------------|---------------------|--------------------------|---------------------------|--------------------------------|--------------------------|-------------------------------|
| 8/1/2013-3/31/2018 | \$11.50 | Actual | | \$11,317.92 | Actual | \$135,845.04 | Actual |

NewLink Genetics Corporation
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 April 12, 2013

Landlord shall provide access to State of Iowa appropriations (state funds) through the University of up to \$1,000,000.00 for tenant improvements. These funds differ from previous arrangements as the fund is a grant rather than a loan; therefore, Tenant is not required to repay the state funds. As such, these tenant improvements funded by state funds shall remain the property of the Landlord. The construction plans and design and any changes during construction for such improvements shall be reviewed and approved by Landlord or Landlord's designee, which review shall be done in a timely manner upon Landlord's receipt of such plans and design drawings, and the approval of which shall not be unreasonably withheld. Tenant shall be responsible for costs incurred performing the review. Tenant shall be responsible for all construction being completed and meeting applicable codes, and being consistent with the plans and design approved by Landlord or its designee.

Tenant may request reimbursement from the state funds. Tenant may make no more than three state fund reimbursement requests during construction; being (i) upon completion of one half of the production space, (ii) upon completion of all of the production space, and (iii) upon full completion of all Tenant improvements. At each such time, Tenant shall give Landlord a written acceptance of the improvements completed and provide evidence satisfactory to Landlord or its designee, by proper invoices

reflecting costs appropriate for the nature and extent of the Tenant improvements then completed under the approved construction plans and design, of the total cost of such improvements for which reimbursement is being sought. Tenant shall also provide to Landlord or its designee any contractor's affidavit and executed conditional lien waivers from the contractor and any subcontractors as may be reasonably required by Landlord relating to the cost of the improvements for which reimbursement is being sought. At the time of full completion of all Tenant improvements, the architect for the project shall participate in a final walk through and approve the completed improvements before any reimbursement from the Landlord to Tenant is allowed.

Tenant is responsible for all utility costs and operations shall be consistent with those of Building 5 Phase I. The tenant and landlord shall work together to specify costs each is responsible for based on the Phase 1 lease.

Subject to the terms of this Memorandum, Tenant agrees that all terms and conditions of the March 1, 2010 Lease and those described in this Memorandum shall remain in force.

NewLink Genetics Corporation
Page Three
April 12, 2013

Please sign and return both originals to my office by April 16, 2013 if you concur with the above terms. We shall then send a fully executed copy for your records.

AGREED

FOR
NewLink Genetics Corporation

FOR
ISU Research Park Corporation

/s/ Carl Langren

/s/ Steven C. Carter

VP Finance

Director

Title

Title

4/15/2013

4/15/2013

Date

Date

CERTIFICATION

I, Charles J. Link, Jr., certify that:

1. I have reviewed this quarterly report on Form 10-Q of NewLink Genetics Corporation;
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: August 8, 2013

By: /s/ Charles J. Link, Jr.
Charles J. Link, Jr.
Chief Executive Officer
(Principal Executive Officer)

CERTIFICATION

I, Gordon H. Link, Jr., certify that:

1. I have reviewed this quarterly report on Form 10-Q of NewLink Genetics Corporation;
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)) for the registrant 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: August 8, 2013

By: /s/ Gordon H. Link, Jr.

Gordon H. Link, Jr.

Chief Financial Officer and Secretary

(Principal Financial and Accounting Officer)

CERTIFICATION

Pursuant to the requirements set forth in Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. § 1350), Charles J. Link, Jr., Chief Executive Officer of NewLink Genetics Corporation (the "Company"), and Gordon H. Link, Jr., Chief Financial Officer of the Company, each hereby certifies that, to the best of his knowledge:

1. The Company's Quarterly Report on Form 10-Q for the period ended June 30, 2013, to which this Certification is attached as Exhibit 32.1 (the "Periodic Report"), fully complies with the requirements of Section 13(a) or Section 15(d) of the Exchange Act; and
2. The information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: August 8, 2013

By: /s/ Charles J. Link, Jr.

Charles J. Link, Jr.

Chief Executive Officer

(Principal Executive Officer)

By: /s/ Gordon H. Link, Jr.

Gordon H. Link, Jr.

Chief Financial Officer and Secretary

(Principal Financial and Accounting Officer)

A signed original of this written statement has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its Staff upon request. This certification "accompanies" the Form 10-Q to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of the Company 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 the Form 10-Q), irrespective of any general incorporation language contained in such filing.