



**ALPHA COGNITION INC.**

Management's Discussion and Analysis  
For the three and six months ended June 30, 2021

## MANAGEMENT'S DISCUSSION AND ANALYSIS

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This Management's Discussion and Analysis ("MD&A") of Alpha Cognition Inc. ("ACI" or the "Company"), formerly, Crystal Bridge Enterprises Inc., provides analysis of the Company's financial results for the three and six months ended June 30, 2021. The following information should be read in conjunction with the accompanying audited financial statements and accompanying notes of Alpha Cognition Canada Inc. for the years ended December 31, 2020 and 2019 ("Annual Financial Statements") and the unaudited condensed interim consolidated financial statements and accompanying notes for the three and six months ended June 30, 2021 and 2020 ("Interim Financial Statements") which have been prepared in accordance with International Financial Reporting Standards ("IFRS"). The Board of Directors of the Company have approved the information and disclosures contained in this MD&A. All figures are in United States dollars unless otherwise noted. Additional information relating to the Company is available on SEDAR at [www.sedar.com](http://www.sedar.com).

## FORWARD-LOOKING STATEMENTS

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The Company's Annual Financial Statements and this accompanying MD&A contain statements that constitute "forward-looking statements" within the meaning of National Instrument 51-102. Continuous Disclosure Obligations of the Canadian Securities Administrators.

***It is important to note that, unless otherwise indicated, forward-looking statements in this MD&A describe the Company's expectations as of August 30, 2021.***

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. The information set forth in this MD&A contains statements concerning future results, future performance, intentions, objectives, plans and expectations that are, or may be deemed to be, "forward-looking statements". These statements concerning possible or assumed future results of operations of the Company are preceded by, followed by or include the words "believes", "expects", "anticipates", "estimates", "intends", "plans", "forecasts", or similar expressions. Forward-looking statements are not guarantees of future performance. These forward-looking statements are based on current expectations that involve certain risks, uncertainties and assumptions. Assumptions relating to the foregoing involve judgments with respect to, among other things, future economic, competitive and market conditions and future business decisions, all of which are difficult or impossible to predict accurately and many of which underlying the forward-looking statements are reasonable, any of the assumptions could prove inaccurate. These factors should be considered carefully, and readers should not place undue reliance on forward-looking statements. The Company has no intention and undertakes no obligation to update or revise any forward-looking statements, whether written or oral that may be made by or on the Company's behalf, except as may be required by applicable law.

All of the Company's public disclosure filings may be accessed via [www.sedar.com](http://www.sedar.com) and readers are urged to review these materials.

## COMPANY DESCRIPTION

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ACI is the parent company of Alpha Cognition Canada Inc. ("ACI Canada"), formerly Alpha Cognition Inc. The Company operates from its three offices located in Charlottetown, Prince Edward Island; Vancouver, British Columbia; and West Palm Beach, Florida and is in the business of researching and developing pharmaceutical treatments for neurological diseases. The Company's lead product candidate is ALPHA-1062, a new patented drug developed for the treatment of Alzheimer's Disease. ALPHA-1062 is a next generation Alzheimer's treatment offering alternative routes of administration. The Company is also developing ALPHA-602, Progranulin, a protein that has a potent ability to protect neurons that are under stress. ALPHA-602 is a specific form of Progranulin for the treatment of amyotrophic lateral sclerosis ("ALS").

On March 18, 2021, the Company announced the successful closing of proposed business combination with ACI Canada (the "Transaction"). Pursuant to the Transaction, ACI Canada was acquired by and became a wholly-owned subsidiary of ACI. As part of the Transaction, on March 18, 2021, ACI changed its name to Alpha Cognition Inc. and ACI Canada changed its name to Alpha Cognition Canada Inc. At the time of completion of the Transaction, ACI had 59,171,932 shares issued and outstanding which included 57,531,875 common shares issued to former ACI Canada shareholders, representing 97.23% of the Company's issued and outstanding shares. Initially, the common shares of the Company issued in connection with the Transaction were listed on TSX-V under the ticker symbol "CRYS". Effective March 30, 2021, the trading symbol of ACI was changed to "ACOG".

Upon closing of the Transaction, the shareholders of ACI Canada owned 97.23% of the shares of the Company, and as a result, the transaction is considered a reverse acquisition of the Company by ACI Canada. All previous common shares, share options, and warrants were exchanged at a ratio of one share of ACI Canada for one of ACI. For accounting purposes, ACI Canada is considered the acquirer and the Company, the acquiree. Accordingly, the consolidated financial statements are in the name of Alpha Cognition Inc.; however, they are a continuation of the financial statements of ACI Canada (Refer to Reverse Acquisition section).

### **ALPHA-1062**

ALPHA-1062 is a patented new chemical entity. When absorbed through mucosal tissue or ingested it is enzymatically converted to an active moiety that has previously been approved by U.S. FDA and marketed by Janssen, a wholly-owned subsidiary of Johnson & Johnson, as Razadyne (generic name is galantamine) in North America, and as Reminyl in Europe and elsewhere. Patients treated with Razadyne experience gastrointestinal side effects which can limit its effectiveness. ALPHA-1062 however, prior to conversion and during the absorption and ingestion process, may have reduced gastrointestinal side effects which could result in reduced up-titration periods and may facilitate immediate dosing at therapeutic levels. Drugs that convert from an inert form to an active substance in-situ are referred to as "prodrugs". At the time the Company licensed the ALPHA-1062 technology, only a nasal formulation had been developed, subsequently oral dosage formulations have been developed. The Company will begin pivotal trials of an oral dosage form in Q3, 2021.

The Company's ALPHA-1062 development plan has two primary goals:

- **Clinical Development:** Demonstrate to the satisfaction of regulatory bodies that ALPHA-1062 formulations have a significantly reduced side effect profile and differentiated mechanism of action from existing acetylcholinesterase inhibitor (AChEI) treatments with the exception of galantamine.
- **Regulatory Development:** Demonstrate that a New Drug Application pathway called a 505(b)(2) is available for approval in the United States, allowing commercialization, that relies on the establishment of a scientific bridge to the finding of safety and efficacy of the FDA approved Razadyne utilizing a bioavailability and bioequivalence pivotal study instead of the traditional efficacy trials.

### **ALPHA-1062 Clinical Development**

The original nasal formulation of ALPHA-1062 was used to conduct Phase I human studies, initially by NLS, and subsequently, on completion of the ALPHA-1062 Agreement, by the Company. The Phase I human studies included a single ascending dose study ("**SAD Study**") followed by a multiple ascending dose ("**MAD Study**") study. These Phase I studies were designed to determine the safety of the drug, which was administered to healthy aged patients at increasing doses of ALPHA-1062, initially one time in the SAD Study, and subsequently multiple times over a seven-day period in the MAD Study. These studies indicated that ALPHA-1062 formulation may have reduced gastrointestinal side effects (nausea, diarrhea, vomiting) as compared to one of the existing treatments; Razadyne (galantamine is the generic name).

The Company is scheduled to begin a pivotal trial of an oral dosage form in Q3, 2021, and which is expected to be completed in Q4 2021. Assuming no unanticipated delays, 'Top-line' results of this trial will be reported in Q1, 2022. Successful completion of the pivotal trial would allow the Company to file an NDA in early Q3, 2022, with expected approval FDA approval for the US market 1H, 2023.

- (1) *Commercialization Strategy*: Targeted for the second half of 2021 and continuing thereafter, in parallel with the Company's regulatory activities, the Company will take steps to develop a commercialization team to manage product manufacturing and distribution. The Company intends to commercialize ALPHA-1062 with a best-in-class specialty sales force that will focus on Neurology and Long Term Care physicians in the US. Neurologists that specialize in Alzheimer's treatment make pharmacologic decisions for Alzheimer's patients in a clinical setting. Long term care physicians who treat elderly patients that reside in nursing homes also make pharmacologic decisions in concert with the long term care treatment team. Our research has indicated that the acetylcholinesterase inhibitor (AChEI) prescription market from these two specialties is large, with over 7.5 million prescriptions filled in pharmacies each year. AChEI drugs include Aricept, Exelon, Exelon Patch, Razadyne, and generic versions of each brand. Prescription data suggests that there is currently high turnover of patients treated with currently approved AChEI medications, with 30% of patients discontinuing treatment by month 4 and 45% discontinuing treatment by the end of year 1. The Company believes that patients who discontinue a first therapy will try a 2<sup>nd</sup> line and 3<sup>rd</sup> line therapy. Patient willingness to try multiple therapeutics provides an opportunity for ALPHA-1062 to take market share in the overall AChEI market. The sales force will make potential key points of label differentiation, exploit key issues with existing AChEI medications. Success will be further enabled by deploying a highly targeted and efficient multi-channel market campaign, by motivating caregivers to request ALPHA-1062, and securing product coverage with US payors. Market research indicates that payors are likely to cover ALPHA-1062 if the product is competitively priced. Additionally, Alpha intends to seek strategic partnerships to expand promotional efforts and expand physician promotional coverage. As ALPHA-1062 nears FDA regulatory approval, Alpha will seek distribution partners for major territories, identified as Europe, LATAM (Mexico, Central and South America), and Asia. Additionally the Company intends to seek approval for potential additional indications and product line extensions.

## **ALPHA-0602**

The ALPHA-602 product candidate originated almost a decade ago when it was discovered by two professors at McGill University in Montreal that a protein called Progranulin seemed to show activity for several neurological disorders. Progranulin is a large protein that was found to be present in virtually all living animals and seemed to be used by the body for multiple tasks. Upon further investigation, scientists discovered that the large molecule was made of smaller polypeptides or subunits, referred to as Granulin Epithelin Modules ("**GEMs**").

A safe and effective treatment for ALS remains an unmet medical need. The few treatment options that currently exist for ALS patients, have shown limited effectiveness. ALPHA-0602 is being developed for the treatment of ALS and has been granted Orphan Designation by FDA.

### **ALPHA-0602 Pre-Clinical Development**

ALPHA-0602 has been investigated in preclinical studies designed to stimulate the overproduction of progranulin in validated animal models of neurological disorders, specifically ALS. ALS is a progressive neurodegenerative disease that affects nerve cells in the brain and spinal cord that carry messages from the brain to the muscles (Source: Laird et al. (2010), Chitramuthu et al. (2017)). Initial work with animal models of ALS has been completed indicating that progranulin may be effective in modifying the disease process. Additional in-vitro and in-vivo investigations to validate the effectiveness of this product candidate are ongoing.

### **ALPHA-0602 Regulatory Development**

Completion of the ongoing in-vitro and preclinical program, and selection of a primary biological drug candidate is scheduled for Q2, 2022, at which point, subject to any unanticipated delays, relevant pre-clinical safety studies will be initiated in animal models consistent with US FDA requirements in support of an Investigational New Drug Application by 3H, 2022. The lead drug candidate would follow a conventional Biologics License Application ("BLA") approval process requiring Phase I – III clinical trials to support the use of progranulin or its GEMs for use in treating ALS.

In February 2020, ALPHA-0602 was granted Orphan Drug Designation by the FDA for the use of ALPHA-0602 in the treatment of ALS. The Orphan Drug Designation has a number of significant benefits including:

- (1) tax credits of 50% off the clinical drug testing cost awarded upon approval;
- (2) eligibility for market exclusivity for seven years post approval; and
- (3) waiver of New Drug Application and biologics license application fees, which could amount to approximately US\$2,200,000.

### **Current Year Summary**

Prior to the completion of the reverse acquisition, the Company completed a share consolidation on the basis of one new post-consolidation common share for every 7.14 pre-consolidation common shares. All current and comparative references to the number of common shares, weighted average number of common shares, loss per share, stock options and warrants have been restated to give effect to this share consolidation.

On March 17, 2021, the Company amended its articles to include additional classes of shares to its authorized share capital.

On March 18, 2021, the Company announced the successful closing of the proposed business combination with ACI Canada. Pursuant to the Transaction, ACI Canada was acquired by and became a wholly-owned subsidiary of ACI. Refer to Reverse Acquisition section.

Concurrent to the reverse acquisition transaction, the following occurred:

- ACI Canada and ACI completed a brokered private placement by raising \$4,166,639 by way of the sale of 3,360,124 subscription receipts at a price of CAD\$1.60 per subscription receipt ("Subscription Receipt") with each Subscription Receipt consisting of one common share and one-half warrant ("Private Placement"). Each whole warrant is exercisable at a price of CAD\$2.10 per warrant for a term of 24 months from the closing date. In connection with the Private Placement, ACI Canada agreed to pay a cash commission of \$209,174 and issue 130,733 warrants under the Private Placement to the agents. Each agent warrant is exercisable into common shares of ACI at an exercise price of CAD\$1.60 for a term of 2 years.
- ACI Canada issued 1,613,186 Subscription Receipts on the conversion of \$2,296,019 worth of net convertible debentures.
- ACI Canada issued 2,139,763 Common shares on the conversion of \$1,880,398 worth of net convertible debentures and 94,273 Common shares on the conversion of \$90,735 worth of interest on the convertible debentures.
- The directors of the Company, Pardeep Sangha, Taylor Thoen, Kenneth Hallat and Mark Kohler resigned and the Company appointed Kenneth Cawkell, Frederick Sancilio, John Havens, Len Mertz, Philip Mertz as new directors.

On April 12, 2021, the Company appointed a new CEO, Michael McFadden, and with that Kenneth Cawkell stepped down as CEO of the Company.

On April 27, 2021, the Company appointed Colleen Johns as the Company's Senior Vice President of Product Development.

On May 4, 2021, the Company appointed Lauren D'Angelo as the Company's Chief Commercial Officer.

### **Subsequent Events**

On August 3, 2021, the Company granted 3,150,000 stock options to officers and employees of the Company with an exercise price of CAD\$0.90 per share. The options will be subject to vesting terms of 25% on the first anniversary of the date of grant, and the remaining 75% will vest in equal monthly instalments until the third anniversary of the date of grant.

On August 16, 2021 the Company granted 400,000 stock options with an exercise price of \$1.22 per share to a certain employee of the Company. The options will be subject to the vesting terms of 25,000 options vest on date of grant, 175,000 options will vest quarterly over a 24 month period and 200,000 options vest upon the completion of performance criteria.

On August 16, 2021, the Company granted 300,000 stock options with an exercise price of \$0.80 per share to an employee of the Company. The options will be subject to the vesting terms of 37,500 options vest on date of grant, 112,500 options will vest quarterly over a 24 month period and 150,000 options vest upon the completion of performance criteria.

## **ARRANGEMENT AGREEMENT**

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On October 27, 2020, ACI Canada entered into an Arrangement Agreement with ACI whereby ACI would acquire 100% of the issued and outstanding shares of ACI Canada by issuing to the shareholders of ACI Canada one common share of ACI ("CPC Share") for every one common share of ACI Canada share held by each ACI Canada shareholder (the "Transaction"). Certain US resident ACI Canada shareholders agreed to receive a restricted voting share (a "Restricted Voting Share") in place of a CPC Share which is equivalent to a CPC Share except that it will not be counted in a shareholder vote for the election of directors. In addition, holders of Class C Preferred shares of ACI Canada received one Class B Preferred Share of ACI for each Class C Preferred share of ACI Canada held by such shareholder. The outstanding options and warrants of ACI Canada became convertible into options and warrants of ACI.

On March 18, 2021, the Transaction completed resulting in ACI acquiring 100% of the shares of ACI Canada and ACI Canada's shareholders receiving 42,615,495 post-consolidated common shares, 7,000,000 restricted voting shares, 7,916,380 preferred shares, 11,819,169 warrants, and 10,069,365 share options of ACI. The ACI shareholders retained 1,604,507 common shares on completion of the transaction and the former ACI share option holders were granted 108,543 share options.

The transaction constitutes a reverse acquisition of ACI and has been accounted for as a reverse acquisition transaction in accordance with the guidance provided under IFRS 2, *Share-based Payment* and IFRS 3, *Business Combinations*. As ACI did not qualify as a business according to the definition in IFRS 3, *Business Combination*, this reverse acquisition does not constitute a business combination; rather the transaction was accounted for as an asset acquisition by the issuance of shares of the Company, for the net assets of ACI and its public listing. Accordingly, the transaction has been accounted for at the fair value of the equity instruments granted by the shareholders of ACI Canada to the shareholders and option holders of ACI. The sum of the fair value of the consideration paid (based on the fair value of the ACI shares just prior to the reverse acquisition) less the ACI net assets acquired, has been recognized as a listing expense in profit or loss for the three month period ended March 31, 2021.

For accounting purposes, ACI Canada was treated as the accounting parent company (legal subsidiary) and ACI has been treated as the accounting subsidiary (legal parent) in these condensed interim consolidated financial statements. As ACI Canada was deemed to be the acquirer for accounting purposes, its assets, liabilities and operations since incorporation are included in the condensed interim consolidated financial statements at their historical carrying value. The results of operations of ACI are included in the condensed interim consolidated financial statements from the date of the reverse acquisition of March 18, 2021.

## **CRITICAL JUDGEMENTS AND ESTIMATES**

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The preparation of financial statements in conformity with IFRS requires management to make certain estimates, judgments and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported revenues and expenses during the period.

Although management uses historical experience and its best knowledge of the amount, events or actions to form the basis for judgments and estimates, actual results may differ from these estimates.

The most significant accounts that require estimates as the basis for determining the stated amounts include the valuation of convertible debentures, the valuation of investments in films and intangible assets including goodwill, the valuation of investments in equity instruments, the valuation of share-based compensation and other equity based payments and derivative liability, and the valuation of expected credit loss.

Significant judgements includes the determination of functional currency, assessments over level of control or influence over companies, and the recoverability and measurement of deferred tax assets.

Critical judgment exercised in applying accounting policies that have the most significant effect on the amounts recognized in the financial statements is as follows:

#### Functional currency

Management is required to assess the functional currency of each entity of the Company. In concluding on the functional currencies of the parent and its subsidiaries, management considered the currency that mainly influences the sale prices of goods and services and the cost of providing goods and services in each jurisdiction in which the Company operates. When no single currency was clearly dominant the Company also considered secondary indicators including the currency in which funds from financing activities are denominated and the currency in which funds are retained. As at June 30, 2021, the functional currency of the Company is CAD and its subsidiaries is the USD.

#### Income taxes

In assessing the probability of realizing income tax assets, management makes estimates related to expectation of future taxable income, applicable tax opportunities, expected timing of reversals of existing temporary differences and the likelihood that tax positions taken will be sustained upon examination by applicable tax authorities. In making its assessments, management gives additional weight to positive and negative evidence that can be objectively verified.

#### Going concern

The assessment of the Company's ability to continue as a going concern involves management judgement about the Company's resources and future prospects.

#### Impairment of intangible assets

The application of the Company's accounting policy for intangible assets requires judgment in determining whether it is likely that future economic benefits will flow to the Company, which may be based on assumptions about future events or circumstances. Estimates and assumptions may change if new information becomes available. If, after expenditures are capitalized, information becomes available suggesting that the recovery of expenditures is unlikely, the amount capitalized is written off in profit or loss in the period the new information becomes available.

Information about assumptions and estimation uncertainties that have a risk of resulting in significant adjustments are as follows:

#### Share-based payment transactions and valuation of derivative liability

The Company uses the Black-Scholes Option Pricing Model to determine the fair value of stock options, standalone share purchase warrants issued and derivative liability. This model requires the input of subjective assumptions including expected share price volatility, interest rate, and forfeiture rate. Changes in the input assumptions can materially affect the fair value estimate and the Company's earnings (loss) and equity reserves.

#### Useful lives of intangible assets

The Company records intangible assets acquired at their fair value. Determining fair value requires management to use estimates that could be material. Following initial recognition, the Company carries the value of intangible assets at cost less accumulated amortization and any accumulated impairment losses. Amortization is recorded on a straight-line basis based upon management's estimate of the useful life and residual value. The estimates are reviewed at least annually and are updated if expectations change as a result of technical obsolescence or legal and other limits to use.

**SELECTED QUARTERLY INFORMATION**

The following financial data is derived from the Company's unaudited condensed interim consolidated financial statements for the three and six months ended June 30, 2021 and 2020.

	Three months ended		Six months ended	
	June 30,		June 30,	
	2021	2020	2021	2020
	\$	\$	\$	\$
Operating expenses	(2,232,668)	(1,752,096)	(4,723,909)	(2,803,579)
Other income (expenses)	2,386,517	97,087	(7,382,366)	113,365
Net Loss and comprehensive loss	153,849	1,655,009	(12,106,275)	(2,690,214)
Basic and diluted loss per common share	(0.00)	(0.04)	(0.25)	(0.06)
Working capital (deficiency)				
Total assets	6,439,269	8,436,205	6,439,269	8,436,205
Total long-term liabilities	6,550,718	4,842,839	6,550,718	4,842,839

**RESULTS OF OPERATIONS – Three Months Ended June 30, 2021**

During the three months ended June 30, 2021, the Company's primary focus was on the continued development of ALPHA-1062.

For the three months ended June 30, 2021, operating expenses increased by \$480,572 from \$1,752,096 in the three months ended June 30, 2020 to \$2,232,668 in the three months ended June 30, 2021 primarily as a result of:

Operating Expense	Increase / Decrease in Expenses	Explanation for Change
Management fees and salaries	Increase of \$230,927	Increased due to the hiring of the CFO during the 2020 Q3 and CEO in 2021 Q2.
Other general and administrative	Increase of \$77,122	Increased due to additional shareholder communications after the completion of the arrangement agreement.
Professional fees	Increase of \$149,199	Increased due to additional accounting and legal expenses required in relation to the Transaction

The following also occurred during the three months ended June 30, 2021 as compared to the three months ended June 30, 2020:

- The Company recorded a gain on derivative liability of \$2,289,479 on the revaluation of the derivative liability relating the warrants from ACI Canada to ACI, per the Transaction, with an exercise price in USD.



**RESULTS OF OPERATIONS – Six Months Ended June 30, 2021**

During the six months ended June 30, 2021, the Company's primary focus was on the continued development of ALPHA-1062.

For the six months ended June 30, 2021, operating expenses increased by \$1,920,330 from \$2,803,579 in the six months ended June 30, 2020 to \$4,723,909 in the six months ended June 30, 2021 primarily as a result of:

<b>Operating Expense</b>	<b>Increase / Decrease in Expenses</b>	<b>Explanation for Change</b>
Accretion expense	Increase of \$339,124	Increased due to the new offering of the convertible debentures in April 2020.
Management fees	Increase of \$285,728	Increased due to the hiring of the CFO during the 2020 Q3 and CEO in 2021 Q2.
Other general and administrative	Increase of \$106,873	Increased due to additional shareholder communications after the completion of the arrangement agreement.
Professional fees	Increase of \$201,369	Increased due to additional accounting and legal expenses required in relation to the reverse acquisition transaction.
Research and development	Increase of \$794,846	Increased due to increased activity into the development of ALPHA-1062 and ALPHA-0602.
Share-based compensation	Increase of \$129,181	Increased due to milestones being met for performance condition stock options.

The following also occurred during the six months ended June 30, 2021 as compared to the six months ended June 30, 2020:

- The Company recorded a listing expense of \$1,851,194 as a result of the Transaction.
- The Company recorded a loss on derivative liability of \$5,633,919 on the revaluation of the derivative liability relating to the convertible debentures and the recognition of a derivative liability on the transfer of warrants from ACI Canada to ACI, per the Transaction, with an exercise price in USD.

**SUMMARY OF QUARTERLY RESULTS FOR THE LAST CONSECUTIVE EIGHT QUARTERS**

The following table presents the unaudited summarized financial information for the last eight quarters:

	Q2 F2021	Q1 F2021	Q4 F2020	Q3 F2020
	\$	\$	\$	\$
Operating expenses	(2,232,668)	(2,456,065)	(2,134,928)	(1,537,044)
Other income (expenses)	2,386,517	(9,768,883)	487,129	90,850
Loss and comprehensive loss for the period	153,849	(12,224,948)	(1,647,799)	(1,446,194)
Loss per share	(0.00)	(0.28)	(0.04)	(0.03)
Weighted average shares	47,444,666	44,372,787	42,996,524	42,998,154

	Q2 F2020	Q1 F2020	Q4 F2019	Q3 F2019
	\$	\$	\$	\$
Operating expenses	(1,752,096)	(1,051,483)	(1,558,574)	(2,232,102)
Other income (expenses)	97,087	16,278	26,318	(155,535)
Loss and comprehensive loss for the period	(1,655,009)	(1,035,205)	(1,532,256)	(2,387,637)
Loss per share	(0.04)	(0.02)	(0.04)	(0.08)
Weighted average shares	42,904,857	42,896,524	42,105,220	31,728,803

The variation in net loss from quarter to quarter are a result of the extent of the amount of administrative expenses needed, the amount of activity the Company is incurring on the research and development of ALPHA-1062 and ALPHA-0602 and the amount of net change in the derivative liability.

The following one-time events also occurred:

- the quarter ended March 31, 2021 included share-based compensation in research and development of \$498,351, listing expense of \$1,851,194 from the arrangement agreement and the recognition of the derivative liability of \$10,488,499 for the warrants with an exercise price in USD; and
- the quarter ended December 31, 2020 included an accretion expense \$390,453 for the conversion of the convertible debentures and professional fees of \$188,373 relating to the assistance with the arrangement agreement; and
- the quarter ended March 31, 2020 included product development in research and development of \$1,085,403; and
- the quarter ended September 30, 2019 included share-based compensation in research and development of \$1,128,450 and share-based compensation in operating expenses of \$493,200.

**LIQUIDITY AND CAPITAL RESOURCES**

As at June 30, 2021, the Company has current assets of \$5,660,914 and current liabilities of \$944,359 which resulted in working capital of \$4,716,555 (June 30, 2020 - \$4,978,695).

The Company does not have operating revenue to finance its existing obligations and therefore must continue to rely on external financing to generate capital to maintain its capacity to meet working capital requirements. The Company has relied on debt and equity raises to finance its operating activities since incorporation. The Company intends to continue to rely on debt and the issuance of shares to finance its operations. However, there is a risk that additional financing will not be available on a timely basis or on terms acceptable to the Company.

The table below sets forth a summary of cash flow activity and should be read in conjunction with the Company's cash flow statements included in the Annual Financial Statements:

	Six months ended June 30,	
	2021	2020
	\$	\$
Cash flows used in operating activities	(3,023,439)	(2,494,345)
Cash flows provided by investing activities	437,653	-
Cash flows provided by (used in) financing activities	1,913,032	1,988,500
Increase (decrease) in cash during the period	(672,754)	(505,845)
Cash, beginning of period	5,926,350	5,497,508
Cash, end of period	5,253,596	4,991,663

The cash flow used in operating activities increased by \$529,094 to \$3,023,439 for the six months ended June 30, 2021 from \$2,494,345 for the comparative period. The increase in cash flow from operating activities represents the effect on cash flows from net losses adjusted for items not affecting cash, principally: accrued interest expenses, accretion expense, listing expense, share-based compensation expense, and changes in the value of derivatives, in addition to net changes in non-cash balances relating to operations.

Cash provided by investing activities for the six months ended June 30, 2021 increased by \$437,653 compared to the comparative period due to the cash received from the Transaction.

Cash provided by (used in) financing activities for the six months ended June 30, 2021 decreased by \$75,468 compared to the comparative period. During the six months ended June 30, 2021, financing activities included raising \$2,267,899 from the issuance of common shares less share issuance costs of \$343,367.

## **OFF BALANCE SHEET ARRANGEMENTS**

The Company did not have any off-balance sheet arrangements as at June 30, 2021 or the date of this report.

## **COMMITMENTS**

### **1) ALPHA-1062 Technology**

In March 2015, the Company entered into the Memogain Technology License Agreement ("License Agreement") with NLS, a formerly related party through common shareholders, for the exclusive right and license to further develop and exploit the Alpha 1062, formerly Memogain Technology. The License Agreement set out the consideration as follows:

- The Company assumed all of NLS's obligations under the Memogain Asset Purchase Agreement which consisted of cumulative total payments to Galantos Pharma GmbH of €10,000,000, the cumulative total may be increased to €15,000,000 subject to certain provisions, which is to be paid as follows (collectively the "Galantos Royalty Payments"):
  - 3% of the net sales revenue received by the Company from the sale of any products relating to the ALPHA-1062 Technology;
  - 10% of any sublicensing revenue; and
  - 25% of an upfront payment or milestone payment paid by a sub-licensee to the Company;
- Upon completion of the Galantos Royalty Payments, a royalty payment to NLS of 1% of the revenue received from the ALPHA-1062 Technology by the Company over \$100 million per annum and
- The issuance of a promissory note of \$1,400,000 to NLS (Note 7).

On January 1, 2016, the Company assumed NLS's obligations under a Royalty Agreement with Galantos Consulting dated August 31, 2013, which consisted of cumulative total payments to Galantos Consulting of €2,000,000, the cumulative total may be increased to €3,000,000 subject to certain provisions, which is to be paid as follows:

- 1% of the net sales revenue received by the Company from the sale of any products relating to the ALPHA-1062 Technology;
- 2% of any sublicensing revenue; and
- 2% of an upfront payment or milestone payment paid by a sub-licensee to the Company.

## 2) ALPHA-0602 Technology

In November 2020, the Company entered into a license agreement with NLS for the world-wide exclusive right to the Progranulin ("ALPHA-602") Technology. In accordance with the agreement, the Company will pay the following:

- \$50,000 to NLS before January 15, 2021 (paid);
- a royalty of 1.5% of the commercial sales, capped at \$2,000,000, to NLS;
- 10% of any Upfront Payments in excess of \$2,000,000.

The total amount payable to NLS under this agreement shall not exceed \$2,000,000.

## CONTINGENCIES

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The Company did not have any contingencies as at June 30, 2021 or date of report.

## TRANSACTIONS WITH RELATED PARTIES

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Key management personnel are those persons having authority and responsibility for planning, directing and controlling the activities of the Company, directly or indirectly. Key management personnel include the Company's executive officers and members of its Board of Directors.

In September 2018, the Company signed a management agreement with CMI Cornerstone Management Corp. ("CMI"), a company controlled by Ken Cawkell, the former CEO and director of the Company, which requires monthly payments of \$15,000. In June 2019, the Company amended the agreement to increase the monthly fees to \$18,000. Included in the agreement is a provision for a termination payment equal to the greater of (i) \$432,000 less any fees previously paid under the agreement between June 1, 2019 and the date of termination or (ii) \$54,000.

In September 2018, the Company signed a management agreement with 9177 – 586 Quebec Inc. ("9177 Quebec"), a company controlled by Denis Kay, the CSO of the Company, which requires monthly payments of \$13,333 per month for an effective term of two years. In June 2019, the Company amended the agreement to increase the monthly fees to \$15,000. Included in the agreement is a provision for a termination payment equal to the greater of (i) \$360,000 less any fees previously paid under the agreement between June 1, 2019 and the date of termination or (ii) \$45,000.

In September 2018, the Company signed a management agreement with Clearway Global, LLC ("Clearway Global"), a company controlled by Fred Sancilio, the President of the Company's wholly owned subsidiary, ACI USA, which requires monthly payments of \$10,000 per month for an effective term of two years. In June 2019, the Company amended the agreement to increase the monthly fees to \$20,000. Included in the agreement is a provision for a termination payment equal to the greater of (i) \$480,000 less any fees previously paid under the agreement between June 1, 2019 and the date of termination or (ii) \$60,000. In February 2021, the Company amended the agreement to increase the monthly fees to \$24,166.

In August 2020, the Company signed a management agreement with Seatrend Strategy Group, ("Seatrend"), a company controlled by Jeremy Wright, the CFO of the Company, which requires monthly payments of \$6,000. In

October 2020, the Company amended the agreement to increase the monthly fees to \$15,000. Included in the agreement is a provision for a termination payment of six's month's retainer.

In February 2021, the Company signed a consulting agreement with Michael McFadden, the CEO of the Company, requiring an annual base compensation of \$500,000. Included in the agreement is a provision for a termination payment upon termination without just cause and an equity provision upon the sale or merger of the Company. The termination payment is to be paid semi-monthly over a one year period, as follows: the first six months at the current base compensation, followed by three months at ½ of the current base compensation, followed by three months at ¼ of the current base compensation. The equity provision provides for the following:

- i) in the event the Company is sold or merged at a value between \$200 million and \$500 million, equity with a value of 2% of the difference between the transaction price and \$200,000,000;
- ii) in the event the Company is sold or merged at a value between \$500 million and \$1 billion, equity with a value of 2.5% of the difference between the transaction price and \$200,000,000;
- iii) in the event the Company is sold or merged at a value above \$1 billion, equity with a value of 3% of the difference between the transaction price and \$200,000,000;
- iv) if the Company is neither sold nor merged, but is up-listed to the Nasdaq Exchange within 3 years of the agreement, an equity distribution equal to the value per paragraphs i) – iii) above, to be paid on the 3 year anniversary of the agreement.

In May 2021, Mr. McFadden became an employee of the Company. All other terms of his contract remained the same.

During the six months ended June 30, 2021, the Company entered into the following transactions with related parties:

- a) Incurred management fees of \$108,000 (June 30, 2020 - \$83,000) and share-based compensation of \$112,768 (June 30, 2020 - \$77,149) to CMI. During the six months ended March 31, 2021, CMI converted the First Note debentures into 21,712 shares of the Company for the principal and interest portion. CMI also converted its Second Note debentures into 16,625 units of the Company with each unit consisting of one common share and one-half warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023. As at June 30, 2021, \$18,900 (December 31, 2020 - \$44,450) was included in accounts payable and accrued liabilities owing to CMI.
- b) Incurred management fees of \$91,898 (June 30, 2020 - \$nil) to Seatrend. As at June 30, 2021, \$12,958 (December 31, 2020 - \$nil) was included in accounts payable and accrued liabilities to Seatrend.
- c) Incurred management fees included in research and development of \$90,000 (June 30, 2020 - \$75,000) and share-based compensation included in research and development of \$112,768 (June 30, 2020 - \$84,618) to 9177 Quebec. During the six months ended June 30, 2021, 9177 Quebec converted the First Note debentures into 10,856 shares of the Company for the principal and interest portion. 9177 Quebec also converted its Second Note debentures into 8,312 units of the Company with each unit consisting of one common share and one-half warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023. As at June 30, 2021, \$nil (December 31, 2020 - \$32,250) was included in accounts payable and accrued liabilities owing to 9177 Quebec.
- d) Incurred management fees included in research and development of \$200,833 (June 30, 2020 - \$120,000) and share-based compensation included in research and development of \$417,395 (June 30, 2020 - \$92,789) to Clearway Global. During the six months ended June 30, 2021, Clearway Global converted the First Note debentures into 21,712 shares of the Company for the principal and interest portion. Clearway Global also converted its Second Note debentures into 16,625 units of the Company with each unit consisting of one common share and one-half warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023. As at June 30, 2021, \$60,000 (December 31, 2020 - \$16,521) was included in accounts payable and accrued liabilities owing to Clearway Global.

- e) During the six months ended June 30, 2021, Len Mertz, a director of the Company, Mertz Holdings and Mertz Trust, entities controlled by Len Mertz, converted the First Note debentures into 562,518 shares of the Company for the principal and interest portion. Additionally, their Second Note debentures were converted into 430,428 units of the Company with each unit consisting of one common share and one share purchase warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023.
- f) During the six months ended June 30, 2021, John Havens, a director of the Company, converted the First Note debentures into 492,392 shares of the Company for the principal and interest portion. Additionally, their Second Note debentures were converted into 376,838 units of the Company with each unit consisting of one common share and one share purchase warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023.
- g) During the six months ended June 30, 2021, Philip Mertz, a director of the Company, converted the First Note debentures into 164,365 shares of the Company for the principal and interest portion. Additionally, their Second Note debentures were converted into 125,854 units of the Company with each unit consisting of one common share and one share purchase warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023.
- h) During the six months ended June 30, 2021, Vincorp Holdings, a company controlled by a director of the Company, Rob Bakshi, converted the First Note debentures into 10,856 shares of the Company for the principal and interest portion. Additionally, their Second Note debentures were converted into 8,312 units of the Company with each unit consisting of one common share and one share purchase warrant with each warrant entitling the holder to acquire one common share of the Company for CAD\$2.10 up to March 18, 2023. As at June 30, 2021, \$238 (December 31, 2020 - \$nil) was included in related party payable.
- i) During the six months ended June 30, 2021, the Company paid \$3,642 (June 30, 2020 - \$503) in legal fees and \$18,000 (June 30, 2020 - \$18,000) in office and general expenses to Cawkell Brodie LLP, a law firm where Mr. Cawkell is a managing partner. As of June 30, 2021, \$nil (December 31, 2020 - \$4,059) was included in accounts payable and accrued liabilities owing to Cawkell Brodie LLP.
- j) During the six months ended June 30, 2021, the Company paid \$nil (June 30, 2020 - \$4,500) in office and general expenses to NLS, a company formerly related by common shareholders. As at June 30, 2021, \$nil (December 31, 2020 - \$6,012) was included in accounts payable and accrued liabilities owing to NLS and \$1,211,463 was owed for a promissory note.
- k) Incurred management fees and salaries of \$137,820 (June 30, 2020 - \$nil) to Mr. McFadden. As at June 30, 2021, \$9,615 (December 31, 2020 - \$nil) was included in accounts payable and accrued liabilities owing to Mr. McFadden.
- l) Incurred management salaries included in research and development of \$57,095 to Lauren D'Angelo, the Company's Chief Commercial Officer.

Summary of key management personnel compensation:

	For the six months ended June 30,	
	2021	2020
	\$	\$
Office and general	18,000	22,500
Management fees	337,718	83,000
Professional fees	3,642	503
Research and development - management fees	347,928	195,000
Share-based compensation	642,931	254,556
	<b>1,350,219</b>	<b>555,559</b>

These expenditures were measured by amounts agreed upon by the transacting parties.

## FINANCIAL INSTRUMENTS AND RISK MANAGEMENT

Financial instruments measured at fair value are classified into one of three levels in the fair value hierarchy according to the relative reliability of the inputs used to estimate the fair values. The three levels of the fair value hierarchy are:

- Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities;
- Level 2 – Inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and
- Level 3 – Unobservable inputs that are supported by little or no market activity, therefore requiring an entity to develop its own assumptions about the assumption that market participants would use in pricing.

The Company's financial instruments consist of cash, other receivable, accounts payable, related parties payable, convertible debentures, derivative liability, and promissory note. The fair values of other receivable, accounts payable, related parties payable, convertible debentures and promissory note approximates their carrying values either due to their nature or current market rates for similar instruments. Cash is measured at fair value on a recurring basis using level 1 inputs. Derivative liability is measured at fair value on a recurring basis using level 3 inputs. The continuity and valuation techniques that are used to determine the fair value of the derivative liability are described in Notes 6 and 8 of the Interim Financial Statements.

The Company is exposed to a variety of financial risks by virtue of its activities including currency, credit, interest rate, and liquidity risk.

### a) Currency risk

Foreign currency exchange rate risk is the risk that the fair value or future cash flows will fluctuate as a result of changes in foreign exchange rates. The Company's operations are carried out in Canada and the United States. As at June 30, 2021, the Company had net monetary assets of approximately \$2,900,000 denominated in Canadian dollars and net liabilities of approximately €15,000. These factors expose the Company to foreign currency exchange rate risk, which could have an adverse effect on the profitability of the Company. A 10% change in the exchange rate with the Canadian dollar would change net loss and comprehensive loss by approximately \$240,000 and 10% change in exchange rate with the Euro would change net loss and comprehensive loss by approximately \$1,800. At this time, the Company currently does not have plans to enter into foreign currency future contracts to mitigate this risk, however it may do so in the future.

## b) Credit risk

Credit risk is the risk that one party to a financial instrument will cause a financial loss for the other party by failing to discharge an obligation.

The Company's cash is held in a large Canadian financial institution and a United States of America based financial institution. The Company maintains certain cash deposits with Schedule I financial institutions, which from time to time may exceed federally insured limits. The Company has not experienced any significant credit losses and believes it is not exposed to any significant credit risk. The Company's maximum credit risk is equal to the carrying value of cash at June 30, 2021 and December 31, 2020.

## c) Interest rate risk

Interest rate risk is the risk the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. Financial assets and liabilities with variable interest rates expose the Company to interest rate cash flow risk. The Company does not hold any financial liabilities with variable interest rates. Financial assets and liabilities with fixed interest rates expose the Company to interest rate price risk. As at June 30, 2021, the promissory note bears interest of 2% per annum and is subject to interest rate price risk. The Company maintains bank accounts which earn interest at variable rates but it does not believe it is currently subject to any significant interest rate risk.

## d) Liquidity risk

The Company's ability to continue as a going concern is dependent on management's ability to raise required funding through future equity issuances and through short-term borrowing. The Company manages its liquidity risk by forecasting cash flows from operations and anticipating any investing and financing activities. Management and the Board of Directors are actively involved in the review, planning and approval of significant expenditures and commitments.

## **OTHER RISKS AND UNCERTAINTIES**

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The business and operations of the Company are subject to numerous risks, many of which are beyond the Company's control. The Company considers the risks set out below to be some of the most significant to potential investors in the Company, but not all of the risks are associated with an investment in securities of the Company. If any of these risks materialize into actual events or circumstances or other possible additional risks and uncertainties of which the Company is currently unaware or which it considers to be material in relation to the Company's business actually occur, the Company's assets, liabilities, financial condition, results of operations (including future results of operations), business and business prospects, are likely to be materially and adversely affected. In such circumstances, the price of the Company's securities could decline and investors may lose all or part of their investment.

### **Global Pandemics**

In March 2020, the World Health Organization declared coronavirus COVID-19 a global pandemic. This contagious disease outbreak, which has continued to spread, and any related adverse public health developments, has adversely affected workforces, economies, and financial markets globally, potentially leading to an economic downturn. The Company's operations have not been drastically impacted by the pandemic. Management of the Company continues to monitor the situation and is following the protocols and rules set in place by the provincial, state, and federal governments.

### **Financing Risks**

We have limited capital and we may require funds in excess of our existing cash resources to fund operating deficits, develop new products or services, establish and expand our marketing capabilities, and finance general and administrative activities. We do not currently generate sufficient cash from our businesses to fund our operations. We do not have any bank credit facility or other working capital credit line under which we may



borrow funds for working capital or other general corporate purposes. If we do not have, or are not able to obtain, sufficient funds, we may have to delay strategic opportunities, investments, or projects. If we are unable to raise adequate funds, we may have to delay or reduce the scope of, or eliminate some or all of our current research and development. Any of these actions could have a material adverse effect on our business, results of operations or financial condition.

### **History of Operating Losses and Negative Cash Flow from Operating Activities**

The Company has reported negative cash flow from operating activities since inception and expects to experience negative operating cash flows for the foreseeable future. The operating losses will continue as significant costs will incur to the clinical development of ALPHA-1062 and development of the PGRN Technology. Until the approval from the FDA and other regulatory authorities for the sale of ALPHA-1062, the Company's working capital requirements are dependent on the Company's ability to raise capital by future issuances of common shares, debt instruments or other securities convertible into common shares.

### **Research and Development Risk**

The Company's organic growth and long-term success is dependent in part on its ability to successfully develop products and it will likely incur significant research and development expenditures to do so. The Company cannot be certain that any investment in research and development will yield technically feasible or commercially viable products. Furthermore, its ability to discover and develop products will depend on its ability to:

- retain key scientists as employees or partners;
- develop products internally and assist its partners with development;
- successfully complete laboratory testing and clinical trials on humans;
- obtain and maintain necessary intellectual property rights to the Company's products;
- obtain and maintain necessary U.S. and other regulatory approvals for its products;
- collaborate with third parties to assist in the development of its products; and
- enter into arrangements with third parties to co-develop, license, and commercialize its products.

The Company may not be successful in developing drug and medical device products. Failure to introduce and advance and advance new and current products could materially and adversely affect the Company's operations and financial condition.

### **Clinical Development Risks**

The Company must demonstrate the safety and efficacy of their products through extensive clinical testing. The Company's drug research and development programs are at an early stage of development. Numerous unforeseen events during, or as a result of, the testing process could delay or prevent commercialization of any products the Company develops, including the following:

- the results of early clinical studies may be inconclusive, may demonstrate potentially unsafe drug characteristics, or may not be indicative of results that will be obtained in later human clinical trials;
- the safety and efficacy results attained in the early clinical studies may not be indicative of results that are obtained in later clinical trials;
- after reviewing early clinical study results, the Company or its partners or collaborators may abandon projects that were previously thought to be promising.

Clinical studies are very expensive, can run into unexpected difficulties and the outcomes are uncertain. The final data collected from this study (or any other studies the Company conducts) may not be sufficient to support the regulatory approval of additional human testing of such product(s). Clinical studies of the Company's products may not be completed on schedule or on budget. The Company's failure to complete any of its clinical studies on schedule or on budget, or its failure to adequately demonstrate the safety and efficacy of any of the products it develops, could delay or prevent regulatory approval of such products, which could adversely affect the Company's business, financial condition, and results of operations.

### **Retention of Skilled Management**

Our success depends to a significant extent on our ability to identify, hire, and retain qualified creative, technical and managerial personnel in a competitive job market. We expect competition for personnel with the specialized creative and technical skills needed to create our products and provide our services will continue to intensify in future. Our competitors may be able to offer a work environment with higher compensation or more opportunities to work with cutting-edge technology than we can. If we are unable to retain our key personnel or appropriately match skill sets with our needs, we would be required to expend significant time and financial resources to identify and hire new qualified personnel and to transfer significant internal historical knowledge, which might significantly delay or prevent the achievement of our business objectives.

### **Intellectual Property**

Patents issued or licensed to the Company and trademarks registered or licensed to the Company may be infringed upon by the products or processes of others. We hold a number of trademarks and copyrights relating to certain significant products. We rely on patent laws and contractual provisions to protect these patents, and there can be no assurance that third parties will not infringe or misappropriate our patents. The monitoring and enforcement against the unauthorized use of our intellectual property rights could entail significant expenses and could prove difficult or impossible. As well, the laws of other countries in which we may choose to market our products may afford little or no effective protection of our intellectual property. If we lose some or all of our intellectual property rights, our business may be materially adversely affected.

### **Dilution to Current Shareholders**

In order to finance our operations, we have raised funds through the issuance of common shares and securities convertible into common shares and may do so again in future. We cannot predict the size of future issuances of common shares or the size or terms of future issuances of debt instruments or other securities convertible into common shares, or the effect, if any, that future issuances and sales of our securities will have on the market price of our common shares. Sales or issuances of substantial numbers of common shares, or the perception that such sales could occur, may adversely affect the market price of our common shares. With any additional sale or issuance of common shares, or securities convertible into common shares, our investors will suffer dilution to their voting power.

### **ACCOUNTING PRONOUNCEMENTS NOT YET ADOPTED**

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A number of amendments to standards and interpretations applicable to the Company are not yet effective for the six months ended June 30, 2021, and have not been applied in preparing these condensed interim consolidated financial statements nor does the Company expect these amendments to have a significant effect on its condensed interim consolidated financial statements.

### **DISCLOSURE OF CONTROLS AND PROCEDURES AND INTERNAL CONTROL OVER FINANCIAL REPORTING**

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The CFO, together with other members of management, have designed the Company's disclosure controls and procedures in order to provide reasonable assurance that material information relating to the Company and its consolidated subsidiaries would be known to them, and by others, within those entities.

Management has also designed internal controls over financial reporting to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements in accordance with IFRS. Management has assessed the effectiveness of the Company's internal control over financial reporting as of the six months ended June 30, 2021.

While the officers of the Company have designed the Company's disclosure controls and procedures and internal controls over financial reporting, they expect that these controls and procedures may not prevent all

errors and fraud. A control system, no matter how well conceived or operated, can only provide reasonable, not absolute assurance that the objectives of the control system are met.

## **DISCLOSURE DATA FOR OUTSTANDING COMMON SHARES, OPTIONS, AND WARRANTS**

The Company is authorized to issue the following share capital:

- Unlimited common voting shares without par value ("Common share")
- Unlimited Class A restricted voting shares without par value ("Restricted share")
- Unlimited Class B preferred Series A shares without par value ("Class B preferred shares")

Below is a summary of the common shares issued, stock options, and share purchase warrants as at June 30, 2021 and the date of this report:

	June 30, 2021	Date of this Report
Common shares	44,843,927	44,893,927
Restricted shares	7,000,000	7,000,000
Class B preferred shares	7,916,380	7,916,380
Common share options	386,851	4,236,851
ACI Canada legacy performance options	9,941,057	9,941,057
Warrants	11,819,169	6,644,169

### **Common share options**

The Company has issued incentive options to certain directors, officers, and consultants of the Company. As of the date of this report, the following share options are outstanding and exercisable:

Options Outstanding	Options Exercisable	Exercise Price	Expiry Date
		\$	
77,030	77,030	0.58 (CAD\$0.714)	March 18 , 2022
200,000	50,000	1.69 (CAD \$2.10)	March 29, 2023
31,513	31,513	0.58 (CAD\$0.714)	September 21, 2023
39,154	39,154	0.40	June 1, 2029
39,154	39,154	0.40	July 22, 2030
3,150,000	-	(CAD \$0.90)	August 3, 2031
400,000	25,000	1.22	August 16, 2031
300,000	37,500	0.80	August 16, 2031
4,236,851	299,351		

**ACI Canada legacy performance options**

The Company has issued incentive options to certain directors, officers, and consultants of the Company. As of the date of this report, the following share options are outstanding and exercisable:

<b>Options Outstanding</b>	<b>Options Exercisable</b>	<b>Exercise Price</b>	<b>Expiry Date</b>
		<b>\$</b>	
900,000	900,000	0.001	February 1, 2026
691,057	691,057	0.01	December 31, 2027
4,550,000	3,890,000	0.01	September 1, 2028
3,800,000	3,380,000	0.01	June 1, 2029
<b>9,941,057</b>	<b>8,861,057</b>		

**Warrants**

A summary of the share purchase warrants outstanding as at the date of this report is as follows:

<b>Warrants Outstanding</b>	<b>Exercise Price</b>	<b>Expiry Date</b>
	<b>\$</b>	
40,000	0.40	July 5, 2023
3,986,783	0.40	August 30, 2024
2,486,653	1.67 (CAD\$2.10)	March 18, 2023
130,733	1.27 (CAD\$1.60)	March 18, 2023
<b>6,644,169</b>		

**OTHER MD&A REQUIREMENTS**

Additional information relating to the Company may be found on or in:

- SEDAR at [www.sedar.com](http://www.sedar.com);
- the Company's audited consolidated financial statements for the years ended December 31, 2020 and 2019; and
- the Company's unaudited condensed interim consolidated financial statements for the three and six months ended June 30, 2021 and 2020.

This MD&A was approved by the Board of Directors of Alpha Cognition Inc. effective August 30, 2021.