

Public Announcement

ASX Code: 1AI

June Quarterly Activities Report and Appendix 4C Cash Flow Statement

Highlights:

- Launch of version one ('Ver. 1') of AlgoraeOS artificial intelligence biopharmaceutical prediction platform is anticipated in the current quarter.
- Ver. 1 AlgoraeOS will predict fixed-dose combination drug targets using vast collections of scientific and medical information from:
 - >150 different human cell lines
 - >5000 pharmaceutical and other drugs
 - >500,000 drug combinations.
- AI-116 drug candidate for dementia and neurological diseases observed to outperform an AChE Inhibitor in cell viability studies that assess neuroprotection
- Results from RNA sequencing analysis and in vitro studies of glutamate toxicity and tau phosphorylation are being finalised
- Pre-clinical studies over AI-168 drug candidate for cardiovascular disease rapidly advancing.

Melbourne, Australia – 22 July 2024: Algorae Pharmaceuticals Ltd (ASX Code: 1AI) ("Algorae" or "the Company") is pleased to provide its Quarterly Activities Report and Appendix 4C for the period ended 30 June 2024.

Development of Artificial Intelligence Biopharmaceutical Prediction Platform

Algorae Operating System ('AlgoraeOS') is the Company's proprietary artificial intelligence ('Al') biopharmaceutical prediction platform under development at the University of New South Wales ('UNSW') and supported by co-funding from the CSIRO Next Generation AI Graduate Program.

AlgoraeOS will predict synergistic fixed dose combination ('FDC') drug targets using machine learning, deep learning, and neural network algorithms within the setting of a vast compilation of medical and scientific data curated for the purpose of Al-enabled combination drug discovery. AlgoraeOS is hosted by the 'Gadi' supercomputer operated by National Computational Infrastructure (NCI Australia) and previously used for the likes of climate modelling and natural disaster prediction.

Development of Ver.1 of AlgoraeOS is on schedule for delivery in the current quarter, with subsequent versions being progressively upgraded over a period of at least 3 years. Training data used to train the AI algorithms and models comprise pertinent information on more than 150 human cell lines, 5,000 drugs and 500,000 drug combinations. Fixed dose combination ('FDC') drugs including cannabidiol ('CBD') are prioritised in Ver.1 of the platform, consistent with the strategy of the Company to assess cannabinoids, which Algorae considers to be understudied.

Algorae has commenced discussions with laboratory facilities to conduct pre-clinical assessments of FDC drug targets once drug synergy is predicted and ranked by AlgoraeOS. The Company intends to undertake rapid pre-clinical assessments to define the target's development course, intellectual property and commercial (internal development or partnership) strategies.

Positive Pre-clinical Results for AI-116 drug candidate for Dementia

Algorae received positive results from the *in vitro* assessment of Al-116 undertaken at La Trobe University. Al-116 is Algorae's FDC drug candidate comprising an acetylcholinesterase inhibitor ('AChE inhibitor') and CBD. AChE



inhibitors are FDA registered first line treatments for Alzheimer's disease, which are also prescribed off-label for other neurodegenerative disorders and dementia, including Parkinson's disease.

In vitro assays were conducted to further assess the therapeutic potential of Al-116 by comparing the viability of neuronal cells in the presence of Amyloid β with varying exploratory doses of Al-116 against the AChE inhibitor and CBD administered alone. The *in vitro* assays measured cell viability and drug synergy, which occurs when the effect of the two drugs in combination is superior to the sum of their individual effects.

In the data reported below, the control arm of the study demonstrated high levels of toxicity when neuronal cells are exposed to Amyloid β , the improvements in cell viability observed with the AChE inhibitor and CBD alone were substantially improved with the administration of the optimal fixed dose combination of AI-116 (Figure 1).

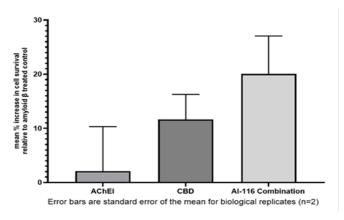


Figure 1. Average percentage increase in cell survival relative to amyloid β treated control cells. Zero is the benchmark for AB effected cells with no treatments, whereby cell viability was 65.5%. Cell viability increased by 2.1% to 67.6% for the AChE Inhibitor, by 11.6% to 77.1% for CBD and by 20.1% to 85.6% for AI-116.

These results demonstrate that the combination of CBD and AChE inhibitors synergise to increase the neuroprotective effect in neuronal cells that are exposed to Amyloid β , with the observed combined effect of the two drugs on cell viability being 33% greater than expected.

During the quarter, Algorae assessed Al-116 by RNA sequencing analysis, *in vitro* assessments of glutamate toxicity and tau protein phosphorylation in neuronal cells. Results from these studies are progressively being received from our research partner, La Trobe University, and are being analysed.

Commencement of Pre-clinical Studies over AI-168 Drug Candidate for Cardiovascular Disease

During the quarter, Algorae commenced preliminary *in vitro* assessments of Al-168 for cardiovascular disease at Monash University ('Monash'). Al-168 includes a cannabinoid and another pharmaceutical drug that is currently confidential due to intellectual property considerations as Algorae has filed a provisional patent application over Al-168 to establish a patent priority date for the fixed dose combination drug invention.

In performing the preclinical studies, the models undertaken by Monash are expected to provide an understanding of the mechanism of action of AI-168 across a range of cardiovascular diseases ('CVDs'). Initial toxicity-based experiments began during the quarter with various assessments to rapidly advance during the current quarter. The experiments compare AI-168 to an existing class of drugs used to treat CVDs.

NTCELL for Parkinson's Disease

The Company continued to progress a scientific review of the NTCELL clinical trial protocol and development plan with a primary focus on assessing potential enhancements to the therapeutic value of NTCELL. The NTCELL scientific review is being undertaken by Algorae's Chief Scientific Officer Dr James McKenna, with specific advice available from a dedicated NTCELL advisory board.

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Corporate Activities

As at June 30, 2024, Algorae recorded A\$3.11M in cash at bank. A total of \$265K was spent on operating activities. Algorae is eligible to receive an annual R&D Tax Incentive ('RDTI') rebate equivalent to approximately 43.5% of all monies spent on research and development in Australia.

Item 6.1 of Appendix 4C (below) represents amounts paid to directors and related parties.

Algorae released a non-deal corporate presentation during the quarter, which can be accessed at the Company's website here www.algoraepharma.com.

Ends

This announcement has been approved for release to ASX by the Algorae Board of Directors.

Corporate and Media Enquiries

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About Algorae Pharmaceuticals Limited

Algorae is a pharmaceutical development company focussed on addressing unmet medical needs through the discovery and development of novel treatments. The Company has assembled a proficient R&D team and established collaborations with reputable academic institutions to advance its promising drug candidates, which include Al-116 for the treatment of neurodegenerative disorders and/or dementia, Al-168 for cardiovascular disease and NTCELL for Parkinson's disease.

Algorae intends to expand its therapeutic pipeline using a proprietary artificial intelligence ('Al') drug discovery and development platform. Known as Algorae Operating System ('AlgoraeOS'), the Al platform leverages extensive medical and scientific databases from various disciplines within an advanced system at the intersection of Al and pharmaceutical research. By employing machine learning, deep learning, and neural networks, the aim of AlgoraeOS is to uncover synergistic drug combinations that lead to the development of novel and effective treatments for any medical condition, aligning with Algorae's commitment to address unmet medical needs. Algorae is listed and publicly traded on the Australian Stock Exchange (ASX: 1AI), providing investors an opportunity to participate in the Company's growth.

For more information visit www.algoraepharma.com or follow @algoraepharma on X or LinkedIn.

Forward-looking statements: This document may contain certain forward-looking statements, relating to Algorae's business, which can be identified by the use of forward-looking terminology such as "promising," "probable", "plans," "anticipated," "will," "project," "believe," "forecast," "expected," "estimated," "targeting," "aiming," "set to," "potential," "seeking to," "goal," "could provide," "intends," "is being developed," "could be," "on track," or similar expressions, or by express or implied discussions regarding potential filings or marketing approvals, or potential future sales of product candidates. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from any future results, performance or achievements expressed or implied by such statements. There can be no assurance that any existing or future regulatory filings will satisfy the FDA's and other health authorities' requirements regarding any one or more product candidates, nor can there be any assurance that such product candidates will be approved by any health authorities for sale in any market or that they will reach any particular level of sales. In particular, management's expectations regarding the approval and commercialisation of the product candidates could be affected by, among other things, unexpected clinical trial results, including additional analysis of existing clinical data, and new clinical data; unexpected regulatory actions or delays, or government regulation generally; our ability to obtain or maintain patent or other proprietary intellectual property protection; competition in general; government, industry, and general public pricing pressures; and additional factors that involve significant risks and uncertainties about our products, product candidates, financial results and business prospects. Should one or more of these risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary materially from those described herein as anticipated, believed, estimated, or expected. Algorae is providing this information and does not assume any obligation to update any forward-looking statements contained in this document as a result of new information, future events or developments or otherwise.

Appendix 4C

Quarterly cash flow report for entities subject to Listing Rule 4.7B

Name of entity

Algorae Pharmaceuticals Limited		
ABN Quarter ended ("current quarter")		
14 104 028 042	30 June 2024	

Con	solidated statement of cash flows	Current quarter \$A	Year to date (12 months) \$A
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) research and development	(52,083)	(522,615)
	(b) product manufacturing and operating costs	-	-
	(c) advertising and marketing	(7,755)	(33,120)
	(d) leased assets	-	-
	(e) staff costs	(48,333)	(301,930)
	(f) administration and corporate costs	(169,044)	(772,213)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	12,128	106,577
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
1.9	Net cash from / (used in) operating activities	(265,087)	(1,523,301)

2. C	ash flows from investing activities
2.1 Pa	ayments to acquire or for:
(a) entities
(b) businesses
(с) property, plant and equipment
(d) investments
(е) intellectual property
(f)	other non-current assets

Con	solidated statement of cash flows	Current quarter \$A	Year to date (12 months) \$A
2.2	Proceeds from disposal of:		
	(a) entities	-	-
	(b) businesses	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) intellectual property	-	-
	(f) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	-	-

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	562,805
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	642	9,451
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	(49,260)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	642	522,996

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	3,373,496	4,111,074
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(265,087)	(1,523,301)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	-	-

Con	solidated statement of cash flows	Current quarter \$A	Year to date (12 months) \$A
4.4	Net cash from / (used in) financing activities (item 3.10 above)	642	522,996
4.5	Effect of movement in exchange rates on cash held	(686)	(2,404)
4.6	Cash and cash equivalents at end of period	3,108,365	3,108,365

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A	Previous quarter \$A
5.1	Bank balances	808,365	523,496
5.2	Call deposits	2,300,000	2,850,000
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	3,108,365	3,373,496

6.	Payments to related parties of the entity and their associates	Current quarter \$A
6.1	Aggregate amount of payments to related parties and their associates included in item 1	48,334
6.2	Aggregate amount of payments to related parties and their associates included in item 2	

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.

Payments of directors fee.

7.	Financing facilities Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A	Amount drawn at quarter end \$A
7.1	Loan facilities		
7.2	Credit standby arrangements		
7.3	Other (please specify)		
7.4	Total financing facilities		
7.5	Unused financing facilities available at qu	arter end	
7.6	Include in the box below a description of eac rate, maturity date and whether it is secured facilities have been entered into or are propo include a note providing details of those facil	or unsecured. If any add sed to be entered into af	itional financing

8.	Estimated cash available for future operating activities	\$A
8.1	Net cash from / (used in) operating activities (item 1.9)	(265,087)
8.2	Cash and cash equivalents at quarter end (item 4.6)	3,108,365
8.3	Unused finance facilities available at quarter end (item 7.5)	-
8.4	Total available funding (item 8.2 + item 8.3)	3,108,365
8.5	Estimated quarters of funding available (item 8.4 divided by item 8.1)	11.7
	Note: if the entity has reported positive net operating cash flows in item 1.9, answer item 8	3.5 as "N/A". Otherwise, a

figure for the estimated quarters of funding available must be included in item 8.5.

If item 8.5 is less than 2 quarters, please provide answers to the following questions:

8.6.1 Does the entity expect that it will continue to have the current level of net operating

cash flows for the time being and, if not, why not?

Answer:			

8.6.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer:			

8.6.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

nswer:	
oto: whore item 9.5 is less than 2 questors, all of questions 9.6.1.9.6.2 and 9.6.2 above must be appropried	

8.6

Compliance statement

- This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date:	22 July 2024
Authorised by:	By the Board(Name of body or officer authorising release – see note 4)

Notes

- 1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
- 2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standard applies to this report.
- 3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
- 4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
- 5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.