



## **Alterity Therapeutics Enrolls First Patient in Australia in ATH434 Global Phase 2 Clinical Trial in Multiple System Atrophy**

**MELBOURNE, AUSTRALIA AND SAN FRANCISCO, USA – 10 May 2023:** Alterity Therapeutics (ASX: ATH, NASDAQ: ATHE) (“Alterity” or “the Company”), a biotechnology company dedicated to developing disease modifying treatments for neurodegenerative diseases, today announced the first participant in Australia has been treated in the Company’s Phase 2 clinical trial of ATH434 in Multiple System Atrophy (MSA), a rare and highly debilitating Parkinsonian disorder.

“The dosing of our first MSA participant in Australia is an important milestone as we are now enrolling in five countries around the world,” said David Stamler, M.D., Chief Executive Officer, Alterity. “The trial has been well received by physicians as we are using state of the art methods to diagnose and track the disease. We are grateful to Dr. Tisch and the team at St Vincent’s Hospital for their ongoing efforts to advance the development of ATH434.”

Dr Stephen Tisch, MBBS (Hons) PhD FRACP, Principal Investigator of the trial at St Vincent’s Hospital in Sydney, commented, “MSA is rapidly progressive and available treatment options for my patients only manage the symptoms of their condition. Given the available nonclinical data, ATH434 has potential to be a disease modifying treatment. We are pleased to have the opportunity to offer this clinical trial to our patients.”

### **About ATH434 Phase 2 Clinical Trial**

The Phase 2 clinical trial is a randomized, double-blind, placebo-controlled investigation of ATH434 in patients with early-stage MSA. The study will evaluate the effect of ATH434 treatment on neuroimaging and protein biomarkers to demonstrate target engagement and clinical endpoints to demonstrate efficacy, in addition to assessments of safety and pharmacokinetics. The selected biomarkers, including brain iron and aggregating  $\alpha$ -synuclein, are important contributors to MSA pathology and are therefore appropriate targets to demonstrate drug activity. Wearable sensors will also be employed to evaluate motor activities that are important to patients with MSA. The study is expected to enroll approximately 60 adults to receive one of two dose levels of ATH434 or placebo. Participants will receive treatment for 12 months which will provide an opportunity to detect changes in efficacy endpoints to optimize design of a definitive Phase 3 study. Additional information on the Phase 2 trial can be found by [ClinicalTrials.gov Identifier: NCT05109091](https://clinicaltrials.gov/ct2/show/study/NCT05109091).

### **About ATH434**

Alterity’s lead candidate, ATH434, is an oral agent designed to inhibit the aggregation of pathological proteins implicated in neurodegeneration. ATH434 has been shown preclinically to reduce  $\alpha$ -synuclein pathology and preserve nerve cells by restoring normal iron balance in the brain. As an iron chaperone, it has excellent potential to treat Parkinson’s disease as well as various Parkinsonian disorders such as Multiple System Atrophy (MSA). ATH434 successfully completed Phase 1 studies demonstrating the agent is well tolerated and achieved brain levels

comparable to efficacious levels in animal models of MSA. ATH434 is currently being studied in a randomized, double-blind, placebo-controlled Phase 2 clinical trial in patients with early-stage MSA. ATH434 has been granted Orphan designation for the treatment of MSA by the U.S. FDA and the European Commission.

### **About Multiple System Atrophy**

Multiple System Atrophy (MSA) is a rare, neurodegenerative disease characterized by failure of the autonomic nervous system and impaired movement. The symptoms reflect the progressive loss of function and death of different types of nerve cells in the brain and spinal cord. It is a rapidly progressive disease and causes profound disability. MSA is a Parkinsonian disorder characterized by a variable combination of slowed movement and/or rigidity, autonomic instability that affects involuntary functions such as blood pressure maintenance and bladder control, and impaired balance and/or coordination that predisposes to falls. A pathological hallmark of MSA is the accumulation of the protein  $\alpha$ -synuclein within glia, the support cells of the central nervous system, and neuron loss in multiple brain regions. MSA affects approximately 15,000 individuals in the U.S., and while some of the symptoms of MSA can be treated with medications, currently there are no drugs that are able to slow disease progression and there is no cure.<sup>1</sup>

<sup>1</sup>[Multiple System Atrophy | National Institute of Neurological Disorders and Stroke \(nih.gov\)](#)

### **About Alterity Therapeutics Limited**

Alterity Therapeutics is a clinical stage biotechnology company dedicated to creating an alternate future for people living with neurodegenerative diseases. The Company's lead asset, ATH434, has the potential to treat various Parkinsonian disorders. Alterity also has a broad drug discovery platform generating patentable chemical compounds to intercede in disease processes. The Company is based in Melbourne, Australia, and San Francisco, California, USA. For further information please visit the Company's web site at [www.alteritytherapeutics.com](http://www.alteritytherapeutics.com).

### **Authorisation & Additional information**

This announcement was authorized by David Stamler, CEO of Alterity Therapeutics Limited.

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## **Forward Looking Statements**

*This press release contains "forward-looking statements" within the meaning of section 27A of the Securities Act of 1933 and section 21E of the Securities Exchange Act of 1934. The Company has tried to identify such forward-looking statements by use of such words as "expects," "intends," "hopes," "anticipates," "believes," "could," "may," "evidences" and "estimates," and other similar expressions, but these words are not the exclusive means of identifying such statements.*

*Important factors that could cause actual results to differ materially from those indicated by such forward-looking statements are described in the sections titled "Risk Factors" in the Company's filings with the SEC, including its most recent Annual Report on Form 20-F as well as reports on Form 6-K, including, but not limited to the following: statements relating to the Company's drug development program, including, but not limited to the initiation, progress and outcomes of clinical trials of the Company's drug development program, including, but not limited to, ATH434, and any other statements that are not historical facts. Such statements involve risks and uncertainties, including, but not limited to, those risks and uncertainties relating to the difficulties or delays in financing, development, testing, regulatory approval, production and marketing of the Company's drug components, including, but not limited to, ATH434, the ability of the Company to procure additional future sources of financing, unexpected adverse side effects or inadequate therapeutic efficacy of the Company's drug compounds, including, but not limited to, ATH434, that could slow or prevent products coming to market, the uncertainty of obtaining patent protection for the Company's intellectual property or trade secrets, the uncertainty of successfully enforcing the Company's patent rights and the uncertainty of the Company freedom to operate.*

*Any forward-looking statement made by us in this press release is based only on information currently available to us and speaks only as of the date on which it is made. We undertake no obligation to publicly update any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future developments or otherwise.*