

October 15, 2024



MAIA Biotechnology Announces Poster Presentation of Novel THIO Prodrugs at ENA 2024 Symposium on Molecular Targets and Cancer Therapeutics

- **MAIA seeks to advance two new THIO-derived telomere-targeting molecules to clinical trials**

CHICAGO--(BUSINESS WIRE)-- **MAIA Biotechnology, Inc., (NYSE American: MAIA)** ("MAIA", the "Company"), a clinical-stage biopharmaceutical company developing targeted immunotherapies for cancer, today announced that an abstract related to the company's second generation of proprietary telomere-targeting THIO prodrugs has been accepted for poster presentation during the upcoming 36th EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, taking place October 23-25, 2024, in Barcelona, Spain. The Symposium is hosted by the European Organisation for Research and Treatment of Cancer (EORTC), the National Cancer Institute (NCI) and the American Association for Cancer Research (AACR).

MAIA will present the results of preclinical studies for its new THIO-based prodrugs, designated as MAIA-2021-20 and MAIA-2022-12, which are lipid-conjugated compounds derived from THIO. These second-generation compounds belong to a new chemical class of molecules called telomere targeting divalent dinucleotides. These preclinical studies were designed to evaluate the efficacy of the new molecules alone and in combination with or without immune checkpoint-blocking antibodies (anti-PD-L1).

MAIA's Chief Scientific Officer Sergei Gryaznov, Ph.D. commented, "Our presentation will demonstrate that treatment with each of the prodrugs studied was highly efficacious and was shown to overcome immunotherapy resistance. [Our results](#) have shown marked activity in advanced tumors and resulted in tumor growth inhibition in preclinical models of lung cancer, colorectal carcinoma, melanoma and hepatocellular carcinoma. We are actively working to advance these candidates toward clinical development."

Presentation details:

Title: New Dual-Pharmacophore Dinucleotide Prodrugs as Potent Telomere Targeting Anticancer Molecules
Abstract number: ENA24-0044
Session title: New Drugs

Date and time: Wednesday, October 23, 2024, at noon CEST

Presenting author: Ilgen Mender, Ph.D., Director of Biology Research, MAIA Biotechnology

Poster access: MAIA's poster will be available at maiabiotech.com/publications on October 23, 2024

MAIA has designed and evaluated more than 80 THIO-like compounds to date and has submitted three U.S. patent applications for its second-generation telomere targeting agents.

About THIO

THIO (6-thio-dG or 6-thio-2'-deoxyguanosine) is a first-in-class investigational telomere-targeting agent currently in clinical development to evaluate its activity in Non-Small Cell Lung Cancer (NSCLC). Telomeres, along with the enzyme telomerase, play a fundamental role in the survival of cancer cells and their resistance to current therapies. The modified nucleotide 6-thio-2'-deoxyguanosine (THIO) induces telomerase-dependent telomeric DNA modification, DNA damage responses, and selective cancer cell death. THIO-damaged telomeric fragments accumulate in cytosolic micronuclei and activates both innate (cGAS/STING) and adaptive (T-cell) immune responses. The sequential treatment with THIO followed by PD-(L)1 inhibitors resulted in profound and persistent tumor regression in advanced, in vivo cancer models by induction of cancer type-specific immune memory. THIO is presently developed as a second or later line of treatment for NSCLC for patients that have progressed beyond the standard-of-care regimen of existing checkpoint inhibitors.

About MAIA Biotechnology, Inc.

MAIA is a targeted therapy, immuno-oncology company focused on the development and commercialization of potential first-in-class drugs with novel mechanisms of action that are intended to meaningfully improve and extend the lives of people with cancer. Our lead program is THIO, a potential first-in-class cancer telomere targeting agent in clinical development for the treatment of NSCLC patients with telomerase-positive cancer cells. For more information, please visit www.maiabiotech.com.

Forward Looking Statements

MAIA cautions that all statements, other than statements of historical facts contained in this press release, are forward-looking statements. Forward-looking statements are subject to known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels or activity, performance or achievements to be materially different from those anticipated by such statements. The use of words such as "may," "might," "will," "should," "could," "expect," "plan," "anticipate," "believe," "estimate," "project," "intend," "future," "potential," or "continue," and other similar expressions are intended to identify forward looking statements. However, the absence of these words does not mean that statements are not forward-looking. For example, all statements we make regarding (i) the initiation, timing, cost, progress and results of our preclinical and clinical studies and our research and development programs, (ii) our ability to advance product candidates into, and successfully complete, clinical studies, (iii) the timing or likelihood of regulatory filings and approvals, (iv) our ability to develop, manufacture and commercialize our product candidates and to improve the manufacturing process, (v) the rate and degree of market acceptance of

our product candidates, (vi) the size and growth potential of the markets for our product candidates and our ability to serve those markets, and (vii) our expectations regarding our ability to obtain and maintain intellectual property protection for our product candidates, are forward looking. All forward-looking statements are based on current estimates, assumptions and expectations by our management that, although we believe to be reasonable, are inherently uncertain. Any forward-looking statement expressing an expectation or belief as to future events is expressed in good faith and believed to be reasonable at the time such forward-looking statement is made. However, these statements are not guarantees of future events and are subject to risks and uncertainties and other factors beyond our control that may cause actual results to differ materially from those expressed in any forward-looking statement. Any forward-looking statement speaks only as of the date on which it was made. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law. In this release, unless the context requires otherwise, "MAIA," "Company," "we," "our," and "us" refers to MAIA Biotechnology, Inc. and its subsidiaries.

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