NEWS RELEASE

Starlight Therapeutics, a Subsidiary of Lantern Pharma Focused on CNS & Brain Cancers, Announces Dr. Marc Chamberlain as Chief Medical Officer

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DALLAS--(BUSINESS WIRE)-- Starlight Therapeutics— a Lantern Pharma (Nasdaq: LTRN) subsidiary focused exclusively on the clinical development of therapies for central nervous system and brain cancers with limited or no effective therapeutic options— today announced that Marc Chamberlain, M.D. has joined Starlight as its Chief Medical Officer. Dr. Chamberlain will oversee Starlight's clinical operations, which currently include planned clinical trials for glioblastoma and other high-grade gliomas, brain metastases in adults, and atypical teratoid rhabdoid tumors (ATRT), and diffuse pontine glioma (DIPG) in children. In his role, Dr. Chamberlain will apply his significant medical, clinical, and pharmaceutical development expertise to advance Starlight's AI-enabled and accelerated drug development portfolio.

This press release features multimedia. View the full release here:
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Starlight and Lantern Logos (Joint)

Dr. Chamberlain is a leading medical oncologist with an extensive and distinct background in therapeutic development, clinical practice, and academic research with a focus in adult and pediatric neurology and neuro-oncology. His experience before joining Starlight has included serving as the co-director of the neuro-oncology programs at 4 NCI designated cancer centers— Moores Cancer

Center at UC San Diego, Norris Cancer Center at USC, Moffit Cancer Center at the University of South Florida, and Fred Hutchinson Cancer Center at the University of Washington. He has also served as medical director for Cascadian Therapeutics, Seattle Genetics, SystImmune, Angiochem, and Pionyr Immunotherapeutics. Dr. Chamberlain has published more than 300 neurology-focused papers in peer-reviewed journals.

“Starlight Therapeutics and Lantern Pharma are poised to transform oncology with AI-enabled drug development aimed at providing advanced precision therapeutics for cancers in areas of severely unmet need, such as multiple types of pediatric and adult brain cancers, for which there is currently no cure,” said Panna Sharma, CEO and President of Lantern Pharma. “Dr. Chamberlain’s insight and expertise in neuro-oncology and therapeutic development will be invaluable to the further development of treatments already in the pipeline, and the discovery and development of new future treatments that are so desperately needed by cancer patients, especially in neuro-oncology.”

Dr. Chamberlain earned his medical degree at the Columbia University College of Physicians and Surgeons, followed by pediatric and neurology residencies at the University of California, Los Angeles, and a neuro-oncology fellowship at the University of California, San Francisco.

“Starlight, in collaboration with Lantern Pharma, is poised to advance its novel central nervous system (CNS) penetrant wholly synthetic acylfulvene, LP-184 (referred to as “STAR-001” for CNS indications), to target tumors in the brain. We are now preparing for two recurrent glioblastoma studies as part of a larger planned expansion study to assess STAR-001 in subjects who have failed standard-of-care temozolomide and involved field radiotherapy. The development of STAR-001 for use in brain tumors has utilized Lantern’s proprietary RADR® platform of in silico modeling as well as extensive preclinical experimentation in multiple in-vitro and in-vivo models,” said Dr. Chamberlain. “I’m looking forward to working alongside the talented researchers and experts at Lantern and its collaborators at Starlight who have already done so much to advance these treatments. I look forward to working together with our collaborators and clinicians to bring these and many more innovative neuro-oncology treatments to the patients who need them.”

Formed in Q1 of 2023, Starlight Therapeutics is leveraging RADR®— Lantern Pharma’s proprietary artificial intelligence and machine learning platform focused on transforming the cost, pace and timeline of oncology drug discovery and development— to research, develop and clinically advance therapeutics for CNS and brain cancers.

About Lantern Pharma

Lantern Pharma (NASDAQ: LTRN) is an AI company transforming the cost, pace, and timeline of oncology drug discovery and development. Our proprietary AI and machine learning (ML) RADR® platform leverages over 60 billion oncology-focused data points and a library of 200+ advanced ML algorithms to help solve billion-dollar, real-world

problems in oncology drug development. By harnessing the power of AI and with input from world-class scientific advisors and collaborators, we have accelerated the development of our growing pipeline of therapies including eleven cancer indications and an antibody-drug conjugate (ADC) program. On average, our newly developed drug programs have been advanced from initial AI insights to first-in-human clinical trials in 2-3 years and at approximately $1.0-2.0 million per program.

Our lead development programs include a Phase 2 clinical program and multiple Phase 1 clinical trials. We have also established a wholly-owned subsidiary, Starlight Therapeutics Inc., to focus exclusively on the clinical execution of our promising therapies for CNS and brain cancers, many of which have no effective treatment options. Our AI-driven pipeline of innovative product candidates is estimated to have a combined annual market potential of over $15 billion USD and have the potential to provide life-changing therapies to hundreds of thousands of cancer patients across the world.

Forward-looking Statements

This press release contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements include, among other things, statements relating to: future events or our future financial performance; the potential advantages of STAR-001 and our other product candidates; the potential advantages of our RADR® platform in identifying drug candidates and patient populations that are likely to respond to a drug candidate; our strategic plans to advance the development of STAR-001 and our other drug candidates and antibody drug conjugate (ADC) development program; estimates regarding the development timing for our drug candidates and ADC development program; expectations and estimates regarding clinical trial timing and patient enrollment; our research and development efforts of our internal drug discovery programs and the utilization of our RADR® platform to streamline the drug development process; our intention to leverage artificial intelligence, machine learning and biomarker data to streamline and transform the pace, risk and cost of oncology drug discovery and development and to identify patient populations that would likely respond to a drug candidate; estimates regarding patient populations, potential markets and potential market sizes; sales estimates for our drug candidates and our plans to discover and develop drug candidates and to maximize their commercial potential by advancing such drug candidates ourselves or in collaboration with others. Any statements that are not statements of historical fact (including, without limitation, statements that use words such as "anticipate," "believe," "contemplate," "could," "estimate," "expect," "intend," "seek," "may," "might," "plan," "potential," "predict," "project," "target," "model," "objective," "aim," "upcoming," "should," "will," "would," or the negative of these words or other similar expressions) should be considered forward-looking statements. There are a number of important factors that could cause our actual results to differ materially from those indicated by the forward-looking statements, such as (i) the risk that our research and the research of our collaborators may not be successful, (ii) the risk that none of our product

candidates has received FDA marketing approval, and we may not be able to successfully initiate, conduct, or conclude clinical testing for or obtain marketing approval for our product candidates, (iii) the risk that success in early phases of pre-clinical and clinicals trials does not ensure later clinical trials will be successful; (iv) our future ability to fund the clinical trials and further development of STAR-001 and other product candidates and the availability of capital if and when needed, (v) the risk that no drug product based on our proprietary RADR® AI platform has received FDA marketing approval or otherwise been incorporated into a commercial product, and (vi) those other factors set forth in the Risk Factors section in our Annual Report on Form 10-K for the year ended December 31, 2022, filed with the Securities and Exchange Commission on March 20, 2023. You may access our Annual Report on Form 10-K for the year ended December 31, 2022 under the investor SEC filings tab of our website at **www.lanternpharma.com** or on the SEC's website at **www.sec.gov**. Given these risks and uncertainties, we can give no assurances that our forward-looking statements will prove to be accurate, or that any other results or events projected or contemplated by our forward-looking statements will in fact occur, and we caution investors not to place undue reliance on these statements. All forward-looking statements in this press release represent our judgment as of the date hereof, and, except as otherwise required by law, we disclaim any obligation to update any forward-looking statements to conform the statement to actual results or changes in our expectations.

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