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University of Lethbridge completes dose response study for Gb Sciences' new Parkinson's Disease Therapy

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LAS VEGAS, July 11, 2023 (Newsire.com) - [Gb Sciences, Inc.](#), a leading cannabis- and plant-inspired biopharmaceutical research and development company, has successfully completed a dose response study in rodents at the University of Lethbridge that supports Gb Sciences' cannabinoid-based therapy for Parkinson's disease. The study has established dose ranges and the corresponding times to onset and duration of action in a rodent model. In addition to the dosage range findings, this study demonstrated that Gb Sciences' Parkinson's disease formulations were well tolerated, and there were no adverse effects. As early as next year, Gb Sciences plans on filing an Investigational New Drug Application to begin first-in-human clinical trials. As the second most common neurodegenerative disease, the market for Parkinson's disease (PD) treatments is expected to grow to \$12.8 billion by 2028.

"Gb Sciences is developing a first-in-class, cannabinoid-based treatment for the motor symptoms of Parkinson's disease," says Dr. Andrea Small-Howard, President, Chief Science Officer and board member of Gb Sciences, Inc. "From this critical study, we have established ranges for the dosage and duration of action in a rodent model that helps us to predict the corresponding and appropriate dose range and duration of action of Gb Sciences' Parkinson's disease therapies for our first-in-human trial. Additionally, this study augments our safety data and suggests that our novel therapeutic may also help alleviate the significant non-motor symptoms of the disease such as problems with sleeping and appetite."

The dose response study in rodents performed at ULethbridge helps to establish the correct dosing of Gb Sciences' cannabinoid-containing Parkinson's formulations for a first-in-human trial. Dr. Robert Sutherland, Ph.D., FRSC, Professor and Chair of the Department of Neuroscience at the University, Board of Governors Research Chair in Neuroscience and Director of the Canadian Centre for Behavioral Neuroscience, used deep learning models to

analyze the rich data sets from their “Home Cage Small World” behavioural assessments of rodents with video cameras and Artificial Intelligence, using a system developed by Neurocage Systems Ltd. Future studies confirming the mechanism of action of these cannabinoid-based Parkinson’s formulations are planned with Dr. Sutherland’s research group at ULeithbridge using their state-of-the-art behavioural measurement methods for rodents.

To learn more about Gb Sciences, visit www.gbsciences.com.

About Gb Sciences and GbS Global Biopharma

Gb Sciences, Inc. is a plant-inspired, biopharmaceutical research and development company creating patented, disease-targeted formulations of cannabis- and other plant-inspired therapeutic mixtures for the prescription drug market through its Canadian subsidiary, GbS Global Biopharma, Inc. The 'plant-inspired' active ingredients in its therapeutic mixtures are synthetic homologues identical to the original plant compounds but produced under current Good Manufacturing Practices. Gb Sciences' intellectual property portfolio contains six U.S. and five foreign patents issued, one US and three foreign patents allowed; as well as 18 U.S. and 55 foreign patent-pending applications. In its drug development pipeline, Gb Sciences has five preclinical phase product development programs. Gb Sciences' lead program for Parkinson's disease is being prepared for a first-in-human clinical trial. Gb Sciences' formulations for chronic pain, anxiety and depression are currently in preclinical animal studies with researchers at the National Research Council of Canada (NRC). The company received positive preclinical proof-of-concept data supporting its complex mixtures for the treatment of Cytokine Release Syndrome, and its lead candidates will be optimized based on late-stage preclinical studies at Michigan State University. The Company has also received positive preclinical proof-of-concept data supporting its phytochemical mixtures for the treatment of anxiety. Gb Sciences' productive research and development network includes distinguished universities, hospitals, and Contract Research Organizations. To learn more, visit www.gbsciences.com.

Forward-Looking Statements

This press release may contain statements relating to future results or events, which are forward-looking statements. Words such as "expects," "intends," "plans," "may," "could," "should," "anticipates," "likely," "believes" and words of similar import may identify forward-looking statements. These statements are not historical facts, but instead represent only the Company's belief regarding future events, many of which, by their nature, are inherently uncertain and outside of the Company's control. It is possible that the Company's actual results and financial condition may differ, possibly materially, from the anticipated results and financial condition indicated in these forward-looking statements. Further, information concerning the Company and its business, including factors that potentially could materially affect the

Company's business and financial and other results, are contained in the Company's filings with the Securities and Exchange Commission, available at www.sec.gov. All forward-looking statements included in this press release are made only as of the date of this press release, and we do not undertake any obligation to publicly update or correct any forward-looking statements to reflect events or circumstances that subsequently occur or of which we hereafter become aware.

This news release can be found online at [GbSciences dosage response study](#).

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Our University's Blackfoot name is Iniskim, meaning Sacred Buffalo Stone. The University is located in traditional Blackfoot Confederacy territory. We honour the Blackfoot people and their traditional ways of knowing in caring for this land, as well as all Indigenous Peoples who have helped shape and continue to strengthen our University community.