

# GreenStar Biosciences Announces Filing of Third Provisional Patent Application by Eleusian Biosciences

## Additional provisional patent application, strengthens IP portfolio of therapeutics for the treatment of mild traumatic brain injuries (mTBI) with PTSD or PTSD alone.

Vancouver, British Columbia--(Newsfile Corp. - July 23, 2020) - GreenStar Biosciences Corp. (CSE: GSTR) (OTC Pink: GTSIF) ("**GreenStar**" or the "**Company**") is pleased to announce that Eleusian Biosciences Corporation ("**Eleusian**") has added to its existing intellectual property portfolio by filing a third provisional patent application. This application further expands the portfolio of proprietary psychedelic therapeutics available to GreenStar and strengthens the intellectual property ("**IP**") portfolio for treatment of neuropsychiatric disorders with psychedelic compounds. As announced on July 21, 2020, GreenStar and Eleusian have entered into a binding definitive share exchange agreement for GreenStar to acquire 100% of Eleusian.

This provisional patent application Serial No.: 63/040,032 is for methods and compositions for treating mild traumatic brain injury/concussion ("**mTBI**") with post-traumatic stress disorder ("**PTSD**") or PTSD alone with 3,4-methylenedioxymethamphetamine ("**MDMA**") plus N-acetylcysteine ("**NAC**").

In 2017, the United States Food and Drug Administration ("**FDA**") granted breakthrough therapy designation for MDMA-assisted psychotherapy for the treatment of PTSD. The Multidisciplinary Association for Psychedelic Studies ("**MAPS**"), has already successfully completed Phase 2 clinical trials for MDMA-assisted psychotherapy for PTSD, where of 107 participants, 68% no longer had PTSD at the 12-month follow up. All participants had chronic treatment-resistant PTSD and had suffered from PTSD for an average of 17.8 years. (<https://maps.org/research/mdma/ptsd/phase3>). MAPS has obtained the FDA's agreement for an Expanded Access program, which will allow early access to potentially beneficial investigational therapies for people facing a serious or life-threatening condition for whom currently available treatments have not worked, and who are not able to participate in Phase 3 clinical trials. These agreements validate the fact that MDMA can be an effective therapeutic option for people suffering from PTSD. Eleusian management believes their combination of MDMA plus NAC will result in superior efficacy relative to MDMA alone.

As previously announced, Eleusian has a collaboration agreement with the Miller School of Medicine at the University of Miami to work with a multidisciplinary team of scientists and physicians to develop effective therapeutics for the treatment of mTBI with PTSD, or PTSD alone, using psilocybin and NAC. NAC has been shown to be safe and efficacious in a phase I human clinical study treating military personnel who had suffered mTBI. Eleusian intends to discuss with the Miller School of Medicine at the University of Miami the potential to initiate a research program with their same research team studying MDMA plus NAC for the treatment of mTBI with PTSD or PTSD alone.

According to the Centers of Disease Control and Prevention (the "**CDCP**"), traumatic brain injury ("**TBI**") is a major cause of death and disability in the United States. According to the CDCP, the number of TBI-related emergency department visits, hospitalizations, and deaths increased by 53% from 2006 to 2014. TBI cases can range from mild to severe. Mild TBI is the most prevalent form of TBI and effects can include physical symptoms such as loss of consciousness, headache, nausea, fatigue, dizziness and others, sensory problems such as blurred vision, ringing in the ears and sensitivity to light and sound, and cognitive or mental symptoms such as memory problems, mood changes and feelings of depression. These issues not only affect individuals with TBI, but can also have lasting effects on families

and communities. According to the U.S. Department of Veterans Affairs, National Center for PTSD, about 7-8% of the U.S. population will have PTSD at some point in their lives and about 8 million U.S. adults have PTSD during a given year. PTSD is a mental health condition that can affect anyone, with potentially long lasting effects. PTSD and TBI have similar symptoms and often coexist because brain injuries are often sustained in traumatic experiences and there is increasing evidence that mTBI can increase risk for PTSD.

"The goal at Eleusian has been to create a best in class management and scientific team, develop our IP portfolio, and develop medical devices and therapeutics to treat certain brain diseases and promote mental wellness," said Maghsoud Dariani, CSO of Eleusian. "With the success MAPS has been having, we are very excited to add the new provisional patent application using MDMA to our portfolio of intellectual property. The research and use of psychedelics, for the treatment of brain injury, has been gaining significant traction and support recently. With our in-house expertise and collaboration partners at the Miller School of Medicine, we believe our development efforts can result in a groundbreaking treatment for mTBI with PTSD or PTSD alone."

### **About GreenStar**

GreenStar is a growth-oriented technology & services company that provides real estate, financial, management, IP & branding support to businesses. The Company operates a growing portfolio of tenant partner companies focused on developing transformational medicines and applies refined strategies to help partner companies reach their full potential. Based in Vancouver, BC, GreenStar intends to facilitate growth through acquisitions and development of additional assets, products and technologies by leveraging its capital markets, branding and operational expertise.

### **About Eleusian**

Eleusian Biosciences Corp., a Toronto based company, is focused on development of therapeutics for multiple pathological psychological diseases based on psychedelic compounds including psilocybin and 3,4-methylenedioxymethamphetamine (MDMA) plus N-Acetylcysteine (NAC) compounds. Eleusian is collaborating with a multidisciplinary team of scientists and physicians at the Miller School of Medicine at the University of Miami to develop effective therapeutics for the treatment of mTBI (mild traumatic brain injury/concussion) with PTSD or PTSD alone based on Psilocybin (the active ingredient of psychedelic mushrooms) and NAC or MDMA and NAC. NAC has been shown to have efficacy in treating mTBI, particularly in reducing neuronal losses and also reducing impaired cognitive and neurological symptoms after injury to head. For more information, visit the company's website at [www.eleusian.bio](http://www.eleusian.bio).

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The information in this news release pertaining to Eleusian was provided by Eleusian. Although GreenStar does not have any knowledge that would indicate that such information is untrue or incomplete, neither GreenStar nor any of its directors or officers assumes any responsibility for the accuracy or completeness of such information.

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