

February 16, 2022



Mydecine Announces MYCO-005 Family of Improved Safety Microdose Novel Molecules

Company reports positive clinical data assessing cardiovascular risk for patent-pending microdose compound

DENVER, Feb. 16, 2022 (GLOBE NEWSWIRE) -- Mydecine Innovations Group Inc. (NEO: MYCO) (OTC: MYCOF) (FSE: ONFA) (“Mydecine” or the “Company”), a biotechnology company aiming to transform the treatment of mental health and addiction disorders, today announced the inclusion of a novel molecule with potentially heart-safe microdose enabling properties in their family of psilocin analogs. The Company has named this group of patent pending molecules MYCO-005.

In December of 2021, Mydecine [announced](#) a patent application covering multiple families of psilocin analogs, MYCO-005. This family of second-generation molecules directly addresses delivery and stability concerns with the first-generation compounds. The Company reported that its research findings indicate this family of molecules includes a psilocin analog that could potentially be considered a heart-safe microdose drug by eliminating a possible known risk factor.

[Microdosing](#) refers to consuming a very low dose of a psychedelic substance to retain some of the benefits without undergoing a psychoactive experience. Although microdosing has been gaining popularity in mainstream media as a possible treatment for indications such as ADHD, depression and anxiety, more research is needed to confirm the safety and efficacy of this method.

“When you consider any drug intended to be taken over a long period of time, there is often a strong medical risk involved,” said Mydecine Chief Scientific Officer Rob Roscow. “When it comes to psilocybin in particular, there are cardiovascular health concerns due to the binding affinity to the 5-HT2B receptor.”

Previous [studies](#) have drawn connections between binding to the 5-HT2B receptor and heart valve tissue fibrosis. Classic psilocybin, or psilocin -- its active metabolite, has a strong binding affinity to both the 5-HT2A and 5-HT2B serotonin receptors. Therefore, consuming low doses of psilocybin over a long period of time could cause certain cardiac risks.

“Through our ongoing research, we have found that one of our psilocin analogs is showing strong binding at the classic psychedelic 5-HT2A receptor, but is not binding to the 5-HT2B receptor. This is a strong indication that our improved psilocin analog could potentially produce the same benefits of natural psilocybin with an increased safety profile for microdosing,” added Roscow.

The Company's patent-pending dermal route to administration provides more control over the drug while potentially eliminating undesirable properties like nausea by bypassing the digestive system. Mydecine's research will explore this new feature set alongside their patent pending skin permeation technology to produce a low-dosed, time-released patch drug that is non-hallucinatory.

"We are very excited about our MYCO-005 family of molecules," said CEO Josh Bartch. "Not only have we made improvements to this second generation of compounds to specifically address concerns for medical use, like onset time and shelf stability, but now we believe we have also identified a microdosing compound that is safer than what's currently available on the market. This is one of many exciting drug discoveries we look forward to sharing in the near term."

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About Mydecine Innovations Group

Mydecine Innovations Group™ (NEO:MYCO) (OTC:MYCOF) (FSE:0NFA) is a biotechnology company developing innovative first- and second-generation novel therapeutics to treat unmet needs in mental health and addiction disorders. Focusing on psychedelic compounds and other novel molecules with therapeutic potential, the Mydecine business model combines world-class technology and drug development infrastructure with clinical trials and data outcome. By collaborating with some of the world's foremost authorities, Mydecine aims to responsibly fast track the development of novel medicines to provide patients with safer and more effective treatment options. Founded in 2020, Mydecine Innovations Group is headquartered in Denver, Colorado, USA, with international offices in Leiden, Netherlands.

Learn more at: <https://www.mydecine.com> and follow us on [Twitter](#), [LinkedIn](#), [YouTube](#) and [Instagram](#).

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For further information about Mydecine Innovations Group, Inc., please visit the Company's profile on SEDAR at www.sedar.com or visit the Company's website at www.mydecine.com.

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Source: Mydecine Innovations Group Inc.