

The Verde Science Vision for Medical Marijuana Research and Development

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Verde Science's Vision and Plan

Verde Science, Inc. (OTCQB: VRCI) has created an exceptional R&D structure that is pursuing a focused program to isolate the active ingredients, which make up the cannabis extract. We are using the purest form of aeroponically grown marijuana and testing the efficacy of the promising molecules for the treatment of specific medical conditions. To fulfill these goals, Verde Science has assembled a powerful R&D team that includes scientists in Canada and India.

The company has:

- Established an R&D alliance with a Mumbai, India based pharmaceutical company that has a significant record of success in the development of novel medical treatment compounds and delivery systems.
- Initiated an extensive relationship with the Institute of Chemical Technology, a Mumbai, India based university focused on research and education across the entire spectrum of Chemical Engineering.
- An R&D team to immediately begin research in India, and not have to wait up to a year for an R&D license in Canada.

The Verde Science approach to medical marijuana is a medical and pharmacological investigation that our scientists believe will yield the safest and most efficacious cannabinoid based compounds for the treatment of numerous medical conditions. This approach will separate Verde Science from the majority of players and position the company as a leader in the medical marijuana industry.

Current Approach to Medical Marijuana Use

The current use and focus of the medical marijuana community is a generalized approach for the treatment of a wide array of ailments to see which medical problems it is best suited for. This approach administers marijuana either by smoking it or by breathing in smoke that has been vaporized. Unfortunately virtually every serious medical organization has stated that while marijuana may have medical benefits, smoking or breathing in marijuana smoke is deleterious to health. Even vaporizing marijuana can reduce only 50% to 60% of the unwanted particles and impurities.

Verde Science's approach is to produce highly efficacious compounds which utilize only the pure active chemical ingredients that have an effect on specific medical conditions, administered in the most direct and efficacious manner, whether through capsule form, inhalers, intravenously or other novel delivery systems.

Limited Number of Medically Proven Marijuana Products

There are currently only limited medical marijuana product offerings. Marinol® is a synthetic THC that is available by prescription which is only approved for the treatment of nausea in cancer patients and for appetite stimulation for AIDS patients. Dr. David Bearman in Santa Barbara, CA, who is the largest prescriber of Marinol®, has stated, "I find that it has more side effects, costs more, and does not work as well as cannabis and may cause dysphoria." Dysphoria is an intense state of depression or unease that may lead to suicide. The other offering is Sativex®, which is a whole plant alcohol extract that is made from two strains of cannabis. Because it is generalized, it may be far less efficacious than specifically derived cannabis chemical extracts.

Cannabis Is Beneficial for Numerous Medical Conditions

Cannabis, or medical marijuana has shown beneficial properties for the relief of chronic pain, rheumatoid arthritis, fibromyalgia, restless leg syndrome, ADD, PTSD, OCD, migraines, glaucoma, PMS, seizures, bi-polar disorder, Tourette's syndrome, and panic attacks. Most of these indications have not been verified through systematic research, and have been shown to provide limited to complete relief. However, the cannabis was mostly grown through traditional techniques and administered by smoking it. Verde Science's protocols will identify specific chemical compounds produced for specific medical ailments, which will be administered in the most potent method. Our scientists believe this approach will produce superior results that are far more effective and consistent.

Verde Science's Future Plans

Our future plans include finalizing the Verde Science R&D Program plan in the next two months, followed by a capital raise to fund the program. This will be done in 3 or 4 tranches of \$500,000 to \$600,000 to fully fund our R&D program for the next two years.

Corporate and Financial Information

Listed / Trading Symbol: OTCQB – VRCI
Shares Outstanding: 130,938,543
Reporting Status: US Reporting – SEC Filer
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VERDE SCIENCE – APPENDIX

Evidence of the Rising Acceptance of Medical Marijuana

- Nearly 3,000 physicians in Oregon have recommended the use of cannabis to one or more of their patients.
- Estimates in California are between 3,000 and 5,000 physicians have recommended the use of cannabis to their patients.
- Numerous medical organizations have come out in favor of the use of medical marijuana, including the American Public Health Association, The American Academy of Family Physicians, and the American Pain Management Association.
- The former US Surgeon General, Dr. Jocelyn Elders, has stated that there is an overwhelming amount of evidence that shows cannabis can relieve certain types of pain.
- A 1997 editorial in the New England Journal of Medicine criticized the US government for preventing physicians from prescribing cannabis for ill patients.



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Brief History of Marijuana Use in Medicine

- Dr. William B. O'Shaughnessy introduced cannabis to Western medicine in 1839 after spending several years in India and observing its healing effects.
- In the 1890's, Sir Joshua Reynolds prescribed tincture of cannabis to Queen Victoria for the treatment of pre-menstrual syndrome.
- In the late 1890's Sir William Osler, M.D., considered the founder of modern medicine, wrote in his textbook that cannabis was the most effective treatment for migraines.
- Dr. Morris Fishbein, editor of the Journal of the American Medical Association, reiterated this same position in a 1942 article.
- Cannabis was the fourth most common ingredient in patent medicines manufactured by such companies as Squibb, Eli Lilly, Merck and Parke-Davis from 1850 to the 1930's.
- Cannabis fell out of favor in the 1940's when pharmaceutical companies avoided plant ingredients, which began to be viewed as primitive, for "more modern" chemically developed compounds.

How Cannabis Works

- Cannabis is a 21-carbon molecule that contains 483 chemicals. Sixty-six of these chemicals are cannabinoids, many of which have been shown to have medicinal value.
- The medicinal effects of cannabis are mediated by the endocannabinoid system. An introduction of cannabinoids increases the amount of the neurotransmitter dopamine in the brain. The effect of an increase of dopamine is to slow down neurotransmission.
- Therefore, if a person is having migraines caused by an overload of the electrical circuits in a certain part of the brain, slowing down the speed of transmission leads to fewer neural impulses, which in turn, decreases the likelihood or severity of a migraine. The same is true for people having panic attacks. If one has negative thoughts surging throughout the midbrain, the emotional control center of the brain, the limbic system becomes overwhelmed. Cannabis slows down the speed of neurotransmission, and reduces neural stimuli, thus alleviating symptoms.
- Dopamine acts as one of the "off" switches of the brain's regulatory mechanism. Cannabinoids compete with dopamine for the binding sites on the dopamine transporter, thus freeing up more dopamine in the brain to slow down the speed of neurotransmissions. In the opinion of many medical researchers, this is responsible for part of the therapeutic value of cannabis.
- In other cases cannabis has a direct effect on other receptor sites in the brain that contribute to therapeutic value in the treatment of other conditions. For instance, cannabis apparently directly affects the appetite and sleep centers of the brain, decreasing the perception of pain and also nausea. Further, cannabinoids may stimulate certain receptors in the GI tract, which makes them valuable in treating Crohn's Disease and IBT.



In California, it is estimated that there are between 3,000 and 5,000 physicians recommending the use of cannabis to their patients.