# Nanotechnology and cannabis

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## I. Abstract Body

It's no secret that the last five years have been good for the cannabis industry. Although legalization has yet to spread around the world, the stigma surrounding cannabis use has begun to shift towards a more widespread acceptance of the benefits of the plant. In Canada alone, the legal market is worth $ 5 billion by 2021, which is a conservative estimate, as Canada has one of the highest rates of cannabis use.

Along with the myriad businesses riding this wave, so are the scientists. An innovation race has been launched to explore the various applications of cannabis in health and wellness.

While nanotechnology has been used in the food and medical industries for some time, its potential with cannabis is only just beginning to be explored.

According to the Pot Network, cannabis, and other products in general, appears to work most effectively when broken down into tiny particles. When they break down, chronic pain patients, for example, may feel the first signs of relief within 15 minutes of absorption. This is due to the fact that the nanoparticles are directly absorbed into the bloodstream.

This technology should continue to gain momentum in North America, with a population of more than 70 million postwar births that is aging. From cancer treatment to extended-release sleep aids, scientists are only scratching the surface of the potential of nanotechnology.

Nanocann Group is one of those companies that is driving the cannabis market through the use of nanotechnology. Based in Mexico City, he's ready to take full advantage of the upcoming Mexican cannabis law.

The company conducts research and manufactures nanotech encapsulates focused on the development of health-based CBD hemp consumer products in the nutraceutical, cosmetics, food and beverage sectors, as well as in the pet sectors around the world.

## II. Reference:

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2 Abrams D. I. (2016). Integrating cannabis into clinical cancer care. Current oncology (Toronto, Ont.), 23(2), S8–S14. https://doi.org/10.3747/co.23.3099

3 Ashok Singh. Novel nanoparticle-based treatment approaches. 2021, 281-343. https://doi.org/10.1016/B978-0-12-819680-9.00005-6

## III. Biography:

Leon Albarran Mena become Chemical Engineer and PhD (Chemistry) from the Universidad Autónoma Metropolitana.

In 2014 he obtained third place and in 2018 he obtained first place in the ADIAT Innovation Award.

He has been a member of the standardization committee in the nanotechnology field since 2010, of the Network for the Development of Drugs and Diagnostic Methods of CONACYT since 2011 and the Network of Nanosciences and Nanotechnologies since 2014.

He was Director of Innovation and Development for Gresmex S.A. de C.V. and Integre Soluciones S.A. de C.V.

He is also Director of Innovation and Development and Cofounder of Nanocann Group S.A. de C.V.

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