

Aurora Cannabis Expands Research on Auto-Flowering Strains

The Technology Will Transform Cultivation in High Latitude Regions

Aurora Cannabis, a leader in the cannabis industry, is making significant strides in cultivation techniques that promise to revolutionize farming in high latitude regions. With one of the world's largest genetic libraries located in Comox, British Columbia—spanning 32,200 square feet and housing over 10,000 square feet dedicated to research—the company is poised to enhance cannabis production through innovative science.

Focus on Molecular Mechanisms

On September 17, Aurora Cannabis announced its commitment to exploring the molecular mechanisms that control flowering and maturity in cannabis plants. This research aims to increase crop yield and adaptability, essential factors for maximizing economic value in a rapidly evolving market.

By leveraging natural variations in the circadian rhythm of cannabis, Aurora seeks to overcome traditional cultivation limitations. This groundbreaking work could lead to improved techniques that enhance the efficiency and output of cannabis farming.

Advancements in Auto-flowering Technology

One of the key breakthroughs in Aurora's research is in [auto-flowering technology](#). This process enables cannabis plants to transition automatically from the vegetative stage to the flowering stage without relying on light cycles. Such advancements are particularly advantageous for outdoor cultivation in high latitude areas, where daylight hours can fluctuate significantly.

Dr. Jose Celedon, Director of Breeding and Genetics at Aurora, emphasized the importance of this research. "As a company backed by science, we have long invested in research both independently and with leading academic institutions," he stated. "Our recent work on auto-flowering will be a game changer for cannabis and hemp production. This research speaks to our expertise and investment in science that will move this industry forward."

Implications for Outdoor Cultivation

Aurora's innovative approach to outdoor cultivation is set to yield greater harvests, particularly in challenging environments. The U.S. patent recently awarded to Aurora allows the breeding program to identify and select for the auto-flowering trait across various cannabis plants, enhancing genetic diversity and resilience.

The company has been engaged in cannabis breeding research since 2018, and the auto-flowering advancement is just the latest in a series of breakthroughs. Historically, their breeding program has produced

40-100% more flower than traditional varieties, significantly increasing productivity.

Looking Ahead

As Aurora Cannabis continues to push the boundaries of cannabis cultivation, the implications of its research are vast. The ability to produce higher yields in high latitude regions could not only improve economic viability for farmers but also contribute to a more sustainable cannabis industry overall.

With its commitment to science and innovation, Aurora Cannabis is not just shaping its own future but potentially transforming the entire landscape of cannabis cultivation. The ongoing research into auto-flowering technology represents a pivotal moment in the evolution of the industry, offering exciting prospects for growers worldwide.

Email: info@cannabisriskmanager.com | Phone: +415-226-4060

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