

Sixth Wave's Dr. Jon Gluckman talks about the election and the 2nd wave of cannabis investment

In a recent InvestorIntel interview, Tracy Weslosky speaks with Dr. Jon Gluckman, President, CEO and Founder of Sixth Wave Innovations Inc. (CSE: SIXW | OTCQB: ATURF) about what a Biden presidential win means for an energized and revitalized cannabis sector.

"We're pretty excited," said Dr. Gluckman, "that in addition to the Biden win it was pretty clear that the referendums on the state ballots in the U.S. were extremely positive and forward-looking for the future of cannabis and the significant expansion in the United States which is obviously a huge market."

Asked about what it means, Dr. Gluckman said that Sixth Wave sees it "as a tremendous opportunity for licensed producers to expand their footprints into different spaces and certainly for new equipment requirements which will include Affinity, so we're stoked." Affinity™ is Sixth Wave's cannabinoid purification system.

Discussing the Affinity cannabinoid purification system revenue model, Dr. Gluckman explains that it work on a "total system performance license" basis, where Sixth Wave provides the technology to licensed cannabis producers on a "small profit margin basis", but then partners to provide upgrades and maintenance in exchange for a portion of the producer's revenue stream. As Sixth Wave's Affinity optimization can save a projected 50% of a producer's production costs, this mutually beneficial arrangement can create a substantial

revenue stream for both the producer and Sixth Wave.

Dr. Gluckman explains to Tracy how the application of Sixth Wave's patented Molecular Imprint Polymers (#MIPs) technology creates "consistent and high purity" cannabinoid from a producer's raw material that is essential to creating a commercial product.

Regarding revenue expectations, Dr. Gluckman said that they expect to see revenue through a deal with Green Envy as early as December, and ramping up in the first quarter of 2021. Answering Tracy's question about investors who missed the "first wave" of cannabis investment, he said that "the very interesting thing now is that what we have seen is that the growers are all growing," and that "as new states come on board they are all going to need new licensed producers." And since there are federal restrictions on interstate movement of cannabis, production will have to be local to each state, requiring multiple production facilities

"We're really looking forward to it and scaling up significantly next year," Dr. Gluckman said.

To watch the full interview on YouTube, [click here](#).

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Sixth Wave's Dr Jon Gluckman

on the competitive advantages of Molecular Imprint Polymers for the rapid detection of viruses

In a recent InvestorIntel interview, Tracy Weslosky speaks with Dr. Jon Gluckman, President, CEO and Founder of Sixth Wave Innovations Inc. (CSE: SIXW | OTCQB: ATURF) about the application of their patented Molecular Imprint Polymers (#MIPs) technology for the detection of the COVID-19 virus, the flu and virus detection in general.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Dr. Gluckman went on to say that their patented #MIPs technology can identify molecules and may be used for detection of viruses in general and more specifically for COVID-19. He added, "We are in the phase 2 of our development for a COVID-19 test that would be completely synthetic test based on our molecular imprinted polymer technology." Sixth Wave was recently awarded funding from the Nova Scotia COVID-19 Response Council for the development of its Accelerated Molecularly Imprinted Polymer (AMIPs™) technology for the rapid detection of viruses such as SARS-CoV-2.

Speaking on the advantages of their synthetic test Dr. Gluckman said that the two test currently used for COVID-19 detection uses biological material which is fragile and uses tremendous infrastructure to support growing of the biological materials. He explained that Sixth Wave's technology uses synthetic polymers to detect viruses at a very low cost and allows for extended shelf life, minimal storage and handling requirements, and less sensitivity to temperature and light degradation.

To watch the complete interview, [click here](#)

About Sixth Wave

Sixth Wave is a nanotechnology company with patented technologies that focus on extraction and detection of target substances at the molecular level using highly specialized Molecularly Imprinted Polymers (MIPs). The Company is in the process of commercial roll out of its Affinity™ cannabinoid purification system, as well as, IXOS®, a line of extraction polymers for the gold mining industry. The Company is in the development stages of a rapid diagnostic test for viruses under the Accelerated MIPs (AMIPS™) label.

Sixth Wave can design, develop and commercialize MIP solutions across a broad spectrum of industries. The company is focused on nanotechnology architectures that are highly relevant for detection and separation of viruses, biogenic amines and other pathogens, for which the Company has products at various stages of development.

To learn more about Sixth Wave Innovations Inc., [click here](#)

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Biden's win brings a "green" market wave and cannabis extraction team attracts the

Sixth Wave

“Waves are inspiring not because they rise and fail, but because each time they fall. They never fail to rise again.” – Josh Billings

The Democratic “blue” wave failed to materialize during the recent U.S. elections but the “green” cannabis wave continues to build. Five states (Arizona, Mississippi, Montana, New Jersey, and South Dakota) easily passed ballot initiatives for the legalization of either recreational or medical cannabis use.

Currently, the medical use of cannabis is legalized in 35 states and the recreational use of cannabis is legalized in 15 states. Although federally illegal in the U.S., there is speculation that the Biden win is an important first step on the path towards the federal decriminalization of cannabis.

In the U.S., medical and recreational cannabis sales are on pace to exceed US\$15.5 billion by the end of 2020, an increase of approximately 40% over 2019, and grow by 30% in 2021.

To meet the higher demand, technology advancements have manifested in all parts of the supply chain, especially in the extraction and purification process.

Extraction

The three main methods of cannabinoid extraction are (1) ethanol or alcohol extraction; (2) hydrocarbon extraction, using butane or propane; and (3) carbon dioxide (“CO2”) extraction. If higher purity levels are required, a distillation process, often using chromatography technology, can increase purity levels into the high 90%.

As the industry shifts into pharmaceutical-grade production to meet medical and cannabis-infused products, cannabis extract producers continue to search for innovative ways to improve the purity of cannabinoid isolates and control costs.

One of the challenges for cannabis extract producers is that organic material has varying properties from batch-to-batch and a potential processing risk when scaling operations.

Sixth Wave – Cannabis Extraction Using Nanotechnology

Sixth Wave Innovations Inc. (CSE: SIXW | OTCQB: ATURF) is a nanotechnology company focused on the detection and extraction of target substances (e.g. cannabinoid, gold, or Covid-19) at the molecular level using patented technologies.

Led by a team of PhDs and scientists, Sixth Wave's Affinity™ System uses a proprietary Molecular Imprinted Polymers technology in the process of extracting cannabidiol ("CBD") and tetrahydrocannabinol ("THC") from hemp and cannabis.

The extraction process uses porous polymer beads and the polymer is designed to attract a specific molecule. As CBD and THC are both molecules, Sixth Wave created proprietary polymers to specifically target those molecules in the extraction process.

Benefits of Sixth Wave's Technology

Unlike other batch processes that purify components out of a product in various stages, Sixth Wave's process can take a wide variety of input materials, run it through the solution, and the polymer will selectively extract the specific cannabinoids. The resulting cannabinoid isolate can be up to 99.9% pure.

Chromatography, the legacy technology for purifying cannabinoid extractions, is considered to have issues with high capital and operating costs, efficiency, and scalability.

The Affinity™ System was designed to be highly automated and user friendly, requiring minimal training and human intervention. The system uses lower-cost components, minimizes the need for intermediate batch processing, and can be operated continuously, making it a more cost-effective solution.

Dr. Jonathan Gluckman, President and CEO of Sixth Wave, said, “As we know, a major challenge for the cannabinoid purification industry will be the delivery of customization and flexibility, with medicinal and recreational applications demanding exceptional product diversity. The Affinity™ System is highly capable in this regard, with the potential to tailor extraction media to recover any one of the hundreds of cannabinoids available to us.”

Market Size

According to a recent study, the cannabis extraction market is expected to be worth US\$28.5 billion by 2027, growing at 16.6% annually.

The growing legalization of cannabis in various countries and the use of CBD and THC for treating illnesses such as arthritis, anxiety, and nausea are the main factors driving growth.

Sixth Wave is currently working with several customers designing larger processing capabilities. In April, the Company announced an agreement with Green Envy for the purchase of a minimum of three Affinity™ extraction units. It expects to deliver the first revenue-generating system to Green Envy by the end of this year. Expect more deals to be announced as the Company shifts from development to production.

The Company is well funded as it recently closed a \$1.15 million financing and intends to use the proceeds for the deployment of its Affinity™ cannabis extraction units as well

as for other general corporate purposes.

Time to jump on Sixth Wave to ride the resurging cannabis trend.

CANNABIS SECTOR | AFFINITY™

For Cannabis Producers, the Affinity™ unit is designed to capture and extract Cannabinoids to ensure the purest end product. The system replaces antiquated processes including winterization, distillation and chromatography. The highly scalable Baseline unit is designed to produce approximately 20 kg of cannabinoid distillate or full spectrum distillate per day.

Each unit is capable of generating gross revenues to Sixth Wave of up to \$100K/month.

A large, industrial-grade stainless steel extraction unit on wheels. The top is covered with numerous small, dark-colored extraction vessels. A control panel with a digital display and buttons is located on the front. The word "AFFINITY™" is printed in a bold, sans-serif font on the front panel.

SOURCE

Sixth Wave Innovations leads virus detection through breath testing

Using nanotechnology to quickly identify pathogens

Imagine if taking a coronavirus test was as simple as an alcohol breathalyzer, or a pregnancy test, and the results just as fast. One company has developed a test that uses **molecular imprinted polymers** with the possibility of detecting almost any pathogen, and is now using their technology to develop a way to detect for COVID-19 as easily as using a saliva test or a swab test.

Sixth Wave Innovations (CSE: SIXW | OTCQB: ATURF | FSE: AHUH) is a development stage nanotechnology company with patented technologies that focus on the extraction and detection of target substances at the molecular level using highly specialized 'molecular imprinted polymers' (MIPs). The target substances can be anything, such as pathogens (viruses & bacteria), gold, or anything made of molecules (that's every substance).

Sixth Wave has technology to make a 'polymer imprint' for molecules including viruses. Sixth Wave is working to develop a molecular imprint for the coronavirus so they can capture the virus in their polymer and then apply various techniques to detect the virus such as colormetrics or electronics.

The company is working toward incorporating the technology into a mask **so you could wear a mask that both protects and detects for COVID-19**. Another concept is to have the MIP inside a coated barcode strip which you would then scan with your smartphone to see if you have been infected or not. (See: Sixth Wave working on a virus breath test.)

President, CEO and Founder Dr. Jonathan Gluckman explained that a "virus has a size and shape and we create an imprint in our polymer for that exact virus. Then we will detect that directly based on our chemistry." He continued that Sixth Wave is "working to integrate this into masks and breathalyzers and then we can just utilize the breath, as we all know that's the main transmission method. If you think about putting a mask on, not only will that mask provide protection, it can also, right there, be the test for COVID-19."

Highlighting the advantages of Sixth Wave's COVID-19 test over other tests, Dr. Gluckman also said that **the test will be cheaper, faster, less invasive, and easy to use**.

Dr. Gluckman says that Sixth Wave's COVID-19 detection technology is currently under development, but the Company has

successfully launched and commercialized other products with similar properties. The coronavirus tests are planned to be ready for an early 2021 rollout. The company has received a grant from the Canadian government to work with York University and the CTRI to use its virus detection technology to detect COVID-19 virus in wastewater supplies and in air handling systems.

Sixth Wave Innovations can detect and extract anything at the molecular level – Target markets include COVID-19 testing, gold extraction, and cannabis purification



Source

Sixth Wave Innovations technology can be used for other applications

Gold extraction

IXOS® is a line of extraction polymers for the gold mining industry 100% developed and owned by Sixth Wave and patented/patent pending in 40+ countries worldwide. CEO Gluckman says the technology can save gold mining companies about US\$100/oz on their processing costs based on pilot scale test results for multiple mines.

Sixth Wave Innovations IXOS® can save gold miners up to

US\$100/oz in gold processing costs



Dr. JONATHAN GLUCKMAN
President/CEO

IXOS® PRODUCT DETAILS

MIPs for the Extraction of Gold

Note: Gold in Chloride changes the color of the beads

SIXTH WAVE

Operational & Performance Capability - Summary

- High Gold capacity (about 25g/kg, 10x more than carbon)
- High selectivity (>97%, vs. about 40% for carbon)
- Easy to unload the gold (carbon needs heat, pressure, and chemicals)
- No regeneration - it's ready to go again after unloading (carbon needs more heat and more chemicals)
- Better for the environment
- Fewer waste products
- Lower carbon footprints
- Less water used in the Adsorption/Desorption Recovery
- \$100 USD/Oz Savings (Based on Pilot Scale Test Results for multiple mines)

Source: Corporate presentation

Cannabis Purification

Sixth Wave is in the process of commercializing its Affinity™ cannabinoid purification system. The Affinity™ Technology for the medical and recreational cannabis industry is 100% developed and owned by Sixth Wave with a patent pending. Affinity™ products are now rolling out and starting to generate revenue for Sixth Wave, including an initial 300 Affinity units.

Other applications

Sixth Wave's Molecular Imprinted Polymers (MIPs) have also been applied in industries including security (SAFE-T explosives detective wipes), mining (gold & silver extraction, also removal of mercury), and other pathogen detection. The potential list of applications is enormous.

Sixth Wave Innovations planned revenue streams



Revenue Streams

SHORT TERM VS LONG TERM DEVELOPMENT

SHORT TERM

- Sixth Wave has completed pilot testing the Affinity™ System for Cannabinoid Purification. We expect to begin system installation in July 2020. Our goal is to have 30 commercial revenue producing units in place by December 2021. (Each standard unit has the ability to generate > \$1MM annually).
- Sixth Wave expects to commercialize its AMIPs™ Technology for biogenic amines, as well as virus detection by 2021.

MID TERM

- AMIPS: Virus detection pathway to market in 6-8 months with appropriate funding.

LONG TERM

- Prospective Pipeline of inquiries for ~ 300 Affinity™ units.
- Sixth Wave expects to begin final testing and configuration of the IXOS® Gold Extraction Plant for a major Gold producer in 2021.

Source: Corporate presentation

Closing remarks

History has repeatedly shown how mankind makes incredible innovative technology during incredible times. Here we are facing one of this century's greatest pandemics and scientists globally are racing to develop better diagnostic tests, treatments and vaccines.

In the case of Sixth Wave Innovations it is fast-tracking the development of an innovative technology to detect and extract polymer molecules. They are now focused on adapting their technology to make a polymer imprint of the coronavirus that can, if successful, make COVID-19 detection as simple and fast as a breath test, whether on a test strip or even on a dual-purpose face mask. Imagine wearing a face mask that can also detect COVID-19. Sixth Wave's COVID-19 detection technology targeted for early 2021, and if successful it will be a massive win-win for the public and also for Sixth Wave Innovations.

Meanwhile, Sixth Wave will be advancing their near term revenues from Affinity™, and later hopefully from IXOS®. The current market cap of Sixth Wave Innovations is only C\$21m thereby presenting a tremendous early stage speculative opportunity for investors.

Rapid and accurate testing the key to a return to normalcy

And here are three companies working on it.

Imagine a global pandemic caused by a new virus. Apparently it has been around for 6, 8 or 10 months and may or may not have come from China (depending on which expert is talking on any given day).

The symptoms are multiple (and variable and inconsistent between infected people, or so it seems) and the test for it is a long nasal swab inserted into your body that is uncomfortable at best but usually quite painful.

Then imagine that the test results (none of which may be accurate) take 2-6 days and may come back as:

- Positive
- Negative
- False Positive
- False Negative

Oh, and apparently, there is also a blood test for antibodies which would tell you if you had the virus... but actually there are many (unreliable) blood tests that may produce the same range of four results as above.

Exhausted yet? We all are, as the current pandemic has set the world on its ear, crippled the global economy and created an undeniable environment of fear.

However, there are glimmers of hope for accurate testing which would allow the world to get back to an almost pre-virus life. Instead of waiting days for suspect results, companies are focusing on technology using quick, accurate, inexpensive and technologically proven procedures that do not require highly trained staff or expensive equipment.

Three Canadian public companies are at the forefront of developing these new, non-invasive, technology driven coronavirus tests that will be accurate, eliminate (mostly) the need for that sketchy nasal swab, and provide nearly instant, accurate results.

Sixth Wave Innovations Inc. (CSE: SIXW | OTCQB: ATURF)

The newest entrant in the public markets, Sixth Wave began trading in February 2020 after a previous merger with another public company and subsequent financings, etc. Current market capitalization is approximately C\$26 million.



Sixth Wave is a development stage nanotechnology company with patented technologies that focus on extraction and detection of target substances at the molecular level using highly specialized Accelerated Molecularly Imprinted Polymers (AMIPs). Since every substance has a unique size, shape and chemical properties, these attributes can be utilized at the individual molecule level to create highly efficient adsorption/detection media to solve problems that cannot be

solved with conventional means.

What does this mean? In simple terms, they can detect anything at the molecular level and this technology has already been successfully deployed in both the cannabis and gold mining industries. In practical terms, by using AMIPs, Six Wave's technology could be used to detect COVID-19 in airborne, water and wastewater environments. Further, successful development of their technology could also be rolled out to provide accurate, almost immediate testing for the coronavirus in individuals.

Sixth Wave (along with its partners) recently received approval from the Natural Sciences and Engineering Research Council of Canada to advance virus detection technology testing using AMIP. Successful testing could optimistically be completed before year-end with an available product possible for market in early 2021. A publicly available product could be as simple as a face mask that changes colour if positive for COVID-19.

Sona Nanotech Inc. (CSE: SONA | OTCQB: SNANF)

Sona Nanotech is a well-established public company whose technology development of gold nanorods started back in 2013. The company went public in 2018 and has a current market capitalization of approximately C\$677 million, although this has jumped dramatically since February 2020 as a result of the coronavirus pandemic.



Gold nanorods have multiple uses, but the potential for providing near-instant results has very much excited the market. Using lateral flow assay technology testing (comparable to a home pregnancy test), a positive or negative test for coronavirus can be determined without the need for specialist lab equipment or operators. In April 2020, Sona

tested a working prototype of the test in a hospital laboratory environment with live, COVID-19 patient samples, achieving positive results. Further testing is underway and of course government approvals will be required

The company's analytical test still requires the dreaded nasal swab for the evaluation source material, but results should be more accurate and available in minutes.

XPhyto Therapeutics Corp. (CSE: XPHY | OTC: XPHYF | FSE: 4XT)

Originally created for the cannabis industry, Xphyto Therapeutics has subsidiaries in Alberta and in Germany. Established in late 2017, the company went public in mid-2019 and has a current market capitalization of approximately C\$190 million. The company had a strong share price prior to the coronavirus pandemic due to its other products, but application of related technology has caught the market's attention.



Since starting in the cannabis space, the company has branched out in Germany with strategic acquisitions/development agreements in diagnostics and therapeutic films. In part due to the arrival of the coronavirus pandemic, the company first initiated an infectious diseases program in February 2020 which was directly transferable to developing a low-cost, "real time" oral pathogen screening platform for COVID-19 in March 2020. By July, the company had confirmed successful function of its proprietary COVID-19 RNA probes and its universal coronavirus RNA probes in prototype lateral flow assay testing. Visual confirmation of test results was observed in five to seven minutes.

Short of an actual vaccine, rapid and accurate testing continues to be the Holy Grail in the world-wide response to COVID-19 and the key to a return to economic and social

normalcy. These are among the companies to watch with innovative testing technologies.

Dr Gluckman on the rapid-detection benefits of Sixth Wave's virus test kits

“You can think about our polymer almost like an antibody inside a body,” says Dr. Jonathan Gluckman, President, CEO and Founder of Sixth Wave Innovations Inc. (CSE: SIXW | OTCQB: ATURF), in an interview with InvestorIntel’s Tracy Weslosky. “A virus has a size and shape and we create an imprint in our polymer for that exact virus. Then we will detect that directly based on our chemistry,” he continued. “We are working to integrate this into masks and breathalyzers and then we can just utilize the breath, as we all know that’s the main transmission method. If you think about putting a mask on, not only will that mask provide protection, it can also, right there, be the test for COVID-19.”

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Highlighting the advantages of Sixth Wave’s COVID-19 test over other tests, Dr. Gluckman also said that the test will be cheaper, faster and easy to use.

To access the complete interview, [click here](#).

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