

Sixth Wave hits the market with MIP coatings and sensors for the biodetection of viruses and bacteria

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[Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: SIXWF) (“Sixth Wave”) is a nanotechnology company focused on the ‘detection and extraction’ of target substances at the molecular level using specialized molecularly imprinted polymers (MIPs).

Sixth Wave’s nanotechnology uses MIPs to detect and extract almost any target molecule



Source: [Sixth Wave Innovation website – About MIPs](#)

There is a huge list of potential industries that can benefit from Sixth Wave’s MIP technology; however key areas of interest for now for Sixth Wave are health (rapid COVID-19 detection), cannabis production (cannabinoid purification), security, gold and lithium extraction.

AMIP COVID-19 test with improved sensitivity

[Announced](#) on August 19, 2021, Sixth Wave has improved the sensitivity and capability of its leading-edge nanotechnology AMIP to detect the presence of the COVID-19 virus at levels below 1,000,000 virus particles/mL. Dr. Garrett Kraft, Vice President of Innovation at Sixth Wave, [stated](#): “Hitting this level of detection is a huge achievement for us. With this technical milestone, we are fulfilling the sensitivity

requirements for many of our intended end-use applications for high throughput screening.”

Note: Accelerated Molecular Imprinted Polymers (AMIPs) are rapid acting MIPs.

The clinical significance of a more sensitive test is the potential to detect COVID-19 earlier and in patients that are asymptomatic, when lower levels of the virus may be present. According to Grandview Research, the global COVID-19 diagnostics market size was estimated at [USD 84.4 billion](#).

Sixth Wave is quickly moving through a program of development and scale-up milestones toward a wide range of AMIPs virus rapid detection devices.

MIP coatings and sensors for biodetection of viruses and bacteria

Sixth Wave recently [announced](#) that they have filed for a patent for their MIP coatings and sensors for biodetection. The patent focuses on the synthesis and processing of MIPs containing detection elements for viruses and bacteria. Sixth Wave [state](#): “The patent will be solely in the name of Sixth Wave, who will have exclusive ownership of the IP, subject to a reasonably agreed-upon license fee. The work with York University is an expansion of Sixth Wave’s efforts with the AMIP product line and focuses on detecting both viral and bacterial-based pathogens in fluid samples.”

This could potentially be a huge business one day for Sixth Wave given the global need for rapid detection of viruses and bacteria.

More about Sixth Wave

Sixth Wave has collaborated for research and testing with some

of the largest entities in the chemical, resources, education, security, defense and medical sectors. Sixth Wave's systems are all patented or patent pending in 40+ countries worldwide.

Sixth Wave's key product names are IXOS® (a line of extraction polymers for the gold mining industry), Affinity™ (for the cannabis industry), and AMIPs (for sensitive and rapid COVID-19 testing). Sixth Wave recently [announced](#) an Affinity system has been shipped from the contract manufacturer and is on the way to Sixth Wave and then onto the first customer, Green Envy Extracts.

Other prospective products in development include a wide range of AMIPs Virus/Bacteria rapid detection devices, Personal Protective Equipment applications such as SIXW's Smart Mask™ (see news dated [May 15, 2020](#)), and smart clothing, airborne sensors, breathalyzers, ELISA-based technologies, cartridge/lateral flow designs, and others.

Closing remarks

Sixth Wave is at an exciting stage as the Company rolls out the commercialization of its Affinity™ cannabinoid purification system, IXOS® gold mining extraction technology, and soon plans the rollout of their AMIPs virus rapid detection devices and other products.

The idea of one day being able to potentially use a Sixth Wave MIP sensor to rapidly detect viruses and bacteria pathogens is quite amazing, and if it happens, would be a significant advancement for medical diagnosis.

Trading on a market cap of just C\$30 million, stay tuned for more developments from this fast-moving company.

Sixth Wave Innovations Dr Jon Gluckman on the colorimetric detection of SARS-CoV-2

written by InvestorNews | October 13, 2021

In a recent InvestorIntel interview, Tracy Weslosky spoke with Dr. Jon Gluckman, President, CEO and Founder of [Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: ATURF) about the successful demonstration of [colorimetric detection of SARS-CoV-2](#), the virus that causes COVID-19 utilizing Sixth Wave's Accelerated Molecular Imprinted Polymers ("**AMIPs**[™]") technology.

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 colorimetric detection is a method of identifying the presence of a target substance within a test sample by means of a color reagent. He added that the Company is evaluating the detection capabilities of the technology for all the active strains of SARS-CoV-2. Dr. Gluckman also provided an update on Sixth Wave's letter of intent with Halucenex Life Sciences Inc. to explore [a collaboration](#) for the separation of compounds such as psilocybin, baeocystin, and others using molecularly imprinted polymers.

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

About Sixth Wave Innovations Inc.

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 a commercial rollout 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 the 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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If you have any questions surrounding the content of this interview, please email info@investorintel.com.

Will Sixth Wave help prevent a fourth wave?

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[Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: ATURF) is a nanotechnology company focused on extraction and detection of target substances at the molecular level. Their products can be very cost effective and potentially eliminate human error from the testing or measurement process. These advantages are derived from the application of patented technologies in the highly specialized field of [molecularly imprinted polymers](#) (MIPs).

Sounds pretty technical so what does that mean to you and me? As we battle a third wave of COVID-19 we are crossing our fingers and hoping vaccines will save the day. Especially given, that for all the talk about rapid testing, we have yet to see an effective, accurate test used in a broad setting to help identify or track the spread of the SARS-CoV-2 virus. And who knows if all the variants that are popping up will continue to be effectively subdued by existing vaccines.

Enter Sixth Wave and their patent pending Accelerated Molecular Imprinted Polymers (AMIPs™) technology. Last week the company [announced](#) it has successfully demonstrated colorimetric detection of SARS-CoV-2. Colorimetric detection is a method of identifying the presence of a target substance within a test sample by means of color. For example, Green = COVID-19, Blue = Influenza, Red = Rhinovirus. And yes, the test could potentially identify multiple viruses in a single pass with different colors for each. Even better, the AMIPs™ test does not require the use of biological materials which have the potential to result in errors (false positive or false negative). As well, the methodology utilized by AMIPs™ should be more robust in its ability to detect variants because the mechanism used to capture and immobilize the virus is not keyed to a specific Antigen-Antibody relationship. Lastly, this robust, reliable product should result in a lower cost, either to an individual requiring a test or a government trying to get a handle on this annoyingly resilient virus.

Imagine kids going back to school and they all have a mask utilizing Sixth Wave technology. All you need to do is check each student's mask and if it's green the child gets sent home otherwise they are good to go until the next day. Now what if everyone had a mask, or some other device with AMIPs™ technology, then everyone could get back to going to sporting events, concerts or weddings. Even air travel and cruise ships

would be able to operate relatively seamlessly based on the individual not being green, so to speak. This could be the solution that gets us back to a semblance of normal.

Unfortunately, as good as this all sounds, Sixth Wave isn't the answer to all our problems just yet. Next steps include building on this initial validation toward the development of a colorimetric sensor for a potentially wide range of rapid Virus detection devices using AMIPs™. As well, the Company is proposing to create a comprehensive library of molecular imprints for other viral pathogens and variants. This AMIP library will be capable of being licensed for all manner of rapid detection test (RDT) devices and wearables, such as a smart mask, smart clothing and PPE applications, airborne sensors, Breathalyzers, and others. The groundwork has been laid but it remains to be seen if the company can capitalize on its efforts.

Nevertheless, the company has its Affinity™ System which uses MIPs to deliver an innovative purification solution to the cannabis market. First revenue from cannabinoid extraction is expected in Q1/21. As well there is the IXOS product, a line of extraction polymers formulated for deployment in the gold mining industry for the extraction of gold from cyanide leach solutions. Sixth Wave is undertaking pilot plant testing of IXOS technology at a major gold producer (Kinross Gold Corporation). The company recently [raised \\$6M via a private placement](#) which should give them enough cash to continue developing and innovating its product base for another 6 months, give or take. It will be interesting to see if the company can start generating revenue to reduce the cash burn and advance all these exciting prospects.

Sixth Wave's Dr Jon Gluckman on the First Polymer for Detection of SARS-CoV-2

written by InvestorNews | October 13, 2021

In a recent InvestorIntel interview, Peter Clausi speaks with Dr. Jon Gluckman, President, CEO and Founder of [Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: ATURF) about their recent news: [First Polymer for Detection of SARS-CoV-2](#)

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 Sixth Wave is working in collaboration with the University of Alberta to develop COVID-specific Imprinted Polymers that can detect viruses even after they have mutated. Sixth Wave is currently developing this technology specifically for the COVID-19 virus but can potentially be used to detect any virus. He highlighted that the technology is low-cost, easy to use, and scalable.

Speaking on the potential implementations of their technology Dr. Gluckman said that the technology can be used in handheld devices, wearables, and airborne detection tools. Sixth Wave is currently designing, Smart Mask™ that will use the Imprinted Polymers to detect the COVID-19 virus in the user's breath.

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

About Sixth Wave

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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 a commercial rollout 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.

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MiCOVID Cam thermal temperature screening helps schools and businesses reopen safely

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Direct Communication Solutions leads the way in smart, unmanned screening tech

COVID-19 continues to spread globally, now at a staggering [22,306,538 confirmed cases and 784,353 deaths](#). Companies developing technologies to quickly and accurately screen for possible COVID-19 cases in the community are seeing their stock prices surge. There is one small company that has developed a new AI thermal detector with cutting edge facial recognition which is currently under the radar of investors.

That company is Direct Communication Solutions Inc. (CSE: DCSI | OTCQB: DCSX) ("DCS"), an Internet of Things (IoTs) solutions company. IoTs solutions provide better ways for businesses to collect and assess business-critical data from all types of assets and devices using their hardware, software applications and scalable cloud services.

In late July 2020, DCS [announced](#) their latest product, a new AI thermal detector with **cutting edge facial recognition and body temperature detection**, known as MiCOVID Cam. DCS say that by "utilizing the latest AI chipset technology, MiCOVID Cam offers immediate body temperature detection, the longest sensor range, and the highest level of accuracy available in the market today." The MiCOVID Cam is fully integrated into the DCS Web Services offering. DCS has also developed a [7 in 1 sensor](#) which is significantly cheaper and offers seven sensors packaged together compared to competitors just one sensor.

Direct Communication Solutions new MiCOVID cam is designed to automatically screen for COVID-19 in businesses and schools



[Source](#)

A unique feature to DCS's MiCOVID Cam is it offers employers a web-based solution **without the need for operators** by using its advanced AI. This makes it a cost-effective solution for screening the temperatures of visitors, employees or students. MiCOVID Cam can even automatically detect if employees or customers are wearing a mask or not. Employers can save the costs of manual screening by automating the whole process. In some cases the US CARES Act has paid for screening devices, recognizing the urgent need for better screening.

Fast mass screening has been a challenge. The MiCOVID Cam solution is capable of automatically screening up to [2,400 persons per hour](#), making it ideal for large businesses, organizations and schools.

The MiCOVID Cam in use at a Poland School District automatically screening students, staff, and teachers



Source: You can watch the video [here](#).

David Scowby, COO of DCS [explains](#) that the “MiCovid Cam is another milestone achievement for DCS and fits into our strategy of providing our IoT technologies and Web Services to our partners developing next generation software applications... It is a unique time where our economy is needing the support to reopen, and **offering MiCovid Cam is a way for businesses to reopen with advanced safety solutions.**”

These are certainly unique times. COVID-19 continues to spread through the community and screening measures such as the DCS MiCOVID Cam is a much needed smart product to help identify and minimize the spread of COVID-19, or other infectious diseases with a thermal imprint. The automatic screening without the need of staff is a significant and natural advantage for DCS, as they

offer a suite of web-connected IoTs solutions for their customers.

DCS's technologies is already established in California and has a growing number of partners including Sprint, Cellcom, Bluegrass Cellular, Bell, CCA, Inland Cellular, US Cellular, SkyEye GPS, Verizon, and Telus. Strategic partners include Queclink, Cal/Amp. Telit, ATrack, and GoldenM.

Closing remarks

I think DCS's MiCOVID Cam is a significant and timely addition to the company's sensor technologies and can be an important tool in the fight to slow the spread of COVID-19, so a win-win for all. Added to MiCOVID Cam, DCS has three other key IoTs products – MiFleet (GPS tracking), MiSensors (remote monitoring system), and Brewsee (a beer life cycle monitor & control system). All of this is part of what is a rapidly growing IoTs global market forecast to reach [US\\$1.1 trillion](#) by 2023 and with a forecast [21.5 billion](#) connected devices worldwide by 2025.

Direct Communication Solutions Inc. is currently trading on a market cap of just C\$14.7m despite last year having [C\\$16m](#) in revenue, essentially at a valuation of below 1x revenue, which is generally considered very cheap. This is before factoring in any potential future revenues from their new MiCOVID Cam solution. Investors may not want to wait too long on this one as cutting-edge technologies tend to move quickly once discovered by industry and investors.

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

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"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."

Dr. Gluckman explained 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 company has received a grant from the Canadian government to work with York University and the CTRI (Centre Technologique des Résidus Industriels) to use its virus detection technology to detect COVID-19 virus in wastewater supplies and in air handling systems.

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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