

XPhyto Therapeutics is looking to hit a home run with their innovative medical products and therapies

New therapies and diagnostics in the pharmaceutical and medical industries can be a very lucrative area. To be successful a company has to outmaneuver the large established drug companies, or focus on niche areas. Today's company is working on doing just that with their focus on disruptive and innovative solutions in the medical and pharmaceutical space. Two areas they are progressing rapidly are rapid COVID-19 PCR testing and psychedelics therapies for neurodegenerative and other diseases.

XPhyto Therapeutics Corp. (CSE: XPHY | OTCQB: XPHYF | FSE: 4XT) ('XPhyto') is a bioscience accelerator focused on next-generation drug delivery, diagnostic, and new active pharmaceutical ingredient investment opportunities. XPhyto is on the cusp of two major commercial milestones related to their rapid point-of-care COVID-19 PCR test system, with expected ISO certification and CE-IVD approval pending.

XPhyto's Covid-ID Lab 25 minute COVID-19 PCR Test

On February 24, 2021 XPhyto announced their first order for their 25-minute COVID-19 RT-PCR tests, from their exclusive diagnostic development partner, 3a-diagnostics GmbH ('3a'). The order was for 9,600 individual tests with delivery of the first order expected by mid-March 2021. These tests will be primarily used to supply prospective distribution partners and licensees and their respective government regulators with test samples for review and evaluation. XPhyto's PCR test advantage over others is its rapid speed (25 minute results) and

portability, as well as ease of use. They are ideal to be used for pop-up testing sites in any location. They can be done as either a nasal swab test or an oral swab test making it easy to administer.

XPhyto CEO Hugh Rogers stated:

“We are confident that Covid-ID Lab, as a 25-minute PCR test with minimal technical and personnel requirements, will be a stand-out product in the COVID-19 test market.”

If this proves to be correct we could potentially expect large product orders to start rolling in during 2021. Subject to the various regulatory approvals being successful, XPhyto expects to hold a European sales launch in April 2021. XPhyto is also currently in discussions with potential distribution and wholesale partners in Europe and the Middle East.

Assuming success in the above steps, XPhyto should be looking at potential revenues beginning in 2021.

- XPhyto Therapeutics Hugh Rogers on the fastest and most portable PCR test available (video)

XPhyto's Point-of-Care rapid and portable diagnostic PCR test for COVID-19



Source

XPhyto's psychedelics therapies for neurodegenerative diseases

On February 3, 2021 XPhyto announced a Psychedelic Pharmaceutical Production Agreement with Applied Pharmaceutical Innovation ('Applied') for the synthesis of pharmaceutical grade psychedelic compounds and the parallel development of the standard operating procedures necessary to obtain regulatory approval for the respective commercial production process. Applied is a not-for-profit institution at the University of Alberta created to support translational drug development for industry and innovators. This adds to XPhyto's 2020 development agreement for the industrial production of psilocybin with a leading German university, as well as the addition of mescaline production. XPhyto plans to expand its psychedelic programs in 2021, including scalable production of pharmaceutical grade compounds, drug formulations, and clinical evaluation.

XPhyto state: “Psychedelic compounds are a highly promising new class of drugs with strong potential for the treatment of mental health related medical conditions such as depression, anxiety, addiction, and trauma-related stress disorder.” They are also said to be useful for pain management and palliative care. Psychedelics are legal in the Netherlands and recently Canada approved 17 healthcare professionals to possess and use the psychedelic active ingredient psilocybin to conduct professional training in psilocybin therapy. Data Bridge Market Research forecasts that the global psychedelics market will grow from USD 2.077B in 2019 to USD 6.859B by 2027.

Other areas for XPhyto

Also of interest is that XPhyto and 3a are developing a portfolio of oral biosensor screening tests for detection of bacterial and viral infectious diseases. Additional pandemic-focused biosensors are in development. XPhyto is planning the commercial launch of its first biosensor product in the second half of 2021. This looks to be a very exciting area with huge potential.

The other area XPhyto is active in is innovative drug delivery methods such as transdermal patches and oral dissolvable films designed for efficient and affordable delivery of approved neurological medications. Again another innovative area where there is a significant need.

Closing remarks

Innovation in the medical world can have an exponential impact on smaller companies if they have a big success. XPhyto has a reasonable chance to hit a home run – Perhaps from their leading portable 25 minute COVID-19 PCR test, from psychedelics therapies, from their oral biosensor products or from their innovative drug delivery products.

XPhyto Therapeutics Corp. certainly has a lot going on and trades on a market cap of C\$171M.

XPhyto Therapeutics Hugh Rogers on the fastest and most portable PCR test available

In a recent InvestorIntel interview, Peter Clausi spoke with Hugh Rogers, CEO and Director of XPhyto Therapeutics Corp. (CSE: XPHY | OTCQB: XPHYF) about XPhyto's rapid point-of-care COVID-19 PCR test system which is very close to commercialization.

In this InvestorIntel interview, which may also be viewed on YouTube (click here to subscribe to the InvestorIntel Channel), Hugh went on to speak on the different types of COVID-19 tests out of which, he said, "PCR test is the gold standard of diagnostics." He added that XPhyto's PCR test is less invasive as it is oral and requires minimal equipment and training. The test has been optimized for speed and portability. "What we have designed is we believe to be the fastest and most portable PCR test available..."

To watch the full interview, click here

About XPhyto Therapeutics Corp.

XPhyto Therapeutics Corp. is a bioscience accelerator focused on next-generation drug delivery, diagnostic, and new active pharmaceutical ingredient investment opportunities, including precision transdermal and oral dissolvable drug formulations; rapid, low-cost infectious disease and oral health screening tests; and standardization of emerging active pharmaceutical ingredients for neurological applications, including

psychedelic compounds and cannabinoids. The Company has research and development operations in North America and Europe, with an operational focus in Germany, and is currently focused on regulatory approval and commercialization of medical products for European markets.

To learn more about XPhyto Therapeutics Corp., [click here](#)

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Xphyto's disposable saliva test with sample-to-results in less than 15 minutes is turning heads

"May you live in interesting times" is widely reported as being a curse of ancient Chinese origin but it is neither Chinese nor ancient, being recent and western. The phrase was introduced in the 20th century in the form "interesting age", not "interesting times" and appears that way in the opening remarks made by Frederic R. Coudert at the Proceedings of the Academy of Political Science, 1939.

For companies such as XPhyto Therapeutics Corp. (CSE: XPHY | OTCQB: XPHYF), these are indeed interesting times. Founded in late 2017, the company became publicly listed on the CSE in August 2019. The company has a 100% owned Canadian subsidiary (Xphyto Laboratories Inc.) which is developing a testing, manufacturing and research business and is working closely with the University of Alberta's Faculty of Pharmacy &

Pharmaceutical Sciences. In Germany, the company has two wholly-owned subsidiaries for product development and drug delivery platforms and a commercial partnership for low-cost rapid screening tests.

Why are these interesting times? The main business focus remains “incubating the next generation drug delivery, diagnostic, and phytotherapeutic investment opportunities: precision transdermal and oral dissolvable drug dosage forms; rapid, low-cost, point-of-care infectious disease screening tools; and standardized and clinically validated plant-based active pharmaceutical ingredients focused on European markets.” Specifically, the company has a strong focus in European cannabis-related products.

The company had a strong share price prior to the start of the coronavirus pandemic due to this line of products, but application of related technology has focussed the market’s attention. 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.

The **urgent** need for **accurate** coronavirus testing has seen Xphyto’s team continue to press forward with the objective of a commercial launch of two certified products in the European Union in Q1-2021. The company is developing two saliva-based tests to detect SARS-CoV-2 RNA. The reverse transcription polymerase chain reaction (“RT-PCR”) kit saliva test system is to be employed in a laboratory setting using minimal equipment with sample-to-results in less than 25 minutes. Their second product, a rapid test system, is a low cost, self-administered, disposable saliva test with sample-to-results in less than 15 minutes.

Accurate testing is so necessary. The benefit of the saliva-based system is to overcome the common occurrence of false positive or false negative testing results that regularly occur with the dreaded nasal swab and throat swab sampling systems. The sooner the better!

On a serious note, in addition to the lateral-flow and PCR COVID-19 testing, the company also has a peptide-based oral biosensor system for the rapid detection of bacterial and viral pathogens: influenza A, H1N1 (swine flu), H5N1 (avian flu), scarlet fever, stomatitis, periimplantitis and periodontitis. While the near-term focus on coronavirus detection is imperative, these both of these “product lines” should have future revenue potential once the pandemic has passed, because the coronavirus is not going away – additionally, there are a lot of other nasty things to test for out there.

It is important to highlight that while the coronavirus detection is creating the near-term interest in the company's share price, they continue to forge ahead on their stated business focus. The expertise associated with German-based product development and thin-film delivery technology can be further utilized as the company is now advancing work into the psychedelic drug arena.

A research agreement with a leading German university has been reached for the exclusive development of a proprietary biotechnology process for the industrial manufacture of psilocybin as a certified active pharmaceutical ingredient (API). The company has also expanded its exclusive development agreement with the University of Alberta (Dr. Raimar Löbenberg) to incorporate a number of psychedelic compounds, pre-cursor molecules and metabolites, including but not limited to psilocybin, mescaline, LSD, MDMA and DMT (N,N-dimethyltryptamine, in case you're wondering).

“We see a lot of potential therapeutic value in psychedelic

compounds for their ability to positively influence neural networks through growth and reorganization,” said Dr. Löbenberg. “Our initial focus is to develop standardized drug formulations with precise, predictable and efficient API delivery for clinical study and therapeutic use.”

Yep, I’m not the first to say it, but the party drugs of our youth are going mainstream as therapeutics...who knew!

With near-term catalysts from rapid coronavirus testing kits looming, the share price likely has a definite upside bias. But longer term, the company is building a growth business in the testing and plant-based active pharmaceutical industry.

Or as we all know, come for the buzz, stay for the party!

XPhyto Therapeutics moving forward from successful prototype testing of saliva virus test

Non-invasive test can detect viral RNA in asymptomatic patients

XPhyto Therapeutics Corp. (CSE: XPHY | OTCQB: XPHYF | FSE: 4XT) (“XPhyto”) is a next generation bioscience company with a rapid pathogen screening systems division, including a new, non-invasive coronavirus saliva test. This is an important addition to rest of their businesses which includes advanced drug delivery systems (Vektor Pharma) and cannabis investments

(Vektor Pharma & Bunker).

XPhyto's core business is drug delivery, diagnostic, and cannabis investment opportunities focused on European markets, especially Germany.



Source: Company presentation

XPhyto's rapid pathogen screening systems

XPhyto is focused on developing rapid, low-cost, screening tools for pandemic threats. The company, along with their diagnostic partner 3a-Diagnostics GmbH ("3a"), has recently become better known for their COVID-19 RNA testing. The XPhyto team is developing a rapid, disposable, point-of-screening test to detect COVID-19 viral RNA from patient saliva as well as more traditional nasal and throat swabs. On July 6, 2020, XPhyto announced successful validation of its working test prototype. The test, as observed and reported by clinicians and scientists in peer reviewed publications, demonstrated a detection limit capable of identifying viral RNA in the saliva of symptomatic, pre-symptomatic, and asymptomatic patients. Subject to fast track certification by the German government, XPhyto and 3a are targeting Q1 2021 for European regulatory approval and commercial sales.

Being able to detect coronavirus early in patients with no symptoms has been identified as a key factor in halting the spread. A saliva-based test is another huge advantage due to the ease of testing compared to the current nasal swab testing, which can range from uncomfortable to painful.

The technology behind the new test will also be suitable for other types of coronaviruses in the long term. XPhyto and 3a are also in the process of developing rapid screening tests for other pandemic threats, including H1N1 (swine flu) and H5N1 (avian flu), with a specific focus on identifying early pre-symptomatic stages of infection.

XPhyto's advanced drug delivery systems

XPhyto owns Vektor Pharma, a German narcotics manufacturer, importer and researcher. Vektor Pharma is a decade-long leader in design, testing and manufacture of thin film drug delivery systems including transdermal patches, oral dissolvable film (ODF), sub-lingual (oral) strips for the clinical management of pain, and an ODF biosensor delivery platform. Vektor Pharma currently holds numerous narcotics import and manufacturing licenses, including cannabis imports and authorizations related to conventional and cannabis-related prescription medications.

XPhyto's cannabis investments

XPhyto also 100% owns Bunker. Bunker has a unique German cannabis cultivation and extraction license for scientific purposes. Subject to BfArM (the Federal Institute for Drugs and Medical Devices) security requirements, the license authorizes cultivation and extract of 70 different strains of Cannabis Sativa and Cannabis Indica for scientific purposes.

XPhyto also has an exclusive LOI and standstill agreement for cooperation in the field of development, production, and distribution of new cannabis-infused beverages and products with the famous German brewery Oettinger. Oettinger beer is

not only one of the best selling beers in Germany, it is also internationally recognized as one of the largest brewery groups in the world.

XPhyto Therapeutics Corp. is well-placed in key emerging industries



BUILDING A NEXT GENERATION BIOSCIENCE COMPANY: *Intelligent Capital & Human Resources*

XPhyto is set to leverage its strategic alliances and acquisitions, building the right team at the right time.

- WORLD-CLASS DRUG DELIVERY EXPERTISE**
A future investment in a high margin, market-leading technology that is safe for patients;
- EXTENSIVE GLOBAL SUPPLY NETWORKS**
Premium quality products with no capital investment in cultivation infrastructure;
- DISRUPTIVE DIAGNOSTIC PIPELINE**
Rapid, low-cost screening tools for pandemic threats;
- EFFICIENT M&A TRANSACTIONS**
Prudent management committed to building shareholder value;
- UNIQUE GERMAN R&D LICENCES**
First-mover advantage and industry leadership;
- R&D COLLABORATIONS**
Access to world-class facilities with limited capital investment;

Source: Company presentation

Closing remarks

XPhyto is an innovator in the increasingly important fields of virus detection and drug delivery systems, including the vital area of mass rapid pathogen screening testing. Added to that, it has some exciting cannabis related investments, particularly with Bunker in Germany. XPhyto also has R&D collaborations with the technical University of Munich and the University of Alberta.

For investors, XPhyto Therapeutics Corp. trades on a market cap of C\$165m and the stock is up an impressive 132% in the past year. While a non-invasive COVID-19 saliva test that can detect the virus in both symptomatic and asymptomatic patients would have immediate and obvious benefits, it could also have

long-term applicability to other pathogens going forward. Added to XPhyto's carefully curated suite of other diagnostic, drug delivery and cannabis licenses, it makes it a company to watch.

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.

Drolet Stock Note: XPhyto Therapeutics – Medical Cannabis Meets Modern Sciences

Mario Drolet President of MI3 Communications Financières Inc. (MI3) released his Stock Notes on XPhyto Therapeutics Corp. (CSE: XPHY) for exclusive distribution on InvestorIntel. In this note, MI3 highlighted the following points on XPhyto Therapeutics Corp.:

- XPhyto is a science-based cannabis company focused on formulation, clinical validation, and emerging European markets.
- XPhyto and 3a are working to develop and commercialize a real-time, low-cost and easy-to-use oral screening test to concurrently detect COVID-19 and non-COVID-19 coronaviruses.
- XPHY surge from \$2.30 to 3.17 in the last month
- XPHY traded over 5.5 Million shares between \$2.10 & \$3.50 over the last four months
- Support: S2; \$ 2.70 S1; \$2.92 Resistance: R1;
\$3.15 R2; \$3.50



About XPhyto Therapeutics Corp.

XPhyto is a biopharma, diagnostics and cannabis science company focused on formulation, clinical validation, and European imports, distribution and sales. XPhyto's 100% owned subsidiary, Vektor Pharma TF GmbH, a German narcotics manufacturer, importer and researcher has expertise in the design, testing and manufacture of thin film drug delivery systems, particularly transdermal patches and sub-lingual (oral) strips. Vektor also holds a number of narcotics licences issued by the German Federal Institute for Drugs and Medical Devices (BfArM), including import and manufacturing permits, as well as EU GMP lab certification. XPhyto's 100% owned German subsidiary, Bunker Pflanzenextrakte GmbH, has been granted a unique German cannabis cultivation and extraction licence for scientific purposes by BfArM. Bunker has two exclusive R&D collaboration agreements with the Technical University of Munich, Chair of beverage and brewing technology and the Faculty of Chemistry. XPhyto is pursuing additional opportunities in Europe including commercial

cannabis cultivation, processing, manufacturing, import, and distribution. In Canada, two exclusive 5-year engagements with the Faculty of Pharmacy at a major Canadian university provide certified extraction, isolation, and formulation facilities, drug research and development expertise, as well as commercial analytical testing capability. XPhyto signed a supply, import and distribution agreement for cannabis oils and isolates with one of the largest, highest quality, and lowest cost cannabis cultivators in the world.

PLEASE DO YOUR DUE DILIGENCE

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