Dr. Colleen Delaney from Coeptis Therapeutics on the development of next-generation cell therapy technologies for cancer and infectious diseases

written by InvestorNews | January 16, 2024

In a recent Investor.Coffee interview with host Jack Lifton, Dr. Colleen Delaney, Chief Scientific and Medical Officer at Coeptis Therapeutics Holdings, Inc. (NASDAQ: COEP), shares insights into the company's innovative approach to cancer treatment. Dr. Delaney begins with an overview on their commitment to developing universally accessible and cost-effective cellular treatments, including immunotherapy and CAR T-cell therapies for the treatment of cancer and infectious diseases.

Dr. Delaney, with her background as a pediatric stem cell transplant physician and pediatric oncologist, emphasizes the company's use of a platform developed at the Fred Hutch Cancer Center and goes on to explain this to Jack.

Regarding the progress towards FDA approval, Coeptis has two Investigational New Drug (IND) applications approved, indicating the advanced stage of their clinical trials. The company's unique approach includes pool donor manufacturing for scalability and cost-effectiveness. Their primary starting material is umbilical cord blood, considered a clean and prolific source, avoiding the complexities of individual donor testing. To access the rest of this interview, click here

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About Coeptis Therapeutics Holdings, Inc.

Coeptis Therapeutics Holdings, Inc., together with its subsidiaries including Coeptis Therapeutics, Inc. and Coeptis Pharmaceuticals, Inc., (collectively "Coeptis"), is a biopharmaceutical company developing innovative cell therapy platforms for cancer that have the potential to disrupt conventional treatment paradigms and improve patient outcomes. Coeptis' product portfolio and rights are highlighted by assets licensed from Deverra Therapeutics, including an allogeneic cellular immunotherapy platform and DVX201, a clinical-stage, unmodified natural killer cell therapy technology. Additionally, Coeptis is developing a universal, multi-antigen CAR T technology licensed from the University of Pittsburgh (SNAP-CAR), and the GEAR™ cell therapy and companion diagnostic platforms, which Coeptis is developing with VyGen-Bio and leading medical researchers at the Karolinska Institutet. Coeptis' business model is designed around maximizing the value of its current product portfolio and rights through in-license agreements, out-license agreements and co-development relationships, as well as entering into strategic partnerships to expand its product rights and offerings, specifically those targeting cancer.

To learn more about Coeptis Therapeutics Holdings, Inc., click here

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Coeptis CEO Dave Mehalick on NASDAQ listing and entering the Cancer Treatment Race

written by InvestorNews | January 16, 2024

Innovative cell therapy platforms have the potential to disrupt conventional cancer treatment

In an InvestorCoffee interview with host Tracy Weslosky, Dave Mehalick, Chairman, President, and CEO of Coeptis Therapeutics Holdings, Inc. (NASDAQ: COEP), discusses the company's innovative strides in cancer therapy since listing on NASDAQ just over a year ago. Coeptis, a company trading under NASDAQ with the symbol COEP, boasts three significant platform

technologies. The first is GEAR™ cell therapy, acquired from the Karolinska Institute, aimed at reducing toxicity in monoclonal antibody therapy. The second, SNAP-CAR, an immune-based cell therapy procured from the University of Pittsburgh, facilitates the creation of universal effector cells targeting various cancers. The third, a NOVEL STEM CELL generation technology which includes two phase one clinical trials and a cell generation platform focused on allogeneic cell therapies.

Mehalick highlights Coeptis' capital structure with roughly 35M common shares, no negative convertible debts, Coeptis went public following a SPAC transaction in October of the previous year at a valuation of USD$182M. He goes on to emphasize the company's strengths, such as having globally recognized scientists and promising technologies that diverge from the underwhelming results seen in other cell therapy approaches. Coeptis' technologies are progressing positively in studies, fostering optimism for future cancer therapies.

Mehalick envisions universalizing cell therapy by making it more accessible and affordable. He credits Coeptis' success to its exceptional management team, including Chief Scientific and Medical Officer Dr. Colleen Delaney, and its collaborations with renowned institutions like the Karolinska Institute. To hear the complete interview, click here

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Promising Advancements in Gene Therapy are Leading to Potential Investment Opportunities

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Today's discussion is about a topic that fascinates me even though I can say that I do not fully understand it, and that is gene therapy. I am not talking about the self-serving gene editing done in vitro in an attempt to ensure your child has blue eyes and a greater likelihood of being the smartest kid in class. Although I am sure it would make a great ethical debate as to where one draws the line on this subject. What I am talking about is the development of gene therapies in an attempt to limit or even cure diseases.

Advances in gene therapies

Advances in this field have been nothing short of miraculous over the last 20 years, since the completion of the Human Genome Project ("HGP") in 2003. As a refresher, the goal of this international project was to determine the base pairs that make up human DNA ("Deoxyribonucleic acid"), and to identify, map, and sequence all the genes of the human genome from both a

physical and a functional standpoint.

With that said, the project was not able to sequence all of the DNA found in human cells, simply specific regions of the nuclear genome, which make up 92% of the human genome. It was not until 2022 that the complete sequencing of all 24 human chromosomes was completed and even that is up for debate.

The Human Genome Project

Why was the completion of the HGP such a big deal? The sequencing of the human genome can hold many benefits including ways to identify the genetic variants that increase the risk for common diseases like cancer and diabetes. It can help researchers understand diseases including:

- Genotyping of specific viruses for direct treatment;
- Identification of mutations linked to different forms of cancer;
- The design of medication and more accurate prediction of their effects; and,
- Even the evolution of diseases.

Plus, you can now find out if you have some long-lost relatives anywhere in the world by simply putting some spit in the mail. But again, I digress.

FDA to accelerate the approval of gene therapies

The big news in this field came out last week from none other than the U.S. Food and Drug Administration ("FDA"). Agency official Peter Marks (head of the FDA's Center for Biologics Evaluation and Research) stated that the FDA needs to start

accelerating approvals for advancing gene therapies for rare diseases. Taking a page from the common sense manual, as opposed to the big book of bureaucracy, he suggested this would be particularly important for ultra-rare diseases, for which there are too few patients to run placebo-controlled studies. According to the report Marks said, "*When you're making a gene therapy for 10, 20 people a year, the concept that you're going to do a randomized clinical trial falls apart pretty quickly.*" Sounds pretty logical to me, but sadly there seems to be a shortfall in logic in a lot of policies these days.

Potentially good timing for investment opportunities

This sounds like the makings of a potentially good investment opportunity, over and above the possible benefits to society as a whole. But here's where I'm not sure I can be a lot of help. As I noted above, gene therapy fascinates me but I do not know enough about the science to pick a winner versus a wannabe. So instead I will simply present one company in this field that has a story that I find interesting (even though they have a terrible-looking chart). Think of this as an example of what could be with this technology and what it could potentially do for humankind.

The company is Taysha Gene Therapies, Inc. (NASDAQ: TSHA), a clinical-stage gene therapy company focused on developing and commercializing adeno-associated virus (AAV) based gene therapies for the treatment of monogenic diseases of the central nervous system ("CNS"). One of the treatments they are developing (TSHA-102) is a gene transfer therapy for Rett syndrome, a rare inherited genetic neurodevelopmental disorder. The Company is on track to dose the first patient and deliver first-in-human adult data for TSHA-102 in the first half of

2023. Without getting into the details of what Rett Syndrome is, or the administration and composition of TSHA-102 (which there is no hope in hell I could pull off), I think it is amazing that in a matter of months, we could be getting feedback on whether this treatment is showing signs of being successful or not.

Final thoughts

As I noted at the beginning, there are probably a lot of people out there debating how far we can ethically take gene therapy, and for good reason. However, if politicians and scientists can stay focused on the “greater good”, perhaps we could start to see people with these rare and ultra-rare diseases actually have some hope. And if gene therapy advances enough to start curing the likes of cancer and diabetes then I suggest we hold a parade and a giant party for anyone and everyone involved.

Taysha Gene Therapies – 1-Year Stock Chart

Source: S&P Capital IQ

David Regan of Sona Nanotech provides an update on its agreement with Siva Therapeutics to develop cancer treating therapies

written by InvestorNews | January 16, 2024

In this InvestorIntel interview, Sona Nanotech Inc.'s (CSE: SONA | OTCQB: SNANF) CEO David Regan provides Tracy Weslosky with an update on Sona's commercial agreement with Siva Therapeutics to develop therapies for treating cancer. As a strategic supplier of biocompatible gold nanorods to Siva, David discusses why Sona's minimally invasive gold nanorods are the ideal material for use with Siva's cancer tumor therapy system.

David says that the first targeted application will be for colorectal cancer which is the "second most mortal in the world." David also talks about attracting world-class talent to Sona Nanotech's board, including Neil Fraser, past-president of Medtronic Canada, and Walter Strapps, CEO and co-founder of Carver Biosciences Inc. They join Sona Nanotech director Mark Lievonen, former President of Sanofi Pasteur Limited.

To access the full InvestorIntel interview, click here

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About Sona Nanotech Inc.

Sona Nanotech is a nanotechnology life sciences firm that has developed multiple proprietary methods for the manufacture of various types of gold nanoparticles. The principal business carried out and intended to be continued by Sona is the development and application of its proprietary technologies for use in multiplex diagnostic testing platforms that will improve performance over existing tests in the market. Sona Nanotech's gold nanorod particles are CTAB (cetyltrimethylammonium) free, eliminating the toxicity risks associated with the use of other gold nanorod technologies in medical applications. It is expected that Sona's gold nanotechnologies may be adapted for use in applications, as a safe and effective delivery system for multiple medical treatments, subject to the approval of various regulatory boards, including Health Canada and the FDA.

To learn more about Sona Nanotech Inc., click here

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Focused on a better future, Siva's cancer tumor therapy system selects Sona's gold nanorod for delivery

written by InvestorNews | January 16, 2024

Today we are going to talk about a company that is making progress in the targeted treatment of cancers without much of the harmful effects of radiation treatments. Drugs and radiation

used in treatment of cancers, while effective at killing tumor cells, cause damage to organs and healthy cells. Traditional methods of radiation treatment involve non-selective irradiation, damaging the normal tissue surrounding a tumor as well as the cancerous cells. Unfortunately, a lot of these side effects are a necessary evil when dealing with the far more insidious damage that can be done by cancer, but perhaps there is hope a better future.

One company working towards a better future is Sona Nanotech Inc. (CSE: SONA | OTCQB: SNANF). Sona is a nanotechnology life sciences firm that has developed multiple proprietary methods for the manufacture of various types of gold nanoparticles. Their principal business is the development and application of its proprietary technologies for use in multiplex diagnostic testing platforms that will improve performance over existing tests in the market. Sona Nanotech's gold nanorod (GNR) particles are CTAB (cetyltrimethylammonium) free, eliminating the toxicity risks associated with the use of other gold nanorod technologies in medical applications. It is expected that Sona's gold nanotechnologies may be adapted for use in applications, as a safe and effective delivery system for multiple medical treatments, subject to the approval of various regulatory boards, including Health Canada and the FDA.

As proof that the Company is advancing its cancer treatment technology, Sona recently announced that it has entered into an agreement to supply certain gold nanorod material to Siva Therapeutics, Inc., a developer of advanced, 'in-vivo' therapies for treating cancer. Siva Therapeutics' Targeted Hyperthermia™ cancer Therapy (THT) is being developed to be an elegant, safe and effective cancer treatment that generates therapeutic heat within solid tumors using gold nanorods with an infrared light device. THT has multiple beneficial effects on tumors, and it is more selective than chemotherapy, less destructive than

radiation, and without the risks of surgical treatment. In addition to being more affordable and more effective, this technology could deliver faster results than current cancer treatments. Siva has completed successful small animal studies for THT and is preparing to undertake large animal studies in 2023 before beginning human clinical trials for colorectal and possibly other cancer tumors.

Dr. Len Pagliaro, Ph.D., CEO of Siva, commented, “Sona’s biocompatible gold nanorods are the ideal material for use with Siva’s cancer tumor therapy system. Gold nanorods offer the highest efficiency of energy transfer and Sona’s are the only ones we have found globally that don’t use toxic CTAB in their manufacturing, assuring safety for ‘in-vivo’ medical applications.“ This is probably why Sona will be issued US$150,000 worth of stock in Siva and the term of the agreement is for ten years. Both positive endorsements for the GNR technology and for Sona.

Other developments going on at Sona include a rapid screening tool to help farmers combat the threat of Bovine Tuberculosis in herds, which is being developed with a consortium of companies as part of a Canada/UK industrial research and development program. It has cost the tax payer £500 million to control the disease in England in the last 10 years. It is estimated that the costs of bovine TB control will top £1 billion over the next decade, if no action is taken. There is also a concussion test for mild traumatic brain injury that aims to detect a series of biomarkers enabling the screening for mild concussions. The test is intended to detect the presence of GFAP (Glial Fibrillary Acidic Protein), a biological marker associated with concussions, typically released into the bloodstream within minutes of an impact to the head. This could be a tremendous benefit to society as a whole, particularly children. But the capitalist in me is thinking about how much the NFL would pay

for a product that could see a player be cleared to resume play in a matter of minutes, or perhaps help the Miami Dolphins team medical staff keep their jobs by not putting Tua Tagovailoa back out on the field when they shouldn't have.

There's a lot of interesting stuff going on at Sona Nanotech. With a market cap of just C$7 million, any success could translate well for investors.

Dr. Charles Meakin on the benefits of StageZero Life Sciences early diagnostic cancer test

written by InvestorNews | January 16, 2024

In a recent InvestorIntel interview, Tracy Weslosky speaks with Dr. Charles Meakin, Chief Medical Officer at CareOncology.com on how StageZero Life Sciences Ltd.'s (TSX: SZLS) early diagnostic cancer test will enhance the cancer treatment program that the Health Clinics offer their patients.

In this InvestorIntel interview, which may also be viewed on YouTube (click here to subscribe to the InvestorIntel Channel), Dr. Meakin went on to say that Care Oncology has developed a cancer treatment protocol that uses medicines that show 2-3 times increase in average median survival in cancer patients. He added, "We have treated over 5000 patients…our platform is very efficient and 80% of our patients re-enlist…" StageZero has

developed the Aristotle® test which can simultaneously screen for 10 cancers from a single sample of blood with high sensitivity and specificity for each cancer. Dr. Meakin explained how StageZero and Care Oncology together can benefit cancer patients by combining early cancer diagnostics of StageZero and the cancer treatment protocol of Care Oncology.

To watch the complete interview, click here

About Health Clinics

Founded in London, England in 2013, Health Clinics specialises in chronic inflammation and metabolic dysfunction and uses telemedicine to provide specialist clinical services across Europe and North America. HC provides two main clinical offerings:

1. Under the trade name Care Oncology Clinic ("COC"), HC provides a patented and safe adjunctive treatment for all cancer types;

2. Under the trade name AVRT (pronounced "avert"), HC clinicians will provide a managed clinical service to help people to reduce their risk of developing chronic diseases, including cancer, using a proportionate and tolerable protocol.

About StageZero Life Sciences, Ltd.

StageZero Life Sciences is dedicated to the early detection of multiple diseases through whole blood tests. The Company's next-generation test, Aristotle®, is the first-ever multi-cancer panel for simultaneously screening for 10 cancers from a single sample of blood with high sensitivity and specificity for each cancer. StageZero's full service, telehealth platform includes access to physicians and phlebotomists who can prescribe and draw samples for individuals and groups, and the Company

operates a CAP accredited and CLIA certified high-complexity reference laboratory in Richmond, Virginia. In addition, leveraging its specialty in polymerase chain reaction (PCR) testing for the early identification of cancer through blood, StageZero also provides both COVID PCR testing (swab and saliva) and blood test analysis (Antibody testing).

To learn more about StageZero Life Sciences Ltd., click here

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Graphene Oxide 'Swiss Army knife' fights cancer

written by InvestorNews | January 16, 2024
Cancer research is a noble cause. Graphene Oxide has joined the fight, read on to find out how…

Cancer cells

The world health organisation (WHO) defines cancer as a generic term for a large group of diseases that can affect any part of the body. One defining feature of cancer is the rapid creation of abnormal cells that grow beyond their usual boundaries. These can then invade adjoining parts of the body and spread to other organs. This process is referred to as metastasizing. Metastases are a major cause of death from cancer.

So, cells that don't stop growing cause cancer. Ordinary cells have an auto-destruct switch but in cancer cells this switch doesn't work.

The auto-destruct switch

Our bodies contain structures we call organs. Similarly cells have structures inside them called organelles. Mitochondria are one of these organelles and are present within most cells. This is where processes such as respiration and energy production occur. Mitochondria are also where programmed cell death takes place. When cells become cancerous their mitochondria ignore the programmed death signals (called Apoptosis) and cancerous tumours form.

To activate the auto-destruct switch any treatment must first pierce the cell wall. Then once inside the cell it has to find and pierce the mitochondria and then switch on the programmed death signal to kill the cancer cell.

Cancer treatment strategy

Medical researchers know that a compound called Glycerrhetinic Acid (GA) can break through the cell wall and mitochondria wall, then once inside the mitochondria another compound called Doxorubicin (DOX) can cause a cascade of reactions that trigger the cancer cell to die (activating the auto-destruct switch).

The problem is that when using the compounds separately, very high dosage levels have to be used. This causes damage to the brain, liver and kidney. These toxic effects prevent the drugs from being used in practise.

If the two drugs can be combined somehow then the dosage can be reduced to safe levels. This is where graphene oxide comes in.

Graphene Oxide drug delivery system

Graphene Oxide is an ideal nanoscale drug delivery system.

First, it is a two dimensional material. This means it has a high surface area with plenty of room to attach things. Graphene Oxide nanoplates are very small so they can be injected into the body.

Second, graphene oxide contains alcohol, epoxy and carboxylic acid groups that are familiar to our bodies, making it both biocompatible and providing plenty of sites on which to anchor the drugs.

A research team from the China Pharmaceutical University in Nanjing have done the clever chemistry to attach both the GA and DOX drugs to the same graphene oxide nanoplates. They made a nano-carrier for the drugs.

More than that, the Chinese team have tested this system in the laboratory. The early trials have found that the graphene oxide nano-carrier system can target cancer cells and successfully cause them to self-destruct. The dosage levels are so small that the team believe it is perfectly safe. In short, it works!

There are many hurdles before a new anti-cancer treatment is used in real people to cure the disease. However if it passes the safety testing and regulatory requirements, we could find this nanoscale graphene oxide Swiss Army knife curing cancer in hospitals of the future.