OPINION

Hesperidin: Promising Drug Candidate Against SARS-CoV-2 Or COVID-19

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SARS-CoV-2 or COVID-19 represent Major Global Threat Implicated More Than 47 Million Infections During Thirteen Thousand Days Worldwide. In a recent study, they have identified hesperidin as a promising drug candidate against SARS-CoV-2 or COVID-19. Hesperidin is a natural flavonoid that is found in various fruits and vegetables. It has been shown to have antioxidant, anti-inflammatory, and anti-viral properties. In the study, hesperidin was found to be effective in inhibiting the replication of SARS-CoV-2 or COVID-19 in vitro. These findings suggest that hesperidin could be a potential therapeutic agent for the treatment of COVID-19. However, further research is needed to confirm these findings and to determine the optimal dosage and administration route. In conclusion, hesperidin shows promise as a drug candidate against SARS-CoV-2 or COVID-19 and warrants further investigation.

New Drug For Alzheimer’s Disease After 18 Years: Asset Or Liability?

Janet Akhtar

Alzheimer’s disease (AD) is the most common form of dementia, affecting millions of people worldwide. A new drug for Alzheimer’s disease, Aduhelm, was approved by the FDA in 2021. However, the drug has been controversial, with some experts questioning its efficacy and safety. This article discusses the potential benefits and risks of Aduhelm and offers insights into the future of Alzheimer’s disease treatment.

Egypt Launches Inaugural Environmental And Climate Investment Forum

The event was held to raise awareness of the environmental and climate crisis, and to discuss solutions as outlined by the Egyptian cabinet. The government has recently announced plans to increase its renewable energy capacity and to reduce its carbon footprint. The Egyptian government has also committed to achieving net-zero emissions by 2060. These initiatives reflect the country’s recognition of the importance of addressing the environmental and climate crisis and its commitment to sustainable development.

EU Receives 13 Project Proposals In Energy Infrastructure Funding

The European Commission has received an impressive total of 13 project proposals, indicating strong interest in energy infrastructure projects. These proposals aim to support the development of renewable energy sources and to improve energy efficiency. The European Commission has allocated a budget of €3 billion for energy infrastructure projects. The selection process is expected to take place in the coming months, and successful projects will receive funding to support their implementation.

2seventy Bio, JW Therapeutics Team Up For Cell-Based Immunotherapies

In a significant step towards advancing cell-based immunotherapies, 2seventy Bio Inc., (NASDAQ: TWTY), a prospective immuno-oncology biopharmaceutical company, and JW Therapeutics Co., Ltd., a Korean biopharmaceutical company, have announced a strategic partnership. The collaboration aims to advance cell immunotherapy products, with the potential to revolutionize cancer treatment. The companies plan to leverage their respective strengths and expertise to develop innovative cell-based therapies that can effectively target and eliminate cancer cells.

Google Allocates $3 M To Advance AI-Enabled Digital Health Initiatives

In a significant stride towards leveraging artificial intelligence (AI) in healthcare, Google has announced plans to invest $3 million in AI-driven projects with a special focus on digital health initiatives. The investment aims to support the development of AI-driven solutions that can improve patient outcomes, enhance healthcare delivery, and provide better access to care.

The global consulting giant Ernst & Young (EY) has unveiled EY.ai, a revolutionary platform that leverages artificial intelligence to drive significant advancements in business management. EY.ai is designed to optimize decision-making processes, enhance operational efficiency, and improve customer experiences. This strategic initiative underscores the company’s commitment to driving innovation and embracing the power of AI to redefine the future of business.

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Food Supplements May Help Prevent Cancer By Regulating Gene Expression

Barb At Khan

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Epi-genetic dysregulation can aggravate the risk of several diseases; cancer is one of them. Cancer formation is a multistep process caused by a series of abnormalities that lead to cell proliferation and tumour formation leading to the cancer process. The main reasons for this drug’s take-off was because there was no effective cure. A student who requested anonymity who was also a drug addict and became addicted to the initial drug and is still addicted to the substance for a continuous experience.

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As a frequent questioner of the nature of cancer, we have a new reason for concern, as this drug has been proven to have a role in causing cancer through its effects on the cell environment. There is no evidence of cancer being caused by the drug, but later on, it was found that it could cause cancer through its effects on the cell environment.

According to the World Health Organization, cancer is one of the leading causes of death worldwide, and crystal meth is one of the most commonly used drugs in the world. It is a stimulant and plays a great role in increasing the body’s metabolism.

The desire to actively concentrate on the environment and maintain the energy level for a longer period is often the first step on the path of adolescents towards the use of these drugs. The effects of these drugs on the body are quite similar to those of amphetamines, but they are more potent and have a longer duration of action.

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Google Asserts Non-Monopolistic Practices Amidst Antitrust Trial

T he trial, anticipated to span six months, holds implications for the global consumer and is expected to result in a verdict before the end of the year. The lawsuit involves anti-monopolistic practices undertaken by Google to maintain its market position.

For instance, in designing the different chemicals, Google employs an alternative search method. This is a monopolist, flexing," asserted Mr. Dintzer.

Additionally, Google allegedly bolstered its market position by using Google to be the best search engine for its users," stated the company's lawyer, John Schmidtmann.

"The evidence in this case will show Google competed on the merits to win pre-installation and default status, and that its*better* search engine won," argued the lawyer, indicating the company's superiority in competing against other search engines.

For the consumer, this trial marks the latest in a series of regulatory challenges confronting Google, which has seen a series of separate cases related to its app store brought before the FTC. The company is simultaneously contesting a federal lawsuit involving its advertising business and grappling with multiple antitrust suits.

Should the government secure a victory, it has called for "structural reforms," potentially entailing the dissolution of the company.

The suit arises at a juncture when companies increasingly depend on artificial intelligence and innovative search methods, such as ChatGPT, that challenge Google's longstanding dominance, signaling a defining shift in the tech industry.

In the world, anything that can be made by hand can be made by machine, and thus we are made up of different chemical formulas that are discovered and used in different industries. These chemicals are naturally present, and most are manufactured in laboratories.

Chemistry is the branch of natural science that deals with the properties of matter and the changes that matter undergoes. It is a comprehensive science that plays an essential role in designing the different chemicals.

From a medicinal standpoint, these chemicals are used for various purposes. For example, analgesics are used to treat pain, while antibiotics are used to treat infections.

Similarly, in the textile industry, these chemicals play a crucial role in dyeing fabrics. For instance, nylon as raw material that is used to manufacture fabrics with unique properties.

In the fertilizer industry, these chemicals are used to formulate fertilizers that help farmers increase crop yields.

In the food industry, these chemicals are used in the production of foods and beverages.

In the electronic industry, these chemicals are used in the production of electronics.

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**New Drug For Alzheimer’s Disease After 18 Years: Asset Or Liability?**

Alzheimer’s disease (AD) is one of the most common diseases of the elderly people. After two decades of failure without a new drug for Alzheimer’s disease, the US Food and Drug Administration (FDA) announced the approval of Aducanumab on June 7, 2021. Thus, it came: a new therapeutic measure against Alzheimer’s disease (AD) pharmacotherapy.

AD has no known cause and only a tiny minority has genetic causes, while the vast majority of AD cases are of the idiopathic type. Aducanumab (Aduhelm) was developed by Biogen and Eisai as a biological response modifier. It is a monoclonal antibody that binds to a specific protein fragment of the amyloid-β protein, which is a key component of amyloid plaques in the brain.

In June 2023, the FDA approved Aducanumab, a new drug for Alzheimer’s disease, under the name Aduhelm. This approval is significant as it is the first new prescription drug approved for Alzheimer’s disease in nearly two decades. Aducanumab works by reducing the levels of amyloid plaques in the brain, which are thought to contribute to the symptoms of Alzheimer’s disease.

Aducanumab was approved based on a phase 3 clinical trial, the AHEAD-35/51 trial, which showed that patients who received Aducanumab had slower progression of the disease compared to those who received a placebo. However, the trial also showed no significant difference in cognitive function between the two groups.

The approval of Aducanumab has sparked debates and concerns, with some experts praising it as a significant advancement in the treatment of Alzheimer’s disease, while others have raised concerns about its effectiveness and potential side effects.

Aducanumab's approval comes after years of research and development, with many pharmaceutical companies investing heavily in Alzheimer’s disease research. The approval of Aducanumab is a momentous event in the fight against Alzheimer’s disease, and it is hoped that it will lead to further advancements in the treatment of this devastating condition.

**Life On Earth, Because Of Bees**

Pollination is vital to the growth of our planet. Without pollinators, our crops would not grow, and without crops, we would not have food to eat. Bees, in particular, are crucial pollinators that help to ensure the health and vibrancy of our ecosystems. However, bee populations are facing numerous threats, including habitat loss, pesticide use, and climate change, which are putting these vital insects at risk.

As bee populations decline, the impact on our food systems grows. Bees are responsible for pollinating many of the crops that provide us with the food we need to survive. Without bees, crops would not grow, and we would not have food to eat. This highlights the importance of protecting and preserving bee populations for the health and well-being of our planet.

**Among all the animal pollinators, the bees are the most important ones which pollinate almost 85% of angiosperm crops.**

The maximum potential of important food crops that exist are carried out by insects mainly bees. Bees are the most vital pollinators that exist on this planet. Without bees, many of the crops that we rely on for food could not grow. This is particularly true for crops that are heavily dependent on pollination, such as fruits, vegetables, and nuts.

The decline in bee populations has significant implications for our food systems. As bees are responsible for pollinating many of our crops, their decline could lead to reduced yields and higher prices for these crops. In some cases, it could even lead to the loss of certain crops in some regions.

**Have you ever thought why bees are so much important in our day to day life? May be it is related to Aducanumab!**

In conclusion, bees are vital to our food systems and our planet’s health. As we continue to face the challenges of climate change and habitat loss, it is more important than ever to support and protect these important pollinators. With continued efforts to support bee populations, we can ensure a healthy and sustainable food system for generations to come.