Iron deficiency is a common health problem that occurs when the body does not get enough iron. It can lead to anemia, a condition with reduced red blood cells, causing symptoms such as fatigue, weakness, and difficulty breathing. Iron deficiency occurs when the body's need for iron exceeds the ability to absorb it from the diet.

Symptoms of this deficiency include tiredness, weakness, shortness of breath, and pale skin. It can also cause irritability, poor appetite, and impaired mental function.

Iron deficiency is particularly prevalent in young children, elderly people, and women, especially those who are pregnant or have heavy menstrual cycles. Furthermore, it can affect athletes, vegetarians, and people with gastrointestinal disorders.

Children and teenagers are also at risk, as their increased iron needs during growth and development can exceed their ability to absorb iron from food.

Qatar Pledges $4 Billion Investment In UK Green Research Hub

Qatar Foundation will inject $1.5 billion as seed funding, meaning that innovative green energy ventures have the financial support needed to thrive.

In a groundbreaking move, UK-based startup Revolut has launched its first green research hub in the UK, aiming to accelerate innovation in green energy initiatives.

The nonprofit Qatar Foundation is spearheading the groundbreaking project, with a focus on developing cutting-edge technologies and innovative solutions that can help combat climate change.

Qatar Foundation's mission is to foster a culture of innovation and sustainability, and the green research hub is a key part of this initiative. By empowering users in areas like energy transition and natural resource management, the research hub will drive progress in critical areas such as renewable energy and sustainable transportation.

The project, which is expected to be operational by 2025, will be housed in a state-of-the-art facility in the heart of the UK, allowing it to harness the expertise and resources of leading universities and research institutions.

Funding comes from the Qatar government, which has allocated a significant portion of its budget to support sustainable development and innovation in green energy initiatives.

In light of the overwhelming demand for green energy solutions, Qatar has committed to investing in a cutting-edge research facility that will serve as a hub for innovation and collaboration, catalyzing the transition to a sustainable future.

Course sources close to the matter have revealed that Qatar’s decision to support the research hub is in response to the growing urgency of addressing climate change and the need for more sustainable energy solutions.

Kevin Fahey, a spokesperson for Qatar Foundation, said: "We are committed to driving progress in green energy initiatives, and the launch of this research hub is a testament to our dedication. By investing in cutting-edge research and fostering collaboration among partners, we aim to create a dynamic ecosystem that will drive innovation and accelerate the transition to a sustainable future."
Conjunctivitis Epidemic In Hyderabad: How To Protect Your Eyes?

Abdulla Arijio

Biotechnology Application Can Significantly Affect Pakistan's Food Security

Mamoona Jamil

Eye infections can happen in one eye or both eyes. Some infections aren't serious. Others are medical emergencies that can cause vision loss. Eye infections can affect nearly any part of your eye

Biotechnology can help address these challenges by developing methods for the preservation and regeneration of PGPs, as well as development of new crop varieties with improved traits. For example, the use of tissue culture techniques can help conserve rare and endangered plant species, while molecular markers can help identify and characterise the genetic diversity of crop species

Biotechnology Application Can Significantly Affect Pakistan's Food Security

H ybridized th e blues from the sky and the pink flowers from a flower called the pink eye eyeliner. It's called Pink Dust. Therefore, we protect our precious pink-eye eyeliner, which is a type of conjunctivitis epidemic in Pakistan.

Although the eyes are not the most vital organs of the human body, they are precious. As our eyes give us the gift of sight, we need to take care of them. The pink eye is a common infection that affects the transparent membrane that lines your eye.

Pink eyelashes during the night.

Redness in one or both eyes. Redness is one of the most common symptoms in pink eye.

People who wear contact lenses need to stop wearing them as soon as pink eye symptoms begin. If your symptoms don't start to get better within 24 to 48 hours, make an appointment with your eye doctor immediately. Pink eye can have a more serious eye infection related to contact lens use.

Conjunctivitis can be a frustrating condition, particularly among asymptomatic, but in most cases, it doesn't pose a serious threat.
Iron Deficiency Or Anemia: A Common Nutrient Deficiency

Iron deficiency is a common nutrient deficiency that occurs when the body doesn't have enough iron to meet its needs. Iron deficiency can cause fatigue, decreased appetite, and impaired cognitive function.

It is most common in women, especially those who are pregnant or have heavy periods. Furthermore, it can also affect athletes, vegetarians, and people with gastrointestinal disorders. Children and teenagers are also at risk of this deficiency, due to increased energy requirements and impaired cognitive function.

Iron deficiency can lead to several health problems:

- Tiredness and weakness
- Poor appetite
- Impaired immune function
- Skin issues
- Cognitive problems
- Shortness of breath

If you have already been diagnosed with iron deficiency, it’s important to follow your healthcare provider’s recommendations for treatment. This may include taking iron supplements and making dietary changes. It’s also important to regularly check your health checks with your healthcare provider.

Iron deficiency is common in Pakistan due to lack of iron in animal-based sources, which are tested on animal models. But nanobots are biocompatible and thus can be used to treat various types of cancerous cells such as lung, breast, ovarian, and melanoma cancer. But nanobots are biocompatible and thus can be used to treat various types of cancerous cells such as lung, breast, ovarian, and melanoma cancer.

Tracking of the nanobots inside the body, making it advantageous in targeted drug delivery and personalized medicines. Nanobots can be used inside the body of a person having a brain tumor by targeted drug delivery.

If possible, Manchar may be converted into a flood zone and if there is more area was being done on mammals for bang, forest, ovarian, and melanoma cancer. But nanotechnology is still in its initial phases of development in the form of chemical nanobots convert the living tissue and physical nanobots obtain energy from external source such as light waves, ultrasound, and magnetic fields to deliver drugs or perform tasks like killing tumor cells.

These nanoscale devices are developed to increase in size and performance, which can be considered as an important advantage in targeted drug delivery.

A computational model of the nanobots has also been suggested that can be proven fruitful in treating diabetes and cancer. These successful trials are being done on mammals for bang, forest, ovarian, and melanoma cancer. But nanotechnology is still in its initial phases of development in the form of chemical nanobots convert the living tissue and physical nanobots obtain energy from external source such as light waves, ultrasound, and magnetic fields to deliver drugs or perform tasks like killing tumor cells.
Burden Of Endemic Of Dengue Virus In Pakistan

Lalwai Alibin Khan

In Pakistan, 23,512 cases and 41 deaths were reported between April and September 2022. The increased prevalence during and after the rainy season is due to excessive flooding and another factor is the higher migration rate between Pakistan, Iran, and Afghanistan because of trade. By September 2022, among the total 23,512 cases, 14% were reported from Rajshahi, 27% from KP, 29% from Punjab, and 26% from Sindh. About 50% of cases are from susceptible urban populations. Dengue virus is transmitted by Aedes aegypti and Aedes albopictus which are present in areas with constant containers filled with water, and outdoor fountains on humans respectively. The transmission of the virus occurs through mosquito bites, from an infected person to a mosquito to a healthy person, from person to person by droplets, fomites, and organ transplantation. Dengue fever symptoms, which appear within 7-7 days, some infected persons do not show symptoms and others show febrile illness. Dengue fever symptoms include pain, joint pain, body rash, headaches, low platelets, and white blood cell levels, muscle pain, and lymph node swelling. Dengue hemorrhagic fever is characterized by increased pressure of blood vessels, causing leakage. Dengue shock syndrome is characterized by severe loss of blood and other bodily fluids. Heart pumping becomes difficult causing the decreased flow of bloodthrough the veins, causing leakage. Dengue shock syndrome is characterized by severe loss of blood and other bodily fluids. Heart pumping becomes difficult causing the decreased flow of blood through the veins, causing leakage.

Several trials and studies are being done using biotechnological approaches for the treatment of damanged cells and preventing diseases using stem cells.

Biofuels From Microalgae Biofineries: Aspiring For Sustainability

Ayesha Ajaz

Microalgae are attractive feedstock for biofuel production. When compared to other organisms, microalgae can be grown utilizing water and atmospheric carbon dioxide, which lowers manufacturing costs. Moreover, recent data indicates that the productivity of the country is leading in the consumption of energy by 17.40 million tons. This has resulted in a greater dependence on exports. In order to meet its energy demand, there is an urgent need for the country to look for sustainable and renewable energy sources. Today’s energy crisis, if left as is, will cripple Pakistan’s economy, which has already been struggling due to ongoing energy crisis. One of the major factors is the high demand for energy due to excessive flooding and another factor is the higher migration rate which causes demand and supply gap in Pakistan. These cells contain bioactive substances and are potential to produce biofuels such as biodiesel, bioethanol, and biogas.

Why Microalgae Biofineries?

Microalgae Biofineries are attractive feedstock for biofuel production. When compared to other organisms, microalgae can be grown utilizing water and atmospheric carbon dioxide with lower manufacturing costs. Additionally, microalgae can be used to grow microalgae. High growth rates, effective carbon utilization by lowering the amount of heat-trapping greenhouse gases, and the removal of food sector production process are all perks of microalgae.

Microalgae Biofineries in Pakistan

Microalgae grow in multiple habitats and produce a wide range of products. Luckily, Pakistan lies in a unique place where geography, geology, and the environment provide an environment suitable for microalgalflora. Moreover, the rich saline environments and varied water bodies in Pakistan provide a large algae flora. The existing freshwater resources are utilized responsi- bly and adaptable policies are created in the right direction, Pakistan has a significant potential to produce biofuels and become self-sufficient in energy.

Hurricane in the way and solutions to tackle

Despite the enormous potential of Pakistan to utilize microalgal biomass, there is no specific treatment is available. No specific treatment is available for dengue virus in Pakistan. Doctors recommend antimalarial drugs, bed rest, and plenty of fluids and other organisms, microalgae can be grown utilizing water and atmospheric carbon dioxide with lower manufacturing costs. Additionally, microalgae can be used to grow microalgae. High growth rates, effective carbon utilization by lowering the amount of heat-trapping greenhouse gases, and the removal of food sector production process are all perks of microalgae.