



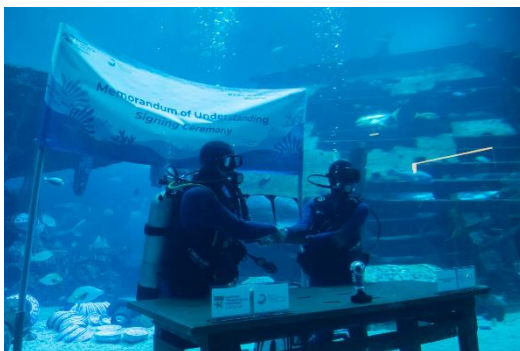
CAMPUS HAPPENINGS



CIFAL Singapore at NTU: Office and Website Now Live

[CIFAL Singapore](#) has officially opened its office at Gaia, NTU, and has launched its new website. As a premier centre for sustainability education and training, **CIFAL Singapore**, develops academic and leadership programs that focus on the development of resilient and eco-friendly urban environments (*Sustainable Cities*), and encourage sustainable business practices and harness technology for environmental solutions (*Business and Technology*). These programs are endorsed by the United Nations Institute for Training and Research (UNITAR), ensuring global recognition and high standards of excellence. It also partners with external stakeholders to run youth sustainability initiatives. Visit the website for more information on programs, partnerships, and events.

Click [HERE](#) for more details.



Building climate resilience through a joint research collaboration

Resorts World Sentosa's (RWS) S.E.A. Aquarium and the [Earth Observatory of Singapore](#) (EOS) at NTU Singapore are partnering on a research collaboration to enhance climate resilience through research projects and educational activities. Their collaboration, marked by an underwater signing, is the first of its kind in S.E.A. Aquarium's history. The partnership aims to combine the expertise and resources of both S.E.A. Aquarium and EOS to help address the urgent global crisis of climate change.

Click [HERE](#) for more details.



New monitoring station on campus to improve observations and forecasts of haze

NTU Singapore has launched the first of three new monitoring stations to improve haze observation and forecasts in Singapore. Led by NTU's [Earth Observatory of Singapore](#) (EOS), the new station is part of a system named "3-Dimensional Real-time Atmospheric Monitoring system at Singapore (3DREAMS@SG)", which measures aerosol and wind distribution in Singapore. Located on the rooftop of a building on NTU's campus, data collected from this new station will help NTU scientists understand how air quality varies with space and time, which will contribute to more accurate forecasts of air quality in Singapore.

Click [HERE](#) for more details.

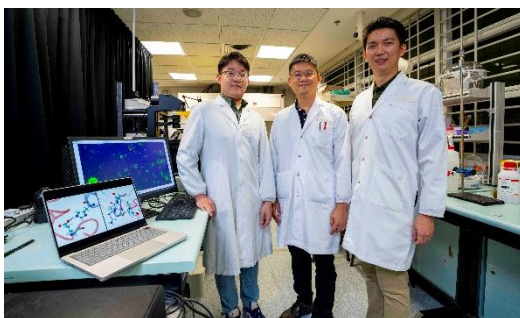
RESEARCH HIGHLIGHTS



Study successfully replaces fishmeal with microbial protein cultivated from soybean processing wastewater

NTU Singapore and Temasek Polytechnic scientists have successfully replaced half of the fishmeal protein in farmed Asian seabass diets with 'single cell protein' cultivated from microbes in soybean processing wastewater, promoting sustainable fish farming. This innovative approach is led by scientists from the Singapore Centre for Environmental Life Sciences Engineering ([SCELSE](#)) at NTU and Temasek Polytechnic's Aquaculture Innovation Centre (AIC). It introduces a new cultivated protein approach to aquaculture production, reducing reliance on unsustainable fishmeal. Soybean wastewater, rich in probiotic organisms vital for fish health, offers a promising solution for eco-friendly aquaculture.

Click [HERE](#) for more details.



Scientists develop versatile drug delivery system inspired by self-assembling proteins from caterpillars

Scientists at NTU Singapore have developed a versatile drug delivery system inspired by nature. They harnessed self-assembling proteins from moth caterpillars and transformed them into nanocapsules capable of efficiently trapping and delivering diverse drugs. Compared to other methods, self-assembly offers a more cost-effective and environmentally friendly approach to manufacturing nanostructures. These nanocapsules hold potential for various biomedical applications, including drug delivery and

gene therapy. The researchers are in the process of patenting their innovation, which was reported in Nature Nanotechnology.

Click [HERE](#) for more details.



Scientists find common genes defending coffee plants against devastating disease

An international team of researchers, co-led by NTU Singapore's [School of Biological Sciences](#), studied the genomic origins and breeding history of Arabica coffee plants to combat the devastating coffee leaf rust disease. By mapping out the genetic materials of Arabica and two related coffee plants in great detail, the researchers identified a new combination of resistance genes shared by Arabica and related coffee plants that are resistant to coffee leaf rust. This discovery opens the way to safeguard the world's most economically important coffee variety.

Click [HERE](#) for more details.

OTHER EVENTS



CleanEnviro Summit Singapore (CESG)

Event Date: 19-21 Jun 2024

Details: Click [HERE](#) for more details

The sixth edition of CleanEnviro Summit Singapore (CESG), hosted by Singapore's National Environment Agency, will take place from 19-21 June 2024, at Sands Expo & Convention Centre. The summit is themed "Action for a sustainable and clean environment" and will focus on Climate Action, Resource Circularity, and Public Hygiene. The Summit will feature high-level plenaries, conferences, and an exhibition of cutting-edge environmental technologies and services.



World Environment Day 2024

Event Date: 5 June 2024

Details: Click [HERE](#) for more details

World Environment Day 2024 will be held on 5 June 2024. It has been led by the United Nations Environment Programme (UNEP) since 1973 and is one of the biggest international days for the environment. The Kingdom of Saudi Arabia will host this year's event, focusing on land restoration, desertification, and drought resilience. Find out how you can play your part too!



Community Photography Exhibition of the Birds of the Singapore Botanic Gardens

Event Date: 7 May–31 Oct 2024

Details: Click [HERE](#) for more details

The Singapore Botanic Gardens host over 180 bird species, making it a haven for numerous resident and migrant birds. This exhibition, held at the CDL Green Gallery, will feature community-shared photographs, showcasing the Gardens' role in biodiversity conservation through habitat rehabilitation. It highlights the mutual benefits between bird diversity and the Gardens' long-term botanical efforts.

YOU CAN GO GREEN TOO!

Singapore's Sustainability Journey



Click [HERE](#) to find about Singapore's various sustainability initiatives from 1972 till now.

Carbon Footprint Calculator by SPGroup



Click [HERE](#) to track your carbon footprint and find out how to reduce it.

STAY IN TOUCH WITH US



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