

 **BREAKING NEWS :** [Clean label food formulations can increase profits: Study.](#)

FIC < >



[Home](#) / [Technologies](#) / [Scientists propose fungi-based protein as healthier alternative to plant-based meat](#)

Scientists propose fungi-based protein as healthier alternative to plant-based meat

 August 30, 2022

TECHNOLOGIES



 2 minute read



Offering an opportunity to reuse common food waste and byproducts of agriculture and the food and beverage industry

Scientists from NTU Singapore’s Food Science and Technology (FST) programme have developed a technique to cultivate a fungi-based food product that could serve as a healthier, better tasting, and greener alternative to plant-based protein.

The fungi used to cultivate the product is grown from a base of nutrient-rich common food waste, which infuses the fungi with more essential nutrients, such as protein, iron, and amino acids. This makes them more nutritious than ingredients commonly used in plant-based alternative meat, such as peas, chickpeas, wheat gluten, and soy.

The cultivation of the NTU-developed food product would also offer an opportunity to reuse common food waste and byproducts of agriculture and the food and beverage industry, such as soybean skin, wheat stalk, and brewers' spent grain, a by-product of the beer-making industry.

To scale-up their fungi-cultivation method, the NTU team is collaborating with The FOODBOWL, part of New Zealand Food Innovation Network, a national network of open access food processing facilities supported by the New Zealand government to help food businesses and startups globally innovate, scale up and commercialise new products – ultimately to international scale.

One New Zealand startup that is collaborating with NTU's FST programme to implement the fungi cultivation technology in its food products is Off-piste Provisions, a plant-based meat company.

Besides playing an advisory role to startups, the researchers at NTU's FST programme hope to develop their product to further boost its nutritional profile, as well as reduce food waste. They also hope to commercialise their solution by 2024.

Read Previous

[54.1% food experts see mithai with healthier claims to have higher demand: Godrej report](#)

Read Next

[Nestlé launches new Youth Entrepreneurship Platform](#)