



**Cellular
Agriculture
Europe**

A European & International Perspective



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Cellular Agriculture Europe



*Pork belly by
Higher Steaks*

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About Us

Brussels-based association officially launched with a 'royal decree' in November 2021.

14 members from across Europe and Israel that produce beef, pork, poultry, fish, foie gras, fats, and dairy.

Engaging regulators in the United Kingdom, the European Commission, individual EU member states and other industry associations around the world.



Cultivated meat is a European innovation

Started with €2M publicly funded research in The Netherlands in 2000 that brought together academics, food scientist and business leaders

Dr. Mark Post and Peter Verstrate introduced the world's first cultivated burger in 2013, after almost a decade of research

Today 110+ companies around the world have raised ~\$3B from investors and European governments and institutions are investing over €75M in advancing cellular agriculture research.



Conventional production comes at a price to society

The \$1.4T global demand for meat has grown exponentially in recent years and is expected to increase 40-70% by 2050 according to the FAO

There is broad consensus that this growth can't be met with current livestock production methods.

Plant-based alternatives, while improving and gaining traction, are not sufficient to solve the issue in the short term.

* Sources: [FAO 1](#), [2](#), [3](#), [UN](#), [Hoekstra](#), [Mekonnen](#)

Meat externalities today



14%

of all emissions today*



80%

of agricultural land use*



22%

of today's water use*



80%

of all antibiotics used today



205m

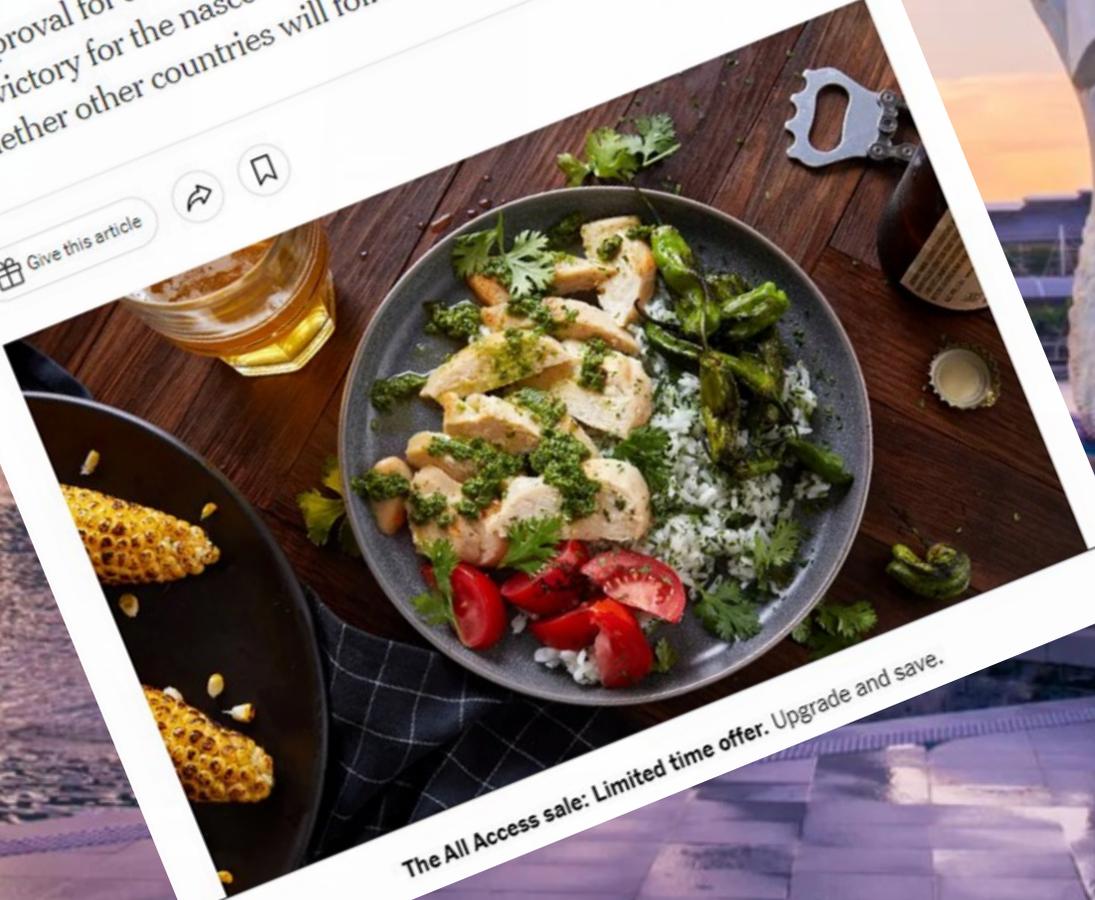
animals killed every day

The New York Times

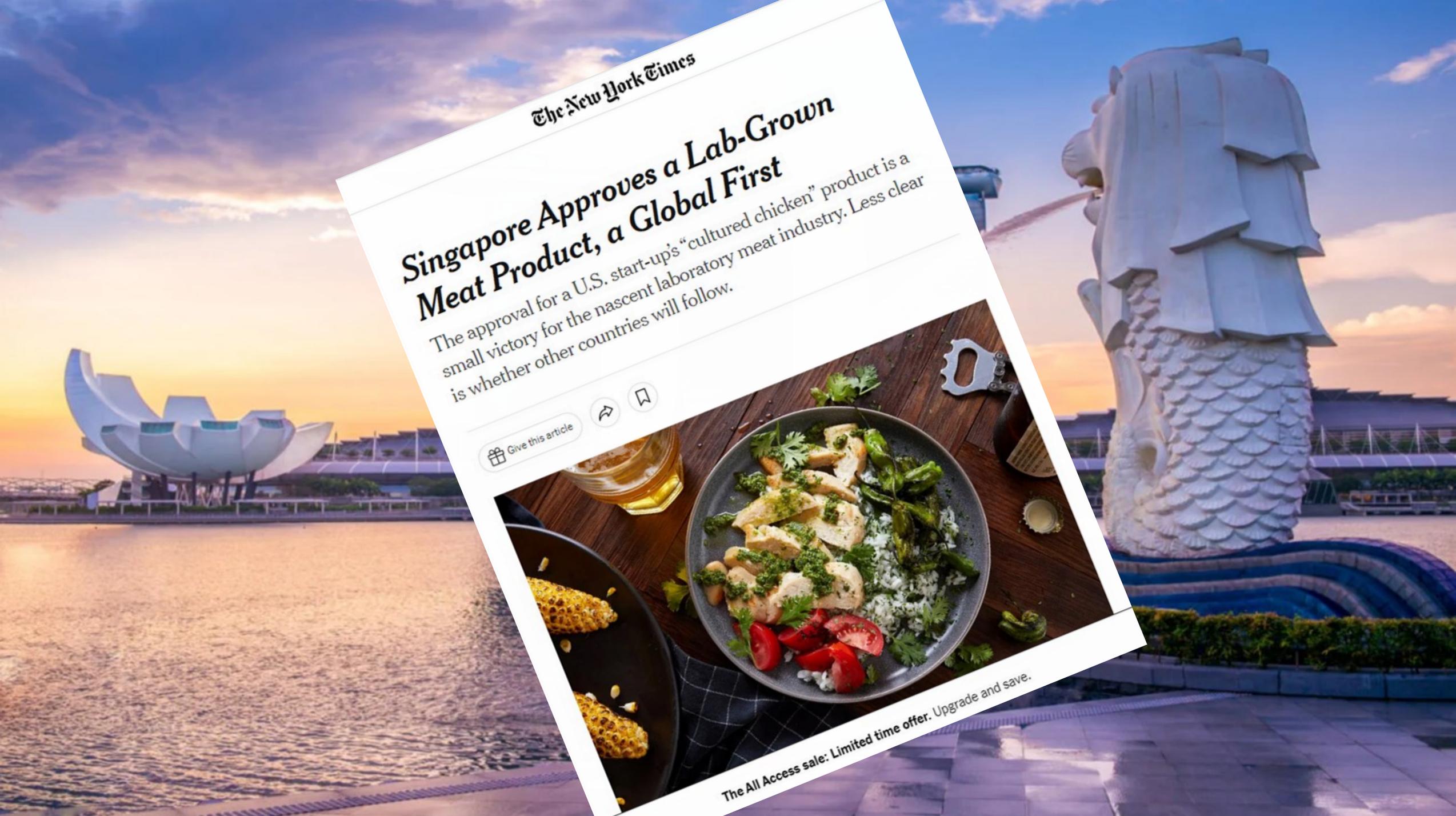
Singapore Approves a Lab-Grown Meat Product, a Global First

The approval for a U.S. start-up's "cultured chicken" product is a small victory for the nascent laboratory meat industry. Less clear is whether other countries will follow.

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China's New 5-Year Plan is a Blueprint for the Future of Meat

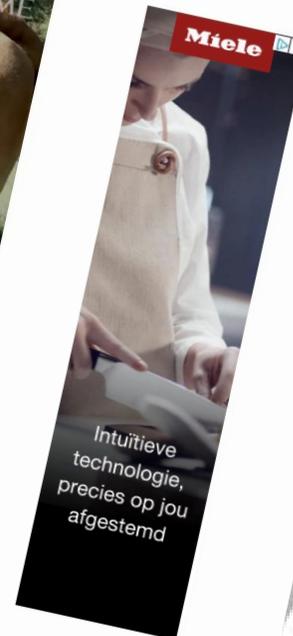
CLIMATE · FOOD & AGRICULTURE



BY **ARYN BAKER**  JANUARY 27, 2022 1:50 PM EST

China's Ministry of Agriculture and Rural Affairs has set the lab-grown meat industry **abuzz** with the release of its official **five-year agricultural plan (pdf in Chinese)** on Jan. 26. For the first time, China included cultivated meats and other "future foods" like plant-based eggs as part of its blueprint for food security going forward.

Grown from animal stem cells in a bioreactor and nourished on a nutrient broth, cultivated meats are a relatively new technology that promises to upend traditional animal agriculture by replacing slaughterhouses with laboratories. But while alternative meat companies have made immense strides in replicating the **taste** and texture of conventionally raised pork, beef, and chicken, barriers to large scale development and distribution remain. **China's embrace of the technology** could upend that metric by encouraging investment and providing a market.



USDA National Institute for Cellular Agriculture at Tufts University

Welcome to
for Ce

Biden's Biotech Moonshot Light Regulatory Approval of Cultivated



President Biden supports biotech | Courtesy



4 Min Read

Biotech is a priority for the Biden Administration, as the President signed an executive order this week implementing support for the emergent category. Funding amounts were not disclosed, but Biden says biotech holds the potential to fight cancer and make alternatives to emissions-producing products including oil-based chemicals, plastics, and textiles, as well as animal-free and dairy products.

Calling it a cancer "moonshot," at the John F. Kennedy Presidential Library in Boston earlier this week, he compared biotech to the former president's moon landing initiative. Biden says he hopes to cut cancer deaths by 50 percent over the next quarter century.



Upside Foods gets FDA greenlight for cultivated chicken

Published Nov. 16, 2022

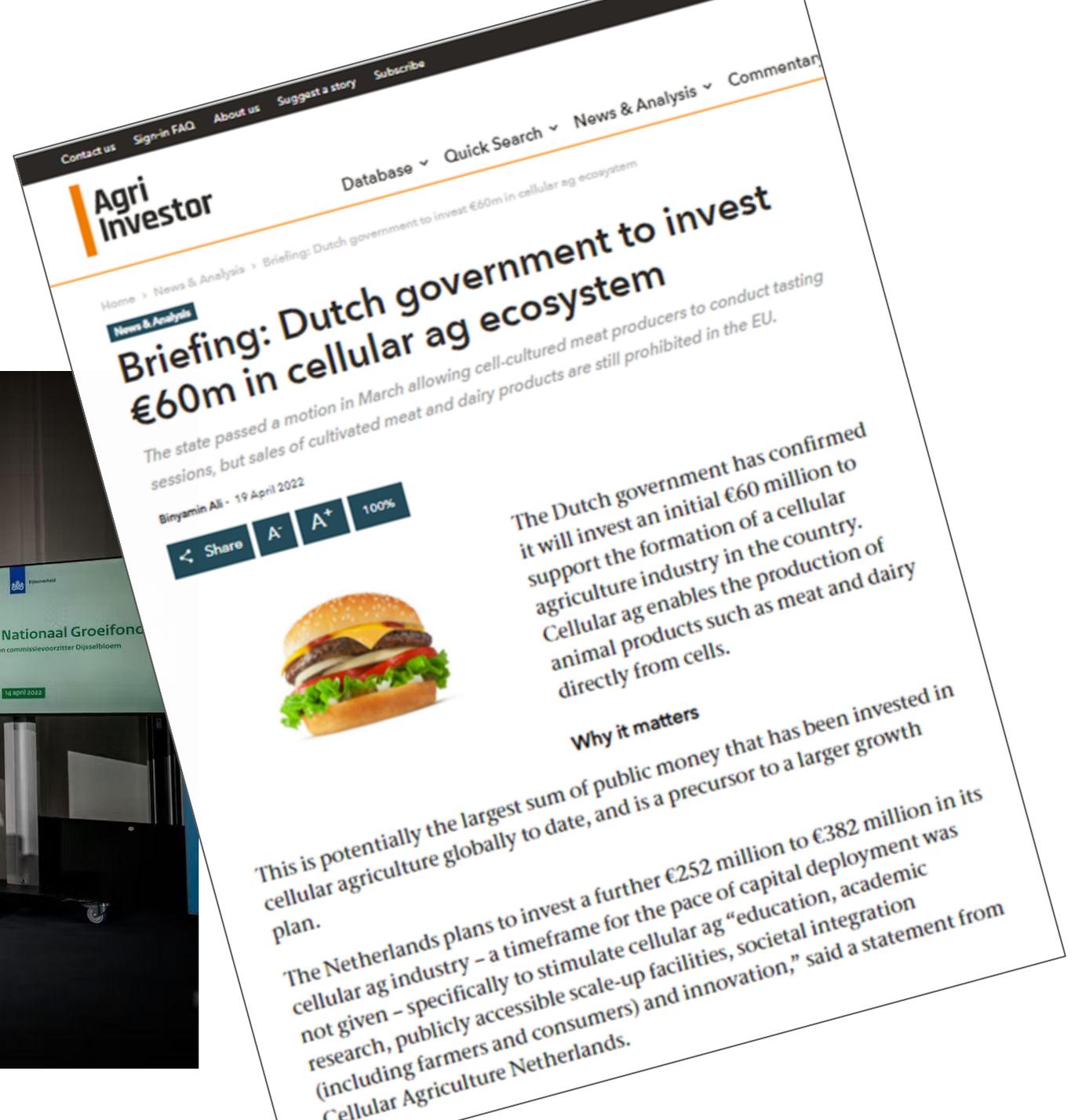
Megan Poinski
Senior Reporter



Upside Foods cultured chicken in salad boxes. Courtesy of Upside Foods

Dive Brief:

- Cultivated meat maker Upside Foods received approval from the FDA for its chicken grown from animal cells. This is the first regulatory approval for any cultivated meat in the U.S.
- The "no questions" letter from the FDA indicates regulators have found nothing unsafe about the cultured chicken the company makes. Upside Foods now awaits approval from the USDA in order to serve its chicken products to consumers.



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News & Analysis

Briefing: Dutch government to invest €60m in cellular ag ecosystem

The state passed a motion in March allowing cell-cultured meat producers to conduct tasting sessions, but sales of cultivated meat and dairy products are still prohibited in the EU.

Binyamin Ali - 19 April 2022

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The Dutch government has confirmed it will invest an initial €60 million to support the formation of a cellular agriculture industry in the country. Cellular ag enables the production of animal products such as meat and dairy directly from cells.

Why it matters

This is potentially the largest sum of public money that has been invested in cellular agriculture globally to date, and is a precursor to a larger growth plan.

The Netherlands plans to invest a further €252 million to €382 million in its cellular ag industry – a timeframe for the pace of capital deployment was not given – specifically to stimulate cellular ag “education, academic research, publicly accessible scale-up facilities, societal integration (including farmers and consumers) and innovation,” said a statement from Cellular Agriculture Netherlands.



THE TIMES OF ISRAEL

Israeli cultivated meat consortium kicks off with \$18 million government grant

The group includes 14 companies, including leading alternative protein startups, and 10 academic and research institutions



By RICKY BEN-DAVID
19 April 2022, 3:42 pm | 1 min



Cultivated steak. Illustrative. (Elena Dy via iStock by Getty Images)

The Israel Innovation Authority has granted \$18 million for what it dubbed the "world's largest" consortium for cultivated meat development, made up of 14 companies including leading Israeli food tech startups, and 10 universities and research institutions.

Cell-Based Meat Served At UN Climate Conference For First Time Ever

Could cultivated meat replace conventional menu options at next year's COP summit?

BY AMY BUXTON

17TH NOVEMBER 2022

4 MINUTES READ



Cell-based meat was put on the COP27 menu for the first time ever this year at the event's Singapore Pavilion.

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The Washington Post
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Climate conference serves up lab-grown meat – and a clash over food systems

At COP27, an acknowledgment that climate change can't be solved without massive changes to the world's food systems

By Evan Halper
November 18, 2022 at 1:32 p.m. EST

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Japan's Prime Minister Embraces Cultivated Meat As Part of the Country's Sustainable Future

By Jill Esterline — Last updated Feb 27, 2023

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Prime Minister of Japan Fumio Kishida embraces cultivated meat. Photo Courtesy Office of the Prime Minister



3 Mins Read

Japan's Prime Minister Fumio Kishida says the country will move forward with a plan to develop an industry of "cell agriculture" bringing a focus to cultivated meat and fish as a means to reduce the country's carbon footprint.

Prime Minister Kishida is looking forward to creating a new agriculture sector that will increase the country's sustainability he said in a statement.

'A new market'

"We will develop the environment to create a new market, such as efforts to ensure safety and the establishment of labeling rules, and foster a food tech business originating in Japan," Kishida said.

In his statement, Kishida emphasized the importance of supporting a sustainable food supply and contributing to solving the world's food problems. He highlighted the potential of food tech, including cultivated meat, to create a new market and foster a food tech business sector in Japan.

Cellular agriculture is currently seeing a boom in investments and developments despite lagging regulations outside of Singapore — currently the only country that has approved cultivated meat for sale and consumption. The U.S. recently granted its first GRAS status to cultivated chicken developed by California-based Upside Foods. But it must still clear USDA regulations before it can be approved for sale.





Not if, but how fast



...and where

the race to create global hubs is underway...

x



Europe should be one of them.



Sausages by Ivy Farms



**Cellular
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Thank you

Chicken breast by Believer Meats