**ANNOUNCEMENTS**

The latest news from New Harvest:

- **We are excited to announce** our **first line of speakers** for **New Harvest 2019**! From **Dr. Ka Yi Ling** from **Shiok Meats** (Singapore's first cell-based meat company) to **Dr. Jun Axup** of **IndieBio** (the world's leading life science accelerator), we have an action-packed lineup. Check out the **NH2019 website** to see a full preview of our speakers.
  - If you're interested in cellular agriculture, this is the conference for you. Researchers, companies, investors, and key thought leaders. They're all going to be right here.

- **Get your tickets now and don't miss out!** New Harvest will be hosting our **4th annual** New Harvest conference on **July 19th & 20th** at the MIT Media Lab in Cambridge, Massachusetts. **Tickets are now available on the NH2019 website.** We're looking forward to seeing all of you there!
  - If you are a student, biohacker, or veteran, we have major discounts available for you! Fill out this form to apply.
  - Interested in volunteering? Fill out the application form here.
  - If you would like to exhibit your work, you can apply to share your work here.
- Watch the #NewHarvest2018 recap video to see what’s to come!

- We’re excited to welcome Meera Zassenhous to the New Harvest team! Meera has previously been a New Harvest Intern and is joining the team as our Engagement Associate. Welcome Meera!

UPCOMING EVENTS

- The New Harvest 2019 Conference takes place from July 19th to July 20th in Cambridge, Massachusetts. Get your tickets today to learn about the future of cellular agriculture.

NEW HARVEST FEATURES

- Check out our Twitter account! Inspired by Ginkgo Bioworks, New Harvest now has a collaborative approach to Twitter - the account is run by a different member of the New Harvest community one week at a time. Catch a view into the many experiences and perspectives of New Harvest researchers, volunteers, staff, and more.

FROM AROUND THE WEB

Our favourite content from the world of cellular agriculture:

- Cellular agriculture is getting coverage in the UK! Dr. Marianne Ellis of the University of Bath was interviewed by the BBC about her work at the University of Bath on growing animal products from cells. Without requiring animals. Dr. Ellis shares how her lab is researching how to use grass as a scaffolding for cell-based meat. The BBC also speaks to New Harvest Research Fellow Scott Allan, who shares why the lab is looking to use grass as a scaffolding.
  - Dr. Marianne Ellis and Scott Allan also spoke to the University of Bath Press as well as iNews about their work in making animal meat from cells.
  - New Harvest Research Fellow Scott Allan was recently awarded the Whorrod Prize for 2017/18 for receiving the highest overall MRes mark in the Research Master at University of Bath. You can learn more about Allan’s research here.

- New Harvest board member Caleb Harper and his team at the MIT Media Lab recently published an open access paper in the journal PLOS One. Their paper looks at an open-source control environment for cyber-agriculture (also known as artificial climate control). This is one of the
group's first data-backed papers looking at the use of machine learning to optimize cyber-agriculture for plant flavor and chemistry. You can check out the paper here.

- When producing a cell-grown product, like gelatin, a company may need to test hundreds of different microbe samples to find the right one. That can take a lot of time and money. A new company called Culture Biosciences raised $5.5 million to help companies grow their cell-grown products. The Wired describes Culture Biosciences “as a virtual fermentation lab, a place where companies can send flash-frozen vials of yeast and bacteria to be raised and tested.”
  - As more companies enter the cellular agriculture space, the demand for fermentation testing facilities like Culture Biosciences will only increase. Their customers already include cellular agriculture companies Geltor and Modern Meadow.
  - Will Patrick, CEO and co-founder of Culture Biosciences, will be one of the speakers at the New Harvest 2019! Check out our full list of speakers here.

- The US Department of Agriculture (USDA) and Food and Drug Administration (FDA) announced that they established a basic framework for regulating cell-cultured meat products. Both Agri-Pulse and CellAgri take a look at the details of the framework and what implications they may include for both conventional and cellular agriculture meat companies.
  - Last year, Executive Director Isha Datar traveled to Washington DC to attend both the FDA Science Board Meeting and the USDA and FDA’s Joint Public Meeting about cell-based meat. You can catch Isha’s presentations (and more) on New Harvest’s YouTube channel.

- Food Tank released a list of 25 Food and Agriculture Leaders to Watch in 2019, and excited to share that Executive Director Isha Datar was featured on the list! Food Tank shared that New Harvest promotes and supports open and primary research in cellular agriculture.
  - Our research is supported by donors like you. Learn more about New Harvest’s research projects here.

- “We will need to produce as much food in the next 30-40 years as was produced in the last 10,000 years of human history. That is a challenge. The only way we’re going to be able to do that is if we use science, technology, and innovation.” Check out Jack Bobo’s fascinating TedxTyson talk about the importance of sustainable food technologies, like cellular agriculture!

- How would new cellular agriculture startups look like in Spain and Canada? CellAgri takes a look at two new startups, Cubiq Foods and
Future Fields, respectively, who are entering the field to produce animal products via cellular agriculture. They share the challenges (and benefits) of starting a cell ag company outside of the USA.

- Future Fields co-founder, Matt Anderson-Baron, shares that he was a New Harvest seed grantee and how New Harvest is helping to grow the field in Canada.

In the world of startups:

- **Wild Earth** CEO and co-founder Ryan Bethencourt shared that he was going on the show Shark Tank to pitch their sustainable pet food made from koji protein. While many shark investors were hesitant, investor Mark Cuban saw an opportunity and made a deal for $550,000. With investors like Peter Thiel, Mark Cuban joins a strong team of backers for the pet food startup.

- **It’s been a busy month for Shiok Meats!** Based in Singapore, Shiok Meats recently announced that they were part of the Y Combinator winter class of 2019. Along with being the first cell-based meat company to be accepted into the program, Shiok Meats shared that they completed their pre-seed financing round of $500,000 in January 2019. And, last week, Shiok Meats showcased the first ever cell-based shrimp dumplings at the Disruption in Food and Sustainability Summit in Singapore.

- **Geltor** recently announced their latest product: HumaColl21, the first ever human collagen created for cosmetic formulations. Geltor uses cellular agriculture to grow animal-free collagen protein. Collagen has many functions and can be used to make many different products, like gelatin, leather, and cosmetics. Last year, Geltor won the CEW’s Award for Innovation for its first product, Collume (formerly known as N-Collage).

- **Bolt Threads** announced the launch of its spinoff company, Eighteen B. Bolt Threads, a company that uses cellular agriculture to grow spider silk from cells, has previously used their spider silk to produce clothes, like silk ties and toques. And now, Bolt Threads is entering the cosmetic space with the launch of Eighteen B to produce skincare products with silk. Eighteen B launched the company with two products under its trademarked ‘b-silk’: a silk protein moisturizer and cream.

---

**EMPLOYMENT OPPORTUNITIES IN CELLULAR AGRICULTURE**

- **Mission Barns** currently has several openings (Berkeley, CA).

- **Kiverdi** is currently looking to fill a number of positions (Hayward, CA).
• **New Culture** is currently looking for a *dairy food scientist* (San Francisco, CA).

• **Shiok Meats** is looking to hire *several positions* (Singapore)

• **Clara Foods** is looking to hire a couple of *Research Associates* (South San Francisco, CA)

• **Finless Foods** is actively looking for a *Senior Scientist* (Emeryville, CA)

• **Modern Meadow** is looking to fill a *number of positions* (Nutley, NJ).

• **Perfect Day Foods** is looking for a *Senior Process Engineer* (Berkeley, CA).

• **New Age Meats** is looking to hire a *Stem Cell Biologist* (San Francisco, CA).

• **Memphis Meats** currently has *several openings* (Berkeley, CA).

• **JUST** has *several openings in cellular agriculture* (San Francisco, CA).

• **Is your cell ag company looking to grow?** [Get in touch](#) to have your job posting shared on the New Harvest newsletter.

---

This mailout was written by New Harvest community member Ahmed Khan from [CellAgri](#), a news and insights platform exploring the future of food with cellular agriculture. Check out CellAgri on [Twitter](#) and [Instagram](#)!

**New Harvest** is powered by people like you.

Donate Now!

---

New Harvest is a nonprofit 501(c)(3) organization.
EIN/tax ID number: 20-1425438
All donations are fully tax deductible.