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## ANNOUNCEMENTS

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The latest news from New Harvest:

A purple banner with white text and graphics. At the top, it says "EXPLORE Cellular Agriculture at...". Below that, the text "NH2019" is written in large, white, dotted letters. In the bottom left corner, there is a small version of the New Harvest logo followed by the text "TICKETS ON SALE NOW!". In the bottom right corner, it says "MIT Media Lab July 19 & 20".

EXPLORE Cellular Agriculture at...

NH2019

 TICKETS ON SALE NOW!

MIT Media Lab  
July 19 & 20

- 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!

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## UPCOMING EVENTS

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- 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*.

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## NEW HARVEST FEATURES

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- [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.

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## FROM AROUND THE WEB

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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.

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## EMPLOYMENT OPPORTUNITIES IN CELLULAR AGRICULTURE

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- **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.

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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](#)!

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