



Hello New Harvest Donors!

Is it May already? With every member of the New Harvest team on the road, it can be hard to keep track!

This month we're eager to share two new projects that we'd like to get off the ground, some updates on the awesome speakers we have lined up for New Harvest 2018, and our audited financials - so you can better understand how New Harvest is using donor dollars to push the forefront of cellular agriculture further.

And now, the latest from New Harvest:

6/1/2018 YTD SNAPSHOT

+ Raised **\$165,630***
+ **33** new donors
+ Spent **\$92,106** in research grants
+ **8** speaking engagements
+ **39** media engagements

*Income & pledges in 2018

Fundraising Opportunities

We're actively fundraising for the following research projects:

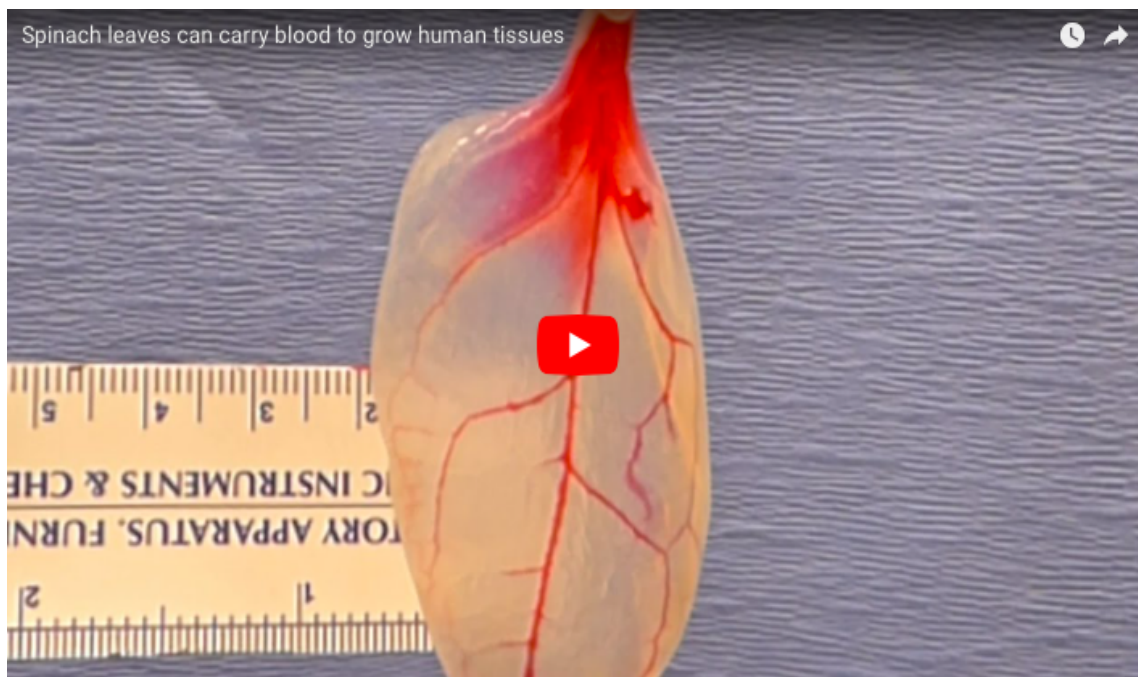
- **Phase II of our bioreactor project.** Through our Seed Grant Program, [New Harvest has piloted a project](#) to design a scalable, modular

bioreactor prototype for cultured meat production in a laboratory setting. Designed by Research Fellow Jess Krieger, this novel bioreactor could become an important tool in further cultured meat production research. We are now ready for Phase II - an engineering build and the delivery of a fully tested, functional prototype. If all goes as planned, blueprints will be made widely available after testing, as well as the option to pre-order a completed, operational bioreactor. **This work will cost \$81,400 over the next 6 months.**

- **Unlocking the mysteries of fetal bovine serum.** We're keen to provide support for a preliminary study on the lipid content of fetal bovine serum for the growth of agricultural animal cells, so that we can better develop serum-free alternatives. This pilot project is a necessary first step for further work in serum-free media development for cellular agriculture. **This preliminary work will cost \$10,500 over the next 6 months.**

Conference

- **Our conference speaker lineup is almost complete!** We're only 7 weeks out from the big event ([don't forget to secure your ticket!](#)) and we couldn't be more excited about the people and conversations that are going to be there. In the weeks leading up we'll be highlighting the work of this year's speakers and exhibitors, starting with:
- **Dr. Glenn Gaudette of WPI** is a pioneer of plant scaffolds. His spinach leaf with "blood" vessels was one of the most popular stories of 2017 (National Geographic) and one of the top medical breakthroughs of 2017 (Boston Magazine). This work could certainly be a breakthrough in cellular agriculture, and we're thrilled to see him talk about the food context at New Harvest 2018!



- **Katharine Kreis of PATH Innovation** has spent an impressive number of years working at the intersection of emerging technologies and humanitarian applications. She was at the Gates Foundation during the development of Golden Rice and is eager to share learnings about mission-driven food science - what can we learn about the complex tale of Golden Rice, to better inform the introduction of cellular agriculture to the world? Katharine has worked at USAID, USDA, and the Bill & Melinda Gates Foundation, and advised the WHO, WFP, and World Economic Forum.



- **Sponsorship is what makes the New Harvest conference possible.** If you or an entity you know are interested in cultivating the cellular agriculture community with New Harvest, please [get in touch](#) - we'd be happy to find a sponsorship opportunity that is right for you.

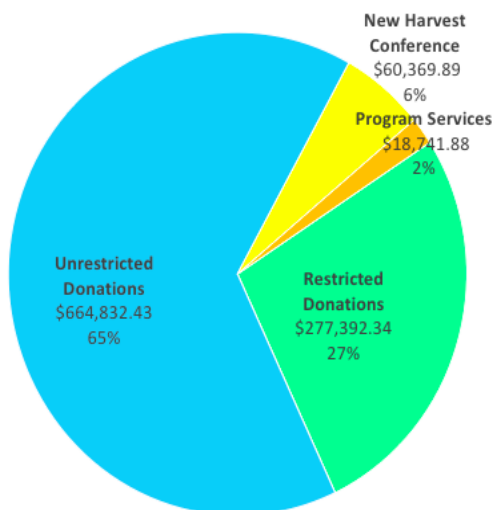
- [Don't forget to get your ticket ASAP!](#) We have limited space at the MIT Media Lab and we'd love to have you there. Curious what the conference is all about? [Here's a recap of the 2017 event](#), with a short video capturing the excitement for cellular agriculture.



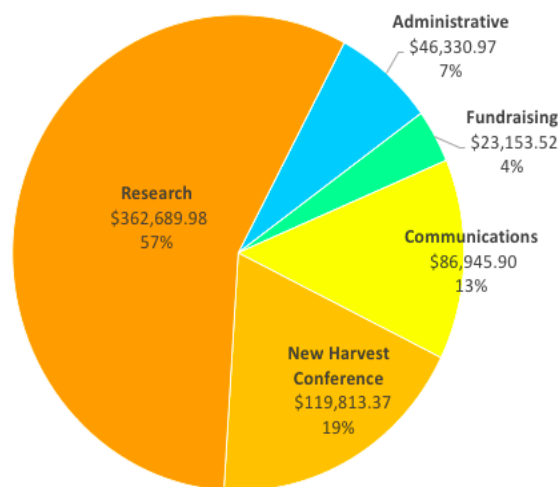
Fundraising

- **Fundraising status.** New Harvest has received **\$165,630** in donations and pledges in 2018 to date. This does not include conference ticket sales, sale of merchandise, or income from speaking engagements.
- **New Harvest is approved for the 2018 Combined Federal Campaign (CFC).** The CFC provides federal employees with a cost-effective and efficient way to support philanthropy. If you are or know anyone who is a federal employee, please let them know they can donate to New Harvest through the CFC! Our CFC# is 76643.
- **Our 2017 financials.** Our 2017 audit is complete! Curious to see how New Harvest earned and spent philanthropic dollars to advance cellular agriculture last year? [Check out this blog post for the full breakdown.](#)

New Harvest's 2017 Income by Class



New Harvest's 2017 Expenses by Class



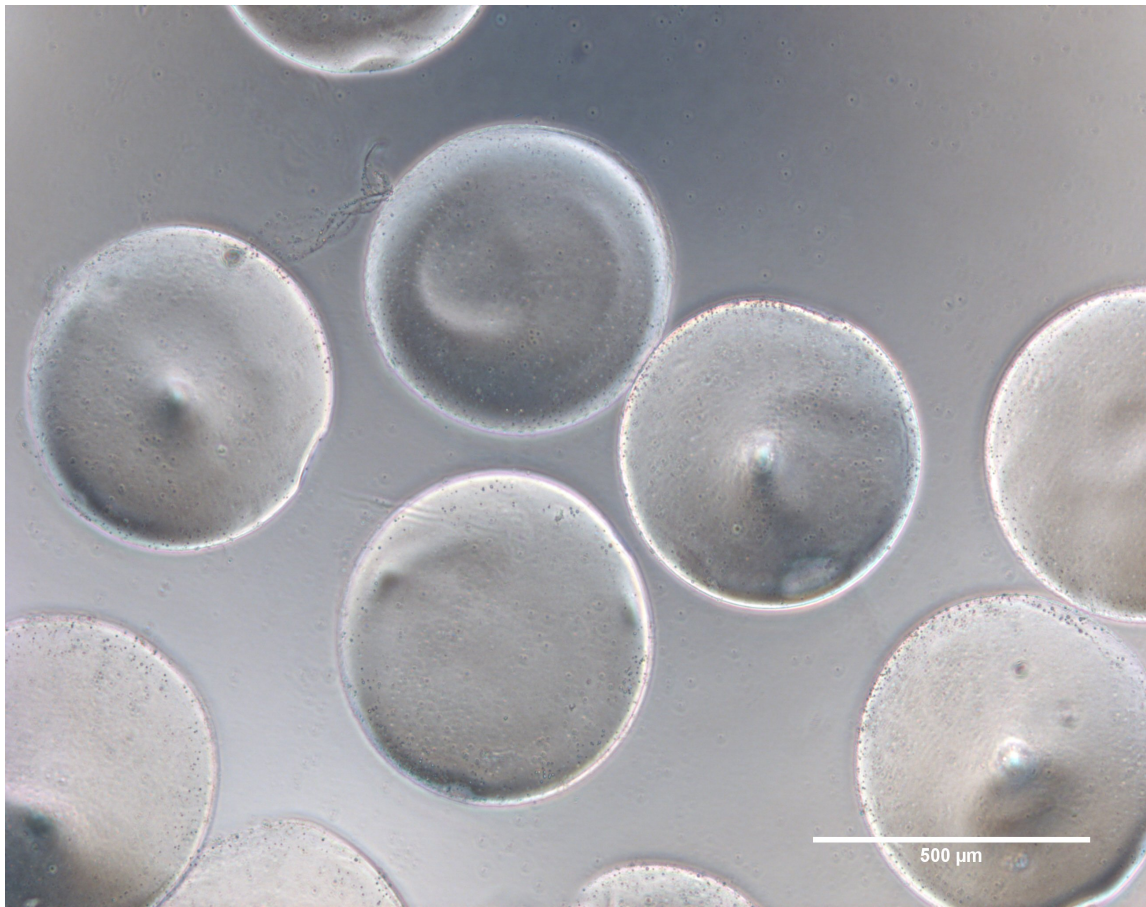
Research

- **New Harvest has added new grant categories** to complement the Graduate Research Fellowship and Seed Grant Fellowship. The Postdoctoral Fellowship Program and Dissertation Awards are designed to further accelerate research in cellular agriculture by drawing mature talent from existing graduate and postgraduate research communities.

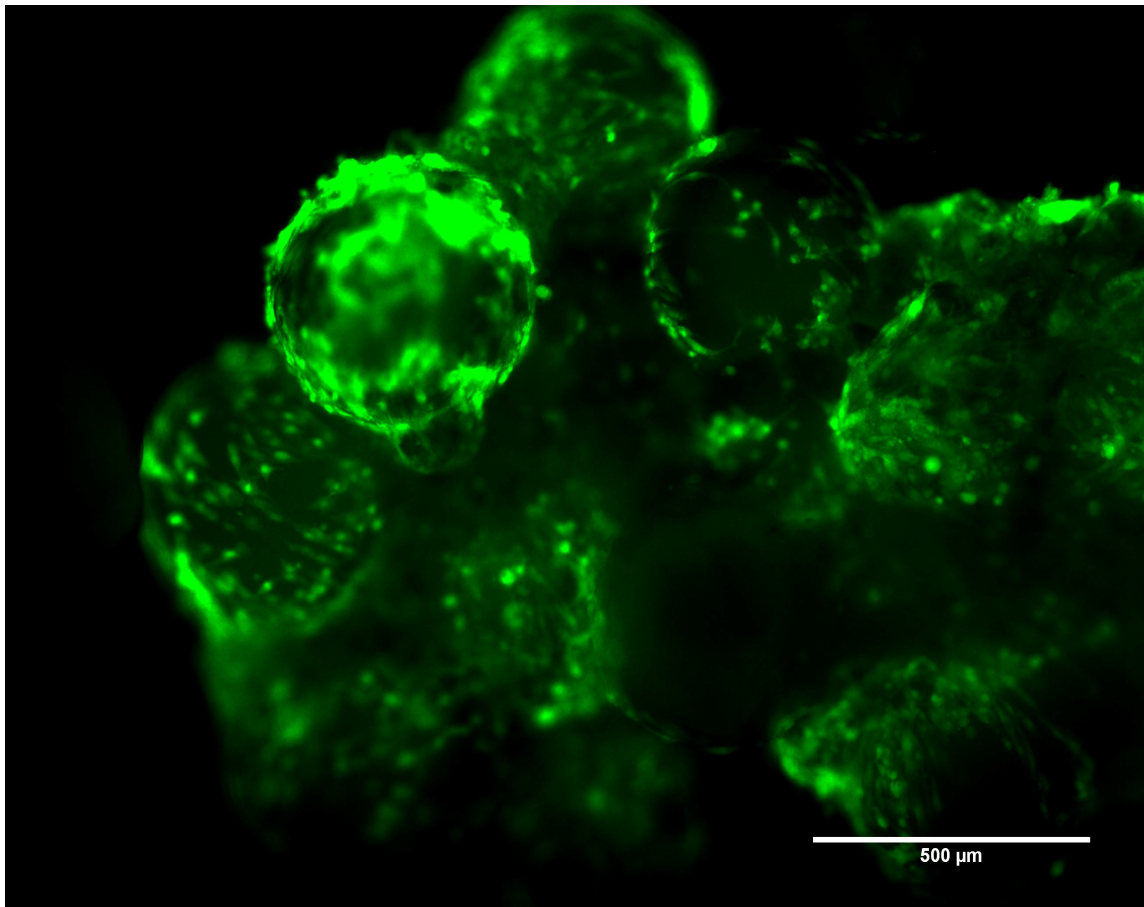
The Postdoctoral Fellowship is designed for individuals who have already been awarded a PhD and who are interested in pursuing cutting edge, basic research in cellular agriculture. Visit our [grants page](#) or email research@new-harvest.org to learn more.

The Dissertation Award is designed for students beginning their final year of doctoral studies pursuing basic research applicable to cellular agriculture. The award will cover up to one year of tuition and stipend to complete studies. Nominees (including self-nominees) may be emailed to research@new-harvest.org.

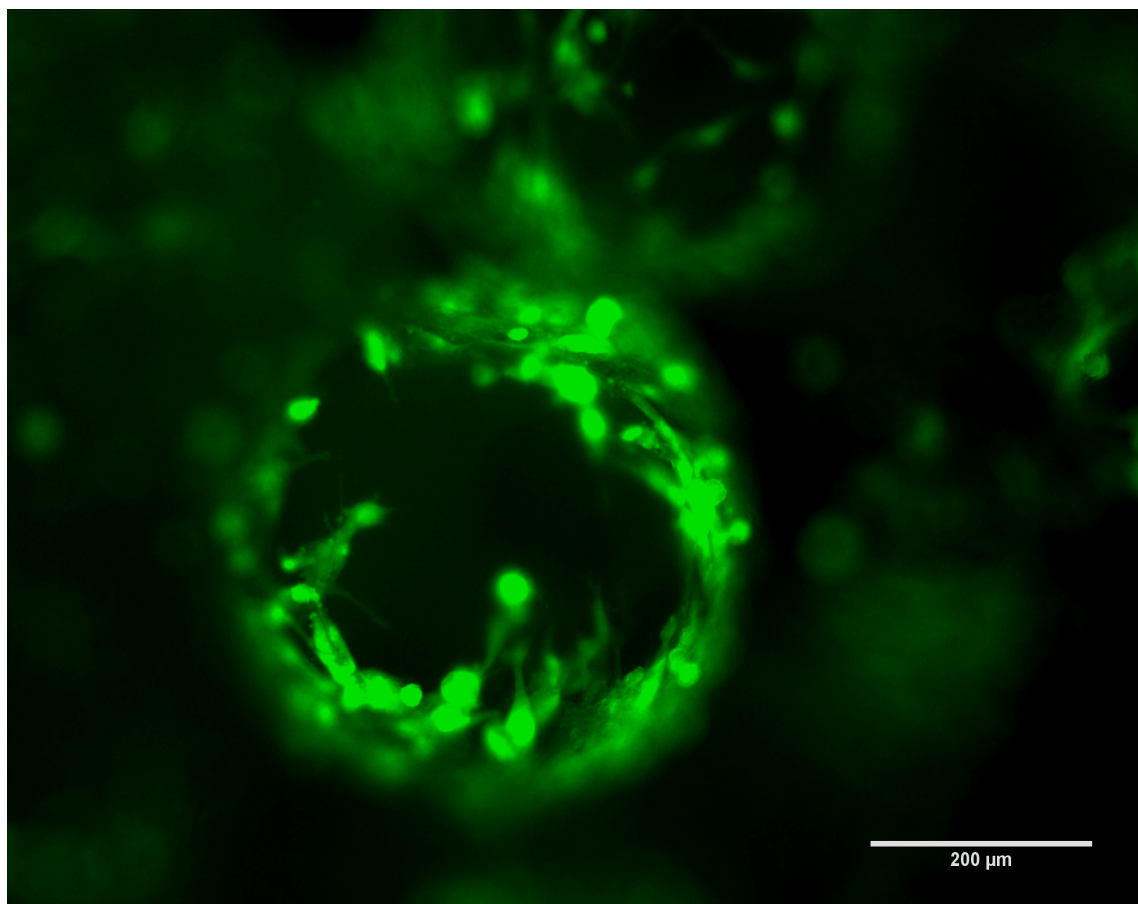
- **New Harvest Fellow Scott Allan** has been using microfluidics to create silk microcarriers. These silk microcarriers are great for attaching muscle cells to, creating a modular scaffold material. Here are some of his early images of the microcarriers and the muscle cells he's attached!



Scott's silk fibroin microcarriers, produced using a microfluidic device.

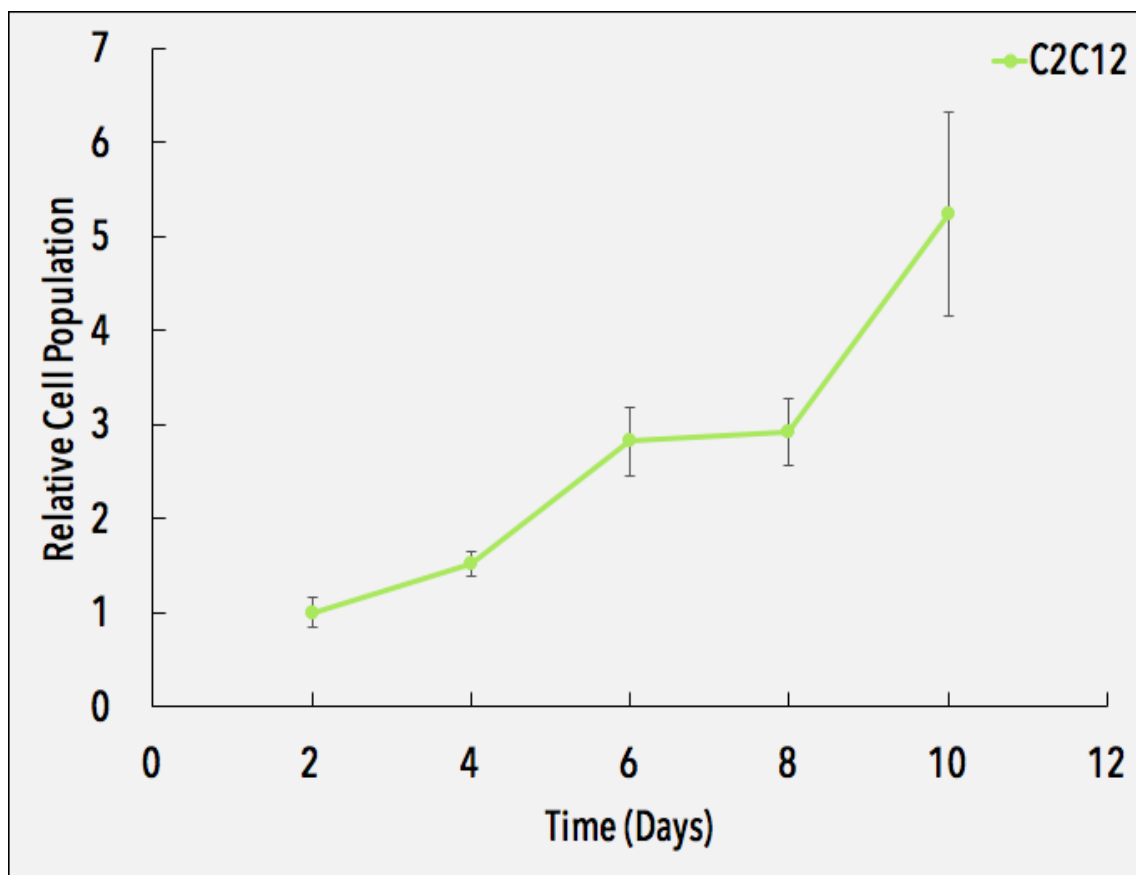


Scott's C2C12 murine muscle cells stained with CellTracker Green growing on silk fibroin microcarriers.



A close-up of C2C12s on a silk fibroin microcarrier .

- Over the past couple of weeks, **New Harvest Fellow Natalie Rubio** has been measuring how fast her cells grow, using a method called the cyquant proliferant assay. This graph shows her cell populations without refreshing culture media over 10 days.



Natalie's C2C12s doubling over time!

- Over the past two years, **New Harvest Fellow Marie Gibbons** has added so much to our community. We are proud to announce that she has completed her New Harvest fellowship and has joined our alumni network.



Congratulations, Marie!

- **Quote of the month:** “History repeats, but science reverberates.” — [Siddhartha Mukherjee](#)

Communications

- Isha was invited to reflect on the genesis of “cellular agriculture” and some of the words used to describe cultured meat in a talk at an R&D Salon on “Why Words Matter” at the Museum of Modern Art.
- Erin spoke on a panel about the future of food at the W.IN (Women in Innovation) Forum in NYC.
- Kate recorded an episode of the *Learning with Lowell* podcast. Kate shared her thoughts on why New Harvest is tackling cultured meat as a non-profit, the current state of bioreactor and serum research, and more - available [here](#).
- Isha was recently interviewed on the *Cultured Meat and Future Food* podcast, giving her insights on topics including cellular agriculture product pathways and research gaps in cultured meat. Check out the episode [here](#).

7 June 2018

That's a wrap for this month. Thank you so much for your generous support, we could not be at the forefront of food science without you.

Have a great summer,

Isha, Erin, & Kate

The New Harvest Team