

ABRAMORAMA

<https://www.foodevolutionmovie.com/>



Food Evolution: Advancing the GMO Debate

Posted on January 14, 2018

A 2015 study from the Pew Research Center reported that only 37% of the public is confident that GM foods are safe for consumption—this is in comparison to 88% of scientists being confident in GM food safety. This 51 point gap between public opinion and scientific opinion on GM food safety is the largest gap of any issue surveyed (Pew Research Center, 2015). How

By Lauren M. Segal

Many question the integrity of science, but few understand how it works.



<https://www.c2st.org/food-evolution-advancing-the-gmo-debate/>

the balance

BIOTECH INDUSTRY TECHNOLOGY

What Are GMOs and How Are They Made?

The Basics of Genetic Modification



- GMO Mosquitos (sterile)
- Golden Rice (w/ Vitamin A)
<http://www.goldenrice.org>
- AquaAdvantage Salmon
- Rainbow Papaya
- Apples and tomatoes

<https://www.thebalance.com/what-are-gmos-and-how-are-they-made-375620>



AquaAdvantage salmon

Animal breed

AquaAdvantage salmon is a genetically modified Atlantic salmon developed by AquaBounty Technologies in 1989. A growth hormone-regulating gene from Pacific Chinook salmon, with a promoter gene from ocean pout, were added to the Atlantic salmon's genes. Wikipedia

Rank: Breed

Higher classification: Atlantic salmon

FDA OKs GMO Salmon: Here Are The Benefits And Risks

Faye Flam | Science Correspondent
Pharma & Healthcare

This article is more than 3 years old.

The genetic modifications are designed to spur the fish to grow faster, thus making these farmed salmon cheaper to raise. The starting point is an Atlantic salmon. Researchers from AquaBounty endowed them with two new genes. One is a growth hormone gene from a different salmon species – the chinook salmon.

FDA just approved the first GMO fish - a salmon called AquaAdvantage. The creature will surely be reviled as a Frankenfish, but may still provide a more nutritious choice than farmed tilapia. This fish is not all that new. In 2010, the California based AquaBounty Technologies announced the GMO salmon might be on American dinner plates by 2012. They didn't anticipate

<https://www.forbes.com/sites/fayeflam/2015/11/19/the-benefits-and-risks-of-newly-approved-gmo-salmon/>

New Food Economy

Genetically engineered fish is not a matter of "if" but "when"



- One day in 1992, a technology entrepreneur sat down for a meeting with a pair of biologists who were studying the genes of fish.
- The scientists...were working on a method of purifying "antifreeze proteins" that would help Atlantic salmon... survive so-called superchill events in the North Atlantic.
- Normally these salmon migrate out of the subzero... seawater of the far North Atlantic to overwinter in less frigid waters....
- Fish farmers were looking for a way to keep the fish alive through the winter, and the antifreeze protein seemed like a possible solution.
- As the meeting drew to a close, Fletcher and Hew showed Elliot Entis, the entrepreneur, a photo of two fish of equal age. One dwarfed the other....

<https://newfoodeconomy.org/genetically-engineered-salmon-future-of-aquaculture-aquabounty/amp/>

The True Story of the Genetically Modified Superfood That Almost Saved Millions

FP



FOREIGNPOLICY.COM
The True Story of the Genetically Modified Superfood That Almost Saved Millions

The imperiled birth—and slow decline—of Golden Rice.

BY ED REGIS | OCTOBER 17, 2019, 10:07 AM

The cover of the July 31, 2000, edition of *Time* magazine pictured a serious-looking bearded man surrounded by a wall of greenery: the stems, leaves, and stalks of rice plants. The caption, in large block lettering, read, "This rice could save a million kids a year."

<https://foreignpolicy.com/2019/10/17/golden-rice-genetically-modified-superfood-almost-saved-millions/>

THE CONVERSATION

Because we can, does it mean we should? The ethics of GM foods

JUNE 26, 2014 4:48PM EDT



- Ethics can help here. While science determines whether we can safely modify the genetic makeup of certain organisms, ethics asks whether we should.
- ...Character or virtue-based arguments are seen in the case of golden rice – a rice strain modified to contain beta-carotene, a precursor of vitamin A.

<http://theconversation.com/because-we-can-does-it-mean-we-should-the-ethics-of-gm-foods-28141>

THE CONVERSATION

Because we can, does it mean we should? The ethics of GM foods

JUNE 26, 2014 4:48PM EDT



[Against GMO Golden Rice]

- Golden rice is a techno-scientific fix to structural problems created by some of the very companies that may profit from GM crops.
- Although golden rice is a non-profit initiative, Shiva argues that it is a trojan horse to give GM crops a humanitarian face.
- According to opponents such as Shiva, golden rice and GM crops not only pose negative consequences for farmers, environment and the global poor, but represent vices of greed, arrogance and dominance. Rather than humbly working with and caring for the natural environment, industrial and technological interventions seek to master, profit and control.

<http://theconversation.com/because-we-can-does-it-mean-we-should-the-ethics-of-gm-foods-28141>

How the Sugar Industry Shifted Blame to Fat

By ANAHAD O'CONNOR SEPT. 12, 2016



The sugar industry paid scientists in the 1960s to play down the link between sugar and heart disease and promote [saturated fat](#) as the culprit instead, newly released historical documents show. The internal sugar industry documents, recently discovered by a researcher at the University of California, San Francisco, and [published Monday in JAMA Internal Medicine](#), suggest that five decades of research into the role of nutrition and heart disease, including many of today's dietary recommendations, may have been largely shaped by the sugar industry.

Vernon L. Smith
Yesterday at 9:37am · LA Times · 📍

*The truth is that from the 1950s onward, many scientists truly believed that saturated fat and cholesterol were the primary cause of heart disease. Nutritionis...

See More



Don't scapegoat Big Sugar. Lots of food producers profited from the demonization of fat

The recent revelation that Harvard scientists were paid off to downplay sugar's harms in the 1960s shows how the food industry shockingly manipulated nutrition science...

LATIMES.COM | BY LOS ANGELES TIMES

<http://www.latimes.com/opinion/op-ed/la-oe-teicholz-big-sugar-saturated-fats-20160927-snap-story.html>

All the "carbohydrate industries" profited from the demonization of fat, exactly as anticipated. Consumption of flour and cereal products increased by 41%, including a 183% increase in products from corn. Overall, as [Americans cut their consumption of fat by 25% from 1965 to 2011, they increased carbohydrate intake by more than 30%](#).
