# A Brief History of GMOs, 1992–2021

In the nearly 30 years since GMO commodity crops hit the market, we've seen a proliferation of new and novel products made with emerging techniques — from gene-edited crops to engineered animals and everything in between.

**1992** — USDA approves first GMO crop, the Flavr Savr tomato

**1994** — USDA deregulates Monsanto's Roundup Ready® GMO soybean

**1995** — GMO summer squash becomes commercially available

**1996** — GMO corn & GMO cotton enter the market in the U.S.

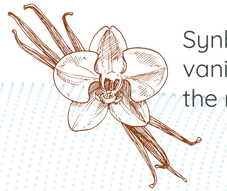
Canada becomes first country to authorize commercialization of GMO canola

**1998** — GMO papaya seeds are distributed to growers in Hawaii

**2005** — GMO Roundup Ready® alfalfa enters the market

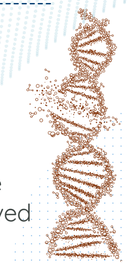
**2008** — GMO Roundup Ready® sugar beets are commercialized

**2014** — Synbio vanilla enters the market



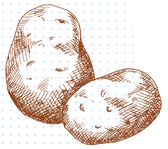
**2015** — Arctic™ Apples — created with RNAi — enter the market

AquAdvantage salmon approved by FDA

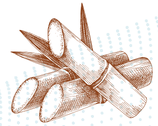


**2016** — USDA determines it won't regulate CRISPR-made non-browning mushroom

**2017** — GMO potatoes — created through RNAi — approved by the Canadian Food Inspection Agency (CFIA)



**2018** — FDA deems GMO sugarcane "generally recognized as safe"



**2019** — First gene-edited food becomes available in the U.S. — a soybean oil created with TALEN

SynBioBeta reports over 600 companies working in synthetic biology — growing 5-10% annually

**2020** — Del Monte® releases GMO Pinkglow® pineapple

GMO pig approved by the FDA for human consumption

GMO tomatoes made with CRISPR become commercially available in Japan

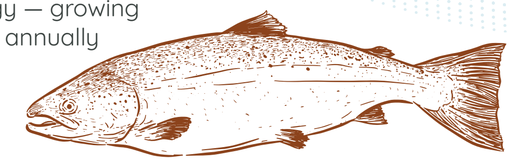
First batch of AquAdvantage salmon sold in the U.S.

Impossible™ Burger sold in restaurants. Its synbio "heme" mimics meat juices.



**2021** — GMO tomatoes made with CRISPR become commercially available in Japan

First batch of AquAdvantage salmon sold in the U.S.



**Used to make everything from flavorings to collagen, synthetic biology, or "synbio," typically refers to the use of genetically engineered microbes.**

**Roundup Ready® GMOs are engineered to withstand glyphosate-based weedkillers. Since their introduction in the 1990s, the use of glyphosate has increased 15-fold.**

**Gene editing is a rapidly emerging GMO technique that "cuts" DNA to change how an organism functions.**

NON GMO Project VERIFIED
nongmoproject.org

*To avoid GMOs, it's more important than ever to look for the Butterfly!*