

# Bill Gates “Solution: Lab-Grown Meat Is Made of Cancer Cells. Would You Like It Rare or Medium?”

USDA does not allow animal tumors to enter food chain. But lab-grown meat is made of tumor cells

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*According to Bill Gates and the World Economic Forum, ongoing global warming threatens to destroy humanity. Methane, coming from the belches and farts of cows, is a greenhouse gas (GHG). So, cows are a problem!*

Fortunately, Bill Gates has a solution for us, explained in this [video](#). We need to *stop growing cattle* and switch to lab-grown *synthetic beef*.

The World Economic Forum expects we [will eat “synthetic meat” in 16 years](#). (the article below was written 4 years ago)

# You will be eating replacement meats within 20 years. Here's why

Jun 28, 2019



Bill Gates made [sizable investments](#) in “synthetic meat” manufacturers, expecting to turn a nice profit.

CNBC DISRUPTOR 50

## Bill Gates and Richard Branson are betting lab-grown meat might be the food of the future

The CNBC article explains that “lab-grown meat,” that is, cell cultures grown in giant stainless vats, is not the same as “fake meat” made of soy or pea protein:

Vegetarians have long touted the ethical and environmental problems with meat production and consumption. Start-ups such as MosaMeat, JUST and Memphis Meats are tissue-engineering meat in a lab to allow people to enjoy being a carnivore without any of the environmental or ethical hang-ups.

Dubbed clean meat, *the efforts are distinct from “fake meat,” like the soy protein “chicken” you can find in your grocery store today. Unlike Morningstar or Boca Burgers, clean meat really is meat; it just grows in a lab instead of being part of an animal.*

Okay, but *what kinds of cells* is that lab meat grown from?

## Lab-Grown “Meat” is Made of “Immortalized” Cancer Cells

This [excellent Bloomberg article](#) ([paywall-free link](#)) clarifies that all lab meat is grown as immortalized tumor cells. As the article explains, *these same cells are used to produce traditional vaccines.*

Thank the biotech revolution. Under the right conditions, animal cells can be grown in a petri dish, or even at scale in [factories full of stainless-steel drums](#). For decades, companies such as [Pfizer Inc.](#) and [Johnson & Johnson](#) have cultured *large volumes of cells to produce vaccines, monoclonal antibodies and other biotherapeutics*. Now the idea is that we might as well [eat these cells, too](#).

What are these cells?

The big honking asterisk is that normal meat cells don’t just keep dividing forever. To get the cell cultures to grow at rates big enough to power a business, several companies, including the Big Three, are quietly using what are called [immortalized cells](#), something most people have never eaten intentionally. Immortalized cells are a staple of medical research, but they are, technically speaking, precancerous and can be, in some cases, fully cancerous.

The article puts a “human face” on some of these cell lines, for example, the “HeLa line” made from the cervical cancer of *Henrietta Lacks*:

That’s where immortalized cells come in. They’ve been used in medical research since the early 1950s, when the first and most famous immortal cell line—derived from the *cervical cancer cells of a woman named [Henrietta Lacks](#)*—was successfully grown in a lab.

The distinction between *pre-cancerous* and *cancerous* cells is relatively minor: cancerous cells, by definition, can float away from the tumor site, travel through the blood or lymph, and start a new tumor (*metastases*) in another location in the body.

The distinction is important for the clinical outcome of a patient with a newly discovered tumor but involves only a minor bio-cellular distinction.

Don’t worry: Prominent cancer researchers tell *Bloomberg Businessweek* that because the cells aren’t human, it’s essentially impossible for people who eat them to get cancer from them, or for the precancerous or cancerous cells to replicate inside people at all. ... And cow tumors sometimes [wind up](#) in store-bought ground chuck, too. [not true – tumors are NEVER allowed by USDA inspectors – see below – I.C] Of course, the facts might not matter much if ranchers or other players in the traditional meat industry felt threatened enough to declare a public-relations war. *It’s all too easy to imagine misleading Fox News chyrons about chicken tumors and cancer burgers.*

Not so misleading! The main problem of growing an endless “lab meat” supply is that *normal tissue cells cannot endlessly replicate (see above)*. There is a limit on how many times they will divide.

Vaccine manufacturers already use such immortalized tumor cells to make some Covid vaccines and other vaccines:

Today, [AstraZeneca Plc](#) and J&J's Covid-19 vaccines are grown using [immortalized human kidney and retinal cells](#), respectively.

Thus, “lab meat” and “cell line” suppliers grow meat from tumor cells that are “immortalized”; in other words, their cells can endlessly replicate. This is why cancers never stop growing, after all!

[Eat Just Inc.](#) declined to comment for this story. Believer Meats Chief Scientific Officer *Yaakov Nahmias* says that his company uses immortalized cells in its cultured chicken and that his team has *somehow, by means he says even they don't understand, created immortalized cells that don't share any genetic signatures with cancer cells.*

Are you skeptical of the above? I am. Even Bloomberg author Joe Fassler, to his credit, doubted the above explanation and asked independent biologists who also did not believe *Yaakov Nahmias's* BS:

(Two cell biologists I shared his comments with expressed skepticism.)

We can see that so far, all lab meat is made using endlessly-dividing tumor cells.

Our bodies' immune systems are designed to kill off and fight such abnormal and cancerous cells. Thus, cancers only take hold when immune systems weaken or the cancer cells learn to avoid immune reactions.

Cells become immortal in human bodies all the time, by mutating to bypass senescence—and mutating some more to evade the immune system, which generally tries to kill off such mutants.

The lab meat companies plan to sell those kinds of solid tumor cells to us to eat.

Bon appetit!

## USDA Inspectors Screen Out Cancers and Tumors in Animal Carcasses

Despite Bloomberg's restrained and soothing language, [cancers and tumors can never pass USDA meat inspections](#).

Inspectors that observe potential signs of disease or things such as cancerous lesions or tumors retain the carcasses until the public health veterinarian (PHV) inspector assigned to the establishment can make final disposition of the carcass. The PHV inspector will often send samples to a laboratory for further analysis/confirmation. A carcass remains on hold as suspect until the results of pathology return from a USDA laboratory.

Cancerous lesions or tumors are not allowed to enter commerce or the food chain. If laboratory results indicate the presence of cancer within the carcass, the carcass will be marked U.S. Inspected and condemned. Once a carcass is condemned, it is denatured and disposed of so it cannot enter the food chain.

## Clarifications

The above story applies to “lab-grown meat”: products made from immortalized animal

tumor cells growing in vats.

The “plant substitute” meat replacements, such as Beyond Meat, are based on pea or soy protein. As such, they are NOT related to these lab-grown cancer cell projects. Those *plant products* are not “meat” in any sense.

In addition, fake news websites are screaming that lab-grown meat (made of tumor cells) will give us cancer. There is no evidence that lab-grown meat will facilitate cancers. There is also no evidence that lab-grown meat will NOT cause cancers. It is simply an unknown. The USDA has a reason to reject tumor-containing carcasses, however. It is best not to make unwarranted claims, and my substack is not about making up sensationalized stuff.

### Now They Want to Sell Us Solid Tumor “Steaks”

- The Bloomberg article explains that all “lab meat” is made of tumor cells.
- At the same time, USDA regulations forbid tumors in meat supply for humans.

I am sure that one way or another, Bill Gates and the WEF will lobby for a change in rules so that they can sell us solid tumors as “lab-grown meat.”

At this point, I am torn: would I rather eat “ze bugz”, or “lab-grown tumor meat.” Or go vegetarian? A tough decision!

What would YOU choose?

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