

Le kit de viande humaine Ouroboros Steak Grow-your-own human meat n'est "techniquement" pas du cannibalisme



Jennifer Hahn | 13 novembre 2020

30 commentaires

Un groupe de scientifiques et de concepteurs américains a développé un **concept** de kit de steak pour faire pousser votre propre steak utilisant des cellules humaines et du sang pour remettre en question l'éthique de l'industrie de la viande de culture .

Ouroboros Steak pourrait être cultivé par le diner à la maison en utilisant leurs propres cellules, qui sont récoltées à l'intérieur de leur joue et nourris avec du sérum dérivé de sang expiré et donné .

Les morceaux de viande qui en résultent, actuellement exposés en tant que prototypes à l'exposition **Beazley Designs of the Year** , sont entièrement créés sans nuire aux animaux. Les créateurs ont fait valoir que cela ne pouvait pas être dit à propos de la sélection croissante de viande de culture à base de cellules animales.



Ouroboros Steak fait partie de l'exposition Beazley Designs of the Year

Bien que l'industrie de la viande de laboratoire prétende offrir une alternative plus durable et sans cruauté à l'élevage industriel, le processus repose toujours sur le sérum bovin foetal (FBS) comme complément de croissance riche en protéines pour les cultures de cellules animales.

FBS, which costs around £300 to £700 per litre, is derived from the blood of calf fetuses after their pregnant mothers are slaughtered by the meat or dairy industry. So lab-grown meat remains a byproduct of polluting agricultural practices, much like regular meat.

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World's first lab-grown steak is made from beef but slaughter-free

"Fetal bovine serum costs significant amounts of money and the lives of animals," said scientist [Andrew Pelling](#), who developed the Ouroboros Steak with industrial designer [Grace Knight](#) and artist and researcher [Orkan Telhan](#).



Human cells are fed with serum from expired blood donations

Ouroboros Steak, named after the ancient symbol of the snake eating its own tail, cuts out the need for other animals by drawing exclusively on human blood and cells.

The version on display at London's Design Museum was made using human cell cultures, which can be purchased for research and development purposes from the American Tissue Culture Collection (ATCC). They were fed with human serum derived from expired blood donations that would otherwise have been discarded or incinerated.



The grow-it-yourself kit would include mycelium scaffolds (centre) and human serum (right)

Amuse-bouche-sized steaks are preserved in resin and laid out on a plate complete with a placemat and silverware as a tongue-in-cheek nod to American diner culture.

As part of the DIY kit, the team envisions users collecting cells from the inside of their own cheek using a cotton swab and depositing them onto pre-grown scaffolds made from mushroom mycelium.

For around three months, these are stored in a warm environment such as a low-temperature oven and fed with human serum until the steak is fully grown.



For display, the bite-sized steaks are preserved in resin

"Expired human blood is a waste material in the medical system and is cheaper and more sustainable than FBS, but culturally less-accepted. People think that eating oneself is cannibalism, which technically this is not," said Knight.

"Our design is scientifically and economically feasible but also ironic in many ways," Telhan added.

"We are not promoting 'eating ourselves' as a realistic solution that will fix humans' protein needs. We rather ask a question: what would be the sacrifices we need to make to be able to keep consuming meat at the pace that we are? In the future, who will be able to afford animal meat and who may have no other option than culturing meat from themselves?"



Ouroboros Steak was previously exhibited at the Designs for Different Futures exhibition at the Philadelphia Museum of Art

Although no lab-grown meat has so far approved for sale in any part of the world, the market is estimated to be worth \$206 million and expected to grow to \$572 million by 2025, largely due to the increasing environmental and ethical concerns about the mass rearing of livestock for human consumption.

Among the companies hoping to bring cultured meat to market are Aleph Farms, which claims to have been the first company to make a lab-grown steak. Others have focused on substituting meat entirely, with Novameat creating a 3D-printed steak from vegetable proteins.

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Guest • 3 days ago

You may wanna check out the project 'mEat me'. This artist has grown, eaten and shared her own cultured meat at the beginning of the year in Ljubljana:  [mEat me \(short documentary\)](#) – [disq.us](#)

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Harald Heide Gundersen • 4 days ago • edited

Yep, definitely makes you consider going vegetarian.



^ | v • Reply • Share ›

Obama ate a dog • 6 days ago

No, even technically it is cannibalism.

^ | v • Reply • Share ›

Ashley Em • 6 days ago • edited

Did anyone else play Resident Evil 5? The zombie virus was called Uroboros in that. Just sayin'...

^ | v • Reply • Share ›

Roan C • 7 days ago • edited

Gives a whole new meaning (and possibility) to those slurs ('ah, Eat Me!', or 'Bite me!'). Or, "you eat what you are", vs "you are what you eat". Yhaw! As if (gobble! – oops, i mean, oink! – oops, I mean, moo!) – Geez! Pppppass the f'in peas, please! This Thanksgiving day (in the USA), give thanks for what you have and don't have. God how I love and miss warm homemade apple pie.

^ | v • Reply • Share ›

LoreeSelmer → Roan C • 4 days ago • edited

Pass the peas! Had to hear this again, so great:

 The JB's - Pass The Peas – disq.us

^ | v • Reply • Share ›

Barry • 8 days ago • edited

Rebranding cannibalism.

1 ^ | v • Reply • Share ›

James Hale • 10 days ago • edited

If this is real it's an abomination.

2 ^ | v • Reply • Share ›

Go low → James Hale • 7 days ago

If that meat wasn't coated in resin, I'd pop them right in my mouth, little salt and pepper, yum.

^ | v • Reply • Share ›

jb • 11 days ago • edited

This is further proof there are too many people on this planet without a meaningful occupation.

4 ^ | v • Reply • Share ›

Tadeusz Szewczyk (Tad Chef) • 12 days ago • edited



RuckusAmsel → Tadeusz Szewczyk (Tad Chef) • 12 days ago • edited

Why do you think lab-grown meat to be unethical?

1 ^ | v • Reply • Share ›

Tadeusz Szewczyk (Tad Chef) → RuckusAmsel • 8 days ago • edited

Animals still get exploited for it as they need animal tissue or stem cells from animals to grow meat from them. Eating meat is simply unnatural, no matter how you get it, as is this whole project.

Would you eat human meat and be OK with it? Can you even know for sure no humans have been slaughtered for it? You will never know given the hidden practices of the meat industry. It's like Soylent Green.

^ | v • Reply • Share ›

RuckusAmsel → Tadeusz Szewczyk (Tad Chef) • 6 days ago • edited

You're right about still requiring animals for lab meat – I must've missed that part of the article, however, to state that "eating meat is simply unnatural, no matter how you get it" is insanely ignorant to the global history of humans depending on meat for sustenance.

And it's difficult to answer your question given that we've no clue how human-grown meat would look like if brought to scale. I realize that large parts of the current meat industry have fought to keep their practices secret, but there's no reason to think the same policies would be applied should human meat replace the industry.

^ | v • Reply • Share ›

Lolo → Tadeusz Szewczyk (Tad Chef) • 7 days ago • edited

Yes I definitely would, I'd also donate samples of myself for other people to grow meat from me if they wanted to. It's a very small amount, it's not harmful, they said cheek swab or blood, less than what is donated when you give blood. I'd also eat meat grown from me, my dog, and friends and relatives. No problem as long as I enjoyed the flavor and taking samples was not painful, or minor pain only, probably easier to digest meat of yourself than other animals anyway.

^ | v • Reply • Share ›

TKO → RuckusAmsel • 11 days ago • edited

From the article:

FBS, which costs around £300 to £700 per litre, is derived from the blood of calf



people to review what the truly know about lab-grown meat as it gains popularity.

1 ^ | v • Reply • Share >

Obama ate a dog → TKO • 6 days ago • edited

No it doesn't "require" it, that is just how it is done with current production practices. Harvesting stem cells from live mothers is done all the time, and is easy, but it is not economical or necessary in the meat industry.

^ | v • Reply • Share >

Gabriela Peña Izquierdo • 13 days ago • edited

I had NO idea the lab-meat industry still needed serum... this is a great design concept.

^ | v 1 • Reply • Share >

baju-baju • 13 days ago

I love the concept.

^ | v 1 • Reply • Share >

Barry • 13 days ago • edited

"Technically" eating human meat is cannibalism...

3 ^ | v • Reply • Share >

Blue Wren • 14 days ago • edited

Good idea, but it will taste more like pork than beef.

^ | v • Reply • Share >

james • 14 days ago • edited

Finally, we can have our steak and eat it, too.

2 ^ | v 1 • Reply • Share >

JohnLakeman • 14 days ago • edited

Geez... just the headline creeps me out.

5 ^ | v • Reply • Share >

JZ • 14 days ago • edited

"Beans, beans they're good for your heart."

1 ^ | v • Reply • Share >

Don Griffiths • 14 days ago • edited

People are always tinkering with food. Nearly 30 years ago I was privileged (?) to have the opportunity to eat some lamb, ham, and chicken made entirely from soybeans. All three looked like those meat – same color, apparent textures, etc. But the taste! Terrible with an overriding



Mad people. Maybe it's time to quit postmodernity. This is already the edge.

5 ^ | v • Reply • Share >

Bobby Dazzler → Kree Pilot • 14 days ago • edited

We have a little further to go but not far. This is deprived to say the least.

1 ^ | v • Reply • Share >

baju-baju → Bobby Dazzler • 13 days ago

How is it deprived?

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