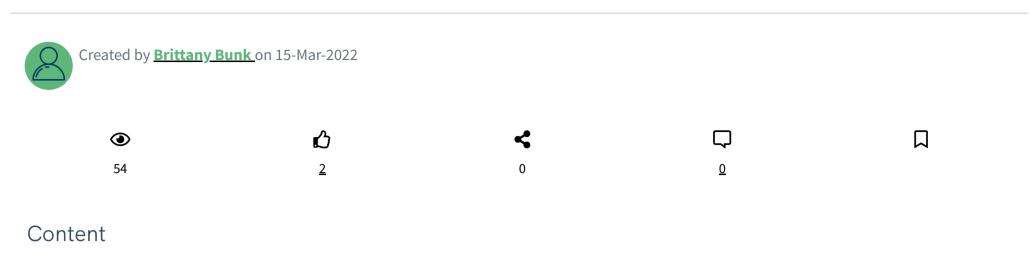
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Post: Cultured plant companies



Problem that needs a solution: growing plants to meet the vegan and environmental demand of the future.

Solution: plant-sourced cell cultures

Other names: <u>plant cell fermentation</u> (PCF)

Because animal products aren't vegan, cultured meat isn't either - the cell line comes from animals. The next step is to culture plants, to avoid harming plants and decrease the resource use to create a product.

Environmental, agricultural, social, etc. benefits:

- Plant cells are much easier to work with too, as they can "dedifferentiate to a stem cell and to grow into an entirely new, full plant" (1), unlike animal cells which are insurmountably harder to achieve this.
- We can also <u>work with endangered species</u> without the worries of eliminating them. Maybe they can even be used for resurrection and restoration to sustainable population levels!
- Avoid adulteration, especially for supplements

Benefits:

- avoid growing an entire plant just for a small part
- decrease time too
 - year-round
- no pesticides
- Grow these plants anywhere regardless of arable land amounts, climate, etc.
 - small land size which forests be rewilded then
- avoid resource-intensive bottlenecks of switching to a vegan world trying to grow all the plants to meet needs needed to replace animals too difficult to transition traditionally
- Avoid endangered species worries maybe even help bring them back

This field is just beginning:

- <u>coconut</u>
- <u>banana</u>

However, it's starting to be here! So I'm making a list, to find these companies as they pop up (* - credits to Lis Evans, also for the inspiration of this entire article):

• Food

- *<u>California Cultured</u> chocolate
- Unhwa Corporation ginseng, yew, gingko, tomato
- Clothing
 - *<u>GALY</u> cotton
- Pharmaceuticals
 - Taxol Phyton Biotech

Grow your own:

G + (

subset of cultured cells - transgenics - implanting genes from other species

- difficult trying to find a limited application and getting the plant to go towards that instead of commercializing what it's already doing like selective breeding
- plant molecular farming (also look at <u>what molecular farming is</u>, history)
 - ∘ iBio

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- o <u>Miruku</u>
- chimera same type of body part in a body, but each having different genes
 - <u>BioBetter</u>
- selective breeding like transgenics, but with no artificial genes
 - <u>Equinom</u>
 - <u>NRGene</u>

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