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Post: Cultured plant companies



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Content

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

Solution: [plant-sourced cell cultures](#)

Other names: [plant cell fermentation](#) (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 [work with endangered species](#) 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:

- [coconut](#)
- [banana](#)

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
 - *[California Cultured](#) - chocolate
 - [Unhwa Corporation](#) - ginseng, yew, ginkgo, tomato
- Clothing
 - *[GALY](#) - cotton
- [Pharmaceuticals](#)
 - [Taxol](#) - Phyton Biotech

Grow your own:



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 [what molecular farming is](#), history)
 - [iBio](#)
 - [Miruku](#)
- [chimera](#) - same type of body part in a body, but each having different genes
 - [BioBetter](#)
- selective breeding - like transgenics, but with no artificial genes
 - [Equinom](#)
 - [NRGene](#)

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