

# Cellular Agriculture

An information session on an emerging technology

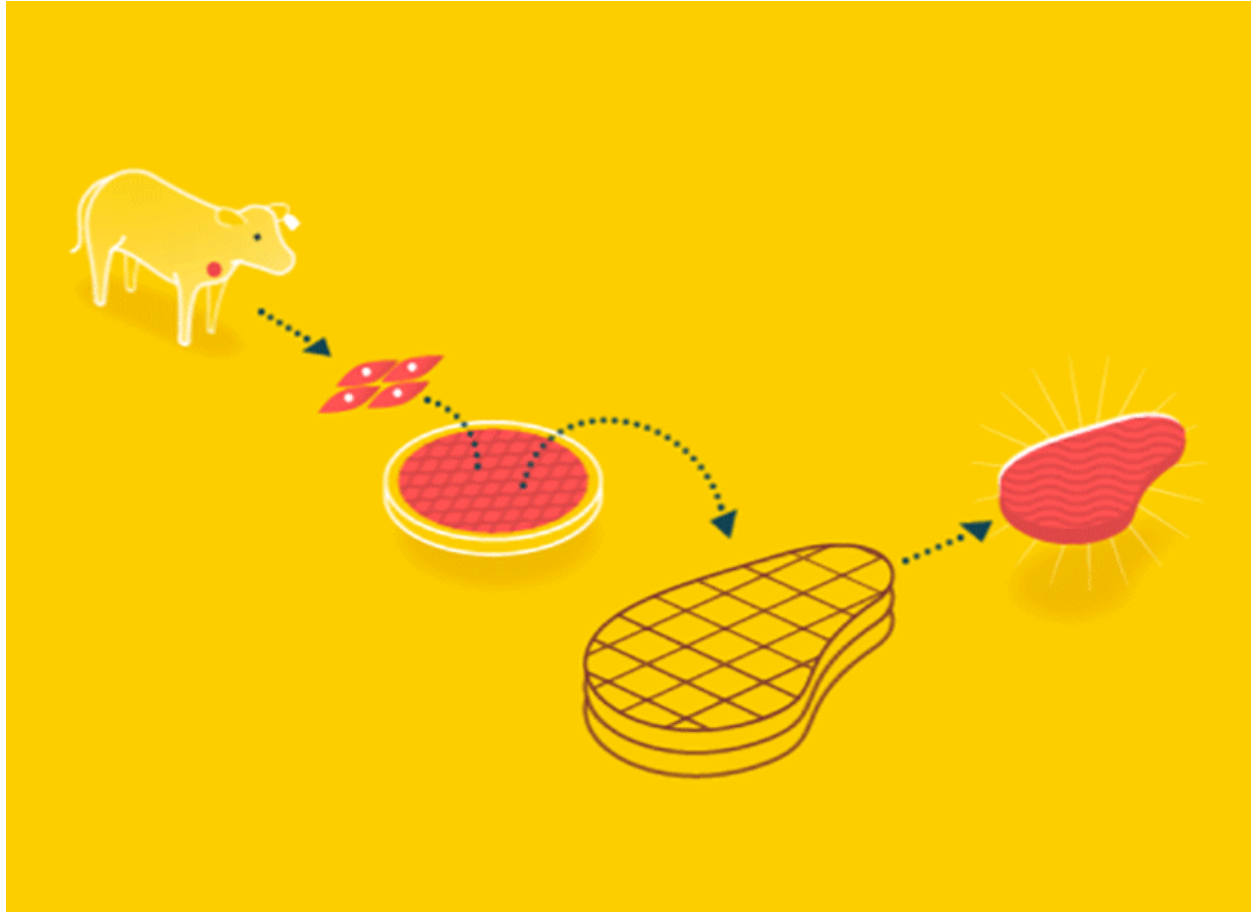
Dr. Lenore Newman  
University of the Fraser Valley



Making milk without cows shares elements with other fermentation technologies such as brewing



70% of beef in North America is consumed in the form of hamburger...



...but producing meat without animals is difficult

# Advantages

- Significant reduction in environmental impact
- Potential to eliminate factory farming conditions
- Potential for rewilding
- Health benefits from “designer” products
- Potential to improve food security in remote areas
- Could, if done correctly, spur an innovative “maker” economy – ie. Microbrewing.

# Disadvantages

- Feedstocks (sugars) come with their own problems
- Could have a profound impact on the rural landscape
- The long term consequences of GMO technologies are unclear
- If controlled by industrial agricultural companies could further centralise food system
- In many cases plant-based alternatives might be a better option.

We need to stay informed of disruptive food technologies

