

Creation of innovative food production technologies in response to environmental changes in the future

Development of Automatic Production Technology for The Best Safety Cultured Meat in the World by Tissue Engineering Approach

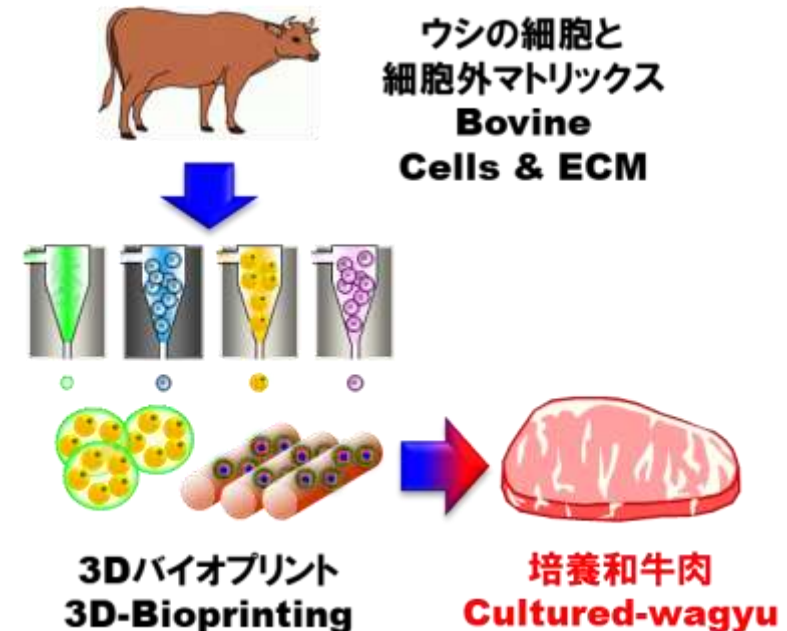
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Summary :

- Meat needs in the world will be double until 2050 due to the population increase and the improvement of quality of life in developing country. Low feed efficiency, unstable meat production, and environmental pollution by remaining feeds of bovine industry is big issue.
- Meat is constructed by cells and extracellular matrix (ECM). Cells are stably cultured by biomedical cell culture technology.
- This research focuses on the stable production of cultured wagyu by tissue engineering approach. Safe meat without infection risk will be constructed under biomedical safety culture system.
- Furthermore, to provide it to all the world, automatic production instruments will be developed under the project.
- This research is expected to contribute to SDGs [2. NO HUNGER] of United Nations.



<http://www.chem.eng.osaka-u.ac.jp/~akashi-lab/index.html>