Survey about artificial meat

Survey about Artificial Meat

* Required

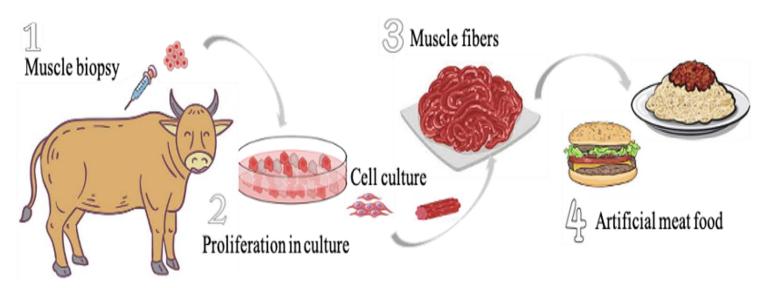
Introduction and context of the survey

Artificial meat, also known as in vitro meat, cultured meat, lab meat, clean meat and also synthetic meat, is a novel food produced in laboratories using animal muscle stem cells, but does not come directly from a living animal and which proliferate in culture. The production of artificial meat is the subject of media enthusiasm to feed the growing human population. In order to solve the increasing concerns about environment (global warming) and ethic problems (animal welfare, animal suffering and

slaughtering) but also the weaknesses of the conventional meat production (limited farming resources and ever increasing population), scientific research is devoted to introduce and develop on a large scale artificial meat as a new meat product in the future.

This study is conducted by French researchers from INRAE (Theix, 63), ISARA (Lyon, 69) and Bordeaux Sciences-Agro (Bordeaux, 33). The purpose of this survey is to study the opinion of consumers about this biotechnology and to investigate their preferences and/or their aversions. That is why you are being asked to participate in this research project by taking an online survey, which should not take more than 15 minutes of your time. In accordance with the code of ethics of survey organizations, be assured that your personal data and the information you will provide will be kept confidential and not used except within average results for the statistical objectives of the survey. You should be 18 years old at least to complete this survey, but you do not need any specific skills nor academic degrees. Clicking on the next button to access the questionnaire implies your consent to participate. However, you can stop answering the survey anytime if you like. In this case, the information you have provided will not be saved. Only the display at the end of the questionnaire after page 8 implies the archiving of information. For any questions, you can write to 'futurecellmeat@gmail.com'

Principles of artificial meat production



Demographic information

| 4 | C | * |
|----|-----|---|
| ١. | Sex | • |

Please tick only one box.

- Female
- Male Male
- Does not wish to answer

| 2. | Continent or country of origin * | | | | |
|----|---|--|--|--|--|
| | Please tick only one box. | | | | |
| | France | | | | |
| | Other countries within the European Union | | | | |
| | European countries outside the European Union | | | | |
| | China | | | | |
| | Russia | | | | |
| | Middle East and Asia excluding China and Asian Russia | | | | |
| | North America | | | | |
| | South America | | | | |
| | Africa | | | | |
| | Oceania | | | | |
| | UK | | | | |
| | | | | | |
| | | | | | |
| 3. | Age range * | | | | |
| | Please tick only one box. | | | | |
| | 18-30 years of age | | | | |
| | 31-50 years of age | | | | |
| | 51 years of age and more | | | | |

| 4. | Education * |
|----|---|
| | Please tick only one box. |
| | Primary school & High school |
| | College |
| | Master |
| | PhD (thesis) |
| | Does not wish to answer |
| | Other: |
| | |
| | |
| 5. | Activity area * |
| | Please tick only one box. |
| | Scientist within the meat sector |
| | Scientist outside the meat sector |
| | Not scientist but within the meat sector |
| | Not scientist and outside the meat sector |

| 6. | Monthly net income * |
|----|-----------------------------------|
| | Please tick only one box. |
| | <1 k yuan (155 USD) |
| | 1 k - 3 k yuan (155 - 464 USD) |
| | 3 k - 5 k yuan (464 - 773 USD) |
| | 5 k - 8 k yuan (773 - 1236 USD) |
| | 8 k - 10 k yuan (1236 - 1546 USD) |
| | >10 k yuan (1546 USD) |
| | |
| | |
| | |
| 7. | Meat consumption * |
| | Please tick only one box. |
| | Never: vegetarian or vegan diet |
| | Rarely: weekly or less |
| | Regularly: several times a week |
| | Daily or within each meal |
| | |
| | |

Preamble

| 8. | Have you ever heard about artificial meat before? * |
|----|---|
| | Please tick only one box. |
| | Yes |
| | No |
| | |
| | |
| 9. | What are the most important criteria during your food shopping? * |
| | Check all that apply |
| | Ethics (breeding systems, production methods, animal welfare) |
| | Environmental impacts |
| | Price |
| | Sensorial quality (taste, juiciness, tenderness) |
| | Aspect / Appearance |
| | Energy intake (calories) |
| | Nutritional value (proteins, vitamins) |
| | Origin and traceability |
| | Safety |
| | Marks and/or labels |
| | Other: |
| | |
| | |

Societal challenges

| Please tick only one box. | | • | • | | _ | |
|--|------------------|--------------|----------|---------|---------|---------------|
| | 1 | 2 | 3 | 4 | 5 | |
| Much less / I disagree | | | | | | Much more / I |
| | | | | | | |
| Do you think that the | on-fa | rm bre | eding a | and me | eat ind | ustry cause |
| important environme greenhouse gas emis | ntal pr sions | oblem:)? | s (e.g.h | nuge w | ater co | onsumption, |
| Please tick only one box | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | |
| Much less / I disagree | | | | | | Much more / |
| | | | | | | |
| | | المحسما | | o vou t | hink th | at reducing o |
| To deal with these po | tentia | i proble | ems, ac | , | | |
| • | | • | | • | | |
| meat consumption co | | • | | • | | |
| To deal with these po meat consumption co | | • | | • | 5 | |

| 13. | How ethical do you think artificial meat would be compared to conventional meat (e.g. able to significantly improve animal welfare, | | | | | | | | |
|-----|---|--------------------|----------|------------------|---------------------|-------------------|---------------------------------------|--|--|
| | reduce animal sufferi | ng)? | * | | | | | | |
| | Please tick only one b | 20 X . 1 | 2 | 3 | 4 | 5 | | | |
| | Much less / I disagree | | | | | | Much more / I agree | | |
| 14. | How eco-friendly do | you th | ink arti | ificial n | neat wo | ould be | e compared to | | |
| | conventional meat (e footprint of farming s greenhouse gas emis | such as | water | nifican consu | ntly red Imption | uce th n, glob | e environmental al warming effect, | | |
| | Please tick only one bo | OX. | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | |
| | Much less / I disagree | | | | | | Much more / I agree | | |
| 15. | Do you think artificial livestock farming and | d meat | | | • | • | | | |
| | Please tick only one bo | X. | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | |
| | Much less / I disagree | | | | | | Much more / I agree | | |
| | | | | | | | | | |

| 16. | Do you thin | | | | | | | | | | | |
|-----|--|-------------------|-----------------|---------|--------|---------|-------|---------|----------|-------|------------|-----|
| | and rural litth e iterrit | fe (e.g. ories | biodiv ')?.* | ersity, | touris | m, land | dscap | oe mai | nten | ance, | vitality | of |
| | Please tick o | only one | e box. | | | | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | | | | |
| | Much less / | / I disaç | jree (| | | | | | Muc | h mor | e / I agre | ee |
| Ch | naracteristic | s of the | e prodi | uct | | | | | | | | |
| 17. | How health meat would vuit amins | d be c | ompare | | • | | | _ | - | | | |
| | Please tick | only or | e box. | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | | | | |
| | Much less | | | | | | Mud | ch more | 9 | | | |
| | | | | | | | | | | | | |
| 18. | How tasty meat (i.e. s | - | | | | | | - | | | nventio | nal |
| | Please tick | only on | e box. | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | | | | | | |
| | Much less | | | | | | Mud | ch more | 9 | | | |
| | | | | | | | | | | | | |

Potential interests

| 19. | Would you accept artificial meat as a viable alternative compared to conventional meat in the future, compared toother meat substitutes (such as soy proteins) or other solutions (such as reducing food waste or developing our farming practices)? * |
|-----|--|
| | Please tick only one box. |
| | Yes and I already eat meat substitutes/alternatives |
| | Yes but I don't eat meat substitutes/alternatives |
| | No but I eat meat substitutes/alternatives |
| | No and I don't eat meat substitutes/alternatives |
| 20. | What could be the reasons for you to try artificial meat? (multiple choice) * Check all that apply. |
| | Solution to feed the ever-growing human population |
| | Attractive price compared to conventional meat |
| | Ethic (improve animal welfare and reduce animal slaughtering) |
| | Less risk of zoonosis (disease that can be transmitted from animals to people) |
| | Attractivity of high-tech technologies |
| | Clean product |
| | Eco-friendly product |
| | ☐ Curiosity ☐ I am not willing to try this product |
| | Other: |
| | |

| CHECK ALL | that apply. |
|--|--|
| Unn | atural |
| Les | s tasty/appealing |
| Wor | ries about safety |
| Mor | e expensive than conventional meat |
| Feel | ing of reluctance (disgust, nervousness) |
| Neg | ative impact on local farmers (jobs) |
| | ative impact on territories and rural life (biodiversity, tourism, landscap ance, vitality of territories) |
| Les | s trust in laboratories and artificial meat start-ups |
| Sign | ificant environmental footprints |
| Other: | |
| Other: | · |
| Other: | ould you expect from artificial meat? (multiple choice) * |
| Other: | ould you expect from artificial meat? (multiple choice) * |
| Other: | rould you expect from artificial meat? (multiple choice) * all that apply: quate nutrition by/Taste similar to conventional meat |
| Other: | rould you expect from artificial meat? (multiple choice) * all that apply: quate nutrition by/Taste similar to conventional meat |
| Other: | rould you expect from artificial meat? (multiple choice) * Il that apply: quate nutrition ty/Taste similar to conventional meat ety |
| Other: | could you expect from artificial meat? (multiple choice) * Il that apply: quate nutrition ty/Taste similar to conventional meat ety s expensive than conventional meat |
| Other: Other: Check a Ade Tas: Safe Les: Red | rould you expect from artificial meat? (multiple choice) * ** **Il that apply: quate nutrition ty/Taste similar to conventional meat ety s expensive than conventional meat s environmental footprints |
| Other: Other: | rould you expect from artificial meat? (multiple choice) * If that apply: quate nutrition ty/Taste similar to conventional meat ety se expensive than conventional meat se environmental footprints uction of farming |

| 23. | What do you think of artificial meat? * | | | | | | |
|-----|--|--|--|--|--|--|--|
| | Please tick only one box. | | | | | | |
| | It is promising and/or acceptable | | | | | | |
| | It is fun and/or intriguing | | | | | | |
| | It is absurd and/or disgusting | | | | | | |
| | | | | | | | |
| 0.4 | | | | | | | |
| 24. | Do you have emotional resistance (e.g. disgust, nervousness) to try artificial meat? * | | | | | | |
| | ai tiliciai Tileat: | | | | | | |
| | Please tick only one box. | | | | | | |
| | 1 2 3 4 5 | | | | | | |
| | Much less Much more | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 25. | Would you be willing to try artificial meat? * | | | | | | |
| | Please tick only one box. | | | | | | |
| | Definitely yes | | | | | | |
| | Probably yes | | | | | | |
| | Unsure | | | | | | |
| | Probably not | | | | | | |
| | Definitely not | | | | | | |
| | | | | | | | |

| 26. | In which context(s), would you be willing to eat artificial meat regularly? (multiple choice) * |
|-----|---|
| | Check all that apply. |
| | At the restaurant |
| | At home |
| | In ready-to-eat meals: lasagna, burger |
| | I do not want to eat artificial meat regularly |
| | Other: |
| 27. | How much would you be willing to pay for artificial meat compared to conventional meat? * Please tick only one box. Much less than conventional meat, even nothing at all |
| | Less than conventional meat |
| | Same price as conventional meat |
| | More than conventional meat |
| | Much more than conventional meat |
| | |

| 2 0. | Do you think artificial meat is realistic? |
|-------------|---|
| | Please tick only one box. |
| | On the short term: from 1 to 5 years |
| | On the medium term: from 6 to 15 years |
| | On the long term: more than 16 years |
| | Never |
| D | evelopment strategies |
| | |
| 29. | To which extent do you think that the private research model (by start- ups) is relevant for potentially developing research on artificial meat? |
| | Please tick only one box. |
| | 1 2 3 4 5 |
| | Much less Much more |
| 30. | To which extent do you think that scientific public research must invest (time and funding) to develop this biotechnology? * |
| | Please tick only one box. |
| | 1 2 3 4 5 |
| | Much less Much more |
| | |

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