



Driving Sustainable Food Systems Through Innovation: A Critical Role in Ensuring Safe and Healthy Food for All.

**EFSA Scientific Colloquium 27**"Cell culture-derived foods and food ingredients"
Brussels, 11-12 May 2023



Current trends in food production and consumption are causing the ecosystems which support humanity to collapse. But it is possible to make the shift to a more sustainable food system; all it needs is political will and evidence-based action.



Significant dietary changes will be necessary to transition to healthy diets.



More sustainable agriculture practices



Decreasing food waste



Circular economy



More sustainable farming practices



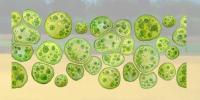
Plant based food



meat produced in bioreactors



Insects



Microalgae



## The Promises of Cell Culture-Derived Foods and Food Ingredients













Nutritious and healthy

**Animal Welfare** 

**Sustainable production** 

**Food Safety** 

**Consumer Experience** 

## Alternative proteins: how to assessing nutritional composition of cell-based foods?

**Protein quality** 

Fatty acid composition

Carbohydrate composition

Vitamins and minerals

Others bioactive compounds

Addition or supplementation of nutrients and/or compounds could change growth characteristics and overall nutritional composition in unanticipated ways;

Numerous manipulations required to generate cellbased food should be viewed in the context of discussing processed foods

