

# 1. SURVEY INFORMATION

Dear Colleague,

[The Sackler Institute for Nutrition Science](#), at the New York Academy of Sciences is implementing a global initiative to formulate an agenda for nutrition science research, in collaboration with the World Health Organization (WHO) and as part of this initiative, we are conducting a web-based consultation to identify key research topics in nutrition science, in which we would like to have your participation.

This process will take between 15 - 20 minutes.

Three broad focus areas are considered:

- **1) Environmental and societal trends affecting food and nutrition among vulnerable groups.**
- **2) Unresolved issues of nutrition in the lifecycle.**
- **3) Delivery of nutrition intervention and operational gaps.**

We are soliciting your comments on "**ENVIRONMENTAL AND SOCIETAL TRENDS AFFECTING FOOD AND NUTRITION AMONG VULNERABLE GROUPS**".

The deadline to complete the survey is **September 7, 2012** .

The Sackler Institute has compiled a series of research topics based on the preliminary work of a multi-disciplinary group of experts. In order to minimize your time commitment while optimizing your participation, we strongly encourage you to focus on two to five research gaps, based on your area of expertise.

The identified research topics will be part of the nutrition science research agenda that will be formally submitted, with supporting documents and relevant background, to the World Health Organization and will assist the WHO's efforts in the fight against malnutrition.

The additional outputs from this consultation process include an evaluation of the evidence base of top ranking research topics. Insights from the evidence base review will inform a series of white papers around the more pressing research topics that will then be published in The Annals of the New York Academy of Sciences. These white papers will be promoted as tools to guide new research endeavors and funding. The Sackler Institute and the New York Academy of Sciences will actively mobilize their resources to encourage research funding agencies, policy makers, program implementers, donors, the research community and the private sector to integrate these needs in their decision making process.

We are looking forward to your participation,

This link allows you to download the [PDF list of research themes](#). Please download this document. We recommend that you review it now and keep it open for reference.

Please, remember that:

- Your identity will be kept confidential
- You may choose to skip questions. We do encourage you to focus on your topics of expertise.

Best Regards

Mandana Arabi, MD, PhD

Director, The Sackler Institute for Nutrition Science The New York Academy of Sciences,

With

The Sackler Institute for Nutrition Science's Advisory Group: Robert Black, Francesco Branca, Kathryn Dewey, Stuart Gillespie, Chizuru Nishida, David Pelletier, Werner Schultink, Andrew Serazin and Patrick Webb

And

The Environmental and Societal Trends Working Group: Mandana Arabi, Francesco Branca, Ed Frongillo, Anna Herforth, Demetre Labadarios, Frederic Mousseau, Chizuru Nishida, Franco Sassi.

## 2. PERSONAL INFORMATION (will not be disclosed)

No names will be disclosed, this information will only help us track down the participation rate. Please indicate your e-mail and let us know if you wish to receive the consultation results. Your information will not be shared with external audiences or sold to any entities.

**\* 1. Full Name**

**\* 2. Job Title**

**\* 3. Institution**

**4. Secondary affiliation(s)**

**\* 5. e-mail**

**6. Would you like to receive the survey results via e-mail?**

yes

No

### 3. THEME 1- Inventory of models and best tools to explain macro level factors ...

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Malnutrition is an outcome of a multitude of factors which act and interact at macro-meso-micro levels. Although the frameworks for malnutrition today are reflective of such multi-level and multi-factorial nature, the analyses have not necessarily been adequate to demonstrate how these various factors come into action. Understanding macro-micro linkages are crucial for developing tools for policy formulation, impact evaluation and resource allocation, as well as for forging partnerships and alliances between government, civil society and the private commercial sector and to encourage participatory development within the context of decentralized administrative structures in today's world.

Research is needed to develop and validate innovative methods to address the following research gaps:

- **Research gap 1: Modeling the impact of economic variables on health and nutrition** outcomes using a nested model approach.
- **Research gap 2: Developing appropriate model-based analyses of supply/demand for high quality foods** (e.g. animal source foods, high vitamin A vegetables, etc.) and influence of prices, income, etc on the changes in individual consumption, supported by nested models where the outputs from one model become the inputs in the other.
- **Research gap 3: Structuring multi-disciplinary alliances** including climate change researchers; health system experts; economists; urban engineers etc.

#### **\*7. Would you like to comment on these research gaps?**

- Yes
- No

## 4. 1) Research gap 1: Modeling the impact of economic variables on health and ...

Using a **nested model approach** to model the impact of economic variables on health and nutrition outcomes would help describe and connect the various elements of the chains that link food production to health.

Such analyses require complex system methods such as computable general equilibrium approaches or dynamic micro simulation. There is a need to assess the strengths and weaknesses of these models, and how they link together using a nested model approach.

Please answer the following questions about **Research gap 1: Modeling the impact of economic variables on health and nutrition outcomes using a nested model approach**.

### 8. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 9. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 10. Are you currently involved in any research that is addressing this topic?

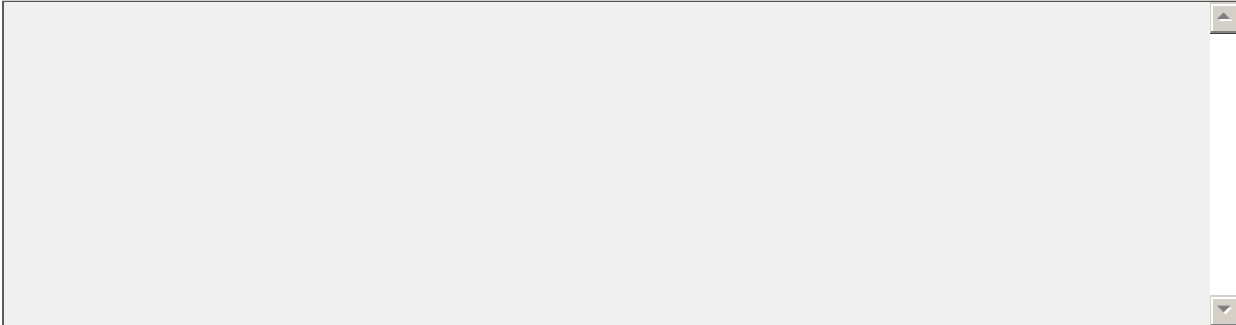
- Yes  No

If yes, please provide details.

**11. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 5. 2) Research gap 2: Developing model-based analyses of supply/demand for high quality foods for high...

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How to develop appropriate model-based analyses of supply/demand for high quality foods (e.g. animal source foods, high vitamin A vegetables, etc.) and influence of prices, income, etc on the changes in individual consumption, supported by nested models where the outputs from one model become the inputs in the other.

### 12. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 13. Does this research topic accurately reflect an existing gap in the field?

Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 14. Are you currently involved in any research that is addressing this topic?

Yes  
 No

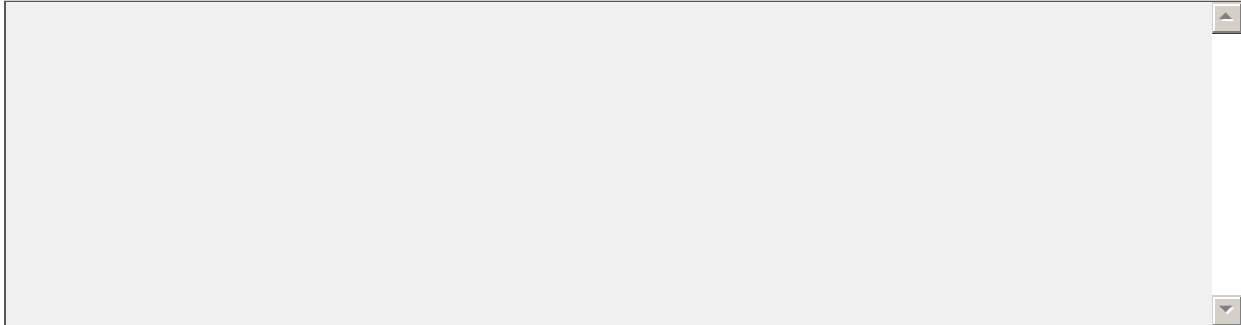
If yes, please provide details.

**15. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

Yes

No

Please, provide reference(s)





## 6. 3) Research gap 3: Structuring multi-disciplinary alliances

There is a need to build a coalition including climate change researchers; scientists working on health system strengthening; economists evaluating the cost of the double burden and cost efficient interventions; environmental and urban engineers who must translate knowledge about the physical environment into new designs.

Please answer the following questions about **Research gap 3: Structuring multi-disciplinary alliances**.

### 16. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 17. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase it to reflect a research gap?

### 18. Are you currently involved in any research that is addressing this topic?

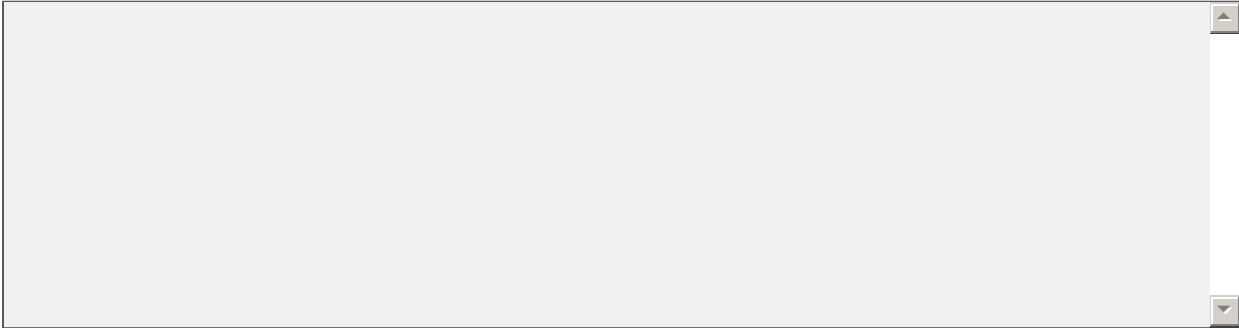
- Yes  
 No

If yes, please provide details.

**19. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 7. THEME 2- Economic & Environmental Trade-offs with policies to promote huma...

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Little change is likely without a clear understanding of the economic effects of a nutrition-oriented production model, including the costs and cost-effectiveness of meeting economic goals alongside nutrition goals, compared to business as usual. Similarly, foreign direct investments are not typically made with nutrition improvements as a goal; however, it is important to understand their impact on nutrition, health, and agriculture outcomes for the poor. Understanding the consequences of livelihoods shifts on nutritional status (such as from family farming to wage labor) would also be beneficial for rural development efforts. Effect of production policies on environmental resources is also related to nutrition.

Research is needed to develop and validate innovative methods to address the following research gaps:

- **Research gap 4: Describing links between socio-economic status and nutritional status**
- **Research gap 5: Overall effectiveness of a nutrition-oriented food supply and food production model**
- **Research gap 6: Economic trade-offs in terms of nutrition and how they can be influenced**

**\*20. Would you like to comment on these research gaps?**

- Yes
- No

## 8. 4) Research gap 4: Links between socio-economic status and nutritional stat...

In general, data has been quite limited on intricacies of income levels, and many analyses deal with averages, which is limited in teasing out within-population differences.

What are the **limitations in available data** and current emphasis on averages that restrict the analysis, particularly to establish causality?

There is a knowledge gap in mapping out food insecurity, vulnerability to economic shocks and livelihoods characteristics (including shift from family farming to wage labor in agriculture) and their consequences for nutritional status. For instance, what are the differential effects of cash transfer programs in a context of food crisis on men and women, across countries and income percentiles?

Analysis would also entail some analysis and definition for the word "vulnerability": income (absolute or relative; using income gradients rather than cut-offs).

Please answer the following questions about **Research gap 4: How to describe the links between socio-economic status and nutritional status and how to overcome the limitations in available data to establish causality?**

### 21. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 22. Does this research topic accurately reflect an existing gap in the field?

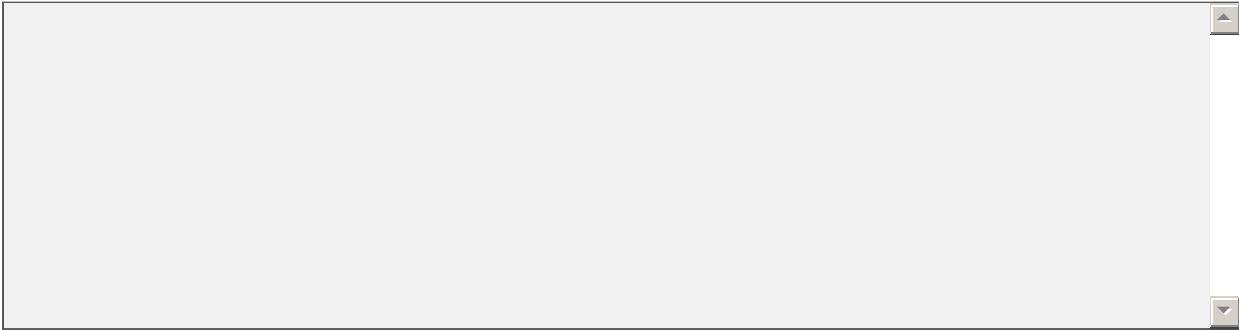
Yes  No

If NOT, how would you reformulate or rephrase this topic to better reflect a research gap?

**23. Are you currently involved in any research that is addressing this topic?**

- Yes
- No

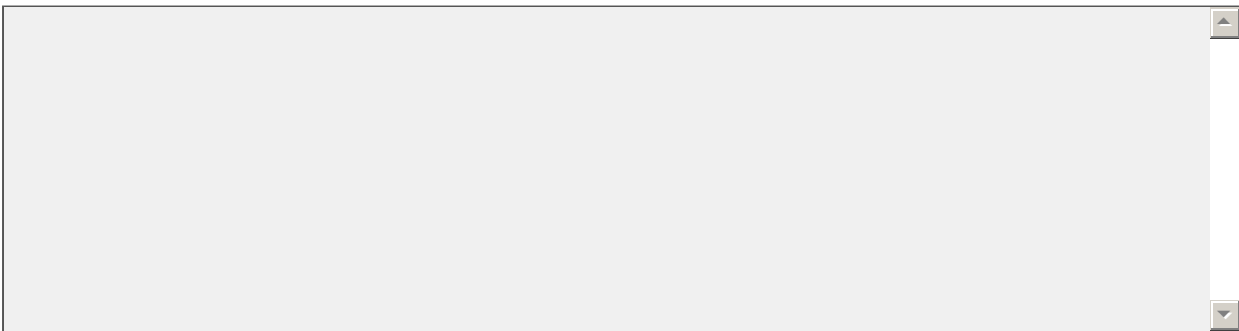
If yes, please provide details.



**24. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 9. Research gap 5: Effectiveness of a nutrition-oriented food supply and food ...

This question includes individual and national-level trade-offs to meet economic and production goals alongside nutrition goals, encompassing the measurement of costs, cost-effectiveness and overall effectiveness. How to develop evaluation frameworks that show effectiveness and cost effectiveness, feasibility and affordability, and allow for decision-making on 'good buys' and 'best buys' in terms of overall impact on health, not just economic factors.

Please answer the following questions about **Research gap 5: What is the overall effectiveness of a nutrition-oriented food supply and food production model?**

### 25. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 26. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase it to reflect a research gap?

### 27. Are you currently involved in any research that is addressing this topic?

- Yes  No

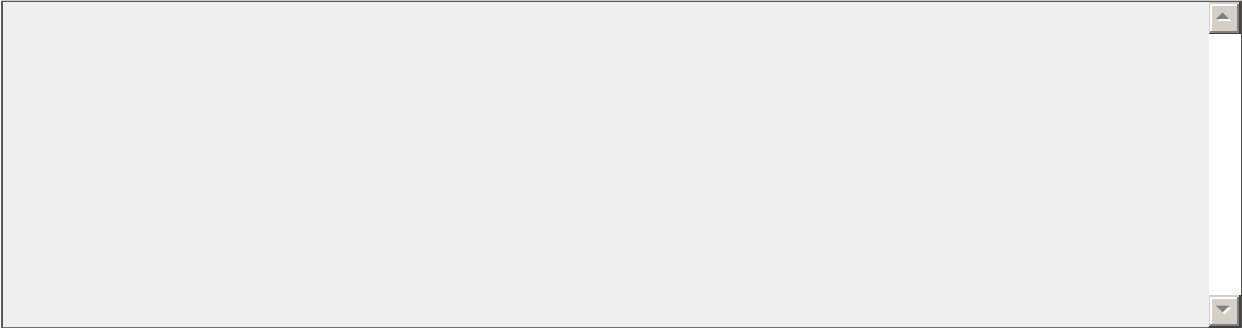
If yes, please provide details.

**28. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

Yes

No

Please, provide reference(s)



## 10. Research gap 6: Measuring economic trade-offs in terms of nutrition, and ho...

How can we measure economic trade-offs and co-benefits in terms of nutrition? For instance, what is the impact of investment, particularly foreign direct investment, on the nutrition and agricultural sector and on health outcomes? How to identify potential opportunities for double wins across sectors that come hand in hand with nutritional intervention, and reduce the risks of negative trade-offs?

Please answer the following questions about **Research gap 6: How to measure economic trade-offs in terms of nutrition, and how can they be influenced?**

### 29. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 30. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 31. Are you currently involved in any research that is addressing this topic?

- Yes  
 No

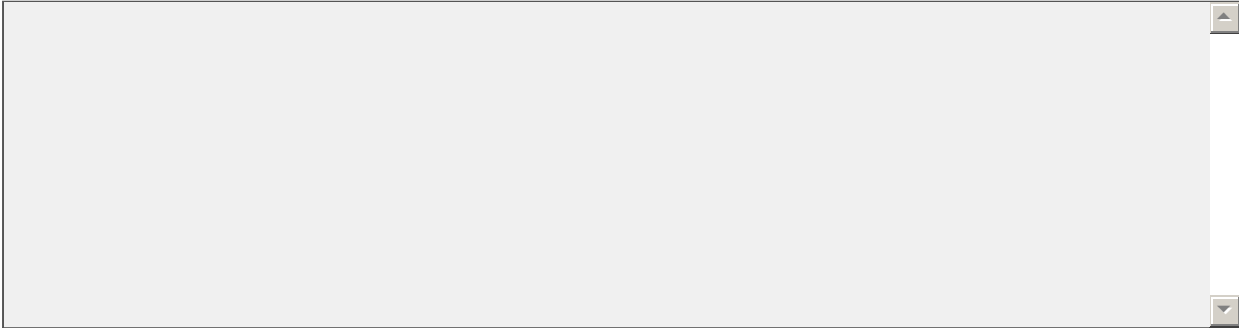
If yes, please provide details.



**32. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 11. THEME 3- Food systems and nutrition

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The concept of food system refers to the production, processing and distribution mechanisms, through which a population obtains its food. These mechanisms are inter-connected at the local, national, regional and international levels so that any modifications may have repercussions on a population's dietary intake. Yet, the pathways and levels through which such changes affect nutrition are unclear. Differentiated adjustments in consumption patterns and substitution effects following a price change are not well understood. Similarly processing, storing, marketing and consumption patterns at home and outside impact the quality of the dietary intake in ways that are difficult to measure and also hard to influence. This gap in knowledge is a barrier to effectively guiding policies in terms of food production subsidies, consumption taxes and similar potential policy solution for malnutrition (both over- and undernutrition).

Research is needed to develop and validate innovative methods to address the following research gaps:

- **Research gap 7: Analyzing the coherence of policies for nutrition goals** alongside economic and environmental goals
- **Research gap 8: Commodities:** Analyzing the various groups of commodities and how their production, processing, supply and distribution influence the population's nutritional status.
- **Research gap 9: Demonstrating the link between agricultural diversity and dietary diversity**

**\*33. Would you like to comment on these research gaps?**

- Yes
- No

## 12. Research gap 7: Coherence of policies for nutrition goals alongside economic...

What are the effects of government policies and subsidies for production, internal trade and import/export on both the supply and demand sides of the food system and the impacts on nutrition? Are dietary guidelines and recommendations economically viable and environmentally sustainable?

Please answer the following questions about **Research gap 7: Analyzing the coherence of policies for nutrition goals alongside economic and environmental goals**

### 34. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 35. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 36. Are you currently involved in any research that is addressing this topic?

- Yes  
 No

If yes, please provide details.

**37. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 13. Research gap 8: Commodities and influence on nutritional status

Sub-groups of commodities (livestock- including dairies- & Fisheries, Fruits & Vegetables, Staples& Sugar) have diverse nutritional benefits along with environmental, production and distribution and constraints. There is a need to explore how their interactions as well as relative importance in the population's diet have an impact on nutritional status. This would help determine how food production and nutritional recommendations formulated by policy makers to consumers can be better aligned.

Given its multi-dimensional aspect, **Research gap 8 was broken down in 4 sub-questions.**

- - 8-1: How to evaluate the impact of **consuming each commodity group on the population's health and nutritional outcomes** ? What are the observed effects of different food commodity groups on health?
- -8-2: What are the effects of the changes and differences between **commodity and food prices** for each of the commodity groups on nutritional status (including substitution effects and differential impacts on various subgroups), in the short, medium and long term. What is the impact of trends in food commodity prices on health and nutrition in both the short and long terms?
- -8-3 What are the effects of **marketing and distribution strategies** for each of the commodity groups on nutritional status (in terms of accessibility and availability, including substitution effects and differential impacts on various subgroups), in the short, medium and long term?
- -8-4: How to integrate and carry out an independent, objective and robust **evaluation of the effect of private sector initiatives in the field of nutrition**? What are the mechanisms and effects of these initiatives on nutritional status and which approaches are most cost-effective and effective for improving nutrition?

### 38. Among the following sub-topics, indicate which ones are relevant to the identifications of research gaps describing the connection between commodities and nutritional status

	Relevant to the research gap	Not relevant to the research gap
8-1: Impact of consuming different commodity group on the population's health and nutritional outcomes?	<input type="radio"/>	<input type="radio"/>
8-2: Effects of changes and differences between commodity and food prices on nutritional status	<input type="radio"/>	<input type="radio"/>
8-3: Effects of marketing and distribution strategies for each of the commodity groups on nutritional status	<input type="radio"/>	<input type="radio"/>
8-4: Evaluating the effect of private sector initiatives in the field of nutrition	<input type="radio"/>	<input type="radio"/>

### 39. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**40. Does this research topic accurately reflect an existing gap in the field?**

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

**41. Are you currently involved in any research that is addressing this topic?**

- Yes  
 No

If yes, please provide details.

**42. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes  
 No

Please, provide reference(s)

## 14. Research gap 9: Demonstrating the link between agricultural diversity and d...

How to demonstrate the link between agricultural diversity and dietary diversity and quality in different ecosystems and country contexts, and supporting efforts to evaluate the nutritional (and phyto-chemical) content of crop varieties and cultivars?

Please answer the following questions about **Research gap 9: Demonstrating the link between agricultural diversity and dietary diversity and quality.**

### 43. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 44. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 45. Are you currently involved in any research that is addressing this topic?

- Yes  
 No

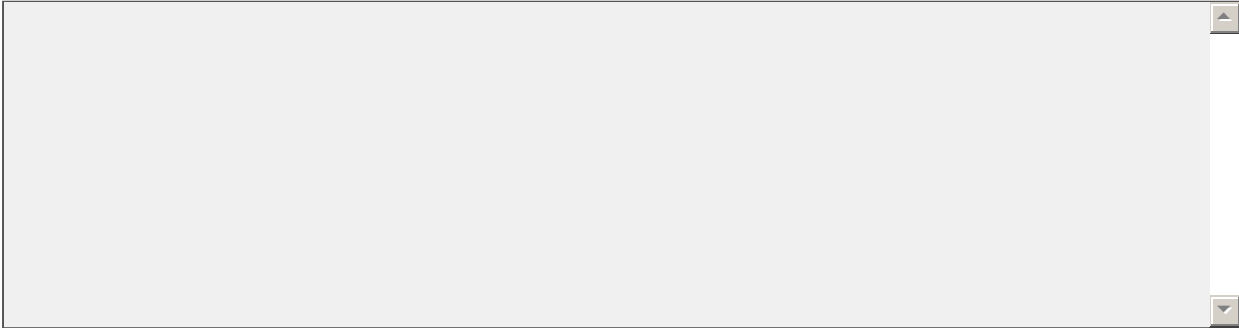
If yes, please provide details.

**46. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

Yes

No

Please, provide reference(s)





## 15. THEME 4-Individual and household-level factors underlying nutritional outco...

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Research is needed to develop and validate innovative methods to address the following research gaps:

- **Research gap 10: Migration and migrants' nutritional status**
- **Research gap 11: Women's empowerment and nutritional status**
- **Research gap 12: Incentives to economically vulnerable groups to influence food habits in the contexts of the global nutrition transitions**

**\*47. Would you like to comment on these research gaps?**

Yes

No

## 16. Research gap 10: Impact of various types of migration on access to food and...

Please answer the following questions about **Research gap 10: Is there an impact of various types of migration and migration status on the migrants' access to food, food choices and nutritional status?**

### 48. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 49. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 50. Are you currently involved in any research that is addressing this topic?

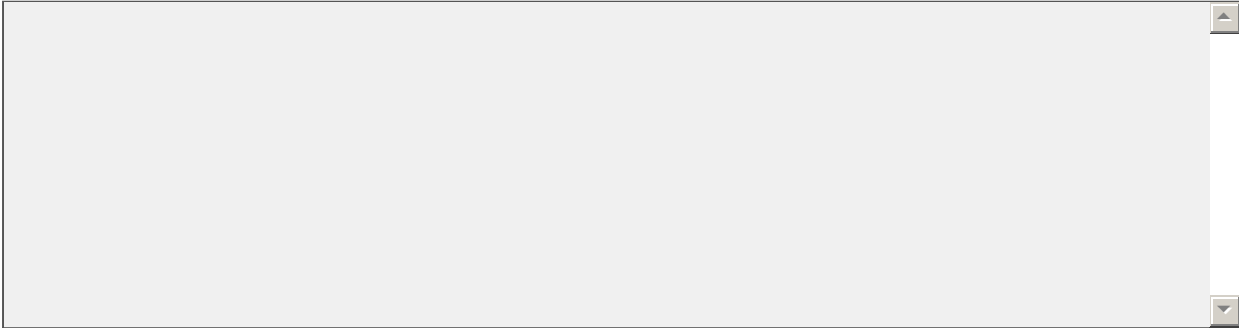
- Yes  
 No

If yes, please provide details.

**51. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 17. Research gap 11: Women's empowerment and nutritional status

Please answer the following questions about **Research gap 11: How to connect women's empowerment** (in terms of having the economic power to make decisions at the household level, as well as the role they play in agriculture and food production) with **enhanced nutritional status for women and children** ? What is the state of the evidence and indicators to measure this complex construct?

### 52. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 53. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 54. Are you currently involved in any research that is addressing this topic?

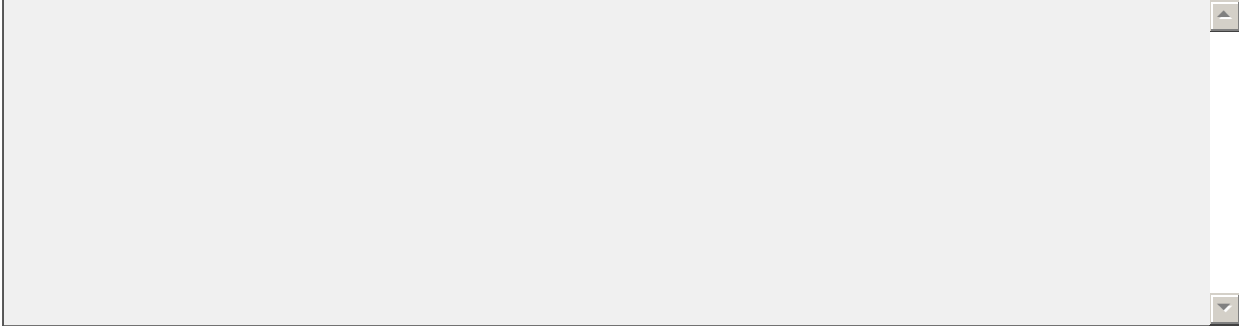
- Yes  
 No

If yes, please provide details.

**55. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 18. Research gap 12: Incentives to influence food habits among vulnerable group...

Please answer the following questions about **Research gap 12**: In addressing the global nutrition transition, various determinants influence changing dietary habits and food choices. How to identify **incentives for economically vulnerable groups to spend the resources (including time) to obtain healthy diets?**

### 56. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 57. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 58. Are you currently involved in any research that is addressing this topic?

- Yes  
 No

If yes, please provide details.

**59. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)

## 19. THEME 5- Climate change, population trends and environmental sustainability

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While researchers regularly attempt to predict long term consequences of various global trends, the question of how soon those models become obsolete remains. What are the needs in terms of revisiting the following research:

- **Research gap 13: Developing more integrated nutrition-centered approaches to predicting the effect of climate change**
- **Research gap 14: Expected consequences of important shifts in socio-demographic population profile on nutrition**

**\* 60. Would you like to comment on these research gaps?**

- Yes
- No



## 20. Research gap 13: Integrated nutrition centered approaches to predicting the...

Please answer the following questions about **Research gap 13**: How to develop more **integrated nutrition-centered approaches to predicting the effect of climate change** on access to water, sanitation, and food production, accessibility, consumption and nutritional outcomes.

### 61. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 62. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 63. Are you currently involved in any research that is addressing this topic?

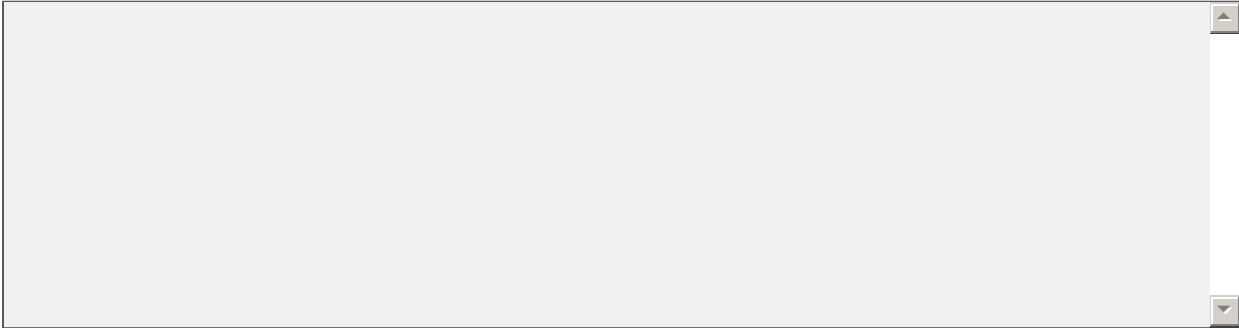
- Yes  
 No

If yes, please provide details.

**64. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 21. Research gap 14: Consequences of shifts in socio-demographic population pro...

Please answer the following questions about **Research gap 14**: What are the most important shifts in the socio-demographic profile of the population at the global level (such as population growth, changes in fertility levels, age distribution, gender balance, urbanization) in the coming years and decades; and what are the expected consequences on nutrition?

### 65. How would you grade this research gap?

	Not a priority	Low priority	Medium priority	High priority	I Don't Know
Level of priority given the need to develop the knowledge base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of priority given the potential impact of additional research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 66. Does this research topic accurately reflect an existing gap in the field?

- Yes  No

If NOT, how would you reformulate or rephrase this topic to reflect a research gap?

### 67. Are you currently involved in any research that is addressing this topic?

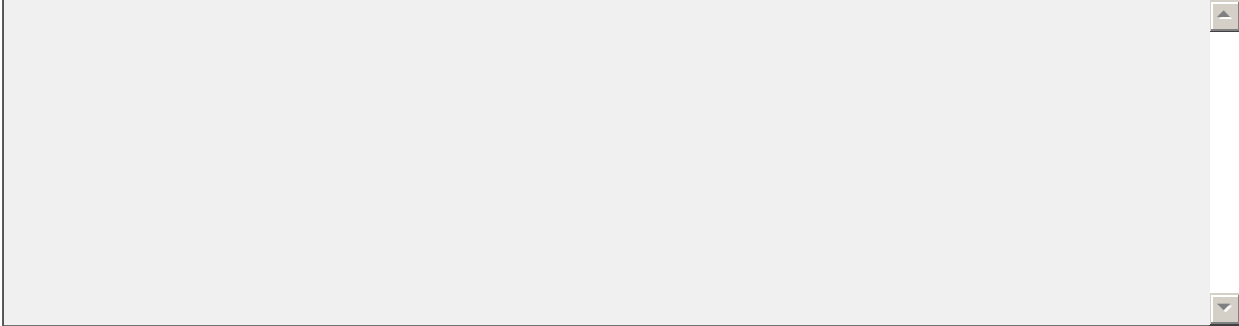
- Yes  
 No

If yes, please provide details.

**68. Do you have any knowledge of existing or emerging research that may already address this topic—either partially or fully?**

- Yes
- No

Please, provide reference(s)



## 22. SURVEY CONCLUSION

Now that you have completed the survey and are familiar with the research gaps, we would like to have your perspective about which themes should be considered in priority.

By providing justifications to your choice, you will also help the group consider what are key criteria to take into account in making a selection.

### 69. Select the three research gaps which you feel should be addressed in priority?

	1st choice	2nd choice	3rd choice
Gap 1: Impact of economic variables on health and nutrition using with a nested model approach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 2: Model-based analyses of supply/demand for high quality foods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 3: Structuring multi-disciplinary alliances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 4: Links between socio-economic status and nutritional status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 5: Overall effectiveness of nutrition-oriented food supply and food production model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 6: Measuring economic Trade-offs in terms of nutrition and how they can be influenced	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 7: Coherence of policies for nutrition goals alongside economic and environmental goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 8: How the production, processing, marketing supply and distribution of commodities influence nutrition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 9: Demonstrating the link between agricultural diversity and dietary diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 10: Impact of various types of migration and migrants' status on nutrition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 11: Connecting women's empowerment to women and children's nutritional status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 12: Incentives for economically vulnerable groups to obtain healthy diets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 13: Developing integrated nutrition-centrered approaches to predicting the effect of climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap 14: Expected consequences of changes in socio-demographic profile on nutrition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**70. Regarding existing knowledge on environmental and societal trends affecting nutrition, are there other insufficiently explored topics that you feel should be addressed in priority?**

- Yes
- No

If Yes, which one(s)? (Please provide a brief rationale, preferably with cit-able references)

