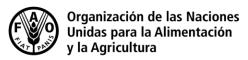
COMISIÓN DEL CODEX ALIMENTARIUS





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Tema 9 del programa

CX/CAC 23/46/22

PROGRAMA CONJUNTO FAO/OMS SOBRE NORMAS ALIMENTARIAS COMISIÓN DEL CODEX ALIMENTARIUS Cuadragésimo sexto período de sesiones Sede de la FAO, Roma (Italia) 27 de noviembre – 2 de diciembre de 2023

Fuentes de alimentos y sistemas de producción nuevos (FASPN)

1. ANTECEDENTES

- 1.1 La Comisión del Codex Alimentarius, en su 45.º período de sesiones¹, examinó el informe del Subcomité Ejecutivo sobre fuentes de alimentos y sistemas de producción nuevos² (FASPN). Este tema se debatió con motivo del 44.º período de sesiones de la Comisión, y de las reuniones 82.ª y 83.ª del Comité Ejecutivo, y surgieron dos opiniones sobre posibles enfoques:
 - Dada la complejidad y diversidad de las FASPN y a fin de prepararse de forma proactiva para el futuro del Codex, se podrían facilitar debates ulteriores sobre las FASPN en un grupo de trabajo electrónico bajo los auspicios de la Comisión.
 - Los mecanismos existentes en el Codex son suficientes para abordar cualquier propuesta de trabajo nuevo sobre las FASPN. Los miembros del Codex deberían presentar propuestas de trabajos nuevos con temas concretos al Codex sobre cuya base se podrían examinar mecanismos de trabajo con mayor detenimiento.
- 1.2 Aunque la Comisión, en su 45.º período de sesiones, reconoció la importancia de que el Codex trabajara de manera flexible y oportuna a la hora de examinar las FASPN como un tema importante en la elaboración de normas internacionales encaminadas a proteger la salud del consumidor y garantizar prácticas justas en el comercio de alimentos, no se llegó a un acuerdo sobre la mejor manera de proceder o sobre la necesidad de contar con un nuevo mecanismo de coordinación en relación con la labor del Codex sobre las FASPN.
- 1.3 Por lo tanto, se acordó recabar comentarios adicionales de los miembros y observadores con miras a determinar posibles cuestiones relacionadas con las FASPN que la estructura y procedimientos actuales no pudiesen abordar, así como opciones para abordarlas, a efectos de someterlas a debate durante el 46.º período de sesiones de la Comisión.
- 1.4 En el Apéndice I se recopilan las observaciones recibidas en respuesta al documento CL 2023/31/OCS-CAC de 21 miembros y cuatro observadores. Se expresaron diversas opiniones en respuesta a la carta circular, que se resumen a continuación.

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¹ REP22/CAC, párrs. 23-31

² CX/EXEC 22/83/4

2. VISIÓN GENERAL DE LAS OBSERVACIONES RECIBIDAS

2.1 Observaciones generales:

 Sigue habiendo divergencia de opiniones sobre la necesidad de crear un comité, un grupo de acción o un grupo de trabajo electrónico para abordar las solicitudes de realizar trabajos nuevos en la esfera de las FASPN. Algunos miembros/observadores (la mayoría) lo consideran necesario, mientras que otros sostienen que la actual estructura del Codex es capaz de abordar las FASPN y está en condiciones de hacerlo.

- Se mencionaron el Comité Ejecutivo y la Comisión en el marco de la estructura ya existente como posibles receptores de solicitudes futuras y se señaló que ya se había presentado una propuesta al Comité del Codex sobre Nutrición y Alimentos para Regímenes Especiales.
- Quienes señalaron la necesidad de contar con un espacio nuevo dedicado exclusivamente a las FASPN mencionaron la posible creación de un comité, un grupo de acción o un grupo de trabajo electrónico como alternativas.
- Un miembro expuso el mandato de un nuevo grupo de acción intergubernamental especial para las FASPN.

2.2 Observaciones específicas

 a) Sírvanse señalar temas específicos de las FASPN que requieran la elaboración de una norma, directriz o código de prácticas del Codex, pero que no se puedan desarrollar utilizando la estructura y procedimientos actuales del Codex para el establecimiento de normas.

Los siguientes temas relacionados con las FASPN se identificaron como esferas en las que sería adecuada una norma del Codex:

- Un nuevo sistema para la nomenclatura de alimentos producidos a base de algas.
- Una norma para prestar asistencia en las medidas de mitigación a fin de reducir o prevenir posibles peligros de inocuidad alimentaria relacionados con los sistemas de producción de proteínas de algas que pueden afectar a la salud de los consumidores.
- Buenas prácticas para la cadena de cultivo de algas.
- La utilización de nanomateriales en los alimentos como aditivos.
- Orientación sobre la aprobación de nuevos ingredientes y nuevas tecnologías. Eso incluye tecnologías como la agricultura celular (ingeniería de tejidos y fermentación de precisión) e ingredientes nuevos que se producen utilizando esas tecnologías.
- Una norma general o un conjunto de normas para los insectos comestibles que incluya: una definición de los insectos comestibles, los tipos y la variedad de insectos comestibles que pueden utilizarse, directrices para las instalaciones y el equipo destinado a la obtención, la producción, el procesado y el almacenamiento de insectos comestibles, directrices para la gestión de la producción y la higiene, normas para los residuos de plaguicidas y los medicamentos veterinarios, y normas para los procesos de manufactura y los métodos de almacenamiento a fin de prevenir la ranciedad.
- En cuanto a los alimentos producidos a base de cultivos celulares con un gran potencial de crecimiento en el mercado, la necesidad de elaborar criterios con respecto a las enfermedades, el contagio y la contaminación por medio de microorganismos presentes en el cadáver del organismo de origen; norma o normas para residuos como los antibióticos, las hormonas y los plaguicidas; norma o normas para comparar y analizar la equivalencia de los genomas, los proteomas y los metabolitos entre las células de origen y las células cultivadas en cada proceso de fabricación y para evaluar las alergias; normas para evaluar la equivalencia genética entre las células de origen y las células cultivadas en cada proceso de fabricación; directrices para la equivalencia genética entre las células de origen y las células cultivadas en cada proceso de fabricación, así como directrices para la gestión de los factores de riesgo (incluidos los alérgenos) que pueden surgir cuando existen diferencias genéticas.
- La armonización de terminologías para los productos alimenticios derivados de las FASPN.

 Las buenas prácticas en el almacenamiento, el transporte y la producción de los productos alimenticios derivados de las FASPN.

- El análisis de los riesgos para los productos alimenticios derivados de las FASPN.
- Orientación sobre la aprobación de los ingredientes nuevos y las tecnologías nuevas.
- Especificaciones sobre la calidad y la inocuidad de las FASPN para los sistemas nacionales de control de los alimentos.
- b) Sírvanse describir los desafíos/deficiencias que en su opinión impiden que el sistema actual aborde los temas específicos determinados para las FASPN, así como los posibles enfoques que permitan abordarlos.
 - Entre las razones que explican por qué no se abordan los problemas relacionados con las FASPN, se mencionaron las siguientes:
 - La falta de una definición clara de las FASPN
 - La novedad
 - El bajo volumen de comercio
- c) En las deliberaciones sobre las FASPN, ¿consideran que hay aspectos pertinentes para el establecimiento de normas que la Comisión del Codex Alimentarius todavía no haya examinado? En caso afirmativo, sírvanse determinar y explicar los elementos que consideren clave.
 - En la mayoría de las respuestas se observó que no hay ningún aspecto pertinente que la Comisión no haya examinado en relación con las deliberaciones sobre las FASPN. Quienes mencionaron que hay cuestiones que no se han abordado, hicieron referencia a las deliberaciones para reflejar la sensibilización de los consumidores, las cuestiones éticas y la relación entre las FASPN y otros factores legítimos.
- d) ¿Tienen previsto proponer algún tema relacionado con las FASPN para su consideración por el Codex a corto o medio plazo? En caso afirmativo, sírvanse indicar el tema o los temas y la posible vía por la que presentarían la propuesta o las propuestas (por ejemplo, un comité específico o el Comité Ejecutivo).
 - Algunos miembros mencionaron la posibilidad de presentar distintos temas relacionados con las FASPN como nuevos trabajos.
 - Algunos miembros mencionaron la intención de presentar trabajos nuevos relacionados con las FASPN, mientras que un miembro señaló que eso ya lo habían hecho en un Comité del Codex existente (Comité sobre Nutrición y Alimentos para Regímenes Especiales).
 - La mayor parte de los miembros observaron que no prevén presentar trabajos nuevos sobre las FASPN a corto plazo.
 - Algunos miembros indicaron que presentarán temas en cuanto haya un órgano dedicado específicamente a las FASPN.

3. ANÁLISIS DE LAS OBSERVACIONES EN EL CONTEXTO DE LOS PROCEDIMIENTOS Y LAS PRÁCTICAS EXISTENTES

3.1 En las observaciones, se pone de relieve que los miembros pueden efectivamente presentar propuestas de trabajos nuevos que entrarían en la categoría de las FASPN, y ya se ha presentado una al Comité sobre Nutrición y Alimentos para Regímenes Especiales. No obstante, hay divergencia de opiniones sobre la forma en que el Codex puede abordar esas propuestas. El establecimiento de un nuevo mecanismo de trabajo en el Codex no debe tomarse a la ligera, puesto que conlleva un costo no solo para un posible país huésped, sino para todos los miembros, observadores y la Secretaría del Codex. El Codex ya tiene un calendario apretado de reuniones, con lo que añadir más reuniones a ese calendario debería basarse, a ser posible, en propuestas de trabajos claramente formuladas que la Comisión decida que no puede abordar ningún órgano auxiliar del Codex.

3.2 Como el Codex ha demostrado en el pasado, cuando existe una necesidad claramente definida de establecer, por ejemplo, un grupo de acción especial, ha tomado la decisión de establecerlo asegurándose de que cuenta con un claro mandato. Puede que en el futuro un enfoque de esa índole sea el medio adecuado para abordar las FASPN. Sin propuestas claras de trabajos, resulta difícil evaluar la necesidad de establecer un nuevo mecanismo de trabajo en el marco del Codex. Teniendo en cuenta que algunos Miembros indicaron su intención de presentar propuestas, es posible que en un futuro cercano esté más claro el papel que puede desempeñar el Codex con respecto a las FASPN. Actualmente, en el marco del Codex, es posible presentar trabajos nuevos a través de un comité existente o directamente al Comité Ejecutivo y la Comisión para su consideración. En última instancia, corresponde a la Comisión determinar cómo y dónde debe llevarse a cabo cualquier trabajo nuevo. Por consiguiente, el momento más adecuado para considerar el mecanismo de trabajo, sea uno ya existente o uno nuevo, probablemente sea cuando esté clara la naturaleza del trabajo que debe llevarse a cabo, lo que puede lograrse mediante documentos de debate y propuestas de trabajos nuevos.

- 3.3 En el marco del Codex, la elaboración de documentos de trabajo antes de los documentos de proyectos ha demostrado ser un enfoque valioso para estudiar la necesidad de una norma del Codex en una esfera temática concreta. Estos documentos pueden someterse a debate en un comité específico cuando el miembro que presenta el tema lo identifica claramente, o lo identifica el Comité Ejecutivo y posteriormente la Comisión cuando no hay una dirección clara sobre dónde debe presentar la propuesta el miembro.
- 3.4 En la Evaluación del Codex de 2003, se recomendaba que el Codex prestara especial atención a la labor horizontal que aborda la inocuidad de muchos alimentos en lugar de centrarse en las normas sobre productos concretos; en consecuencia, en la actualidad los comités horizontales dominan el calendario de reuniones del Codex en comparación con los comités sobre productos o verticales de los primeros años del Codex. Por consiguiente, en muchos casos ya existen los medios para abordar los aspectos de los alimentos relacionados con la inocuidad, sean nuevos o no.
- 3.5 Una de las dificultades señaladas fue la falta de definición de las FASPN. Temas como este ya pueden presentarse como propuestas de trabajo nuevos, puesto que la definición de términos dentro de un grupo de productos concretos es un enfoque que se ha adoptado en el pasado. Habida cuenta de que algunos miembros sugieren que esta es una primera medida importante, sería crucial presentar una propuesta de trabajos nuevos en esta esfera. A continuación, corresponde a la Comisión determinar cuál es el mecanismo más adecuado para llevar a cabo esos trabajos.
- 3.6 Con el aumento de los costos, son esenciales la eficacia y el establecimiento de prioridades en relación con los trabajos. Eso es aplicable tanto a las esferas de trabajo existentes como a las nuevas. Las propuestas de trabajos permiten establecer esas prioridades.

4. RECOMENDACIONES

- 4.1 Se invita a la Comisión, en su 46.º período de sesiones, a:
 - reconocer la diversidad de opiniones con respecto a la forma en que el Codex puede llevar a cabo su labor en relación con las FASPN y tomar nota de que es probable que surjan propuestas de trabajos nuevos en los próximos años;
 - comunicar a los miembros que en la actualidad no existen impedimentos procedimentales para presentar nuevas propuestas de trabajos sobre las FASPN y animar encarecidamente a los miembros a presentar documentos de debate o nuevas propuestas de trabajos, ya sea a comités existentes del Codex o al Comité Ejecutivo, para informar mejor a la Comisión sobre la naturaleza de la labor que es necesario llevar a cabo en esa esfera;
 - destacar que corresponde a la Comisión determinar cómo deben realizarse los trabajos nuevos acordados, señalando que cuando los trabajos que se deben llevar a cabo están claros, la Comisión puede, si procede, establecer un nuevo mecanismo de trabajo, sea un grupo de trabajo electrónico o presencial, un grupo de acción o un comité nuevo.

Apéndice I
Original languge only

COMMENTS ON POSSIBLE ISSUES RELATED TO STANDARD SETTING FOR NEW FOOD SOURCES AND PRODUCTION SYSTEMS (NFPS) THAT COULD NOT BE ADDRESSED BY THE CURRENT CODEX STRUCTURE AND PROCEDURES AND OPTIONS TO ADDRESS THEM

(Comments in reply to CL 2023/31/OCS-CAC)

Comments of Australia, Brazil, Canada, Colombia, Costa Rica, Ecuador, Egypt, European Union, Iran, Iraq, Kazakhstan, Kenya, New Zealand, Norway, Peru, Republic of Korea, Saudi Arabia, Singapore, Thailand, Uruguay, USA and European Vegetable Protein Association, Food Industry Asia, Good Food Institute, IDF/FIL

The comments below are those received through the Codex Online Commenting Systems (OCS), or via email by the time this document was issued. The OCS is an online tool that enables Codex Contact Points to submit comments on draft texts in a standardized way, thus providing more transparency and better management of comments on different Codex texts as requested through Circular Letters.

The comments received are presented in a table format, with two columns as follows:

- First column Presents the comments with the rationale.
- Second column Presents the provider of the comments (name of country or observer)

GENERAL COMMENTS

COMMENT	MEMBER / OBSERVER
Currently, Brazil understands that the structure and procedures within Codex are sufficient to handle any new work proposals on NFPS.	Brazil
Concerns regarding labelling, nutrition, and specific safety aspects related to NFPS fall under the mandate of Codex General Subject Committees. La issues are in the scope of the Codex Committee on Food Labelling (CCFL); nutritional matters should be handled by the Codex Committee on Nutrition Foods for Special Dietary Uses (CCNFSDU), and contaminants concerns are dealt with by the Codex Committee on Contaminants in Foods (CCFC). Moreover, certain NFPS might qualify as food additives, placing them under the mandate of the Codex Committee on Food Additives (CCFA).	on and
Certain NFPS are associated with products that are already covered by Codex Standards developed by Commodity Committees. For instance, plant-to-protein alternatives are covered by the General Standard for Vegetable Protein Products and the General Guidelines for the Utilization of Vegetable Products in Foods. These standards were developed by the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV), which is currently adjourned to the Codex Committee on Processed Fruits and Vegetables (CCPFV).	Protein
Risk analysis guidance on certain NFPS and the development of standards that fall outside the mandate of Codex Commodity Committees could be divided with by Ad hoc Codex Intergovernmental Task Forces and Joint FAO/WHO expert bodies and consultations. Currently, Brazil understands that the strand procedures within Codex are sufficient to handle any new work proposals on NFPS.	

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Kazakhstan considers the need to work more horizontally on NFPS.	Kazakhstan
New Zealand (NZ) appreciates the opportunity to comment on CL 2023/31/OCS-CAC the 'Request for comments on possible issues related to standard setting for new food sources and production systems (NFPS) that could not be addressed by the current Codex structures and procedures and options to address them'. We would like to thank the Chairperson of the CCEXEC sub-committee for leading this workstream including the completion of the comprehensive report. NZ has the following comments in response to CL 2023/31/OCS-CAC. NZ considers that the evidence provided by the membership through the work of the CCEXEC sub-committee strongly confirms that there are no specific sesues related to NFPS within the current Codex standard-setting. Furthermore, existing structures and procedures adequately cover all specific NFPS that require a Codex standard, guideline or code of practice. As with the development of any Codex standard, NZ considers that the level of Codex involvement in standard setting for NFPS should be commensurate with the level of risk posed. In this way, risk analysis enables us to estimate the risk to human health and safety of a food, so that appropriate measures can be implemented to control and communicate those risks. We note that, in many instances, NFPS are proposed to address global climate change, food insecurity and sustainability challenges. We agree Codex standards have a role in helping to address global nutritional, sustainability and food insecurity challenges to the extent of Codex's mandate. NZ notes that Codex already supports a wide variety of innovative NFPS. There are also examples where, due to the low level of risk posed, national legislative approaches alone are sufficient to support such innovation globally. It is NZ's view, where issues arise as to whether a NFPS is included in the scope/TOR for the Committee (within the extent of Codex's mandate).	New Zealand
As such NZ does not see the need for an e-WG to explore this aspect further.	
Singapore would like to commend the work of the CCEXEC Sub-committee on New Food Sources and Production Systems (NFPS) in supporting Codex Members and Observers to share views on NFPS. We would also like to thank the Codex Secretariat for consolidating the collegial discussions on NFPS during CAC45, and for its efforts to advance this work through the circular letter.	Singapore
Singapore supports the establishment of a Codex ad hoc inter-governmental task force with specific terms of references (TORs) to work on emerging topics related to NFPS, and for a defined duration to deliver the outcomes of the TORs. As outlined in CRD34 rev. during CAC45, Singapore views that the establishment of an ad hoc inter-governmental task force, as opposed to using existing Codex structures, is necessary to provide Codex with sufficient agility to respond to the rapidly growing and varied nature of NFPS. This agility is critical for Codex to minimise barriers to the trade of food from NFPS, so that they can contribute to a supply of safe food around the world, in alignment with Codex's dual mandate of protecting consumer health and promoting fair food trade practices.	
Singapore also had an exchange of views with other Codex Members when preparing our response. There was a shared view among some Members that because NFPS spanned across wide-ranging disciplines, the existing Codex structure and mechanism is insufficient for Codex to address NFPS in a timely manner, and to prioritise NFPS-related topics among other non NFPS-related topics. Therefore, there was support for the establishment of an ad hoc intergovernmental task force for NFPS.	
Thailand would like to provide general comment as follows;	Thailand
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In Thailand, the prominent topics within NFPS are include, edible insects, insects for feed, plant-based foods, seaweeds, microalgae and aquatic plants. For food safety aspects, we viewed that Codex horizontal standards could cover some of the safety requirements of NFPS. However, for quality aspects, the current vertical standards may not be applicable to NFPS if they are not related to a product that already has a Codex standard. The establishment of a new task force may be necessary with a specific mandate to work on for this aspects. It should be noted that the common agreed definition of "new food sources and production systems" and "novel foods" should be further clarified before embarking on new work on NFPS.

Thailand has concern related to food safety of new food derived from new technological innovations especially cell culture-based food products. Advice from the FAO/WHO expert bodies and/or expert consultations would be necessary. In addition, the diversification of national legislation relevant to the registration of novel foods for placing on the market could raise barriers to international trade. Therefore, Codex committee should consider to develop the registration guideline for novel foods to reduce trade barriers.

In short term, Thailand is not planning to propose any topics related to NFPS for consideration by Codex.

General Comments:

The United States believes that New Food Sources and Production Systems (NFPS) is an important topic and welcomes the forward-looking discussion on this subject in Codex. However, it would be challenging to design a single mechanism for standardizing new technologies, many of which are still in the research and development stage and with which members have little or no experience, or knowledge of what is yet to be created.

While the U.S. food system has some experience with many of the NFPS, there is currently still a need to understand and learn more about the impact of specific NFPS in terms of potential food safety, regulatory, labelling, nutritional, and quality issues. It is also difficult to imagine a single mechanism capable of effectively drafting standards for all foods, all new production systems, or all new technologies, and to consider all aspects of such products, such as hygiene, contaminants and potential residues in food, nutrition, and other subjects already considered by existing committees. Many of the issues that may be raised by NFPS may be addressed by the standing general subject committees, which can deal with any identified unique food safety or fair trade issues consistent with their terms of reference.

Codex should only develop vertical/commodity standards when existing standards exclude these new production processes for analogous foods. Not all foods require a Codex standard. In some cases, it may be appropriate to modify existing Codex texts to accommodate new production processes. (For example, it may be appropriate to develop new food categories in the General Standard for Food Additives.)

Finally, the United States believes that new work should proceed when it is supported by sufficient science and there is significant international trade, consistent with the Codex Working Principles for Risk Analysis and an evaluation according to the Codex Criteria for the Establishment of Work Priorities.

For these reasons, the United States believes that Codex should utilize existing mechanisms and should review any new work on a case-by-case basis, as it currently does, to ascertain if an existing committee or existing committees are best suited to undertake the work. Working groups could also provide a mechanism for initial review when necessary and make recommendations to the Codex Executive Committee and the CAC for assigning portions of the work to the best-suited existing committee(s).

The Good Food Institute (GFI) appreciates the opportunity to comment on these important issues. GFI's comments apply to standard-setting and related matters pertaining to the alternative proteins subcategory of NFPS, including cultivated meat, fermentation-derived ingredients and foods, and plant-based protein alternatives.

With respect to standard-setting for alternative proteins, any new or amended Codex standards, guidelines, or codes of practice should be flexible enough to encourage innovation rather than stifle it, to allow for maximum flexibility in the technology used to produce foods, and to account for the variation among categories of alternative proteins. Otherwise, the pace of evolution and diversity of materials in the alternative protein space may quickly render Codex texts not fit for purpose.

Such texts should be science- and risk-based and informed by sufficient scientific expertise. As newer alternative proteins become more established in the

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Good Food Institute

market and in international trade, an ad hoc intergovernmental task force or a joint electronic working group (J-EWG) involving relevant committees could potentially assist in ensuring that horizontal issues relevant to these products—such as whether new principles or guidelines relating to food safety assessments are needed and whether existing texts should be revised—are addressed holistically and consistently across the relevant committees and that essential scientific expertise is gathered to establish the foundation for new or revised texts.	
Any Codex standards or related texts should not apply needlessly burdensome treatment to alternative proteins or other NFPS that other food categories are not subject to. For example, developing a nutrition composition guideline applying only to plant-based and other alternative protein foods or beverages without doing the same for all foods and beverages could create a distortion of fair practice in trade as well as a disparity in perception between foods that are presumed to be nutritionally sound and those that are not. [See GFI's CRD 33 to CCNFSDU43]. Similarly, clear and accurate labeling is essential to consumer protection and fair practices in trade, and Codex labeling standards and guidelines should enable a level playing field for alternative proteins. Such standards and guidelines should avoid mandating the use of inaccurate or disparaging terms, or terms that consumers do not understand, on the labels of alternative protein products.	
GFI stands ready to provide technical assistance to the CAC and any Codex committees, working groups, or task forces undertaking work relating to alternative proteins.	
The International Dairy Federation is not aware of any NFPS topics which need special attention or a new structure or body within the Codex system as it appears that any issues can be dealt with, in the current Codex operational structure. Should the Commission conclude at any time that the current Codex structure is not sufficient to address identified standardization and/or determine that a new structure or body within the Commission is needed despite the above stated IDF position, we reiterate the importance that the terms of reference of any new work or structure reflect the existence of and not undermine	IDF

SPECIFIC COMMENTS

existing Codex texts.

Australia has identified none.	Australia
Canada has identified none.	Canada
a estructura actual del Codex Alimentarius permite abordar nuevos asuntos relacionados con las fuentes de alimentos y sistemas de producción FASPN). Lo que se requiere, tal como se concluyó en la CAC, es trabajar de manera flexible y oportuna para garantizar la coordinación de los diferentes comités.	Colombia
Como ya se ha mencionado en los diferentes debates del CCEXEC y la CAC, Costa Rica considera que, el Manual de Procedimiento establece los necanismos necesarios para abordar cualquier propuesta de trabajo nuevo sobre las FASPN. Adicionalmente, los comités han implementado en sus agendas el tema "criterios para la evaluación y el establecimiento de prioridades del trabajo" con el fin de identificar nuevos trabajos y establecer su orden le prioridad de modo que en un futuro sea adecuado para los fines previstos. Por lo anterior, Costa Rica considera que la estructura y los instrumentos con los que cuenta el Codex, permiten desarrollar cualquier texto del Codex en el ámbito de sus competencias, incluyendo la solicitud de asesoramiento cuando se considere necesario a los grupos de expertos o en su efecto a los comités horizontales que corresponda.	Costa Rica
Ecuador actualmente no cuenta con temas específicos que requieran la elaboración de una norma, directriz o código de prácticas del Codex; sin embargo, considera que los temas que al momento se están abordando en los diferentes comités técnicos, están bien definidos.	Ecuador
Por otra parte, creemos pertinente que se cuente con una definición clara de las fuentes de alimentos y sistemas de producción nuevos (FASPN) donde	

se especifique el alcance para facilitar nuevos debates que vayan presentándose en función de este tema; es probable que esto viabilice la determinación de nuevos temas.	
1- There is a growing global interest in alternative sources of proteins as a new food source for sustainable protein supply. Recent research has indicated that vegan and microbial proteins (single-cell proteins sourced from algae, fungi, and bacteria) are sources of food. Algae-based foods have become mainstream among consumers in recent years, owing to their benefits. Adopting (i) a new system for nomenclature, (ii) good practices for the algae cultivation chain, and (iii) mitigation measures to reduce or prevent potential safety hazards that may affect consumer health are required for these algal protein production systems. 2- The aquaculture production systems have experienced rapid development in many countries and have become an important contributor to food security and the economy. More research on modern aquaculture farming practices, environmental integrity, labelling of aquaculture products, and maximum limits for cross-cutting and emerging chemical and microbial hazards are required. 3- Entailing special farming of food and indoor vertical soilless protected farming approaches (hydroponic and aquaponics greenhouse systems) to grow high-value products (such as vegetables, fruits, and seedlings) that increase food yields, act as an efficient option for water scarcity challenges, and offset the effects of climate change. Good greenhouse high-value food production Practices and technologies need to be addressed and represented by Codex.	Egypt
The EU and its Member States (EUMS) note that the submissions of Codex members and observers that are summarised in Appendix II of CX/EXEC 22/83/4 identify different types of NFPS (e.g. Cultivated meat, seafood and dairy, fermentation-derived ingredients, plant-based protein alternatives, edible insects, seaweed or microalgae). For each of these NFPS, the document provides preliminary considerations on the aspects that could merit Codex work. The EU is of the view that these considerations would merit exchanges in Codex that would enable to identify areas of common interest and on which there would be consensus for further work. The EU and its Member States would in particular support exchanges on new food sources and production systems that can contribute to the transition towards sustainable food systems.	European Union
The transition of herbal teas from natural to commercial and industrial production is indeed a complex issue. This transition often involves the use of pesticides, fertilizers, and other agricultural practices that can introduce contaminants like pesticide residues, heavy metals and mycotoxins into the products. These concerns are typically addressed through regulatory bodies like the Spices and Culinary Herbs Codex Committee, which may focus on the physico-chemical characteristics of these products.	Iran
 Using Nano-materials in foods as additives Foods produced using Food printers Cell based foods 	Iran
عضوية مصادر او نه باته ية مصادر من به اله بروته ين المغذية الاغذية (Protein-rich foods from plant or organic sources – translation by GDC)	Iraq
The global demand for proteins is changing, creating opportunities for alternative sources of proteins such as cell-based and other possible protein sources e.g., insects, seaweed, etc. As the global demand for proteins grows, many in the food sector are looking into opportunities to expand the scope of diverse sources of proteins that can be both environmentally sustainable and nutritionally sound. The commercial landscape for cell-based food is fast expanding. As such foods are becoming a reality, national food safety authorities need to be prepared to regulate them and authorize them for use by food business operators. So, in this context, the topic below which is not covered within the scope of current Codex committees will be an important basis for standardization of what to be considered as NFPS. Kenya proposes the development of Guidance on the Approval of new ingredients and new technologies: This includes technologies like Cellular Agriculture (tissue engineering and precision fermentation) and new ingredients that are produced using such technologies.	Kenya
Rationale:	

UX/UAU 22/46/22	10
To develop guidance that may be used by member countries while evaluating new technology or new ingredient developed by such technology, need cross-functional experts. Unfortunately, this is not within the terms of reference of current Codex subsidiary committees.	
New Zealand considers that current Codex standard-setting structure and procedures cover all specific NFPS that require a Codex standard, guideline or code of practice.	New Zealand
We see the need to work more horizontally on NFPS. We would also like to refer to our previous submission of comments and CX/EXEC 22/83/4, and especially note that for example seaweed is a commodity which would benefit from more horizontal work (safety, nutrition, quality and labelling) and that this commodity does not naturally fall under a specific committee.	Norway
Los temas específicos de FUENTES DE ALIMENTOS Y SISTEMAS DE PRODUCCIÓN NUEVAS – FASPN, que podemos señalar y que requerirían la elaboración de una norma, directriz o código de prácticas del Codex, serían: 1. Hongos referidos como alimentos para consumo humano: GANODERMA LUCIDUM (CUERPO FRUCTÍFERO), HONGO REISHI (Ganoderma Lucidum), HONGO CHAGA (Inonotus obliquus), HONGO Turkey tail (Trametes versicolor), HONGO Cordyceps sinensis y HONGO Champiñon del sol (Agaricus subrufescens Peck), HONGO CORDYCEPS (cordyceps militaris), POLVO DE HONGO MELENA DE LEON (Hericium erinaceus), POLVO DE HONGO REISHI (Ganoderma lucidum), POLVO DE HONGO COLA DE PAVO (Coriolus versicolor o Trametes versicolor), se advierte que el Codex Alimentarius no cuenta con información para el uso de los mismos. 2. Insectos comestibles: Suri - Rhea pennata 3. Alimentos de cultivo de celula, incluir en el etiquetado. 4. Proteínas vegetales alternativas: Soya (transgénicos) - proteína de soya, isoflavonas (compuestos de estructura similar a la hormona femenina estrógeno) 5. Alimentos impresos 3D – Repositorio de países que lo desarrollan y etiquetado. 6. Productos a base de cultivos de células - Repositorio de los países que lo desarrollan y etiquetado. 7. Alimentos encapsulados, regulación si estaría o no permitido y qué debe cumplir la cápsula de un alimento encapsulado. 8. Ashwagandha (withania somnífera) – utilizada para el estrés 9. Raíz de valeriana - Valeriana officinalis, Chuchuhuasi, Corteza de Cocobolo (Dalbergia Retusa), Cocobolo, Corteza de Clavo Huasca (Tynnanthus Panurensis), Corteza de Uña de Gato (Uncaria Tomentosa), Uña de Gato, Achiote, Curcuma (Curcuma Longa L. (Zingiberaceae), Kion Conocido Como Jenjibre. 10. Probióticos (nombres), evaluar establecer límites para diferentes tipos de productos, líquidos, deshidratados, considerando que en el Codex Alimentarius hay información únicamente para Yogurth. 11. Hormiga - Atta laevigata se conoce como sikisapa (en Perú y Ecuador), hormiga culona (en Colombia y Argentina), Zompop	Peru
As the need for new food sources and production systems(NFPS) is gradually increasing as an alternative to global food shortages and environmental pollution, the market size of NFPS is also expected to increase rapidly. Foods using various new technologies such as synthetic biology, genetic scissors, 3D technology, and cell culture technology are being developed, and investment in related R&D is increasing worldwide. However, despite this, there is no consistent and clear standards for NFPS around the world. In addition, each country has different definitions, intake history, classification standards, and technological development status of new food sources, so the regulatory status is very different. In this context, it is difficult to proceed with the work of covering both the NFPS currently identified and systems that will emerge in the future through the existing CODEX mechanisms. Furthermore, as the production systems for each new food source sector is diverse, the risk factors to be considered in the manufacturing process are more extensive depending on the manufacturing and processing technology. As technology advances and various NFPS are developed, consumer confusion and safety questions will increase. In order to prevent such international confusion, CODEX needs to develop an international standard that considers all the risk factors of various production processes of new food sources. In particular, since NFPS have a wide range of related fields and there is no clear definition regulation and classification standard, definition, classification	Republic of Korea

criteria, scope, nutritional aspects, essential composition and quality factors, etc. should be discussed in NFPS Committee, as with the currently active commodity committees such as CCSCH, CCFFP, CCFFV, CCFO. If matters on labelling, residues of veterinary drugs, food additives, etc. are referred to the general subject committee for discussion, unnecessary time is wasted in determining the relevant committee, and all risk factors that require discussion could be considered without blind spots.

For example, in the case of edible insects, comprehensive standards and specifications including the definition of edible insects, types and range of edible insects that can be used, guidelines for facilities and equipment for breeding, producing, processing, and storing edible insects, guidelines for production and hygiene management, standard for pesticide residues and veterinary drugs, and standard for manufacturing processes and storage methods to prevent rancidity is very needed to ensure the food safety. Among them, the definition of edible insects, types and range of edible insects that can be

And for 3D printed foods, which is being actively developed currently, the scope of recognition of raw materials for 3D printed ink, foreign substances resulting from contact between the device inside the printer and food, damage to product quality caused by mixing cartridge materials, setting the shelf-life of cartridge materials, etc. are the subject that is difficult to deal with in existing committees.

used, and guidelines for facilities and equipment for breeding, producing, processing, and storing edible insects are needed to be developed by

committees on new food sources, not existing CODEX mechanisms.

For cell-based foods with high market growth potential, it is necessary to develop criteria for disease infection and contamination with pathogenic microorganisms in the carcass of the organism of origin, and standards for residues such as antibiotics, hormones, and pesticides. And also standards for comparing and analyzing the equivalence of genomes, proteomes, and metabolites between cells of origin and cultured cells for each manufacturing process and evaluating allergy should be developed. Among these, standards for evaluating genetic equivalence between origin cells and cultured cells for each manufacturing process and management guidelines for risk factors(including allergen) that may occur when genetic differences exist are matters that should be developed by committees on new food sources. This is one of the guidelines that must be developed to ensure the safety of cell based foods, and since it is a task that requires expertise and systematicity, it could be possible to respond through the establishment of responsible committee. In order to proceed with such a vast amount of work related to new food sources, it is reasonable to discuss in a new committee. Some other Codex members also agree that it is difficult to respond to NFPS with the existing mechanism for similar grounds. Therefore, at Ad hoc Intergovernmental Task Force or committee level, it is necessary to respond to safety management issues professionally and systematically through cataloging NFPS and determining work priorities.

The Kingdom of Saudi Arabia would like to thank the Codex Secretariat for the opportunity to comment on the circular letter (CL) on possible issues related to standard setting for new food sources and production systems (NFPS).

The Kingdom of Saudi Arabia believes that the existing mechanisms and procedures for standard setting within Codex are sufficient to address and develop any new work proposals on NFPS. In addition, focus is placed on general or horizontal standards that apply to all foods under the Codex framework. As a result, these specified food topics will already be bound by current Codex standards and work by the relevant Committees. With that being said, there is a need to develop new work related to several aspects that were not necessarily covered in previous Codex work such as the labeling of these products, quality issues, nutrition related concerns, and MRLs in the case of edible insects. Thus, general guidance particularly in terms of safety evaluation, definition, scope, food additives and labelling would be of great benefit.

Saudi Arabia

Singapore views that several topics in the context of NFPS would require the development of Codex standards, guidelines or codes of practice. Based on current developments in the industry, Singapore views that the foods derived from NFPS urgently requiring Codex's attention include substances derived from modern techniques used in biomass or precision fermentation of microorganisms, cultivated meat, plant-based protein alternatives, and insect cultivation. Microalgae, macroalgae, 3D-printed foods, nanotechnology-derived substances and other types of NFPS should also be included in the future as these sectors develop further. The topics are:

Singapore

- 1. Risk analysis of food products derived from NFPS. Risk analysis guidelines should be elaborated for NFPS. The guidelines would need to encompass science-based risk assessment criteria. The criteria would cut across multiple disciplines (e.g. Food science and engineering, Nutrition, Bioinformatics, Epidemiology, Public health, Toxicology, Microbiology), as well as involve expertise to address risks presented by substances and/or processes not previously used in food production (e.g. bacterial, fungal, plant and insect species with no history of safe consumption, growth factors, hormones, process of cell culture).
- 2. Risk prioritization of food products derived from NFPS. It is foreseen that Codex will need to establish work priorities across different aspects of NFPS to tackle the food safety risks related to non-food grade materials, antimicrobials, pathogens, microbial toxins, food allergenicity, heavy metal contamination, unintended metabolites, and new toxicity end-points which are known to possibly occur in some forms of NFPS production.
- 3. Harmonisation of terminologies for food products derived from NFPS. Drawing from Singapore's experience in developing regulations for some examples of NFPS, it is apparent that there is currently no international agreement on the terminologies for several examples of NFPS (e.g. cultivated meat, and foods derived from biomass fermentation, precision fermentation and insect cultivation). This could lead to differences in how different Codex Members scope their national legislation to regulate such types of NFPS. For example, some Codex Members may have developed specific, self-contained conditions to regulate cultivated meat products, while others may have layered on existing conditions for 'processed food' or 'meat products' to regulate such products. This heterogeneity in the understanding of NFPS could introduce unnecessary barriers in the international trade of such products. It could also lead to challenges in the provision of data related to food products derived from NFPS should there be a need for international scientific expert committees (e.g. JECFA, JEMRA, JEMNU, JMPR) to perform risk assessments on such food products.
- 4. Good practices for the storage, transport and production of food products derived from NFPS.

 Some forms of NFPS, especially the production of cultivated meat and insects as alternative proteins, involve inputs and processes that have not been considered in any existing guidelines, standards and codes of practice. For example, the production of cultivated meat, or substances from precision or biomass fermentation may require a consideration of suitable aseptic conditions (through Good Cell Culture Practices (GCCP) or otherwise), as well as adequate measures to prevent chemical cross-contamination of new and existing food allergens. Meanwhile, insect cultivation may require that the facility adopts a fit-for-purpose Hazard Analysis Critical Control Point (HACCP) or Food Safety Management System (FSMS).

Currently, there are no standardised HACCP, Good Manufacturing Practice (GMP), GCCP or FSMS guidelines that cover such types of food products derived from NFPS. Therefore, the elaboration of Codex guidelines, standards and codes of practice on this matter would guide the industry in this sector as they plan, design and build such facilities. It would also help national competent authorities to establish clear conditions in their legislation to regulate such facilities and ensure that these conditions are aligned with international standards.

As the NFPS space continues to grow rapidly, the development of all these Codex guidance would be necessary to enhance Codex's efforts to protect consumer health, while facilitating the trade of food products derived from NFPS globally. Singapore is of the view that Codex guidance on these topics cannot be efficiently developed using the current Codex standard-setting structure and procedures, for reasons which will be elaborated in our response to question (b).

ON ONO ELI TOLLE	10
Uruguay entiende que la estructura actual y procedimientos establecidos en el Manual son suficientes para la elaboración de las normas de alimentos, ncluidos los FASPN. De ser necesario, se podría realizar capacitaciones virtuales sobre los procedimientos establecidos en Codex para la presentación de nuevos trabajos, de forma que estos estén claros para todos los miembros.	Uruguay
The United States is unaware of any specific topics or proposals for new work that cannot be developed using the current Codex standard-setting structure and procedures.	USA
EUVEPRO believes that the existing Codex Committee on Vegetable Proteins (CCVP) is the appropriate mechanism to address emerging plant-based protein ingredients, such as those obtained from pulses (e.g., pea, chickpea, lentils), potatoes and rice. In general, any assessment of the need for new work and/or revisions should be assessed by the relevant Codex Committee for the standards and guidelines within their scope. Each Committee could hen report back to the Codex Alimentarius Committee.	European Vegetable Protein Association
The global demand for protein is changing, creating opportunities for alternative sources of protein such as products that are produced via cellular griculture. As the global demand for protein grows, many in the food sector are looking into opportunities to diversify the sources of protein that are made vailable to consumers that can be both environmentally sustainable and nutritionally sound.	Food Industry Asia
The commercial landscape for cell-based food is expanding rapidly. As such foods are becoming a reality, national food safety authorities need to be prepared to regulate them and authorise them for use by food business operators.	
n light of this, FIA would like to highlight the following topic, which is not covered within the scope of current Codex committees: Guidance on Approval of New Ingredients and New Technologies. This topic should encompass technologies such as cellular agriculture (tissue engineering & precision ermentation) as well as include new ingredients which are produced using such technologies.	
To develop such guidance, which may be used by member countries when evaluating new technology or new ingredients developed by the informentioned technologies, experts from multiple disciplines are needed; this unfortunately is not within the terms of reference of current Codex subsidiary committees.	
he International Dairy Federation is not aware of any NFPS topics which need special attention or a new structure or body within the Codex system as it ppears that any issues can be dealt with, in the current Codex operational structure.	IDF/FIL
Should the Commission conclude at any time that the current Codex structure is not sufficient to address identified standardization and/or determine that a new structure or body within the Commission is needed despite the above stated IDF position, we reiterate the importance that the terms of reference of any new work or structure reflect the existence of and not undermine existing Codex texts. In particular, the Codex General Standard on the Use of Dairy Terms (GSUDT) (CXS 206-1999) offers important guidance on the use of dairy terms in relation to foods offered to consumers or for further processing. The GSUDT ensures fair practices in trade and protects public health by preventing consumers from being misled about the nutritional attributes of the foods they consume. The GSUDT has served as an important Codex reference text since 1999 and only increases in value as the global marketplace becomes more crowded with non-dairy products seeking to mimic dairy products in order to take advantage of the positive consumer perception, known nutritional value and strong market position of milk-based dairy products.	
(b) Please outline the challenges/inadequacies that in your view are hampering the current system from addressing the identified specific NFPS tapproaches to address these.	opics, and possible
Australia's view is that existing Codex procedures and structures provide the necessary mechanisms to assess whether new work should be undertaken in Codex on issues related to new foods and production systems, including what scientific advice would be necessary for the new work.	Australia
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Brazil is of the opinion that proposals on NFPS should be prioritized and that the safety of NFPS should constitute the foremost concern for Codex Alimentarius. Guidance on risk analysis of selected NFPS could be addressed by Ad hoc Codex Intergovernmental Task Forces. Specific concerns related to safety, hygiene, nutrition, and labelling could be addressed by Codex General Subject Committees.	Brazil
Canada is of the view that the current system can address the identified specific NFPS topics. We note that general Codex texts on food hygiene, labelling, contaminants, etc. are written to apply to all foods, regardless of the source of the food or how it is produced. The mechanism or method of production of a food is not the defining feature on whether a Codex standard is needed. Commodity standards are not needed for every type of food, rather it is recognized that a Codex standard is required to protect consumer health and promote fair trade practices. Currently, Canada believes that, in the absence of a specific NFPS topic that requires a Codex standard, guideline or code of practice, it is premature to create a new mechanism to address specific NFPS topics. We note the CCEXEC is tasked to assist in Codex work management, and may currently be best placed to discuss potential approaches to address specific NFPS topics before consideration at CAC.	Canada
Desafíos * Conocimiento del estado de la técnica * Aplicabilidad: Construir una norma para alimentos que serán producidos y comercializados por países en especifico, particularmente teniendo en cuenta que países desarrollaron la tecnología y cuales están en la capacidad de adquirir estos alimentos. * Preferencias de consumo, por ejemplo: aspectos sensoriales. * En algunos casos los países requerirían un nuevo marco reglamentario para el ingreso de productos derivados de las FASPN al mercado.	Colombia
Actualmente no identificamos deficiencias.	Costa Rica
Se considera que las FASPN, al no tener un alcance definido y por el contrario tener un enfoque muy amplio y general, puede dar cabida a desafíos importantes como la falta de equipamiento tecnológico para la determinación de datos lo que impediría contar con respaldos suficientes para emprender nuevos trabajos.	Ecuador
No se desconoce las oportunidades y ciertas ventajas que pueden llegar a brindar las FASPN, sin embargo, es importante prestar especial atención a las posibles repercusiones sobre la promoción de alimentos altamente procesados, el uso excesivo de aditivos y el aumento de la necesidad de materias de embalaje, enfoque importante para su abordaje cuando se habla de nuevas tecnologías.	
 Some food beliefs and practices are religion-based. Consumers are connected to their religious and ethnic groups through food patterns, distinct dietary preferences, and prohibitions. Most religions have specific restrictions of consuming some types of foods. Globally, an understanding of the religious and cultural aspects of food is key to defining, classifying, labelling, and the production system to avoid impediments to addressing and identifying new food sources. Lack of knowledge about new agriculture approaches and its applications. Globally, traditional agriculture systems are more preferred due to its feasibility and lower cost. Proper introducing of new aquaculture production systems skill and knowledge is required. 	Egypt
The EU and its Member States will provide a reply to this question at a later stage.	European Union
 Quality and safety specifications of NPFS are required for National Food Control Systems. Code of hygienic practices for production of NFPS are required 	Iran

Comment Currently, cell-based foods and ingredients produced thereof are considered a new technology and new ingredient across the globe and must be submitted to national authorities before being introduced in the market. The novelty of these products and their process is giving rise to various safety questions some unique to the technology and end products. Due to the complex and novel production process, all the different stages generate different risks. Some key safety concerns: Food hygiene, tissue biopsy, cell banking, possible harmful by-products, storage, allergenicity, product stability, and scaling of production. Therefore, to enable innovation and to address this emerging technology, enable decision-making at the national level, and foster harmonization, the Codex Alimentarius Commission must develop guidance on how to evaluate this new technology and the ingredients produced thereof from this technology. The new food sources do not fall under the currently established Codex Subsidiary bodies as outlined in their ToRs. Secondly, some of the new food sources may not fit within the current Codex Food categories e.g. meat alternatives, and plant-based protein alternatives. Rationale Taking into consideration the dual Codex mandate objective and Codex's 2020-2025 Strategic Plan, especially Goals 1 which states that – "Address current, emerging and critical issues in a timely manner", there is urgent need for Codex Alimentarius Commission to develop a guidance on the proposed topic. Kenya proposes that Codex Alimentarius Commission (CAC) can take either of the below two approaches: Establishing Ad Hoc Intergovernmental Task Force to work on this agenda: As in past, CAC has established task force on Antimicrobial Resistance - (TFAMR) or Food Derived from Biotechnology (TFFBT) etc, CAC may establish an ad hoc intergovernmental task force to do the work on this agenda. Depending upon the output of this task force and if there will be need for any further work, review can be made for either establishing new	Kenya
In response to global challenges such as climate change and sustainability, Codex has been called upon to clarify the boundaries of its existing Committees. To avoid hampering the system in progressing NFPS, we support the approach of first exploring whether the Committee could clarify/extend its scope/TOR for a NFPS if it is not sufficiently clear to the relevant committee.	New Zealand
En el marco de una de las esferas propuestas para las FASPN : "alimentos de origen vegetal, animal y microbiano que formaban parte de la dieta tradicional en algunos países, pero que todavía no se consumían de forma generalizada en otras partes", el aporte que podrían hacer los países, entre ellos el Perú es identificar (investigación coordinada con la academia) aquellos alimentos que forman parte de la dieta tradicional de diferentes regiones y etnias dentro de un país, que aún no se consumen de forma generalizada. Esto implica tener en cuenta que este tipo de dietas se asocia a los recursos propios de dichas regiones o zonas y a las formas de consumo, que dificulta su generalización. Con esa información realizar un repositorio para compartir entre los países.	Peru
CODEX develops standards for foods actively traded in the international market with the goal of protecting consumers' health and ensuring fair international trade. Therefore, according to the Criteria for the Establishment of Work Priorities used when considering new work proposals, volume of production and consumption in individual countries, trade volume between countries, and the number of commodities which would need separate standards are required to be submitted. However, in the case of NFPS, there are status of research and developments that have not been closely figured out and unidentified technologies and dietary habits by country. Also, few new foods are traded internationally. As such, although commodities are not actively traded at present, work that requires preemptive and urgent development of international standards will continue to occur, so the establishment of mechanism that can respond to this is very needed. For example, cell-based food, which have a small current trade volume but have great market growth potential and have many risk factors that must be	Republic of Korea

considered to ensure consumer safety, there are many hazard factors including cell-donor animal disease infection, allergy evaluation, additives safety evaluation method, etc, that need to be considered to ensure safety. Including this case, issues that require the development of CODEX standard in advance in line with the growth of the international market will continue to arise indefinitely. Furthermore, since the current trends in scientific and technological development and food experiences of new food sources vary greatly by country, it is essential to establish and operate a solid foundation and continuous system through toxicity and nutritional evaluation. Therefore, Korea would like to propose the establishment of the Ad hoc Intergovernmental Task Force or committee to preemptively respond to the safety management of new food sources. The Kingdom of Saudi Arabia would like to outline the challenges the might have hindered the current system from addressing the identified specific NFPS Saudi Arabia topics as follows: Lack of a clear and unified definition among country members regarding NFPS. •Lack of history of consumption of certain new food sources. Insufficient scientific studies/data on the specified NFPS topics. •Assessing and managing the types of risks including, but not limited to, toxicological, microbiological, nutritional, and allergens that may require an extensive risk assessment to ensure the safety of the final product for the consumer. •The difference in the legislative system among country members, as some countries obtain a general standard on novel food products and production systems, while others depend on case-by-case scenarios. In addition, some countries differentiate between the novelty of a production system and the final novel product when setting a standard. Having said that, technologies and resources that are employed to create new foods may not necessarily by themselves be new and/or may not necessarily produce a new food. Topic 1 – Risk analysis of food products derived from NFPS **Singapore** In order for NFPS matters to be considered in an integrated and holistic manner, a range of relevant expertise is required. For example, to develop standards on the appropriate use of cell-lines, certain bacterial, fungal, plant or insect species as food ingredients requires a wide-ranging discussion covering many issues including the mitigation of new or elevated allergenicity or toxicity risks, the acceptable use of non-food grade, pharmaceutical grade, antimicrobial or even small molecules in the production media, potential genetic drifts and genome instabilities, as well as possible anti-nutrient effects associated with some production inputs. A comprehensive consideration of all these factors, that is not scoped to a particular Codex committee, is required for Codex to recommend appropriate standards, guidelines and codes of practice to manage these risks. Singapore would like to recall the report of the CAC33 (ALINORM 10/33/REP) where the grouping of expertise through the ad hoc inter-governmental task force on animal feeding allowed for more efficient progress on the subject. We would also like to recall the discussions from the CCEXEC46 report (ALINORM 99/4), where the ad hoc inter-governmental task force on foods derived from biotechnology was established to (i) elaborate standards, quidelines or recommendations considering existing risk analysis principles, and (ii) to coordinate and closely collaborate with appropriate Codex Committees on such foods. We envisage that similar benefits could be reaped for foods derived from NFPS if an ad hoc inter-governmental task force on NFPS is set up. Topic 2 – Risk prioritization of food products derived from NFPS Under the existing Codex standard-setting structures and procedures, the prioritization and establishment of work priorities across such a variety of areas would be challenging because work is prioritized and established by individual Codex Committees. Without a centralized platform for the prioritization of work related to NFPS, the discussion on topics specifically relating to NFPS could be diluted among other work priorities within the individual Codex committees. On the other hand, a centralized platform could begin work immediately. We note that NFPS-related discussions have already begun to emerge in some Codex subsidiary bodies, as well as on platforms outside of Codex. For example, CCNFSDU43 called for discussions around the proposed new work on Guidelines, including General Principles, for the Nutritional Composition of foods and beverages made from plant-based and other

alternative protein sources, which would potentially cover foods and beverages containing substances derived from NFPS. FAO has also released a publication entitled 'Food Safety Aspects of Cell-based Food' which focuses on cultivated meat, which is an example of foods derived from NFPS.

Topic 3 -- Harmonisation of terminologies for food products derived from NFPS

Under the existing Codex structure, the elaboration of a Codex standard to harmonise terminologies for a particular food commodity would be most appropriately undertaken by the relevant Codex commodity committee. For example, in the dairy sector, work led by the Codex Committee for Milk and Milk Products resulted in the establishment of CXS 206-1999 "General Standard for the Use of Dairy Terms". Codex standards on a food commodity have also been established by a relevant Codex Regional Committee if the commodity is of interest only to a particular region. One example is CXS 40R-1981 "Regional Standard for Chanterelles", which was elaborated by CCEURO.

Food products derived from NFPS are traded globally and not limited to a particular region. There is no apparent Codex commodity committee of a similar nature for NFPS under the existing Codex structure and mechanism. This further supports the call to establish an ad hoc inter-governmental task force for NFPS, which can lead in work on NFPS, both horizontally and vertically.

The task force could also provide a singular point of coordination across other Codex committees should there be a need to tap on their inputs in the development of these standards. For example, the task force would be a platform for CCFICS to provide their views on the terminology's implications on the import and export of food products derived from NFPS, or for international scientific expert committees (e.g. JECFA, JEMNU, JEMRA, JMPR) to weigh in on the terminology's usefulness in helping them collect relevant and comprehensive data on NFPS for risk assessments.

Topic 4 -- Good practices for the storage, transport and production of food products derived from NFPS For Codex to develop standards, guidelines and codes of practice for the management of NFPS facilities, Codex would need to consider issues that span across various general subjects of food safety concern.

For example, if Codex were to develop a code of practice to implement HACCP or GMP principles for the production of cultivated meat, or substances derived from precision or biomass fermentation, expertise would be needed from food hygiene (to address microbiological risks), veterinary and drug residues (to consider the appropriate use of antimicrobials), cell biology (to consider the appropriate conditions for the storage and transport of cell banks, bacterial, fungal or insect species) and food allergenicity (to determine how tools, equipment and the production environments should be designed with adequate separation). A dedicated task force on NFPS would be a resource-efficient way to address this topic, because the relevant experts would already be congregated onto such a platform to address the other NFPS-related topics.

Conclusion

CAC45 recognised in REP22/CAC that it is important for Codex to work in a flexible and timely manner to consider NFPS as an important topic in the development of international standards aimed at protecting consumer health and ensuring fair practices in the food trade. The establishment of a cross-cutting mechanism, such as an ad hoc inter-governmental task force, is therefore warranted to overcome the challenges in the context of NFPS in a flexible and timely manner.

Singapore proposes that the ad hoc inter-governmental task force could be set up to work on NFPS under the following TORs:

- 1. To elaborate standards, guidelines, or other principles, as appropriate, for foods derived from NFPS, including but not limited to substances derived from modern techniques used in biomass or precision fermentation of microorganisms, cultivated meat, plant-based protein alternatives, and insect cultivation
- 2. To coordinate and closely collaborate, as necessary, with appropriate Codex Committees within their mandate as it relates to foods derived from NFPS, including but not limited to substances derived from modern techniques used in biomass or precision fermentation of microorganisms, cultivated meat, plant-based protein alternatives, and insect cultivation; and
- 3. To take into account existing work carried out by national authorities, FAO, WHO, other international organizations and other relevant international fora, when carrying out its work.

Uruguay considera que, si bien podrían existir desafíos en cuanto a la información científica, existen organismos internacionales (FAO – OMS) que pueden colaborar en la investigación y generación de información, contando el Codex con los ámbitos de evaluación de información adecuados para apoyar el avance de normas cuando son necesarios (JECFA, JEMRA, etc). La deficiencia podría ser falta de presupuesto adecuado para que funcionen estos ámbitos de evaluación, necesarios para avanzar en el proceso de elaboración de normas.	Uruguay
The United States is unaware of any challenges or inadequacies that are hampering the current system from addressing specific NFPS topics. The Secretariat has been charged with developing guidance on how to apply existing procedures to ensure that Members do not perceive procedural obstacles to submitting new proposals for work in this and other areas of Codex. The United States looks forward to this guidance and hopes it will be helpful to Members.	USA
The current system is adequate in addressing issues related to plant-based protein ingredients, however the standards established by Codex in the field, such as the General Standard for Vegetable Protein Products (CXS 174-1989), were developed three decades ago and consideration could be given on whether these are still fit-for-purpose in the context of novel/emerging plant-based ingredient sources and increasingly diverse applications in foods. It would be important for operators to have appropriate analytical methods for vegetable protein products (e.g., protein content, moisture).	European Vegetable Protein Association
Currently, cellular agriculture and the foods and ingredients produce via this technology are considered to be "new" across the globe, and in turn must undergo pre-market approval processes by national authorities before being introduced into the market.	Food Industry Asia
The novelty of these products and the processes involved in producing them are spurring various safety-related questions; some unique to the technologies utilised, stages involved (varying risks) and end products. Some key safety concerns relate to: tissue biopsy, cell banking, possible harmful by-products, storage, allergenicity, product stability and scaling of production.	
In order to enable innovation and decision making at a national level, as well as to foster harmonisation, the Codex Alimentarius Commission (CAC) should develop guidance on how to evaluate this new technology and the foods/ingredients produced via it.	
Taking into consideration the dual mandate objective and Codex's 2020-2025 Strategic Plan, especially Goal 1 which states "address current, emerging and critical issues in a timely manner", Codex Alimentarius Commission should find a way to start working on this topic promptly.	
FIA would like to suggest the CAC proceed with one of the following options:	
1. Establish an ad hoc intergovernmental task force to work on this agenda In the past the CAC has established such a task force on e.g., Antimicrobial Resistance (TFAMR) and Food Derived from Biotechnology (TFFBT. Depending upon the output of the suggested task force and if there will be need for any further work, a review can be undertaken to assess whether a new Codex Committee should be established or if the terms of reference of an existing Codex Committee can be revised accordingly.	
2. Establish a Working Group (WG) under the CAC The CAC could consider establishing a WG under its leadership to work on this agenda. Establishing a WG could be an effective way forward as it would not be restricted within the terms of reference of an individual Codex Committee, and furthermore experts from multiple disciplines could join; enabling the development of the proposed Codex guidelines.	
IDF is not aware of any challenges or inadequacies within the Codex system that would hamper addressing NFPS topics within the current Codex structure.	IDF/FIL
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(c) In the discussions on NFPS, in your view, are there aspects relevant to standard-setting that have not yet been considered by CAC? If yes, ple identify what you consider to be key points.	ease elaborate and
No – the CCEXEC subcommittee did a very thorough job of collating and analysing a large amount of data collected from the membership which was considered by CCEXEC83. This work did not identify any issues with the existing mechanisms and CCEXEC83 recommended that CAC45 encourage Members to submit proposals related to NFPS using existing Codex mechanisms, and Codex subsidiary bodies to consider NFPS in their deliberations. CAC45 did not identify any new issues. An annual CL process of seeking information on any specific issues is a good way of continuing to assess the sufficiency of the system as a whole. Aside from this CL process, at this stage we would suggest the general subject committees remain best placed to examine if responsibilities under their mandates are sufficient as and when specific issues are brought forward by members related to new food and production systems. The Codex Secretariat has been tasked with preparing guidance on how to apply existing procedures to ensure that Members do not perceive procedural obstacles to submitting new proposals for work in this and other areas of Codex. Australia thinks this work will be valuable.	Australia
Brazil understands that the main aspects relevant to standard-setting have been considered by CAC. It is worth noting that the application of nanotechnology to food could be classified as a NFPS, although this was not addressed by the report of the CCEXEC subcommittee on NFPS.	Brazil
No, in the absence of a specific NFPS topic, Canada does not see that there are any further aspects to standard-setting that have not been considered by CAC at this time. The issue of dealing with "new foods" is not new in Codex, as seen in past discussions on foods produced through biotechnology. Over the decades, CAC has been able to address innovation in food products and processes through its regular Codex mechanism. CAC45 encouraged Members to submit proposals related to NFPS using existing Codex mechanisms. The Codex Secretariat has been asked to prepare practical guidance on how to apply existing procedures to ensure Members do not perceive structural obstacles to submitting proposals for new work, which Canada hopes will be helpful to Members.	Canada
Si, para iniciar estas conversaciones es necesario precisar por parte de FAO/OMS el alcance de las FASPN, así como, de las conversaciones que se deriven de ellas, información técnica relevante que permita contar con una aproximación real sobre las FASPN, que puedan ser usados como insumos para la definición de lineamientos específicos que eventualmente se requieran.	Colombia
No. No obstante, es importante mencionar que la Comisión del Codex debe velar por la correcta aplicación de los procedimientos existentes para garantizar que los miembros no perciban obstáculos de procedimientos a la hora de presentar nuevas propuestas de trabajo y, de esta manera, en el futuro minimizar el impacto que pueda generarse por la desarmonización fundada por falta de normas que son pertinentes al ámbito el Codex.	Costa Rica
Se considera que los aspectos pertinentes para el establecimiento de normas de la Comisión del Codex Alimentarius, ya se encuentran bien establecidas y pueden ser empleadas para el direccionamiento adecuado, sin embargo, de existir la necesidad, se deberá solicitar el apoyo de los grupos de expertos y la prestación de asesoramiento científico por parte de la FAO y la OMS.	Ecuador
Yes, as addressed in point (a), the following aspects need to be considered; 1- (i) new system for nomenclature for alternative sources of proteins, (ii) good practices for the algae cultivation chain, and (iii) mitigation measures to reduce or prevent potential safety hazards that may affect consumer health. 2- More research on modern aquaculture farming practices, environmental integrity, labelling of aquaculture products, and maximum limits for crosscutting and emerging chemical and microbial hazards. 3- Good greenhouse high-value food production Practices and technologies	Egypt
The development of standards on certain NFPS may be associated with other legitimate factors. In such situation, it would be critical that the process to address these factors is agreed before initiating the development of the standard.	European Union

CX/CAC 22/46/22	20
Analytical methods for detecting contaminants and ensuring product safety are crucial. These methods can involve various techniques, including those related to atomic energy or standards set by organizations like the European Union. It's important to have stringent testing and quality control measures in place to ensure the safety and purity of herbal teas as they transition to more commercial and industrial production processes.	Iran
• Yes. Development of standards for mentioned NFPS are necessary. For example, there is no evidences about risk assessment of using Nanomaterials such as metals in foods as fortifier and its TDI.	Iran
One area related to NFPS that Codex may be able to improve on is how it develops standards for indigenous foods, which may be new to Codex but not new to the member country/ies proposing a draft standard.	New Zealand
NZ notes the importance of ancestral consumption for certain groups and the difficulties obtaining scientific backing where the data does not exist.	
The development of indigenous foods standards in Codex can be impeded by the lack of data to support draft standards. Often this includes assessment of traditional food that has been consumed safely by indigenous people for tens if not thousands of years.	
Interventions at CAC45 noted the importance of ancestral consumption for certain groups and the difficulties obtaining scientific backing where the data does not exist.	
While considering how Codex develops standards for NFPS there may be an opportunity for Codex to consider how it could better support the development of standards for indigenous food or more specifically whether there may be a more appropriate approach to incorporate the traditional knowledge of indigenous peoples into the Codex assessment of indigenous foods while still ensuring a robust scientific process.	
Some NFPS may be associated with other legitimate factors, and there is currently not a routine in place for this discussion, we consider the lack of a routine a challenge for Codex in the future.	Norway
Consideramos que siempre debe prevalecer los estudios científicos para el establecimiento de normas Codex.	Peru
First of all, it is necessary to discuss consumer perceptions of new food sources. Since each country has different religion, dietary habits, and development trends in science and technology, consumers in each country have different perceptions and awareness levels of new food sources and related technologies. In order to consumer to safely consume them in terms of safety and nutrition of new food sources and to properly recognize, the need to develop standards for NFPS is even greater. The negative perception of foods using new technologies such as genetic recombination is widespread in society. For the cell-based food, a consumer awareness survey indicated that most consumers had a very low purchase intention due to negative perceptions of safety. To relieve the vague anxiety of consumers, it is necessary to provide information to develop the standard for NFPS. And also for the alternative protein, it includes not only foods that replace meat, but also proteins such as fish and plants, but even the concept of each term is not clearly known, making it difficult for consumers to understand the characteristics of each food. Therefore, it is necessary to investigate, analyze and reflect consumers' perceptions and knowledge levels to prevent their confusion from the early stages before developing CODEX standard. Also, the ethical aspect needs to be discussed. In the case of cell-based foods, ethical issues have been steadily raised on the extraction of fetal serum for cell acquisition during the production process, and there are various views on cell-based foods from a religious perspective. Recently, FAO and WHO published related documents after a complex evaluation and analysis process of terms in consideration of consumer perception and ethical aspects of cell-based foods. We believe that CODEX also needs transparent and comprehensive discussions to reflect consumer awareness and ethical issues.	Republic of Korea
The Kingdom of Saudi Arabia encourages the committee to take into account the prior approaches that country members and observers have highlighted in previous responses and meetings. In addition, the Kingdom of Saudi Arabia deems appropriate the following proposals to be taken into account to move forward with this work:	Saudi Arabia

CA/CAC 22/40/22	
 Develop a clear and unified definition for the term "new food" and the specified NFPS topics. An EWG or a task force can be established to develop such definitions. Identify and divide the products that have a history of consumption in some countries from those new products that do not obtain a history of consumption, and accordingly request country members to provide the available information on these food sources, the regulatory framework and the history of consumption. 	
•Request all Codex Committees to review and determine whether any Codex standards, guidelines, or codes of practice under their purview need to be amended to meet these "new foods". Then, the Codex Alimentarius Commission should be asked to receive reports from each Codex Committee outlining their conclusions including clear gaps and their recommendations to overcome them (perhaps the potential of developing new work in this field).	
Topics 3 and 4 have yet to be considered by CAC. These topics have been elaborated in our response under (a) and (b).	Singapore
Uruguay no encuentra aspectos que no se hayan examinado y sean necesarios considerar.	Uruguay
The United States is not aware of any aspects relevant to standard-setting that have not yet been considered by the CAC. As mentioned above, the guidance being prepared by the Secretariat should be useful in outlining the procedures available to members in addressing areas of new work.	USA
In the context of NFPS, there are certain aspects of standard-setting such as labelling which can be addressed within the current structure of Codex, however, as of yet no such work has been initiated. The adoption of consistent nomenclature is crucial in terms of bringing such products to the commercialised market. Codex guidelines on the labelling of NFPS would help ensure consumers are well informed and not misled. Furthermore, harmonisation regarding the approach taken to nomenclature would help prevent trade from being negatively impacted.	Food Industry Asia
IDF is not aware of any aspects relevant to standard setting for "new foods" that cannot be addressed within the current Codex structure and Procedures.	IDF/FIL
(d) Are you planning to propose any topics related to NFPS for consideration by Codex in short to medium term? If so, please indicate the topic(s route by which you may submit the proposal(s) (e.g. specific committee or to the CCEXEC)) and the potential
None have been identified for the immediate future.	Australia
No. Brazil is not planning to propose any topics related to NFPS for consideration by Codex in short to medium term.	Brazil
Not at this time	Canada
No	Colombia
A la fecha el sector productivo no ha manifestado la necesidad de alguna norma relacionada con FASPN.	Costa Rica
Se considera que conforme se vayan profundizando los debates correspondientes, y, de acuerdo a la toma de decisiones el país estudiará la posibilidad de proponer o apoyar algún tema específico de conformidad a su realidad nacional.	Ecuador
Topic Duration Potential Route Alternative sources of proteins Short term CCEXEC Aquaculture production systems Medium term CCEXEC Soilless farming and protective agriculture approaches Medium term CCEXEC	Egypt
The EU and its Member States do not currently have proposals related to NFPS. This does however not exclude the submission of proposals in the coming years that would be based on the EU experience in the area. Should these proposals not fall under the remit of a Committee, the EUMS would submit these proposals directly to the Commission. The EUMS note that it would be beneficial for the membership to have more clarity on how such NFPS	European Union
proposals would be considered by the CAC.	
	Iran New Zealand

It was recognised that having a Codex standard for such foods, that addresses food safety concerns while facilitating trade, could also have benefits in addressing food security concerns that are important to the region.	
CCNASWP16 also had an engaged discussion on new work proposals and identified breadfruit flour, Galip nut, and fish and fishery products as three possible topics for regional standards development. Samoa offered to lead the development of a discussion paper on breadfruit flour. Such a discussion paper could be prepared or consideration by CCNASWP17 tentatively scheduled for 2024.	
We are not in a situation to propose new work, however we would support new work on seaweed, which is a commodity that, albeit not being "new" to some members, still would need new work in Codex. The production of seaweed is significantly high globally, however there is no Codex standard nor guideline specifically addressing food safety in seaweed. Furthermore, to our knowledge global standards are generally lacking for seaweed. We would like to refer to the Report of the expert meeting on food safety for seaweed – Current status and future perspectives (fao.org) "Despite the current global trade in seaweed – and its projected increased utilization to support food security – there is presently no Codex standard or guidelines that specifically address food safety in seaweeds."	Norway
Por el momento no tenemos previsto proponer tema relacionado con las FASPN.	Peru
In the short term, guidelines for definition, classification criteria, and cataloging of NFPS are required. Once NFPS database is established after such work, the development of standards or guidelines for risk analysis and safety evaluation will be carried out efficiently in the long run. Specifically, for the cell-based foods, which are expected to grow rapidly with active international research, guidelines for cell-based foods by production technology and guidelines for the use of cell-based food terminology are first needed. Due to the nature of rapid development and change of new food sources, the gap between national awareness and technology level will grow over time. Therefore, we believe that the best way is to establish a separate committee to build-up a consistent and professional framework from the early stage of standard development. Otherwise, it will take a long time to decide which committee will have jurisdiction on each agenda to discuss the definition and scope of NFPS that are difficult to define, and to set the boundary of discussion. In order to respond quickly to the vast and rapidly changing characteristics of new food sources and to prevent blind spots in safety management, the establishment of Ad hoc Intergovernmental Task Force or committee dedicated only to NFPS would be suitable to discuss the above topics.	Republic of Korea
At the moment, the Kingdom of Saudi Arabia has no project plans related to NFPS for consideration by Codex. Nevertheless, we are pleased and fully prepared to contribute in any new work related to NFPS in the mere future.	Saudi Arabia
Singapore will be developing the topics described in (a) further, in preparation for submission to Codex for consideration. Singapore plans to submit the proposals via CCEXEC, or the ad hoc inter-governmental task force on NFPS should this structure be established by Codex.	Singapore
Uruguay no tiene previsto proponer tema alguno relacionado con las FASPN	Uruguay
The United States worked with Canada to prepare a discussion paper on consideration of work to develop Guidelines including General Principles for the Nutritional Composition of Foods and Beverages made from Plant-based and other Alternative Protein Sources. The paper was discussed at the 43rd Session of the Codex Committee on Nutrition and Foods for Special Dietary Uses (CCNFSDU43, March 2023). The Committee agreed to continue its consideration of this topic based on a refined discussion paper at the next session.	USA
The United States is also considering submitting a discussion paper related to food contact material, specifically with respect to food safety considerations related to use of recycled packaging materials. One way forward could be review of the issue by a Working Group of the CAC. This approach may provide an example for how NFPS could be handled in the future.	

EUVEPRO is not planning to propose any topics related to plant-based protein alternatives or other NFSP for consideration by Codex and would advise against the development of general Codex principles for the nutritional composition of foods and beverages made from plant-based and other alternative protein sources, as currently being considered by CCNFSDU. The plant-based food category currently lacks a universally accepted definition, which will be outlined in the ISO standard for plant-based foods to be published in 2024. It is also important to note that the composition and attributes of animal-derived products to which plant-based foods are commonly compared are not standardised. In general, these foods are not intended to be nutritionally equivalent in terms of advantageous or disadvantageous nutrients, therefore aiming for nutritional equivalence would be inappropriate. They each have their place in a balanced diet and premature guidelines risk hindering the innovation and development of new and diverse plant-based products that meet the varied needs and preferences of consumers in a sustainable way.	European Vegetable Protein Association
Please see the inputs provided in response to questions a) to c).	Food Industry Asia
At this time IDF is not planning to propose any topics related to NFPS but reserves the right to any opportunity to engage and comment on topics proposed by CODEX members or other NGOs.	IDF/FIL