Criticism of the NOVA classification: who are the protagonists?

Authors: Melissa Mialon^a, Paulo Sêrodio^b, Fernanda Baeza Scagliusi^a

^a Departamento de Nutrição, Faculdade de Saúde Pública, Universidade de São Paulo (USP), São Paulo, Brazil

^b School of Economics, University of Barcelona, Barcelona, Spain

Funding

This work was supported by the São Paulo Research Foundation (FAPESP), Brazil under grant number 2017/24744-0 to MM. FBS was supported by the Brazilian National Council for Scientific and Technological Development (CNPq) (grant number 311357/2015-6). The authors are solely responsible for the opinions, hypotheses and conclusions or recommendations expressed in this publication, and they do not necessarily reflect FAPESP and/or CNPq vision.

Editorial note: This paper was subject to blind reviews by three peer reviewers. It was received on December 10, 2018 and accepted for publication on December 28.

Abstract

The NOVA classification is based on the extent and purpose of industrial processing of foods and beverages. It is increasingly used by health authorities as an effective proxy for the healthiness of these products. In particular, the consumption of ultra-processed food and beverage products (UPP) is associated with an increased risk of developing noncommunicable diseases. NOVA has also been criticised. In this paper, our hypothesis was that this criticism came from individuals who had relationships with the UPP industry, one way or another. Between August and December 2018, we undertook a series of searches on PubMed, Google and Web of Science, to map the relationships between these individuals and the UPP industry. In total, we identified thirty-two materials criticising the NOVA classification, most of which were non-peer-reviewed. We identified 38 individuals as authors of these documents, among which we found 33 who had relationships with the UPP industry. Among the five individuals for whom we found no relationships with the industry, two were recent graduates and one had no known affiliation. During our analysis, we identified three types of relationships. The first one was when these individuals directly worked with the industry. The second type of relationship was conflicts of interest that individuals declared in their publications, or that they did not declare, but that we found online. The third type of relationship was when the organisations that hosted or presented the criticism of NOVA had relationships with the UPP industry. This study showed that there is currently a need for greater transparency in research and scientific reviews, as many of these relationships were not declared in the materials criticising NOVA.

Introduction

Non-Communicable Diseases (NCD) are the leading cause of mortality, globally (World Health Organization 2014). One of the main risk factors for developing NCD is unhealthy diets, particularly those high in ultra-processed food and beverage products (UPP) (World Health Organization 2014; World Health Organization 2004; Pan American Health Organization 2015).

UPP are one of the groups in the NOVA classification (Group 4), which is based on the extent and purpose of industrial processing of foods and beverages, and was first introduced in 2009 by a Brazilian research group (Monteiro 2009). Group 1 in NOVA is made of unprocessed or minimally processed foods; Group 2 includes "processed culinary ingredients, such as oils, butter, sugar and salt, are substances derived from Group 1 foods or from nature by processes that include pressing, refining, grinding, milling and drying" (Monteiro et al. 2018); Group 3 is made of processed foods, made essentially by adding ingredients from Group 2 to Group 1 foods (Monteiro et al. 2018). UPP, in Group 4, are "formulations made mostly or entirely from substances derived from foods and additives" and their consumption has been linked to "unhealthy dietary nutrient profiles and several diet-related non-communicable diseases" (Monteiro et al. 2018).

This type of classification is increasingly recognised as an effective proxy for the healthiness of these products (Moubarac et al. 2014; Monteiro et al. 2018a; Fiolet et al. 2018). NOVA was included the Dietary Guidelines for the Brazilian Population in 2014 (Ministry of Health 2014) and was later endorsed by the Pan-American Health Organization (Pan American Health Organization 2015). From 2013-2016, numerous articles about NOVA were published in World Nutrition (Monteiro 2011; Monteiro et al. 2012; Monteiro et al. 2016). In 2018, NOVA was the subject of a series of publications in the journal Public Health Nutrition (Public Health Nutrition 2018). This classification is now used in the Uruguayan dietary guidelines (Food and Agriculture Organization of the United Nations 2016) and was cited in a Senate report in Canada (Standing Senate Committee on Social Affairs 2016) and by the French High Council of Public Health in its recommendations for the new French dietary guidelines (Haut Conseil de la Santé Publique 2018).

NOVA has also been criticised by scientists (Gibney et al. 2017). Criticism is essential in science, as it helps stimulate and refine scientific progress. However, our hypothesis is that criticism of the NOVA classification has come mainly from individuals and/or organisations that have had relationships with the UPP industry, one way or another. We define the UPP industry as companies that make most of their profits from UPP. This includes manufacturers, ingredient suppliers, trade associations, etc. The UPP industry has a conflict of interest (COI) in discussions on the impacts of UPP on health. The existence of the UPP industry relies on the sales of these products. Any evidence that demonstrates an association between UPP consumption and an increased risk of NCD, or supports the regulation of the sale of these products, represents a threat to these profits.

In an attempt to mitigate any potential threats to the industry, companies engage in information management, which consists of shaping the evidence base in ways favourable to corporations (Mialon, Swinburn, and Sacks 2015; Mialon, Julia, and Hercberg 2018; Oreskes and Conway 2011; Michaels 2008). This is a well-documented political strategy of the UPP industry and is part of a broader set of strategies that aim to influence public polices and public opinion, also known as "corporate political activity" (CPA) (Mialon, Swinburn, and Sacks 2015; Mialon, Julia, and Hercberg 2018). For this study, our

hypothesis was that the UPP industry might be using such an information management strategy in the case of the NOVA classification. For example, in 2017, Monteiro et al. published a response to a commentary that criticised the classification (Monteiro et al. 2018b; Gibney et al. 2017). They noted that the article contained "factual and conceptual errors" (and proposed a rebuttal to each of these errors) and provided inappropriate references to the literature (citing for example an article on famine while discussing about the association between the consumption of UPP and obesity) (Monteiro et al. 2018b). They also pointed to the lack of transparency about the conflicts of interests between the authors of that article and the UPP industry (Monteiro et al. 2018b).

In this study, our aim was to identify the relationships, if any, between individuals and organisations who have recently criticised the NOVA classification and the UPP industry. We therefore explored the COI that these individuals/organisations had with the UPP industry and how these were reported, as it represents a bias for those who have criticised these types of food and beverage classifications. This article therefore discusses about COI and transparency in research in the context of the NOVA classification. Our intention was not to assess the content of the criticism, which would have been beyond the scope of this article, but to describe these relationships and COI.

Methods

All searches were conducted between August and December 2018.

First, we undertook a search on PubMed, on 1 August 2018, using the keyword "ultraprocessed', with no limit to our timeframe or language. Our inclusion criterion was that the publications should criticise the NOVA classification of foods and beverages. From 168 results obtained from this search, only one commentary matched this criterion (Gibney et al. 2017). We then conducted backward searches, where we collected relevant publications, in accordance with our inclusion criterion, from the references section of the identified commentary (Gibney et al. 2017) and then from any new publication that we found. We also conducted forward searches on Scopus to identify other publications that cited the commentary and any other scientific publications identified during data collection. Finally, we contacted NOVA experts to identify additional material. We expanded these searches for all materials that we later identified during this study, through contact with experts.

We then identified information relevant to the relationships between the authors of the materials collected for this study and the UPP industry. We used information provided in the materials themselves, and conducted additional searches online, using Google, with the name of the authors as search terms. We did not limit our analysis to a certain timeframe. We searched for:

- 1. Declarations of interest sections in scientific publications;
- 2. The funding acknowledgments sections, in the same publications;
- 3. The institutions to which the authors were affiliated, as declared in these publications, and any links between these institutions and the UPP industry;
- 4. Any relationship between the institutions where the materials retrieved were hosted/presented and the UPP industry;
- 5. Other relationships between the authors and the UPP industry, such as participation in meetings or awards received from the industry.

In addition, we used Web of Science Core Collection to retrieve the publication profile of the individuals identified in the searches described above (Appendix 1 presents our search parameters). We only conducted these searches for individuals who were affiliated to academic institutions and therefore did not directly work with the UPP industry. This condition removed seven individuals from our search, such as consultants working with the industry, therefore having an *ex ante* COI. We searched for the individuals' name and university affiliation and retrieved the metadata associated with their publications. In particular, we parsed through the COI/funding statements and identified which of the entities mentioned in the statement were associated with the UPP industry.

Using this information, we created two types of networks. First, we connected individuals to the companies operating in the UPP industry, based on reported ties between them. These networks are called two-mode networks, as they connect two different entities: individuals and organisations. We plotted two of these networks: the first using information obtained from the aforementioned Google searches; the second used information we obtained from the funding statements in the publications retrieved from our Web of Science search. The second type of network depicts co-authorship patterns, as it uses the metadata on the publications yielded by our Web of Science search, and creates ties between each pair of authors in each co-authored publication. We display a simple co-authorship network where we highlight the authors of materials criticising NOVA classification. Furthermore, to better understand the structure of the co-authorship network, we ran the Girvan-Newman algorithm to detect research communities in the network. This is a graph-theoretic iterative procedure that calculates edge-betweenness centrality for each edge in the network (that is, it calculates the degree to which that edge acts like a bridge between all other dyads in the network), removes it, recalculates edge betweenness, continually disconnecting the graph until visible clusters start to appear. The procedure maximises modularity, a measure that determines how "good" are the clusters/communities identified by the algorithm, based on comparing the number of ties within clusters vis-a-vis what we would expect by chance. The optimal partition of the network is that which maximises the modularity score.

This study was designed as a preliminary inquiry. Therefore, the list of relationships between individuals/organisations and the UPP industry presented in this manuscript was not meant to be exhaustive, but rather illustrative.

Finally, we want to reflect on the fact that two of us are currently employed by NUPENS (one of us joined the group in 2018), the group that initially developed NOVA, although we were not involved in that work, but other projects in qualitative research. This represents a bias which may influence our exploration of the criticism of NOVA.

Results

In total, we identified 32 materials criticising the NOVA classification (or more broadly, the classification of foods and beverages, based on their extent and purpose of processing). Among these 32 materials, seven were scientific articles. Other materials included commentaries, editorials and other non-peer-reviewed materials in scientific journals, as well as videos and a website, oral presentations at scientific and industry events, as well as a public hearing for a new bill. These documents were published/presented in Belgium, Brazil, Colombia, France, the United Kingdom (UK) and the United States of America (USA).

We identified 38 individuals as authors of these documents. The list of materials retrieved and individuals who authored these documents is presented in Table 1. The key messages from the materials questioning NOVA are presented in Appendix 2.

Table 1: Authors and materials where the classifications of food and beverages ba	ised on
their extent and purpose of processing was criticised	

Nat	ure and details about the document	Authors (alphabetical order for each document) ^{a,b}
1.	<i>Scientific article</i> : Contributions of Processed Foods to Dietary Intake in the US from 2003–2008: A Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition and Dietetics, American Society for Nutrition, Institute of Food Technologists, and International Food Information Council. Journal of Nutrition. 2012; 142(11):2065S-72S	Eicher-Miller, Heather*; Fulgoni III, Victor*; Keast, Debra*.
2.	<i>Scientific article</i> : Processed Food Contributions to Energy and Nutrient Intake Differ among US Children by Race/Ethnicity. Nutrients. 2015; 7(12): 10076–88	Eicher-Miller, Heather*; Fulgoni III, Victor*; Keast, Debra*.
3.	<i>Scientific article</i> : Energy and Nutrient Intakes from Processed Foods Differ by Sex, Income Status, and Race/Ethnicity of US Adults. Journal of the Academy of Nutrition and Dietetics. 2015; 15(6): 907-18.e6	Eicher-Miller, Heather*; Fulgoni III, Victor*; Keast, Debra*.
4.	<i>Scientific article</i> : Comparison of Child Lunch Meals in Brazil. Food and Nutrition Sciences. 2016; 7: 262-72	Franciscato Cozzolino, Silvia Maria; Martins, Carolina; Sanchez Oliveira Jensen, Natália.
5.	<i>Scientific article:</i> The Myth of Ultra-Processed Foods. EC Nutrition. 2017; 12(3): 148-51	Madi, Luis*; Vialta, Airton*; Rego, Raul Amaral*.
6.	<i>Scientific article</i> : Les aliments hyper-transformés : un nouveau concept discuté. Médecine des Maladies Métaboliques. 2018; 12(4): 381-6	Lecerf, Jean Michel.
7.	<i>Scientific article</i> : Ultra-processed foods: definitions and policy issues. Current Developments in Nutrition. 2018; nzy077, https://doi.org/10.1093/cdn/nzy077	Gibney, Michael*.
8.	<i>Letter in a scientific journal</i> : Nutrient profiling: The good, the bad, and the ultra-processed. Public Health Nutrition. 2009;12(10): 1967–70	Darmon, Nicole.
9.	<i>Scientific statement in a scientific journal</i> : Processed foods: contributions to nutrition. American Journal of Clinical Nutrition. 2014;99: 1525–42	Dwyer, Johanna*; Fulgoni III, Victor*; King, Janet; Leveille, Gilbert; MacDonald, Ruth; Ordovas, Jose; <i>Schnakenberg, David;</i> Weaver, Connie.
10.	<i>Communication in a scientific journal</i> : Brasil Processed Food 2020: um projeto em defesa da industrialização de alimentos. Brazilian Journal of Food Technology. 2015; 18(4): 337-9	Madi, Luis*; Rego, Raul Amaral*.
11.	<i>Commentary in a scientific journal</i> : Ultra-processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. 2017; 106:717–24 (and corrigendum)	Forde, Ciaran; Gibney, Eileen; Gibney, Michael*; <i>Mullally, Deirdre</i> .
12.	<i>Review of a scientific article:</i> aliments « ultra- transformés» et cancer. Cahiers de Nutrition et Diététique. 2018; 53: 74-5	Guy-Grand, Bernard.

13.	<i>Editorial i</i> publique, Diététique	<i>n a scientific journal:</i> Alimentation, santé étiquetage, où va-t-on ? Cahiers de Nutrition et 2018: 53: 123-4	Chardigny, Jean-Michel.
14	Publicatio	in resulting from an event: Is "Processed" a	Clemens Roger*:
17.	Four-Lette	er Word? The Role of Processed Foods in	Dwyer Johanna*:
	Achieving	Dietary Guidelines and Nutrient	Freedman Mariorie
	Recomme	ndations. American Society for Nutrition.	Fulgoni III. Victor*:
	Advances	in Nutrition, 2012: 3: 536–48	Schmidt, David.
15.	Publicatio	<i>on resulting from an event</i> : Conference on	
10.	'Nutrient_	nutrient interaction' - Plenary Lecture 1- Food	
	processing	r criteria for dietary guidance and public health?	
	Nutrition S	Society Scottish Section Meeting held at the	Miller Jones, Julie*.
	Roval Col	lege of Physicians and Surgeons, Glasgow on	
	26–27 Ma	rch 2018. Proceedings of the Nutrition Society.	
	2018; doi:	10.1017/S0029665118002513	
16.	Event: AA	CCI Events & News: Cereals 17 Symposium:	
	Food selec	ction according to food processing: fabulous or	Clemens, Roger*;
	flawed? Pr	rocessed and Ultraprocessed Foods Defined - An	Miller Jones, Julie*.
	Alice in W	Vonderland Question? 2017	
17.	Event: AA	CCI Events & News: Cereals 17 Symposium:	
	Food selec	ction according to food processing: fabulous or	Clamons Pagar*:
	flawed? In	ntroductory Brain Teaser for the Cereal Chemist	Miller Jones Julie*
	- How Do	We Categorize Processed and Ultraprocessed	Winter Jones, June 1.
	Foods? 20	17	
18.	Event: The	e Nutrition Society, Spring Conference 2018:	
	Nutrient-n	utrient interaction, Plenary Lecture One Avoid	Miller Iones Julie*
	processed	and ultra-processed foods: Sound bite advice or	while solies, suite .
	just a sour	nd bite. 2018	
19.	Event: Bel	gian Nutrition Society, Eight annual meeting,	
	May 4th, 2018: Session 1: Keynote 1: Ultra-processed		Gibney, Michael*.
20	toods in h	uman health: a critical appraisal. 2018	
20.	Event: Sea	ince hebdomadaire de l'Académie d'Agriculture	
	de France:	Des matieres premieres agricoles aux aliments :	
		tet des procedes de transformation sur la qualite	
	de l'annier	Introduction Corona Deceal	
	a. h	Introductioni - Gerard Pascal	Daggal Gárard
	U.	attribute des alimente. Gilles Trystrom	Trystrom Gillos:
	C	Mieux connaître la transformation industrielle	Souchon Isabelle
	с.	et la diversité de nos aliments pour une	Dupont Didier:
		alimentation plus saine et plus durable :	Braesco Véronique
		exemple d'une cartographie multicritère du	Diaeseo, veroinque.
		marché français des pizzas- Isabelle Souchon	
	b	La structure des aliments module leur cinétique	
	u.	de digestion et la biodisponibilité des	
		nutriments - Didier Dupont	
	e.	Conclusion - Véronique Braesco	
21.	Project: B	rasil Processed Food 2020	
	a.	Publication: ITAL. Alimentos industrializados:	
		a importância para a sociedade brasileira.	Madı, Luis*;
		Editores: Rego R. A., Vialta A. and Madi L.	Vialta, Airton*;
		2018.	kego, kaul Amaral*.
		http://alimentosindustrializados.com.br/2/	

b. website: http://www.alimentospressedes.com.br/platef	
orma.php	
 22. Public hearing: Comentarios al Proyecto de Ley 07 de 2017 por Jairo Romero, audiencia publica de la comisión séptima del senado de la republica de Colombia, Octubre 26 de 2017. 2017 	Romero, Jairo.
 23. Other presentation: Acerca de los sistemas de clasificación de alimentos y su racionalidad científica, IIº consejo tecnico de IFAN, Santiago de Chile, 27 de marzo, 2018. 2018 	Morán, Javier.
 24. Video: One Size Doesn't Fit All When it Comes To Processed Foods http://bcove.me/gzuw84jj 	Eicher-Miller, Heather*.
25. <i>Video</i> : Processed Food Makes Our Lives Better http://bcove.me/0nq5lbx2	Decker, Eric.
26. <i>Video:</i> Everything is Processed http://bcove.me/p3fyebvk	Floros, John.
27. <i>Video:</i> Processed Foods Wonderful For Women http://bcove.me/77r4zm4t	Shelke, Kantha.

^aThe asterisks identify individuals who participated in more than one material

^bFor authors in italics, we found no evidence of a relationship with the UPP industry

From the preliminary searches using the materials retrieved for this study and Google, we found that at least 31 individuals interacted, at some point, with the UPP industry. Ten individuals (one quarter of all authors) appeared on more than one publication. All evidence for data included in Table 1 and in the results section of this manuscript is available as Appendix 3.

During our analysis, we identified three types of relationships. The first one was when individual authors directly worked with the UPP industry. The second type of relationship was the COI that individual authors declared in their publications, or that they did not declare, but that we found online. The third type of relationship was between organisations that hosted or presented criticism of NOVA and the UPP industry. In this manuscript, we will present each of these relationships.

Individuals who worked with the UPP industry

We first identified that, at the time of publication of the materials included in this study, seven individuals (a fifth of all authors) worked with the UPP industry, as detailed in their affiliations or declarations of interests, as shown in Table 2. This represents a COI in the discussion of concern, as described earlier.

Table 2: Individuals who were working, or recently worked, with the UPP industry at the time of publication (in alphabetical order)

Name of individual (alphabetical order)	Country	Industry affiliation	Principal activity of the industry actor
Braesco, Véronique	France	Director of VAB- Nutrition	A consulting company that works for the UPP industry
Fulgoni III, Victor	USA	Nutrition Impact	A business that "helps companies market their food products by

			promising drug-like benefits" (Source Watch 2018)
Keast, Debra	USA	President of Food & Nutrition Database Research & sub-contracted by the above-mentioned Nutrition Impact	For Nutrition Impact, Debra Keast conducted research funded by a UPP industry actor
Leveille, Gilbert	USA	UPP industry consultant	Unknown
Romero, Jairo	Colombia	President of the Asociación Latinoamericana y del Caribe de Ciencia y Technologia de Alimentos (ALACCTA)	A regional association of food technologists, including industry actors (ALACCTA 2018)
Schmidt, David	USA	President and CEO of the International Food Information Council (IFIC)	IFIC is supported by several UPP industry actors, including: Abbott Nutrition, the Coca-Cola Company, Danone North America, Ferrero USA, General Mills, Inc., Mondelēz International, PepsiCo, Red Bull North America, Subway, Yum! Brands (International Food Information Council 2018)
Shelke, Kantha	USA	Founder and principal of Corvus Blue	A "food science and consumer packaged goods development firm" (Shelke 2018)

Most of these individuals were based in the USA, reflecting the location of publication of most of the materials retrieved. None of these authors directly worked for the UPP industry. Instead, they worked for trade associations, did consultancies for the UPP industry, etc. These indirect relationships mean that it might be more complicated to identify these industry affiliations in the scientific literature.

Conflicts of interest declared and not declared

In addition to these individuals who worked with the UPP industry, we identified many conflicts of interests (COI) for other individuals. Some of these conflicts were declared, but many other links with the UPP industry were not, and only identified through additional searches.

First, our Web of Science search yielded 1,734 publications authored by 26 of the 38 individuals identified above. We removed from our searches the seven individuals who worked directly with the food industry and had no known academic affiliation; a further four individuals did not feature in the results of this search because either their publications were not indexed on Web of Science or, when indexed, the metadata did not include their academic affiliations, which prevented us from ensuring that we had identified the right individual. Finally, there was one person with no known affiliation, D. Schnakenberg. In that case, we could not run a search for him, as there could have been several people with the same name on Web of Science and we had no criteria to identify the right one.

These Web of Science searches confirmed our findings from our Google searches, and provided us with a deeper insight into the relationships between individuals and the UPP industry. They revealed that two more individuals had relationships with this industry (R. MacDonald and I. Souchon). This means that, in total, our analyses revealed that 33 of the 38 individuals who have criticised NOVA had relationships with the UPP industry. Among the five individuals (in italics in Table 1) for which we found no evidence of a relationship with the UPP industry, two were recent graduates in nutrition and we could not find information online for another individual, as stated above.

Below, we analyse the resulting funding patterns and co-authorship networks from our Web of Science searches. Figure 1 presents all components of the network of relationships between individuals who have criticised NOVA and the UPP industry.



Figure 1. Two-mode network depicting ties between individuals and companies in the UPP industry.

Nodes are sized by degree centrality (total number of connections). Individuals' names are in red and UPP industry affiliated actors are in green. Layout algorithm optimised to decrease label and node overlap.

The most central researchers in this network are JM. Lecerf, E. Decker and R. Clemens, all of whom have ties to the most central UPP industry organisation in this network: the International Life Science Institute (ILSI). In fact, at least half (20/38) of the individuals criticising NOVA had relationships, at some point, with ILSI, a scientific organisation funded by the food industry (International Life Science Institute 2016). ILSI was once described as a "corporate lobby group" and its activities were considered to be in conflict with public health interests (Corporate Europe Observatory 2012). There is evidence that ILSI had strong ties with the tobacco industry and it was criticised for its lobbying against tobacco control efforts (World Health Organization 2001). In 2016, the Guardian reported that ILSI was also funded by the pesticides industry (Nelsen 2016). ILSI was "founded in Washington in 1978 by the Heinz Foundation, Coca-Cola, Pepsi-Cola, General Foods, Kraft (owned by Philip Morris) and Procter & Gamble" (Boseley 2003). The most recent data available show that, in 2015, ILSI was supported by dozens of transnational companies, including Cargill, Coca Cola, Danone, General Mills, Mc Donald's, Mondelez, PepsiCo, and Unilever (International Life Science Institute 2016). Some of the individuals who criticised NOVA published reports or presented their work at ILSI events, but others had more substantial roles in the organisation. C. Weaver is the chair of the ILSI board of trustees and chair of the ILSI board publications committee (International Life Science Institute 2018a). At ILSI Europe, M. Gibney is a member of the board of directors and G. Pascal is a member of the nominations committee (International Life Science Institute 2018b).

Another interesting feature depicted in the network is the fact that the two most central actors, JM. Lecerf and R. Clemens, only share one connection in common (ILSI), but are both extremely well connected to corporations in their respective countries. In France, JM. Lecerf works at the Institut Pasteur de Lille, an institution that has had ties with such actors in the UPP industry as Coca Cola and Danone (Mialon and Mialon 2017; Mialon and Mialon 2018). In the USA, R. Clemens was a scientific Advisor for Nestlé USA for more than two decades (PolyScience consulting 2018). He provided consulting services or served on the advisory council of, among others, the Corn Refiners Association, the Dairy Council of California, McDonalds, the National Restaurant Association and Quaker Oats (Clemens et al. 2016).

In order to gauge the extent to which these individuals were embedded in prolific research communities, we sought to map their co-authorship networks from the searches we conducted in Web of Science, using the individual's name and their current academic affiliation. In total, these researchers were involved in 1,734 publications between 1998 and 2018. In Figures 2 and 3, we depict their co-authorship network, that is, we represent graphically the co-authorship links between any of the listed authors in the 1,734 publications we retrieved from Web of Science (that is, publications in which at least one of the 26 researchers from our sample was involved in). In Figure 2, the blue names represent the authors in our sample criticising NOVA and the nodes in red represent their co-authors (thicker lines indicate a higher number of published papers between any pair of co-authors (thicker lines indicate a higher number of co-authored papers). Overall, the researchers seemed scattered between different research groups, with one of them very close to the core of the network where a large research community proliferates. Apart from the core, the subgroups in the network with higher density (higher concentration of ties) are actually formed around where the researchers of interest are located.



Figure 2. One-mode co-authorship network.

Nodes taking the form of circles represent authors, and are linked by edges when they co-author a paper. The edges are weighted by the number of publications co-authored by any pair of authors (the thicker the edges, the higher the number of publications). Blue names identify the 26 authors in our sample, red circles identify their co-authors.

In Figure 3, we illustrate how the network is organised in different subgroups by colouring the different partitions of the graph, following an algorithm that iteratively disconnects edges from the network based on edge betweenness.



Figure 3. Co-authorship network, where nodes are authors tied to each other when sharing authorship in the same scientific publication.

The network is divided in coloured factions/clusters, which represent different research communities in the network. The authors in our sample have label tags with their surname and are coloured according to the research community they belong to.

The subgroups coloured in Figure 3 can have different bases: some are organised geographically (language might be influential as well), others are organised around research topics and others around academic institutions. We labelled and coloured the nodes corresponding to the researchers of interest in our sample, according to which community in the network they belong to.

Lastly, we attempted to recreate Figure 1 using only the funding acknowledgement/COI statement statements in the 1,734 publications we retrieved from the Web of Science search. We manually inspected each funding acknowledgement/COI statement and identified companies who worked in the food and beverage industry at large, irrespective of whether the majority of their profits were drawn from UPP. Comparing Figure 1 with Figure 4, we quickly realised that the funding statements in published research

underreported the ties between researchers and the UPP industry. The reasons for this are unclear. On the one hand, researchers may deliberately fail to report their relationships with industry. On the other, some journals' guidelines on what constitute a COI may not warrant the disclosure of such ties. Nonetheless, these ties to industry are more often than not invisible to the readers of said research, and exercises such as this one bring clarity to a complex web of relationships that can have a detrimental impact on how science advances in public health nutrition.



Figure 4. Two-mode network depicting ties between individuals and actors in the UPP industry, as per the funding statements in the 1,731 publications retrieved from our Web of Science search.

Nodes are sized by degree centrality (total number of connections). Red circles represent individuals. Green circles represent industry actors. Layout algorithm optimised to decrease label and node overlap.

This brief network analysis of researchers' ties to industry brought us two important insights: (1) the researchers we studied are very well connected, heavily published, and have the ability to influence many scientific forums; (2) many of their ties to UPP industry are underreported in their published work.

Platforms where NOVA was criticised and relationships with the UPP industry

Finally, we identified that many organisations who hosted/published a criticism of the NOVA classification also had relationships with the UPP industry.

We found one document that was published in the Journal of the Academy of Nutrition and Dietetics (AND). In 2013, Simon, a lawyer, showed that the AND was sponsored by industry actors such as General Mills and Kellogg and the association presented a list of approved continuing education providers in which Coca-Cola, Kraft Foods, Nestlé, and PepsiCo were included (Simon 2013). The UPP industry (e.g.; the Corn Refiners Association, Nestlé) was also involved in the annual event of the association, presenting their products at the exhibition and sponsoring scientific sessions (Simon 2013). Many of the speakers at these events had ties with the industry, not necessarily disclosed to the participants (Simon 2013). It was suggested that these relationships between the AND and the industry might have discouraged the association from supporting effective (but controversial for the industry) public health nutrition policies (Simon 2013).

Several documents were published in the journals of the American Society for Nutrition (ASN) (and one symposium questioning the role of processing was hosted by the ASN). Here again, in 2015, Simon, described the relationships between the ASN and the UPP industry (Simon 2015). Simon listed the partners of the ASN, many of which were from the UPP industry, and explained that industry actors such as PepsiCo sponsored sessions at the ASN annual event and other meetings (Simon 2015). In this report, Simon discussed one ASN publication discrediting the NOVA classification, and how this might be linked to the fact that the ASN had strong ties with the UPP industry (Simon 2015). Three years after the publication of this report, the ASN is still partnering with many major actors in the UPP industry: the General Mills Bell Institute of Health and Nutrition, the Kellogg Company, Mars Inc., Nestle Nutrition, PepsiCo, the Coca Cola Company, the Dannon Company (US subsidiary of Danone), the Sugar Association, and Unilever (American Society for Nutrition 2018a). In addition, the society provides industry-sponsored scholarships to students in nutrition (American Society for Nutrition 2018b). One ASN symposium was sponsored by the American-based Institute of Food Technologists (IFT) and the International Food Information Council (IFIC). IFIC has been introduced earlier in this manuscript, in Table 1. The outcomes of this ASN symposium were published in an ASN journal, and one of the authors of this document was a former member of the IFT Board of Directors. In addition to this symposium, the IFT also published a series of videos included in the materials we collected for this study questioning the NOVA classification. The IFT has had numerous relationships with the UPP industry. As of August 2018, its current president was employed by DuPont Nutrition and Health, its treasurer was "a seasoned industry veteran with more than 21 years of food and beverage experience" (Institute of Food Technologists 2018), and many of its board members worked with this industry. From our searches online, we concluded that the IFT was not transparent enough about its industry partners on its websites.

In the United States of America again, two documents were presented as part of a cereal industry-sponsored event called "Cereals 17", organised by AACC International (AACC

International 2018a). AACC is an association of "scientists and food industry professionals" (AACC International 2018b).

In France, an event was organised at the French Academy of Agriculture to criticise the NOVA classification. From our searches, the only relationship that we could establish between the Academy and the industry was through the declaration, on the website of the academy: "The French Academy of Agriculture is, notably, in working relations with (...) most professional organisations in the agriculture and food sectors, as well as with their technical centres" (our translation) (Académie d'Agriculture de France 2018a).

In France again, a review and an editorial were published in 2018 that discredited the NOVA classification. We previously introduced the conflicts of interest of the researchers who wrote these documents. In addition, the scientific journal "les Cahiers de Nutrition et Diététique", in which these documents were published, also had links with the food industry. We found that three of its editorial board members directly worked for the food industry: one, cited earlier in this manuscript, worked for VAB-Nutrition, and another for Linkup (LinkUp Factory 2018), which are two consulting firms for the food industry, and the third person worked for Nestlé (Cahiers de Nutrition et de Diététique 2018).

In Belgium, the Belgian Nutrition Society hosted a session at its annual conference, where M. Gibney presented his rebuttal of the NOVA classification (Belgian Nutrition Society 2018a). The conference was sponsored by actors in the UPP industry such as Yakult and the Belgian Fédération de l'Industrie Alimentaire (FEVIA) (Food Industry Federation) (Belgian Nutrition Society 2018b). It is important to note that counter-arguments were also presented during the session, with authors of NOVA publications sharing their own research findings (Belgian Nutrition Society 2018a).

In Chile, a presentation criticising the NOVA classification was given at IFAN, a "public private programme, created from an alliance between the food industry and academia" (IFAN 2018). IFAN is a consortium of partners, including actors in the UPP industry such as the Consorcio de Cereales Funcionales (CCF) (Functional Cereal Consortium) and Granotec (Red agricola 2017).

Finally, in Brazil, three employees of the Instituto de Tecnologia de Alimentos (ITAL) (Institute of Food Technology) produced materials questioning the NOVA classification. ITAL is a public organisation from the State of São Paulo, closely linked to the UPP industry, as stated on its website: "For companies, ITAL offers consulting, training and analysis services, with guarantee of exemption and competence. According to its strategic plan, ITAL has oriented its activities towards the generation of innovation projects, investing in the study of trends in the food sector, establishing partnerships and forming collaborative networks, involving the private sector and other stakeholders of the food sector" (Instituto de Tecnologia de Alimentos 2018a). ITAL's project "Brazil Processed Food 2020" was conducted in partnership with the Associação Brasileira das Indústrias da Alimentação (ABIA) (Brazilian Association of Food Industries), one of the largest food industry trade association in the country (Instituto de Tecnologia de Alimentos 2015). A long list of other trade associations were also involved in the project (Instituto de Tecnologia de Alimentos 2015). ITAL's website called "Processed Foods" was created under this project, and its technical committee includes members from the UPP industry, such as ABIA, IFIC (mentioned above) and ILSI Brazil (Instituto de Tecnologia de Alimentos 2018b). This website questioned the NOVA classification.

We identified four journals in which a criticism of NOVA was published and that had no relationship with the UPP industry, to our knowledge: "Public Health Nutrition", "Medecine des maladies metaboliques", "Food and Nutrition Sciences", and "Nutrients".

The International Committee of Medical Journal Editors (ICMJE) explained that "a growing number of entities are advertising themselves as "scholarly medical journals" yet do not function as such. These journals ("predatory" or "pseudo-journals") accept and publish almost all submissions and charge article processing (or publication) fees, often informing authors about this after a paper's acceptance for publication. They often claim to perform peer review but do not and may purposefully use names similar to well established journals" (International Committee of Medical Journal Editors 2018). One of the article we identified for our study was published in such a predatory journal, "EC Nutrition" ("Beall's List of Predatory Journals and Publishers - Publishers" 2018).

Discussion

This study examined the relationships between the individuals/organisations that criticised the NOVA classification and the UPP industry. Our analysis showed that there is a lack of transparency and a potential bias from the individuals and organisations that have criticised these types of food and beverage classifications. 33 individuals (of the 38 that we have identified) had relationships with the UPP industry. Seven individuals who criticised NOVA directly worked with the UPP industry. Some others had either declared or hidden COI with this industry. It is concerning that a thorough review of the publication record of these individuals does not paint a complete picture of what their ties to industry are and how these can materialise in damaging conflicts of interest.

Moreover, some organisations that hosted or presented criticism of NOVA, such as the Academy of Nutrition and Dietetics (AND) in the USA, the Instituto de Tecnologia de Alimentos (ITAL) in Brazil, or the scientific journal "les Cahiers de Nutrition et Diététique" in France, also had relationships with the UPP industry.

Among the 32 materials that we found, there were a limited number of peer-reviewed scientific articles (7/32). However, scientific journals seemed to be used as a credible platform for disseminating this criticism, through letters, commentaries, report from meetings, etc. Other media such as videos and a website were also used. Each had a specific audience (e.g., scientists and the public).

There is a need for further investigations of the relationships between the employers of individuals who worked in academia and the UPP industry.

Our study has a number of limitations: it was not meant to be a systematic exercise, and was not exhaustive but rather presented the relationships between individuals/organisations that criticised NOVA and the UPP industry. Our intention was neither to assess the content of the criticism, nor to refute it. This might be the subject of further analyses. In addition, we did not limit our searches to a certain date in the past, and some might argue that there is a period after which a COI has no capacity to influence an individual any more. This also means that some individuals might only have declared their relationships with the UPP industry for the most recent years and not for their entire career. In the future, more searches could be conducted for all actors, those who have praised and those who have criticised this classification.

In conclusion, there are many relationships between individuals who criticised NOVA and the UPP industry, many of which are probably unknown to the public. This creates a COI and risks influencing the decisions of public health nutrition professionals and policy makers in ways favourable to the UPP industry and harmful to public health. In addition, this study shows that there is a need for greater transparency in research. Many conflicts of interest that we found in this study were not declared. This could have a detrimental impact on the how science advances in public health nutrition.

Acknowledgments

The authors would like to acknowledge Neha Khandpur for copy editing a draft version of the manuscript.

References

- AACC International. 2018a. "Cereals 2017." https://www.aaccnet.org/MEETINGS/ARCHIVE/2017/Pages/default.aspx.
 - —. 2018b. "About AACC." https://www.aaccnet.org/about/Pages/default.aspx.
- Académie d'Agriculture de France. 2018a. "Autres Partenaires." https://www.academieagriculture.fr/academie/rayonnement-partenariat/autres-partenaires.
 - —. 2018b. "Des Matières Premières Agricoles Aux Aliments : Quel Impact Des Procédés de Transformation Sur La Qualité de L'alimentation ?" May 2. https://www.academie-agriculture.fr/actualites/academie/seance/academie/desmatieres-premieres-agricoles-aux-aliments-quel-impact-des.
- American Society for Nutrition. 2018a. "Sustaining Partners." https://nutrition.org/sustaining-partners/.
 - _____. 2018b. "Awards." https://nutrition.org/about-asn/awards/.
- "Beall's List of Predatory Journals and Publishers Publishers." 2018. Accessed September 11. https://beallslist.weebly.com/.
- Belgian Nutrition Society. 2018a. "Ultra-processed Foods in Human Nutrition and Health - Belgian Nutrition Society Eight Annual Meeting, May 4th, 2018 - Proceedings."

—. 2018b. "Events - Belgian Nutrition Society." https://www.belgiannutritionsociety.be/events/.

- Boseley, Sarah. 2003. "WHO' ' 'Infiltrated by Food Industry." The Guardian.
- Cahiers de Nutrition et de Diététique. 2018. "Cahiers de Nutrition et de Diététique Editorial Board." https://www.journals.elsevier.com/cahiers-de-nutrition-et-de-dietetique/editorial-board.
- Chardigny. 2018. "Alimentation, Santé Publique, Étiquetage, Où Va-t-on ? [Editorial]." *Cahiers de Nutrition et de Diététique* 53 (3): 123–4.
- Clemens, Roger A., Julie M. Jones, Mark Kern, Soo-Yeun Lee, Emily J. Mayhew, Joanne L. Slavin, and Svetlana Zivanovic. 2016. "Functionality of Sugars in Foods and Health." *Comprehensive Reviews in Food Science and Food Safety* 15 (3): 433– 470. doi:10.1111/1541-4337.12194.
- Corporate Europe Observatory. 2012. "The International Life Science Institute, a Corporate Lobby Group."
- Darmon, Nicole. 2009. "The Good, the Bad, and the Ultra-processed. [Letter]." *Public Health Nutrition* 12 (10): 1967–8; author reply 1968. doi:10.1017/S1368980009991212.
- Decker. 2013. "Processed Food Makes Our Lives Better (Video)". presented at the Institute of Food Technologists, March.
- Dwyer, Johanna T., Victor L. Fulgoni, Roger A. Clemens, David B. Schmidt, and Marjorie R. Freedman. 2012. "Is 'Processed' a Four-Letter Word? The Role of Achieving Dietarv Guidelines Processed Foods in and Nutrient Recommendations." Advances Nutrition 3 536-548. in (4): doi:10.3945/an.111.000901.

- Eicher-Miller. 2013. "One Size Doesn't Fit All When It Comes To Processed Foods (Video)". presented at the Institute of Food Technologists, March.
- Eicher-Miller, Heather A, Victor L Fulgoni, and Debra R Keast. 2012. "Contributions of Processed Foods to Dietary Intake in the US from 2003-2008: a Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition and Dietetics, American Society for Nutrition, Institute of Food Technologists, and International Food Information Council." *The Journal of Nutrition* 142 (11): 2065S–2072S. doi:10.3945/jn.112.164442.

- Fiolet, Thibault, Bernard Srour, Laury Sellem, Emmanuelle Kesse-Guyot, Benjamin Allès, Caroline Méjean, Mélanie Deschasaux, et al. 2018. "Consumption of Ultraprocessed Foods and Cancer Risk: Results from NutriNet-Santé Prospective Cohort." *BMJ* (*Clinical Research Ed.*) 360 (February): k322. doi:10.1136/bmj.k322.
- Floros. 2013. "Everything Is Processed (Video)". presented at the Institute of Food Technologists, March.
- Food and Agriculture Organization of the United Nations. 2016. "Food-based Dietary Guidelines - Uruguay." http://www.fao.org/nutrition/education/food-baseddietary-guidelines/regions/countries/uruguay/en/.
- Gibney, Michael J. 2018. "Ultra-processed Foods: Definitions and Policy Issues." *Current Developments in Nutrition*, September. doi:10.1093/cdn/nzy077.
- Gibney, Michael J, Ciarán G Forde, Deirdre Mullally, and Eileen R Gibney. 2017. "Ultraprocessed Foods in Human Health: a Critical Appraisal. [Commentary]." *The American Journal of Clinical Nutrition* 106 (3): 717–724. doi:10.3945/ajcn.117.160440.
- Guy-Grand. 2018. "Analyse D'articles: Aliments « ultra-transformés» et Cancer." *Cahiers de Nutrition et de Diététique* 53 (April): 74–5.
- Haut Conseil de la Santé Publique. 2018. "Avis Relatif Aux Objectifs de Santé Publique Quantifiés Pour La Politique Nutritionnelle de Santé Publique (PNNS) 2018-2022."
- IFAN. 2018. "IFAN Quienes Somos." http://ifan.cl/quienes-somos/.
- Institute of Food Technologists. 2018. "Scott Lineback' ' IFT.org." Accessed December 3. http://www.ift.org/About-Us/Our-Leadership/Scott-Lineback.aspx.
- Instituto de Tecnologia de Alimentos. 2015. "SAA e ABIA Firmam Convênio Para o Desenvolvimento Do Estudo Brasil Processed Food 2020 Idealizado Pelo ITAL." http://www.ital.sp.gov.br/noticias.php?not_id=661.
- ------. 2018a. "Sobre o ITAL." http://www.ital.sp.gov.br/ital.php.

 2018. "Alimentos Processados | MITO: A Existência de Alimentos Ultraprocessados." Accessed December 25. http://www.alimentosprocessados.com.br/mitos-fatos-processamentoultraprocessados.php.

- International Committee of Medical Journal Editors. 2018. Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals - Updates Dec 2018. International Committee of Medical Journal Editors.
- International Life Science Institute. 2016. "2015 Member and Supporting Companies." http://ilsi.org/wp-content/uploads/2016/01/Members.pdf.
 - —. 2018a. "About Leadership & Financial Support." http://ilsi.org/about/leadership-support/.
- _____. 2018b. "About ILSI Europe." http://ilsi.eu/about-us/.
- Jones, and Clemens. 2017a. Cereals 17 Symposium Food Selection According to Food Processing: Fabulous or Flawed? Processed and Ultraprocessed Foods Defined - An Alice in Wonderland Question?

—. 2017b. Cereals 17 Symposium - Food Selection According to Food Processing: Fabulous or Flawed? Introductory Brain Teaser for the Cereal Chemist - How Do We Categorize Processed and Ultraprocessed Foods?

- Jones, Julie Miller. 2018. "Food Processing: Criteria for Dietary Guidance and Public Health?" *The Proceedings of the Nutrition Society*, September, 1–15. doi:10.1017/S0029665118002513.
- Lecerf, J M. 2018. "Les Aliments Hyper-transformés : Un Nouveau Concept Discuté." *Médecine Des Maladies Métaboliques* 12 (4): 381–386. doi:10.1016/S1957-2557(18)30107-X.
- LinkUp Factory. 2018. "La LinkUp Factory Fière D'accompagner Ferrero Dans Le Combat Pour Une Huile de Palme Durable! - Linkup Factory." http://www.lalinkupfactory.fr/linkup-factory-fiere-daccompagner-ferrerocombat-huile-de-palme-durable/.
- Madi, Luis, and Raul Amaral Rego. 2015. "Comunicação Rápida: Brasil Processed Food 2020: Um Projeto Em Defesa Da Industrialização de Alimentos." *Brazilian Journal of Food Technology* 18 (4): 337–339. doi:10.1590/1981-6723.1216.
- Martins, Sanchez Oliveira Jensen, and Franciscato Cozzolino. 2016. "Comparison of Child Lunch Meals in Brazil." *Food and Nutrition Sciences*, 262–72.
- Mialon, M, C Julia, and S Hercberg. 2018. "The Policy Dystopia Model Adapted to the Food Industry: The Example of the Nutri-Score Saga in France." *World Nutrition* 9 (2): 109–120.
- Mialon, M, and J Mialon. 2017. "Corporate Political Activity of the Dairy Industry in France: An Analysis of Publicly Available Information." *Public Health Nutrition* In press.
 - 2018. "Analysis of Corporate Political Activity Strategies of the Food Industry: Evidence from France." *Public Health Nutrition*, July, 1–15. doi:10.1017/S1368980018001763.

- Mialon, M, B Swinburn, and G Sacks. 2015. "A Proposed Approach to Systematically Identify and Monitor the Corporate Political Activity of the Food Industry with Respect to Public Health Using Publicly Available Information." *Obesity Reviews* 16 (7): 519–530. doi:10.1111/obr.12289.
- Michaels, David. 2008. Doubt Is Their Product: How Industry's Assault on Science Threatens Your Health. Oxford; New York: Oxford University Press.
- Ministry of Health. 2014. Dietary Guidelines for the Brazilian Population 2014.
- Monteiro. 2009. "Nutrition and Health. The Issue Is Not Food, nor Nutrients, so Much as Processing." *Public Health Nutrition* 12 (5): 729–731. doi:10.1017/S1368980009005291.
- Monteiro, C. 2011. "The Big Issue Is Ultra-processing. There Is No Such Thing as a Healthy Ultra-processed Product. [Commentary]." *World Nutrition* 2 (7): 333–49.
- Monteiro, Cannon, Bertazzi Levy, Claro, and Moubarac. 2012. "The Food System. Ultraprocessing. The Big Issue for Nutrition, Disease, Health, Well-being. [Commentary]." *World Nutrition* 3 (12): 527–69.
- Monteiro, Cannon, Levy, Moubarac, Jaime, Martins, Canella, Louzada, and Parra. 2016. "View of NOVA. The Star Shines Bright." *World Nutrition* 7: 1–3.
- Monteiro, Cannon, Moubarac, Levy, Louzada, and P C Jaime. 2018a. "The UN Decade of Nutrition, the NOVA Food Classification and the Trouble with Ultra-processing." *Public Health Nutrition* 21 (1): 5–17. doi:10.1017/S1368980017000234.
- Monteiro, Cannon, Moubarac, Levy, Louzada, and Patrícia C Jaime. 2018b. "Ultraprocessing. An Odd 'Appraisal'." *Public Health Nutrition* 21 (3): 497–501. doi:10.1017/S1368980017003287.
- Moran. 2017. "Acerca de Los Sistemas de Clasificación de Alimentos y Su Racionalidadcientífica". presented at the IIº consejo tecnico de IFAN, March 27.
- Moubarac, Jean-Claude, Diana C Parra, Geoffrey Cannon, and Carlos A Monteiro. 2014.
 "Food Classification Systems Based on Food Processing: Significance and Implications for Policies and Actions: A Systematic Literature Review and Assessment." *Current Obesity Reports* 3 (2): 256–272. doi:10.1007/s13679-014-0092-0.
- Nelsen, Arthur. 2016. "UN/WHO Panel in Conflict of Interest Row over Glyphosate Cancer Risk." *The Guardian*,.
- Oreskes, Naomi, and Erik Conway. 2011. "Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming." *Choice Reviews Online* 48 (11): -. doi:10.5860/CHOICE.48-6243.
- Pan American Health Organization. 2015. Ultra-processed Food and Drink Products in Latin America: Trends, Impact on Obesity, Policy Implications. Washington D.C.
- PolyScience consulting. 2018. "Leadership Team." Accessed December 2. http://www.polyscienceconsulting.com/roger-clemens.html.
- "Programme | The Nutrition Society Spring Conference 2018: Nutrient-nutrient Interaction." 2018. March. https://www.nutritionsociety.org/node/391/programme.

- Public Health Nutrition. 2018. "Public Health Nutrition Special Issue on Ultra-processed Foods." *Public Health Nutrition* 21 (1).
- Red agricola. 2017. "IFAN, El Innovador Programa de Investigación Revolucionará Industria Alimentaria." http://www.redagricola.com/cl/ifan-innovador-programainvestigacion-revolucionara-industria-alimentaria/.
- Rego, Vialta, and Madi. 2017. "The Myth of Ultra-Processed Foods." *EC Nutrition* 12 (3): 148–51.

—. 2018. Alimentos Industrializados. 1st ed. ITAL.

- Romero. 2017. "Comentarios Al Proyecto de Ley 07 de 2017 Por Jairo Romero". presented at the Audiencia publica de lacomisión séptima del senado de la republica de Colombia, October 26.
- Shelke. 2013. "Processed Foods Wonderful For Women (Video)". presented at the Institute of Food Technologists, March.
- Shelke, Kantha. 2018. "About Kantha Shelke." Accessed December 2. http://kantha.com/about/.
- Simon, M. 2013. And Now a Word from Our Sponsors. Eat Drink Politics,.
 - ——. 2015. Nutrition Scientists on the Take from Big Food: Has the American Society for Nutrition Lost All Credibility? Eat Drink Politics,.
- Source Watch. 2018. "Nutrition Impact, LLC SourceWatch." Accessed December 3. https://www.sourcewatch.org/index.php/Nutrition_Impact,_LLC.
- Standing Senate Committee on Social Affairs, Science and Technology. 2016. Report of the Standing Senate Committee on Social Affairs, Science and Technology: Obesity in Canada: a Whole-of-society Approach for a Healthier Canada.
- Weaver, Connie M, Johanna Dwyer, Victor L Fulgoni, Janet C King, Gilbert A Leveille, Ruth S MacDonald, Jose Ordovas, and David Schnakenberg. 2014. "Processed Foods: Contributions to Nutrition." *The American Journal of Clinical Nutrition* 99 (6): 1525–1542. doi:10.3945/ajcn.114.089284.
- World Health Organization. 2001. "The Tobacco Industry and Scientific Groups ILSI: A Case Study."
 - ——. 2004. *Global Strategy on Diet, Physical Activity and Health*. Geneva: World Health Organization.
 - ——. 2014. *Global Status Report on Noncommunicable Diseases 2014*. Geneva: World Health Organization.

Appendix 1

Web of Science Core Collection Advance Search Parameters

AU= (Gibney, Eileen OR Gibney, Michael OR Madi, Luis Fernando OR Rego, Raul Amaral OR Vialta, Airton OR Forde, Ciaran OR Darmon, Nicole OR Jones, Julie OR Morán, Javier OR Pascal, Gerard OR Trystram, Gilles OR Franciscato Cozzolino, Silvia Maria OR Lecerf, Jean Michel OR King, Janet OR Ordovas, Jose OR Weaver, Connie OR Dwyer, Johanna OR Eicher-Miller, Heather OR Freedman, Marjorie OR Clemens, Roger OR Decker, Eric OR Floros, John OR Chardigny, Jean-Michel OR Guy-Grand, Bernard OR Dupont, Didier OR MacDonald, Ruth OR Martins, Carolina OR Mullally, Deirdre OR Oliveira, Natalia Sanchez OR Souchon, Isabelle

)

AND

OG = (Agroparistech OR University College Dublin OR University Of California Davis OR National Institutes Of Health Nih Usa OR National University Of Singapore OR University Of Massachusetts System OR Purdue University OR Purdue University System OR University Of Southern California OR St Catherine Univ OR Tufts University OR Institut National De La Recherche Agronomique Inra OR Universidade De Sao Paulo OR Institut Pasteur Lille Or Institut National De La Recherche Agronomique INRA Or Iowa State University Or Universidade De Sao Paulo Or University College Dublin

)

Appendix 2: Key messages questioning NOVA from the materials included in this study

Comments in italics were added by the authors. Bibliographic references in the quotations were removed from the original text, for better readability.

Nature and details about the document		Key messages questioning NOVA
1.	<i>Scientific article</i> : Contributions of Processed Foods to Dietary Intake in the US from 2003–2008: A Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition and Dietetics, American Society for Nutrition, Institute of Food Technologists, and International Food Information Council. Journal of Nutrition. 2012; 142(11):2065S-72S	"All processing levels contributed to nutrient intakes, and none of the levels contributed solely to nutrients to be encouraged or solely to food components to be reduced. The processing level was a minor determinant of individual foods' nutrient contribution to the diet and, therefore, should not be a primary factor when selecting a balanced diet." (Eicher-Miller, Fulgoni, and Keast 2012)
2.	<i>Scientific article</i> : Processed Food Contributions to Energy and Nutrient Intake Differ among US Children by Race/Ethnicity. Nutrients. 2015; 7(12): 10076–88	"Clinicians and policy should primarily advise consideration of the energy and nutrient composition of foods, rather than the processing level, when selecting a healthy diet for children" (Eicher-Miller, Fulgoni, and Keast 2015b)
3.	<i>Scientific article</i> : Energy and Nutrient Intakes from Processed Foods Differ by Sex, Income Status, and Race/Ethnicity of US Adults. Journal of the Academy of Nutrition and Dietetics. 2015; 15(6): 907-18.e6	"Recommendations for a diet adhering to the DGA should continue to focus on the energy and nutrient content, frequency of consumption, and serving size of individual foods rather than the level of processing." (Eicher-Miller, Fulgoni, and Keast 2015a)
4.	<i>Scientific article</i> : Comparison of Child Lunch Meals in Brazil. Food and Nutrition Sciences. 2016; 7: 262- 72	"Recently, revised Dietary Guidelines in Brazil included a recommendation to "avoid fast food". This project compared meals from home and away from home The nutrition quality of lunch in fast food restaurants is similar to a typical Brazilian meal. The restaurant meals could fit into a balanced diet from time to time." <i>N.B: the Dietary Guidelines are based on NOVA</i> (Martins, Sanchez Oliveira Jensen, and Franciscato Cozzolino 2016)
5.	<i>Scientific article:</i> The Myth of Ultra-Processed Foods. EC Nutrition. 2017; 12(3): 148-51	"There is no practical sense in trying to classify foods based on the degree of processing, since the same food can be processed in different ways, depending on the final product intended to achieve In general, the wide variety of food products within a single category makes it impossible to use this food-classification system to guide the choice of an individual at the time of purchase, in front of a shelf full of options which vary in the number and types of ingredients, presence of

		additives and also in relation to the contents of calories, fats, sugar, salt and nutrients. As observed by Gibney., et al. [material 11 in this Appendix], a food-classification system based on degree of processing instead of nutritional aspects cannot offer specificity at the individual level of nutrition and becomes very comprehensive and rigid to be compared to the existing classification systems. As a result, it has little practical value and constitutes a linguistic system of classificationFinally, proponents of this system need to present consistent evidences showing that the consumption of processed foods may actually pose some risk to the consumer health. They also need to sharply counteract researches that bring evidences to the contrary, such as Weaver., et al. [material 9 in this Appendix], from which the American diet," and that a good diet depends on the selection of foods of nutritional value regardless of whether they are processed or not." (Rego, Vialta, and Madi 2017)
6.	<i>Scientific article</i> : Les aliments hyper-transformés : un nouveau concept discuté. Médecine des Maladies Métaboliques. 2018; 12(4): 381-6	"Some epidemiological studies have shown a relationship between the ultra-processed foods consumption and a higher cardio-metabolic and cancer risk. Indeed, their consumption is increasing in the actual diet over the world. However, [<i>the ultra-processed foods</i>] concept is questionable since it considers that all manufactured foods are bad. Moreover, the ultra-processed foods group is quite heterogeneous. But it may load people to use more and more unprocessed foods and to cook themselves. All these issues are discussed." (Lecerf 2018)
7.	<i>Scientific article</i> : Ultra-processed foods: definitions and policy issues. Current Developments in Nutrition. 2018; nzy077, https://doi.org/10.1093/cdn/nzy077	"there is little consistency either in the definition of ultra-processed foods or examples of foods within this category. The public health nutrition advice of NOVA is that ultra-processed foods should be avoided to achieve improvements in nutrient intakes with an emphasis on fat, sugar and salt. The present paper shows that the published data for the US, UK, France, Brazil and Canada, all show that across quintiles of intake of ultra-processed foods, nutritionally meaningful changes are seen for sugars and fibre but not so for total fat, saturated fat and sodium. Moreover, two national surveys in the UK and France fail to show any link between Body mass index and consumption of ultra-processed foods. The paper concludes that constructive scholarly debate on many issues that would be affected by a policy to avoid ultra-processed foods, needs to be facilitated." (Gibney 2018)
8.	<i>Letter in a scientific journal</i> : Nutrient profiling: The good, the bad, and the ultra-processed. Public Health Nutrition. 2009;12(10): 1967–70	"The evidence for a link between nutrition and health has prompted many countries to design food-based dietary guidelines. However, the implementation of these recommendations may be impaired by their imprecision. Indeed, they are based on wide food categories, not on individual foods in the form actually bought by consumers. In that sense, those guidelines are wrongly called 'food'-based dietary guidelines, because they do not provide recommendations on

		individual foods, but on categories of foods, the definition of which is very imprecise. As a result, clear recommendations on foods composed of more than one food category, such as mixed dishes and snacks, are lacking. Moreover, food category-based recommendations are useless when it comes to choosing between two foods that have the same selling name but different ingredient and nutrient compositions and different prices. However, stigmatising a category as 'ultra-processed foods' will not help to overcome these limitations, because the classification Dr Monteiro proposes also lacks precision, and is therefore unlikely to be useful and operational." (Darmon 2009)
9.	<i>Scientific statement in a scientific journal</i> : Processed foods: contributions to nutrition. American Journal of Clinical Nutrition. 2014;99: 1525–42	"Both fresh and processed foods make up vital parts of the food supply. Processed food contributes to both food security (ensuring that sufficient food is available) and nutrition security (ensuring that food quality meets human nutrient needs). This ASN scientific statement focuses on one aspect of processed foods: their nutritional impacts. Specifically, this scientific statement 1) provides an introduction to how processed foods contribute to the health of populations, 2) analyzes the contribution of processed foods to "nutrients to encourage" and "constituents to limit" in the American diet as recommended by the Dietary Guidelines for Americans, 3) identifies the responsibilities of various stakeholders in improving the American diet, and 4) reviews emerging technologies and the research needed for a better understanding of the role of processed foods in a healthy diet Diets are more likely to meet food guidance recommendations if nutrient-dense foods, either processed or not, are selected." (Weaver et al. 2014)
10.	<i>Communication in a scientific journal</i> : Brasil Processed Food 2020: um projeto em defesa da industrialização de alimentos. Brazilian Journal of Food Technology. 2015; 18(4): 337-9	"In Brazil, the anti-industry ideology can be recognised in several parts of the recent publications of the Ministry of Health, such as the "Dietary Guidelines for the Brazilian Population" and the "Regional Foods of Brazil", showing that this activism reached the governmental spheres. In summary, radical movements try to influence society to reject processed foods, labeled arbitrarily as unhealthy, by means of criteria that are not supported from the perspective of Food Science and Technology." [<i>Translated from Portuguese by first author</i>] (Madi and Rego 2015)
11.	<i>Commentary in a scientific journal</i> : Ultra-processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. 2017; 106:717–24 (and corrigendum)	"This commentary challenges many of the basic arguments of using the NOVA food classification system to examine the link between food and health. We believe that there is no evidence to uphold the view that UPFDs [ultra-processed foods and drinks] give rise to hyperpalatable foods associated with a quasi-addictive effect and that the prevailing European Union and US data fail to uphold the assertion that UPFDs, which dominate

		energy intake, give rise to dietary patterns that are low in micronutrients. With regard to the use of the NOVA food classification in the development of food-based dietary guidelines, we show that the very broad definition of UPFDs makes this impossible. Finally, the available evidence does not support the view that the globalization of food is the driver of increased intakes of UPFDs in low- to middle-income countries but rather that this is driven by small indigenous companies. On balance, therefore, there seems to be little advantage from the use of the NOVA classification compared with the current epidemiologic approach, which relies on the linkage of nutrient intakes to chronic disease with subsequent identification of foods that merit consideration in public health nutrition strategies." (Gibney et al. 2017)
12.	<i>Review of a scientific article:</i> aliments «ultra- transformés» et cancer. Cahiers de Nutrition et Diététique. 2018; 53: 74-5	"the NOVA classification includes in the "ultra-processed" group a heterogeneous patchwork of foods the boundaries between "processed" and "ultra-processed" being sometimes subjective we cannot draw any specific application from this work (which should be replicated over a longer period) that would useful for consumers or decision-makers, however, we expose all industrial foods to a condemnation by the public, which would certainly be abusive (some "ultra-processed" also belonging to the middle classes of Nutri-Score) [<i>Nutri-Score is a color-coded system providing information about the nutritional quality of food products, on a 5-scale color scheme, from A/Green to E/Red</i>]." [<i>Translated from French by the first author</i>] (Guy-Grand 2018)
13.	<i>Editorial in a scientific journal:</i> Alimentation, santé publique, étiquetage, où va-t-on? Cahiers de Nutrition et Diététique. 2018; 53: 123-4	"This "categorization" forgets the very wide variability within the same group of products Thus, while intending to help the consumer in his food choices with information and labels, it only adds to the confusion the processing of raw materials is often a necessity!!! - unless we become all raw food eaters? People in food processing must therefore have an important position in the agricultural and food systems." [<i>Translated from French by the first author</i>] (Chardigny 2018)
14.	Publication resulting from an event: Is "Processed" a Four-Letter Word? The Role of Processed Foods in Achieving Dietary Guidelines and Nutrient Recommendations. American Society for Nutrition. Advances in Nutrition. 2012; 3: 536–48	"Ensuring that nutrient needs are met primarily through foods will also require motivating consumers to eat more healthfully. This task requires addressing confusion, misinformation, and negative perceptions of processed foods. Many consumers do not realize that almost all foods currently consumed are processed and that food processing has historically provided and will continue to provide a safe and abundant food supply that

		provides significant public health benefit. The mischaracterization of processed foods and food technology as unnatural, unsafe, and/or nutritionally inappropriate by some health professionals, advocacy organizations, and the media further makes the task of motivating consumers to eat more healthfully challenging Consumers may object to processing and novel ingredients based on aesthetic reasons or both aesthetic and nonscientific reasons. [<i>Then described contribution of processed fruits and vegetables to nutrient intake and other positive aspects of food processing</i>]" (Dwyer et al. 2012)
15.	Publication resulting from an event: Conference on 'Nutrient–nutrient interaction' - Plenary Lecture 1- Food processing: criteria for dietary guidance and public health? Nutrition Society Scottish Section Meeting held at the Royal College of Physicians and Surgeons, Glasgow on 26–27 March 2018. Proceedings of the Nutrition Society. 2018; doi:10.1017/S0029665118002513	"NOVA categories are drawn using non-traditional views of food processing with additional criteria including a number of ingredients, added sugars, and additives. Comparison of NOVA's definition and categorisation of PF with codified and published ones shows limited congruence with respect to either definition or food placement into categories. While NOVA studies associate PF with decreased nutrient density, other classifications find nutrient-dense foods at all levels of processing. Analyses of food intake data using NOVA show UPF provide much added sugars. Since added sugars are one criterion for designation as UPF, such a proof demonstrates a tautology. Avoidance of foods deemed as UPF, such as wholegrain/enriched bread and cereals or flavoured milk, may not address obesity but could decrease intakes of folate, calcium and dietary fibre. Consumer understanding and implementation of NOVA have not been tested. Neither have outcomes been compared with vetted patterns, such as Dietary Approaches to Stop Hypertension, which base food selection on food groups and nutrient contribution. NOVA fails to demonstrate the criteria required for dietary guidance: understandability, affordability, workability and practicality. Consumers' confusion about definitions and food categorisations, inadequate cooking and meal planning skills and scarcity of resources (time, money), may impede adoption and success of NOVA. Research documenting that NOVA can be implemented by consumers and has nutrition and health outcomes equal to vetted patterns is needed." (Jones 2018)
16.	Event: AACCI Events & News: Cereals 17	"Most of the popular definitions associated with some form of food processing do not have
	Symposium: Food selection according to food	any regulatory sanction, and the popular criticism of processed foods and use of a processed
	processing: fabulous or flawed? Processed and	food categorization, which has its own criteria (e.g., subjectively defined by degree of

	Ultraprocessed Foods Defined - An Alice in Wonderland Question? 2017	processing plus other criteria), as a guide to selecting a healthful diet have become contemporary topics of debate. The definitions and ideas surrounding processed food categorizations will be discussed during an interactive session at the Cereals 17 meeting. This first of two articles provides various definitions of processed food and shows their extreme incongruence." (Jones and Clemens 2017a)
17.	<i>Event:</i> AACCI Events & News: Cereals 17 Symposium: Food selection according to food processing: fabulous or flawed? Introductory Brain Teaser for the Cereal Chemist -How Do We Categorize Processed and Ultraprocessed Foods? 2017	"The authors argue that the [<i>NOVA</i>] categorization scheme raises several concerns. Because processing complexity may or may not characterize a specific food in any of the categories and there are many definitions of processing, this could create confusion for consumers and professionals alike. Further, the lack of category standardization is problematic - even in various research reports testing the NOVA classification, where some researchers use three groups and others four. Additionally, there is inconsistent placement of certain foods in different groups." (Jones and Clemens 2017b)
18.	<i>Event</i> : The Nutrition Society, Spring Conference 2018: Nutrient-nutrient interaction, Plenary Lecture One Avoid processed and ultra-processed foods: Sound bite advice or just a sound bite. 2018	<i>No detail on the website of the society</i> ("Programme The Nutrition Society - Spring Conference 2018: Nutrient-nutrient Interaction" 2018)
19.	<i>Event</i> : Belgian Nutrition Society, Eight annual meeting, May 4th, 2018: Session 1: Keynote 1: Ultra-processed foods in human health: a critical appraisal. 2018	<i>No detail on the website of the society</i> (Belgian Nutrition Society 2018a) – see material 11 in this Appendix
20.	 Event: Séance hebdomadaire de l'Académie d'Agriculture de France: Des matières premières agricoles aux aliments : Quel impact des procédés de transformation sur la qualité de l'alimentation ? (6 documents in total). 2018 a. Introduction - Gérard Pascal b. Impacts des opérations et procédés sur les attributs des aliments - Gilles Trystram c. Mieux connaître la transformation industrielle et la diversité de nos aliments pour une alimentation plus saine et plus durable : exemple d'une cartographie 	 "[NOVA is] a simplistic categorisation which combines in the same category (very) different productsComplexity of processing, so extreme difficulty in defining the concept of ultra-processed foods in a way that allows a solid scientific work. The NOVA classification is not and cannot be robust in methodological terms. The resulting work, no matter how well conducted, is inevitably impacted by this fundamental methodological weakness." "the quality dimension [of foods] is rich and important but also complex and difficult to summarise in a food classification based on the degree of processing, that technologists themselves have difficulty defining. Based on previous interventions, Véronique Braesco insists on the lack of robustness of the NOVA classification and the need to go further, to better build this classification, using experts in food processing. She adds that the

multicritère du marché français des	classification should take into account many more factors than the degree of processing
pizzas- Isabelle Souchon	(such as cost, environmental impact, consumer appreciation) to be truly considered
d. La structure des aliments module leur	integrative"
cinétique de digestion et la	[Translated from French by the first author]
biodisponibilité des nutriments - Didier	(Académie d'Agriculture de France 2018b)
Dupont	
e. Conclusion - veronique Braesco	
 21. Project: Brasil Processed Food 2020 a. Publication: ITAL. Alimentos industrializados: a importância para a sociedade brasileira . Editores: Rego R. A., Vialta A. and Madi L. 2018. http://alimentosindustrializados.com.br/2/ b. website: http://www.alimentosprocessados.com.br /plataforma.php 	"Parts 3, 4 and 5 [<i>of the report</i>] are devoted to demonstrating the inconsistencies of the NOVA "classification" of food, which, in summary, recommends that consumers avoid foodstuff biasedly defined as "ultraprocessed". Examples are provided to show evidence of the inconsistencies and generalisations that characterise the myth of "ultra-processed food." "a) From a technical point of view, there is no classification based on degrees of processing, although a terminology is used and tries to lead to this understanding; b) From the statistical point of view, there is no evidence that there is a significant difference between the nutritional contents of processed foods from homes, restaurants and industries; c) From a scientific point of view, there is no evidence that the use of convenience products adversely affects culture, social life and the environment; d) From the scientific and regulatory point of view, there is no way to establish the fact that a moderate use of sugar, salt and fats is recommended for domestic culinary preparations, and that at the same time its use in the industry generates products that should be avoided or contain such ingredients too much." "The critical analysis of the characteristics specified for defining foods as being "ultraprocessed" reveals that this concept is based on assumptions that contradict regulatory agencies, that are not directly related to the content of products, and are found to be false for most categories of industrialised products labeled "ultraprocessed foods"." "a brief analysis of the products marketed in supermarkets can demonstrate that the concept of "ultraprocessed foods"."
	[Translated from Portuguese by first author] (Rego, Vialta, and Madi 2018)

 22. Public hearing: Comentarios al Proyecto de Ley 07 de 2017 por Jairo Romero, audiencia publica de la comisión séptima del senado de la republica de Colombia, Octubre 26 de 2017. 2017 	"MYTH: The existence of ultraprocessed foods FACT: There are NO ultraprocessed foods! It is a definition that is not based on food science and technology nor on the reality of the market. There is no such definition in the field of food science and technology. This definition does not hold in the light of food science and technology, contradicts current norms and legislation, and classifies foodstuffs without consistent fundamental criteria. The definition was created by professionals from other areas who do not master the theory and practice of food processing. This classification is condemned by most institutions in the area of food science and technology. The use of this definition to assert that industrialised foods are inadequate for consumption ignores the fact that these foods are approved by government regulatory agencies after rigorous analysis to prove their efficacy and safety for consumption. Thus, it contradicts and confronts the determinations of the regulatory agencies of the Ministries of Health and Agriculture and Supply." [<i>Translated from Portuguese by first author</i>] (Instituto de Tecnologia de Alimentos 2018) "There are well-founded criticisms of the NOVA system and the science that supports it [<i>NOVA</i>] ignores or does not know classification models used internationally The definitions and classification criteria [<i>of NOVA</i>] are vague and prone to interpretation The studies that support the NOVA system frequently present tautologies as certain scientific facts; use experimental designs highly questionable [<i>Is this an</i>] ideology with the appearance of science?" [<i>then presents about science and technology as serving</i>]
	humanity] [Translated from Spanish by first author] (Romero 2017)
 Other presentation: Acerca de los sistemas de clasificación de alimentos y su racionalidad científica, IIº consejo tecnico de IFAN, Santiago de Chile, 27 de marzo, 2018. 2018 	"The proponents of NOVA, in advocating for the avoidance of ultra-processed foods and the reduced intake of processed foods, must recognise that they have a duty to verify that such move is within the resources of ordinary families in order to address the issues of nutritional security. Given the importance of the contribution of processed foods to the intake of macronutrients and micronutrients, it does not seem prudent to approve NOVA's

	recommendation to avoid the intake of ultra-processed foods and to minimise the intake of processed foods. To date, no data have been presented regarding the positive or negative results of that strategy among free-living subjects and there are no data regarding the average consumer's ability in terms of income, culinary skills, available culinary facilities and time or availability of food to support the case that the abandonment of ultra-processed foods
	would significantly alter the nutritional well-being. Without these data, there may be some ethical issues that should be taken into account before they occur." [<i>translated from Spanish by first author</i>] (Moran 2017)
24. <i>Video</i> : One Size Doesn't Fit All When it Comes To Processed Foods <u>http://bcove.me/gzuw84jj</u>	Presentation of a different food classification. Food that we purchase is safe to consume and have a good nutrition content. (Eicher-Miller 2013)
25. <i>Video</i> : Processed Food Makes Our Lives Better <u>http://bcove.me/0nq5lbx2</u>	The negative press about processed foods means that people don't understand that processing can make foods healthier and that the food processing industry has made their lives better. (Decker 2013)
26. <i>Video:</i> Everything is Processed <u>http://bcove.me/p3fyebvk</u>	Everything we eat is processed. We can't say that processing is bad because without processing, we can't have the safe, the nutritious, the variety of foods that we have today; and it has made our food a lot less expensive than what it used to be. (Floros 2013)
27. <i>Video:</i> Processed Foods Wonderful For Women <u>http://bcove.me/77r4zm4t</u>	Processed foods are wonderful for women as it allows them to go out, pursue their passion, and come back to their homes and still be able to put a hot meal on the table, and ensure that every member of their family gets what they want and what they like. (Shelke 2013)

Appendix 3: Evidence for data included in Table 1 and in the results section of this manuscript

Name - author	Institution	Document criticising NOVA	Where was the document presented	Document hosted by an organisation that is affiliated with the UPP industry?	Institution of the author affiliated with the UPP industry?	Declaration of interests	Funding aknowledgment	Other links with the UPP industry
Braesco Véronique	VAB Nutrition, France	Séance hebdomadaire de l'Académie d'Agriculture de France (6 documents) https://www.a cademie- agriculture.fr/ actualites/aca demie/des- matieres- premieres- agricoles-aux- aliments- quel-impact- des	Académie d'Agriculture	The Academie is a partner of most professional organisations in the agro and agrobusiness sector https://www.academie- agriculture.fr/academie/rayon nement-partenariat/autres- partenaires				Directrice du département recherche nutrition du groupe Danone (Danone Vitapole en 2000), directrice du centre de recherches en nutrition humaine d'Auvergne et du laboratoire INRA "micronutriments et maladies métaboliques" (2003), directrice de VAB-nutrition, une société de conseil et de services en nutrition dédiée aux acteurs du domaine agro-alimentaire (depuis 2007). https://www.academie- agriculture.fr/membres/annua ire/veronique-braesco Editorial Board of the Cahiers de Nutrition et Diététique - see info for "Cahiers de Nutrition et Diététique"
Chardigny Jean-Michel	Institut National de Recherche Agronomique (INRA), France	Alimentation, santé publique, étiquetage, où va-t-on ? Cahiers de Nutrition et Diététique	Cahiers de Nutrition et Diététique	Yes, members of the editorial board working for the food industry (Nestlé and VAB Nutrition) https://www.journals.elsevier. com/cahiers-de-nutrition-et- de-dietetique/editorial-board				Participated in an ILSI Europe event in 2012: http://ilsi.eu/wp- content/uploads/sites/3/2016/ 06/p-MIN-WS-18jn12- am.pdf Conseil d'administration FFAS : http://alimentation- sante.org/organisation/conseil -dadministration/
Clemens Roger	T. Horn La Miranda, and Southern California	Is Processed" a Four-Letter Word? The Role of Processed	Advances in Nutrition +	See Journal of the American Society for Nutrition Cereals 17 is organised by the cereals industry		The ASN symposium was co- sponsored by the Institute of Food Technologists (IFT) and the International Food Information Council (IFIC) .		http://www.polyscienceconsu lting.com/roger-clemens.html Scientific Advisor for Nestlé USA for more than 21 years

Los Angeles.	Foods in			() funds to support this	
USA	Achieving	AACCI		publication were provided by	Worked for Horn, and
	Dietary			an educational grant from the	ingredients supplier, which
	Guidelines			Campbell Soup Company.	clients included : Beneo.
	and Nutrient			The symposium was chaired	Cargill
	Recommenda			by Guy Johnson and Janet	(http://www.ethorn.com/ssw/)
	tions			King. The Guest Editor for	(
	American			this symposium was Connie	Institute of Food
	Society for			Weaver Guest Editor	Technologists (IFT) and
	Nutrition			disclosure: Connie Weaver	former member of the IFT
	Advances in			received research grants from	Board of Directors
	Nutrition			Dairy Management Inc. and	http://www.ift.org/About-
	+			Nestle and is on the	Us/Volunteer/Volunteer-
	AACCI			Scientific Advisory Board for	Profiles/Roger-Clemens aspx
	Events &			Pharmavite	romes, roger cremens.aspir
	News:				Presented work funded by
	Cereals 17				ILSI North America
	Symposium.				http://ilsi.org/event/ift-2014-
	Food				regulating-sugar-existing-
	selection				policies-trends-and-scientific-
	according to				justification/
	food				Justilieution
	processing:				More DOI in another article:
	fabulous or				During the period of 2010
	flawded? (2				through 2015. Dr. Roger
	documents)				Clemens provided
	,				consultative services and/or
					served on an advisory council
					to the following: Abbott
					Nutrition: Almond Board of
					California: American
					Society for Ouality: Assure
					Water: Authen
					Technologies; Barilla;
					Bayer; California Walnut
					Commission; Coca-Cola
					(honorarium directly given
					to charity); Corn Refiners
					Association; Danish
					Agriculture and Food
					Council; Dairy Council of
					California; Dentons LLP;
					E.T. Horn; FMC
					(honorarium directly given
					to charity); Food Minds;
					HyCite; Jenner &
					BlockLLP; Kellogg;
					Malaysian Palm Oil
					Council; McDonalds;
					MeadJohnson; Mushroom
					Council; National Fisheries
					Institute: National

						Restaurant Association; Nestle SA; Petcurean; Quaker Oats;Schwann Foods; Senomyx (honorarium directly given to charity);Spherix; U.S. Dept. of Agriculture; Whitewave and Yakult. https://onlinelibrary.wiley.co m/doi/epdf/10.1111/1541- 4337.12194
Darmon Nicole	Univ Aix- Marseille 1, Univ Aix- Marseille 2, France	Nutrient profiling: The good, the bad, and the ultra- processed. Public Health Nutrition.	Public Health Nutrition			Received a price from Ajinomoto: https://www.foodbev.com/ne ws/prix-ajinomoto-2008- awarded-to-nicole-darmon- phd/ Presented at an ILSI conference: http://ilsi.org/event/climate- change-nutrition-health/ In the publication above, she presents herself as from INRA + the Foundation Daniel et Nina Carasso , a foundation set up by the founder of the Danone Company (https://fondationcarasso.org/ en/daniel-and-nina-carasso) - she was a member of the prize committee as well (https://fondationcarasso.org/ en/members-prize-committee- premio-2015) Conseil Scientifique et Ethique FFAS : http://alimentation- sante.org/organisation/conseil -scientifique/
Decker Eric	University of Massachusett s, USA	Video: Processed Food Makes Our Lives Better	Institute of Food Technologists	See IFT		ILSI North America award in 2017 http://ilsina.org/about- us/award-programs/ +

	http://bcove.			He has received numerous
	$m_0/0n_051h_y2$			recognition for his research
	me/onq510x2			recognition for his research
				including awards from the
				American Oil Chemist
				Society the Agriculture and
				Society, the Agriculture and
				Food Chemistry Division of
				ACS, the International Life
				Science Institute Royal
				Science institute, Royal
				Society of Chemistry and the
				Institute of Food
				Technologist
				Technologist
				Elected American Meat
				Science Association Board
				of Directors (2000-2002)
				Future Leader Award,
				International Life Science
				Institute (1996)
				A ala and a state of the state
				Achievement Award for
				Young Scientists, American
				Meat Science Society (1993)
				and many interactions with
				and many interactions with
				American Meat Science
				Society and American Oil
				Chemist Society among
				chemist boerety, among
				others
				https://www.umass.edu/foods
				ci/faculty/eric-decker
				, includy, one decider
				+
				invited to present on many
				occasions, including:
				Omega_3 Fatty Acid Delivery
				Onlega-51 arry Acid Derivery
				Systems for Foods. Coca-
				Cola Co., Atlanta, GA.
				Oxidation in Emulsions:
				Critical Lances and Comment
				Crucal issues and Current
				Challenges, Nestle', San
				Seplco. Italy
				https://www.umass.edu/foods
				ci/sites/default/files/VITA 1.
				ndf
				PI on grants from Kao
				Corporation, DSM, Cargill,
				Bunge Foods, Kraft Foods
				Dangi Cala Comment
				repsi-Cola Company,
				National Cattlemen's Beef
				Association, National
				Livestock and Meat Board
				Divestors and meat board,
				Dairyman Inc, Roche,
				Pfizer, National Pork
				Producers Council.
				Kontucky Boof Cattle
		1		ixentucky Deel Calle,

						National Dairy Council Association, National Dairy Research and Promotion Board + many other as a co- I
Dupont Didier	INRA, France	Séance hebdomadaire de l'Académie d'Agriculture de France (6 documents) https://www.a cademie- agriculture.fr/ actualites/aca demie/seance/ academie/des- matieres- premieres- agricoles-aux- aliments- quel-impact- des	Académie d´Agriculture	The Academie is a partner of most prof organisations in the agro and agrobusiness sector https://www.academie- agriculture.fr/academie/rayon nement-partenariat/autres- partenaires		
Dwyer Johanna	Tufts University, and Office of Dietary Supplements, National Institutes of Health, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition. + Is "Processed" a Four-Letter Word? The Role of Processed Foods in Achieving Dietary Guidelines and Nutrient Recommenda tions. American Society for Nutrition.	American Journal of Clinical Nutrition+Am erican Society fo Nutrition	See Journal of the American Society for Nutrition	J Dwyer, serves as an unpaid board member for the International Life Sciences Institute of North America; serves on scientific advisory boards for ConAgra Foods Inc, McCormick Inc, Bay State Milling, and Nestle;performed speaking engagements for Ocean Spray and the Alliance for Potato Research and Education; and owns stock in ConAgra Foods Inc, McCormick Inc, and Hershey. The ASN symposium was co-sponsored by the Institute of Food Technologists (IFT) and the International Food Information Council (IFIC). () funds to support this publication were provided by an educational grant from the Campbell Soup Company.	

		Advances in Nutrition.			The symposium was chaired by Guy Johnson and Janet King. The Guest Editor for this symposium was Connie Weaver. Guest Editor disclosure: Connie Weaver received research grants from Dairy Management Inc. and Nestle , and is on the Scientific Advisory Board for Pharmavite.J . T. Dwyer, trustee of ILSI North America ; a member of the Scientific Advisory Boards of ConAgra Foods, The McCormick Science Institute, E. I. du Pont de Nemours and Company (DuPont) and Bay State Milling Company	
Eicher-Miller Heather	Purdue University, USA	Contributions of Processed Foods to Dietary Intake in the US from 2003–2008: A Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition and Dietetics, American Society for Nutrition, Institute of Food Technologists , and International Food Information Council. Journal of Nutrition. +	The Journal of Nutrition from the ASN + Institute of Food Technologists + journal Nutrients + Journal of the Academy of Nutrition and Dietetics	See Journal of the American Society for Nutrition Institute of Food Technologists IFT: current President from DuPont Nutrition and Health http://www.ift.org/About- Us/Our-Leadership/Cindy- Stewart.aspx current treasurer: a seasoned industry veteran with more than 21 years of food and beverage experience spanning multiple functions of research and development. http://www.ift.org/About- Us/Our-Leadership/Scott- Lineback.aspx Members of board of directors from industry: http://www.ift.org/About- Us/Our-Leadership/Bryson- Bolton.aspx http://www.ift.org/About- Us/Our-Leadership/Pam- Coleman.aspx http://www.ift.org/About- Us/Our-Leadership/Carolyn- Fisher.aspx http://www.ift.org/About-	H.A.E-M is a National Dairy Council Ambassador (nutrient paper)	

	Video: One	Us/Our-Leadership/Ionathan-		
	Size Doesn't	Grav aspy		
	Fit All When	http://www.ift.org/About-		
	it Comes To	Us/Our-Leadership/Sarah-		
	Processed	Kirkmeyer aspy		
	Foods	http://www.ift.org/About		
	http://bcove	Us/Our Leadership/Lauren		
	map.//bcove.	Shimak aspy		
	ine/gzuwo4jj	http://www.ift.org/About		
	+ Due	Intp://www.int.org/About-		
	Frocessed	Us/Our-Leadership/Robert-		
	Food	http://www.ift.com/Abaset		
	Contributions	http://www.htt.org/About-		
	to Energy and	Us/Our-Leadership/Roger-		
	Nutrient	Lawrence.aspx		
	Intake Differ			
	among US			
	Children by			
	Race/Ethnicit			
	y. Nutrients.			
	+			
	Energy and			
	Nutrient			
	Intakes from			
	Processed			
	Foods Differ			
	by Sex,			
	Income			
	Status, and			
	Race/Ethnicit			
	y of US			
	Adults.			
	Journal of the			
	Academy of			
	Nutrition and			
	Dietetics.			

University, USAEverything is Processed http://cove.Food TechnologistsUSAProcessed http://cove. me/p3fyebvkTechnologistsme/p3fyebvkTechnologistsGenerationFood TechnologistsChicago, IL 1995-96 Senior Research Engineer, Nestle R&D Center Inc., New Milford, CT Tomato Processing Plant, Central Union of Agricultural Cooperative, Illia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Engineer of	Floros John	Kansas State	Video:	Institute of	See IFT		Worked as an international
USA Processed http://bcove. Technologists than 30 years me/p3fyebvk me/p3fyebvk http://chancellorsearch.nmsu .edu/finalists/john-floros/ 2007-08 President, Institute of Food Technologists, Chicago, IL 2007-08 President, Institute of Food Technologists, Chicago, IL 1995-96 Senior Research Engineer, NestB & R&D Center Inc., New Milford, CT CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Giobal Food Supply, Keynote Speaker, Annual Symposium of the Dairy Earners of		University,	Everything is	Food			industry consultant for more
http://bcove. me/p3fyebvk 2007-08 President, Institute of Food Technologists, Chicago, IL 1995-96 Senior Research Engineer, Nestle R&D Center Inc. , New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of		USA	Processed	Technologists			than 30 years
me/p3fyebvk me/p3fyebvk i.edu/finalists/john-foros/ 2007-08 President, Institute of Food Technologists, Chicago, IL 1995-96 Senior Research Engineer, New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Center Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Ergremens of			http://bcove.				https://chancellorsearch.nmsu
2007-08 President, Institute of Food Technologists, Chicago, IL 1995-96 Senior Research Engineer, Nestle R&D Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Gilobal Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of			me/p3fyebvk				.edu/finalists/john-floros/
of Food Technologists, Chicago, IL 1995-96 Senior Research Engineer, Nestle R&D Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							2007-08 President, Institute
Chicago, IL 1995-96 Senior Research Engineer, Nestle R&D Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							of Food Technologists,
1995-96 Senior Research Engineer, Nestle R&D Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Chicago, IL
Engineer, Nestle R&D Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							1995-96 Senior Research
Center Inc., New Milford, CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Engineer, Nestle R&D
CT 1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Center Inc., New Milford,
1981-83 Plant Manager, Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							CT
Tomato Processing Plant, Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							1981-83 Plant Manager,
Central Union of Agricultural Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Tomato Processing Plant,
Cooperative, Ilia, Greece 2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Central Union of Agricultural
2015 Sustainability of the Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							Cooperative, Ilia, Greece
Global Food Supply, Keynote Speaker, Annual Symposium of the Dairy Farmers of							2015 Sustainability of the
Speaker, Annual Symposium of the Dairy Farmers of							Global Food Supply, Keynote
of the Dairy Farmers of							Speaker, Annual Symposium
							of the Dairy Farmers of
Canada, Edmonton, Toronto,							Canada, Edmonton, Toronto,
Montreal and Moncton,							Montreal and Moncton,
Canada							Canada
2011 The Role of Processed							2011 The Role of Processed
Foods in our Food System –							Foods in our Food System –
Past, Present & Future,							Past, Present & Future,
Keynote Address, American							Keynote Address, American
Meat Institute (AMI)							Meat Institute (AMI)
Meeting, Chicago, IL							Meeting, Chicago, IL
							+
among others, grants from							among others, grants from
Indiana and Mid-America							Indiana and Mid-America
Food Processors							Food Processors
Associations, Tropicana and							Associations, Tropicana and
Enerfab							Enerfab
https://chancellorsearch.nmsu							https://chancellorsearch.nmsu
.edu/wp-							.edu/wp-
content/uploads/sites/74/2018							content/uploads/sites/74/2018
/04/NMSU-CV-John-Floros-							/04/NMSU-CV-John-Floros-
.pdf							.pdf

Forde Ciaran	Singapore Institute for Clinical Sciences SICS · Clinical Nutrition Research Center, Singapour	Ultra- processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. (and corrigendum)	American Journal of Clinical Nutrition	Journal of the American Society for Nutrition List of partners from the industry https://nutrition.org/sustainin g-partners/ Abbott Nutrition, Almond Board of California, Bayer HealthCare, Biofortis Clinical Research, California Walnut Commission, Cargill, Inc., Corn Refiners Association, Council for Responsible Nutrition, Dairy Research Institute, DSM Nutritional Products, LLC, Dupont Nutrition & Health, Egg Nutrition Center, General Mills Bell Institute of Health and Nutrition, Herbalife/Herbalife Nutrition Institute, International Bottled Water Foundation, Kellogg Company, Kyowa Hakko U.S.A., Inc., Mars Inc., McCormick Science Institute, Mondelez International Technical Center, Monsanto Company, National Cattlemen's Beef Association, a contractor to The Beef Checkoff, Nestle Nutrition, Medical Affairs, PepsiCo, Pfizer, Inc., Pharmavite LLC, Tate & Lyle, The a2 Milk Company The Coca Cola Company, The Dannon Company, Inc., The Sugar Association, Unilever ASN Foundation's 2018 scholarships https://nutrition.org/about- asn/awards/ The Gerber Foundation Predoctoral Fellowship The Mars, Inc. Predoctoral Fellowship		Until October 31, 2014, employee of the Nestle Research Center He has received travel reimbursement from Kerry Taste and Nutrition Some of his research on child eating behavior is partially co-funded by the Nestle Research Center		Sensory Ingestive Behaviour Team - Clinical Nutrition Research Centre Singapore Institute for Clinical Sciences Dept. Physiology, NUS - Acknowledgements: Research Grant Support from the Nestle Research Centre- Epigen Collaboration fund; (G00067; BMSI/15-300004- SICS) awarded to Assoc. Prof. C.G. Forde. Presented at in ILSI SEA publication http://ilsisea-region.org/wp- content/uploads/sites/21/2016 /12/02-Ciaran-Forde.pdf
--------------	---	--	---	--	--	--	--	--

Franciscato Cozzolino Silvia Maria	University of São Paulo, Brazil	Comparison of Child Lunch Meals in Brazil. Food and Nutrition Sciences.	Food and Nutrition Sciences		The authors acknowledge Equilibrium Consultancy which led this study. Funding by McDonald's Corporation for the project was primarily to Equilibrium. () CSMF advises McDonald's on nutrition issues.	Wrote reports for ILSI Brasil in 2017 http://ilsibrasil.org/wp- content/uploads/sites/9/2017/ 07/Fasc%C3%ADculo- RECOMENDACOES-DE- NUTRIENTES.pdf http://ilsi.org/brasil/wp- content/uploads/sites/9/2016/ 05/08-Sele%CC%82nio.pdf Funded and past president of SBAN - many links with the food industry: Nestlé , Cargill, Danone, Gatorade, ABIA, Coca Cola, Unilever, Herbalife, Performance Nutrition http://www.sban.org.br/congr esso2017/convidados- nacionais/ http://www.sban.org.br/parcei ros/parceiros.php http://www.sban.org.br/socie dade/historico.php
Freedman Marjorie	San José State University, USA	Publication in scientific journal/event: Is "Processed" a Four-Letter Word? The Role of Processed Foods in Achieving Dietary Guidelines and Nutrient Recommenda tions. American Society for Nutrition.	Advances in Nutrition	See Journal of the American Society for Nutrition	The ASN symposium was co- sponsored by the Institute of Food Technologists (IFT) and the International Food Information Council (IFIC). () funds to support this publication were provided by an educational grant from the Campbell Soup Company. The symposium was chaired by Guy Johnson and Janet King. The Guest Editor for this symposium was Connie Weaver. Guest Editor disclosure: Connie Weaver received research grants from Dairy Management Inc. and Nestle, and is on the Scientific Advisory Board for Pharmavite .	As Manager, Scientific Affairs, for The NutraSweet Company , Freedman traveled throughout the US and abroad educating health care professionals about the safety and benefits of the high-intensity sweetener NutraSweet (aspartame). (). As a nutrition consultant, Freedman provided expertise to Shape Up America!, The Kellogg Company, The McDonalds Corp. , Murdoch books, and the USDA. http://www.sjsu.edu/people/m arjorie.freedman/

Fulgoni III Victor	Nutrition Impact, LLC Battle Creek, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition +Is "Processed"a Four-Letter Word? The Role of Processed Foods in Achieving Dietary Guidelines and Nutrient Recommenda tions. American Society for Nutrition. Advances in Nutrition. +Contribution s of Processed Foods to Dietary Intake in the US from 2003–2008: A Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition, Institute of Food Technologists and	American Journal of Clinical Nutrition +Advances in Nutrition +The Journal of Nutrition from the ASN +journal Nutrients +Journal of the Academy of Nutrition and Dietetics	See Journal of the American Society for Nutrition	https://www.sourcewatch.org/ index.php/Nutrition_Impact,_ LLCNutrition Impact, LLC helps companies market their food products by promising drug-like benefits.	VL Fulgoni III, performs consulting and database analyses for various food and beverage companies and related entities The ASN symposium was co-sponsored by the Institute of Food Technologists (IFT) and the International Food Information Council (IFIC). () funds to support this publication were provided by an educational grant from the Campbell Soup Company. The symposium was chaired by Guy Johnson and Janet King. The Guest Editor for this symposium was Connie Weaver. Guest Editor disclosure: Connie Weaver received research grants from Dairy Management Inc. and Nestle, and is on the Scientific Advisory Board for Pharmavite.Senior Vice President of Nutrition Impact, LLC performs consulting services and database analyses for various food and beverage companies and related entities (nutrient paper)		https://www.sourcewatch.org/ index.php/Nutrition_Impact,_ LLCformer Kellogg Vice President Victor L. Fugoni IIISeveral publications funded by the industry: https://nutritionj.biomedcentr al.com/articles/10.1186/s1293 7-015-0057-5: The study and the writing of the manuscript were supported by Dairy Management Inc. https://nutritionj.biomedcentr al.com/articles/10.1186/s1293 7-015-0118-9: The present study was funded by North American Meat Institute. https://www.researchgate.net/ publication/326006345_The_ Pattern_of_Complementary_ Foods_in_American_Infants_ and_Children_Aged_0- 5_Years_Old-A_Cross- Sectional_Analysis_of_Data_ from_the_NHANES_2011- 2014: This research was funded by National Dairy Council/Dairy Management Inc https://www.researchgate.net/ publication/322562476_Sour ces_of_Added_Sugars_in_Yo ung_Children_Adolescents_a nd_Adults_with_Low_and_H igh_Intakes_of_Added_Sugar s: Nutrition Impact LLC (Battle Creek, MI, USA) received financial support from the Sugar Association for the research was funded and supported by the Grain Foods Foundation in Washington, D.C. https://www.researchgate.net/ publication/313871451_Sever al_grain_dietary_patterns_are _associated_with_better_diet
-----------------------	--	---	---	--	--	---	--	---

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1			
		International Food Information Council. Journal of Nutrition. +Processed Food Contributions to Energy and Nutrient Intake Differ among US Children by Race/Ethnicit y. Nutrients. +Energy and Nutrient Intakes from Processed Foods Differ by Sex, Income Status, and Race/Ethnicit y of US Adults. Journal of the Academy of Nutrition and Dietetics.				_quality_and_improved_short fall_nutrient_intakes_in_US_ children_and_adolescents_a_ study_focusing_on_the_2015 - 2020_Dietary_Guidelines_for _A: This project has been funded by the Grain Foods Foundation.
Gibney Michael	University College Dublin, Ireland	Ultra- processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. (and corrigendum) + Belgian Nutrition Society, Eight annual meeting, May 4th, 2018:	American Journal of Clinical Nutrition + Belgian Nutrition Society + Current Development s in Nutrition	See Journals of the American Society for Nutrition Sessions of the BNS sponsored by Yakult, Fédération de l'Industrie Alimentaire (FEVIA) and Beneo Institute	MJG serves on scientific committees for Nestle and Cereal Partners Worldwide The author does ad hoc consultancy work with Nestlé, chairs the International Breakfast research Consortium funded by Cereal Partners Worldwide, leads a project on the developing food serving sizes for use in the EU funded by Mondelez, PepsiCo, Unilever, Nestle and Coca Cola and is on the board of director s of ILSI Europe.	Members of the Board of Directors (as of June 2018) ILSI Europe http://ilsi.eu/about-us/ Published several articles that were commissioned by ILSI Europe: https://link.springer.com/artic le/10.1007/s00394-007-2004- 5: This publication was coordinated by Carina Madsen, Scientific Project Manager at ILSI Europe. This work was commissioned by the Functional Foods Task Force of the European branch of the International Life Sciences Institute (ILSI

	Session 1:			Europe). Industry members of
	Keynote 1:			this task force are Aiinomoto
	Ultra-			Europe, Barilla G. & R.
	processed			Fratelli, BASF, Bayer
	foods in			CropScience BioScience.
	human health:			Beneo-Orafti, Beverage
	a critical			Partners Worldwide
	appraisal			Campina, Coca-Cola
	+			European Union Group.
	Ultra-			Colloïdes Naturels
	processed			International CSM Danisco
	foods:			Dow Europe, Friesland
	definitions			Foods Frutarom
	and policy			GlaxoSmithKline, Groupe
	issues			Danone, Kellogg, Kraft
	Current			Foods Mars McNeil
	Development			Nutritionals, Monsanto
	s in Nutrition			Europe-Africa Nestlé
	5 III Fourthon			PensiCo International Procter
				& Gamble Raisio Red Bull
				Royal Cosun, Südzucker
				Tate & Lyle Speciality
				Sweeteners, Unilever, Valio
				Wild Flavors Wimm-Bill-
				Dann Foods Vakult Europe
				https://link.springer.com/artic
				le/10 1007/s00394-007-2005-
				4: same DOI
				http://ilsi.eu/wp-
				content/uploads/sites/3/2016/
				06/02007Gui Exp pdf
				Report of an ILSI Europe
				Expert Group
				Reviewed at a Workshop held
				in March 2007
				Commissioned by the ILSI
				Europe Packaging Materials
				Task Force
				https://link.springer.com/artic
				le/10.1007/s00394-013-0553-
				3: This work was conducted
				by an expert group of the
				European branch of the
				International Life Sciences
				Institute (ILSI Europe). The
				expert group received funding
				from the ILSI Europe
				Functional Foods Task Force.
				Industry members of this task
				force are listed on the ILSI
				Europe website at
				www.ilsi.eu.

							Participated in events hosted by ILSI Europe : http://ilsi.eu/event/marker- initiative-in-nutritional- research-workshop/
Gibney Eileen	University College Dublin, Ireland	Ultra- processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. (and corrigendum)	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition			http://www.ucd.ie/research/pe ople/agriculturefoodscience/d reileengibney/ research sponsored by Glanbia Ingredients Ireland Ltd and Glanbia Nutritionals (Research) Ltd. Consultancy for Drury Communications , whose clients include Mc Donald's and Love Irish Food (https://www.drurypn.ie/clien ts/) and for Wilson Hartnell PR , whose projects included food products (https://www.wilsonhartnell.i e/project/set-siucra-summer/)
Guy-Grand Bernard	Worked in the hospital l'Hôtel-Dieu (Paris), France and currently president of the editorial committee of the journal Cahiers de nutrition et de diététique, France	Aliments « ultra- transformés» et cancer. Cahiers de Nutrition et Diététique.	Cahiers de Nutrition et Diététique	See journal Cahiers de Nutrition et Diététique			President of the Fond Français pour l'Alimentation et la Santé (FFAS) http://www.ria.fr/actualites/ils -bougent/bernard-guy-grand- president-du-ffas- 1,4,3002609175.html http://alimentation- sante.org/ils-nous- soutiennent/ http://alimentation- sante.org/quest-ce-que-le- ffas/
Miller Jones Julie	St. Catherine University, USA	The Nutrition Society, Spring Conference 2018: Nutrient- nutrient interaction,	The Nutrition Society + AACCI	Sessions of the BNS sponsored by Yakult, Fédération de l'Industrie Alimentaire (FEVIA) and Beneo Institute Cereals 17 is organised by the	Julie Miller Jones is a scientific advisor to the Grains Food Foundation, The Healthy Grains Institute (Canada), Quaker Oats Advisory Board, and the Campbell Soup Company Plant and Health	The concept and much background for the present paper resulted from work of the Ad Hoc Joint Food and Nutrition Science Solutions Task Force (Task Force) [2006–2016], representing the Academy of Nutrition and	https://grainfoodsfoundation. org/experts/julie-miller-jones- phd-ln-cns/: part of the General Mills speaker's bureau For the national American Association of Cereal Chemists (AACC)

	/					
Ple	lenary	cereals industry		Advisory Board. She has	Dietetics, American Society	International, she is past
Le	ecture One			written papers of given	for Nutrition (ASN),	president and chair of the
Δ.	void	See Nutrition Society		speeches for Centro	Institute of Food	board of the national
110	rocessed and	See Rullinon Society		Internacional da	Tashnologists (IET) and	organization and has sorred
pro						
ult	ltra			Mejoramiento de Maiz y	International Food	in many capacities both
pro	rocessed			Trigo CIMMYT	Information Council (IFIC).	nationally and locally.
foo	ods: Sound			(International Maize and	The author would like to take	Currently, she heads the
bit	ite advice or			Wheat Improvement Center,	this opportunity to thank	Whole Grains Task Force and
ins	ist a sound			Mexico)	2015-2016 members of the	the Glycemic Carbohydrate
bit	ite			Cranberry Institute and Tate	Task Force, who helped with	Definition Committee
on	lite			chamberry institute, and Tate	the mean print. Mildred M	She is a scientific advisor to
+	L C C I			and Lyle.	the manuscript: Mildred M.	She is a scientific advisor to
AA	ACCI				Cody, Roger Clemens, Janet	the carbohydrate committee
Ev	vents &				Collins, Silvia Dumitrescu,	of the International Life
Ne	ews:				Johanna T. Dwyer, Mary	Sciences Institute. She is on
Ce	ereals 17				Christ-Erwin, Guy Johnson,	the scientific advisory panel
Sv	wmposium.				Gil Leveille Barbara Ivens	for the Grains Food
Eo	and				Catherine Metzgar Lo Farida	Foundation and Chartwell
10					Mahamadahah Samah	She has been the consultant
sei	election				Monamedsnan, Saran	She has been the consultant
ace	ccording to				Ohlhorst, Robert C. Post, and	for many companies
foo	ood				Katherine Wilkes. While the	
pro	rocessing:				Task Force was made up of	http://healthygrains.ca/about/s
fat	bulous or				members of the Academy	cientific-advisory-council/dr-
fla	awded? (2				IFT ASN or IFIC, the present	julie-miller-iones/: Dr. Jones
do	amarte)				naper may not reflect the	is a scientific advisor for
uo	Jeuments)				paper may not reneet the	
+	C				positions of those	many organizations including
Co	onference				organisations.	(), the Grains Food
on	n 'Nutrient-					Foundation, Wheat Foods
nu	utrient				The staff from the Academy	Council, Spokesperson for
int	iteraction'				of Nutrition and Dietetics,	International Food
Ple	lenary				ASN_IFT and IFIC assisted	Information Council, and
Le	ecture 1-				with the planning and	the Healthy Grains
Eo	ood				facilitation of the conference	Instituto
10					a line and with the maximum and	Institute.
pro	rocessing:				calls and with the review and	•
cri	riteria for				editing of the manuscript. No	https://www.cimmyt.org/esse
die	ietary				specific grant from any	ntial_grid/julie-miller-jones/:
gu	uidance and				funding agency, commercial	She is a scientific advisor for
pu	ublic health?				or not-for-profit sectors was	many organizations including
Nu	utrition				received for the development	the EU HealthGrain
So	ociety				of this manuscript	Platform on Whole Grains
50	cottish				si ano manaseript	Carbohydrates and Distant
	action					Fibro () the control of the sector
Se	ection					FIDTE , (), the carbonydrate
Me	leeting held					committee of the
at	the Royal					International Life Sciences
Co	ollege of					Institute of North America,
Ph	hysicians					the Grains Food
an	nd Surgeons.					Foundation, and the
GI	lasgow on					California Fig Advisory
26	6 27 March					Roard
20	-27 what chi					Duaru
20						1
Pro	roceedings					https://www.ncbi.nlm.nih.gov
of	f the					/pmc/articles/PMC3568172/:
			1			author on a publication.

		Nutrition Society.				where she received funding for travel to the workshop from ILSI
Keast Debra	Food & Nutrition Database Research, Inc. USA	Contributions of Processed Foods to Dietary Intake in the US from 2003–2008: A Report of the Food and Nutrition Science Solutions Joint Task Force of the Academy of Nutrition and Dietetics, American Society for Nutrition, Institute of Food Technologists , and International Food Information Council. Journal of Nutrition. + Processed Food Contributions to Energy and Nutrient Intake Differ among US Children by Race/Ethnicit y. Nutrients. + Energy and Nutrient Intakes from Processed Foods Differ by Sex,	The Journal of Nutrition from the ASN + journal Nutrients + Journal of the Academy of Nutrition and Dietetics	See Journal of the American Society for Nutrition	President of Food and Nutrition Database Research, Inc. was subcontracted by Nutrition Impact, LLC to conduct this research and other research funded indirectly by the International Life Sciences Institute-North America (ILSI-NA) (nutrient paper)	No webiste for that company, but the President of that company has published several papers in the field, many with the ASN, and many with people closed to the industry https://www.linkedin.com/in/ debra-r-keast-phd-a8564412

	/	(1)					
		Income Status, and Race/Ethnicit y of US Adults. Journal of the Academy of Nutrition and Dietetics.					
King Janet	University of California, Davis, and Children's Hospital Oakland Research Institute, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition.	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition			Give presentations for ILSI SEA region : http://ilsisea-region.org/wp- content/uploads/sites/21/2017 /10/ILSI-SEA-Region- Newsletter-October-2017.pdf http://ilsisea-region.org/wp- content/uploads/sites/21/2017 /05/01-Janet-King.pdf Council member of the Nestlé Foundation (2012): https://www.nestlefoundation .org/docs/AnnualReport2012. pdf
Lecerf Jean Michel	Institut Pasteur de Lille, France	Les aliments hyper- transformés : un nouveau concept discuté. Médecine des Maladies Métaboliques.	Journal Medecine des maladies metaboliques		The Institut Pasteur de Lille has many links with the industry See paper https://www.cambridge.org/c ore/journals/public-health- nutrition/article/corporate- political-activity-of-the-dairy- industry-in-france-an- analysis-of-publicly- available- information/400B6107C8859 B9E8B62110E0B5D5EF6htt ps://www.lesjfn.fr/print- full Conference supported by Danone, Nestle https://nutrition.pasteur- lille.fr/fileadmin/user_upload/ programme_entretiens_de_nu trition-final.pdf Interbev, CERIN, CEDUS, Aprifel, Foundation Bonduelle, Florette Food Servicehttps://www.pasteur- lille.fr/nous- soutenir/mecenat/Institute		Scientific committee Lactalis, Danone, Holder, Thermes de Brides les Bains, Avenance, Compass, Accor, Tourpagel, Lidl, Sanofi, MDS, Roche, AbbottResearch for: Lactalis, Roquette, Bonduelle, Yoplait, Witaxos, Phytobocaz, Master Foods, Lesaffre, Fondimare, IFIP, Distriborg, Synadiet, Chambre Syndicale de la Margarine https://www.anses.fr/sites/def ault/files/DPI-Ft- LECERFJean-Michel.pdf Member of the scientific committee for a front group of the dairy industry : http://www.lemangeur- ocha.com/auteur/jean-michel- lecerf/Member of the scientific committee of

		supported by Lactalis,		Aprifel (research on fruits
		Auchan, Fondation Bel		and veg):
				http://www.aprifel.com/page-
				conseil-
				scientifique.9.htmlhttps://twit
				ter.com/Aprifel FR/status/10
				04263891587747840Member
				of the scientific committee of
				Furopean Palm Oil Alliance
				(industry):
				https://www.palmoilandfood
				eu/en/our-scientific-advisory-
				papelhttps://www.palmoiland
				food eu/en/our-
				members Member of the
				scientific committee of the
				Institut Apport:
				http://www.codureco.com/cot
				http://www.cadureso.com/act
				uante/57-communique-
				presse/3834-prix-de-
				hereiene elimenteine institut
				nygiene-alimentaire-institut-
				appert-2014President of the
				scientific committee of the
				company Pileje:
				http://www.pileje-
				micronutrition.com/La-
				Fondation-PiLeJe,1205And
				published (including videos)
				for the dairy industry as
				well, CERIN:
				http://sbssa.enseigne.ac-
				lyon.fr/spip/IMG/pdf/chole_d
				oc_2008
				_AG_et_MCV.pdfhttps://ww
				w.youtube.com/watch?v=vvB
				asM2CjpUPublished in
				Nutrition Reviews - a journal
				of ILSI :
				https://onlinelibrary.wiley.co
				m/doi/epdf/10.1111/j.1753-
				4887.2009.00194.x
				1

Leveille Gilbert	Leveille Associates, Denville, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition.	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition	https://www.linkedin.com/in/ gilbert-leveille-phd-7179713 President, Leveille Associates, 1996 – o momento (22 anos)Denville, NJ, Food and Nutrition Consultation	GA Leveille, serves on scientific advisory boards for Hillshire Brands and the McCormick Science Institute	https://www.linkedin.com/in/ gilbert-leveille-phd-7179713 Past President, Institute of Food Technologists , 1971 – o momento (47 anos), Wrigley Science Institute Executive Director, Wrigley Science Institute , 2004 – 2010 (6 anos) VP technology, Cargill , 2002 – 2007 (5 anos) WorldWide VP Regulatory & Scientific Affairs, McNeil Nutritionals , 1999 – 2001 (2 anos)Fort Washington, PA, Responsible for worldwide regulatory activities and science VP, Research & Technical Services, Nabisco , 1988 – 1996 (8 anos)East Hanover, NJ, Responsible for fundamental research, extrusion research and scientific services Past President, American Society for Nutriion, 1988 – 1989 (1 ano)
MacDonald Ruth	Iowa State University, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition.	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition			

Madi Luis	ITAL, Brazil	The Myth of Ultra- Processed Foods. EC Nutrition. + Brasil Processed Food 2020 a. publication: ITAL. Alimentos industrualuza dos: a importancia para a sociedade brasileira . Editores: Rego R. A., Vialta A. and Madi L. 2018. http://aliment osindustrializ ados.com.br/2 / b. website: http://www.al imentosproce ssados.com.br	EC Nutrition : Predatory journal	With technical and scientific information, without value judgments or conflicts of interest, the knowledge in greater detail about the products and their ingredients and forms of processing can serve as support to the purchasing decisions of the Brazilian consumers, in the exercise of their free will	Equipe Técnica do Brasil Food Trends see Raul Rego http://www.ital.sp.gov.br/noti cias.php?not_id=661 Brasil Processed Food 2020: protocolo de intenção com a Associação Brasileira das Indústrias da Alimentação (Abia) O protocolo tem duração de três anos, e assinaram como testemunhas o diretor do Ital, Luís Fernando Madi; o diretor superintendente da Associação Brasileira das Empresas de Refeições Coletivas, Antônio Guimarães; o diretor técnico da Associação Brasileira de Proteína Animal, Ariel Antônio Mendes; o vice- presidente da Associação Brasileira da indústria de Embalagens Plásticas, Beni Adler; o presidente da Associação Brasileira da Indústria de Alimentos para
		imentosproce ssados.com.br /plataforma.p			Indústria de Alimentos para Fins Especiais e Congêneres, Carlos Eduardo
		hp + Brasil Processed			Gouvea; o gerente executivo da Associação Brasileira das Indústrias de Biscoito, Massas Alimentícias e Pães
		Food 2020: um projeto em defesa da			& Bolos Insudtrializados, Edgard Sanchez; o presidente da Associação Brasileira de Manteária Revela
		ão de alimentos. Brazilian			Agronegócio, Daniel Baptistella; o diretor executivo da Associação
		Journal of Food Technology.			Nacional de Defesa Vegetal Eduardo Daher; o presidente da Associação Brasileira das
					Indústrias de Queijo, Fábio Scarcelli; o diretor executivo da Associação Brasileira do
					Agronegócio, Luiz Antônio Beltrati Cornacchioni; o assessor técnico da

				Associação Brasileira da
				Indústria de Trigo, Luiz
				Carlos Caetano; o diretor
				executivo da Associação
				Brasileira da Indústria do
				Café. Nathan Herszkowicz: o
				presidente da Associação
				Brasileira dos Fabricantes
				de Latas de Alta
				Reciclabilidade . Renault de
				Castro: o gerente jurídico da
				Associação Paulista de
				Supermercados Roberto da
				Silva Borges, o presidente do
				Sindicato da Indústria da
				Pesca no Estado de São
				Paulo Roberto Kikuo Imai, e
				o presidente da Associação
				Brasileira das Indústrias de
				Equinamentos para
				Panificação, Biscoito e
				Massas Alimentícias
				Ronaldo Ferraz Curv
				http://www.abia.com.br/event
				os ler asp?codigo=1653&cod
				igo categoria=5&codigo sub
				categoria=25
				http://www.aberc.com.br/Upl
				oads/pdfs/Jornal ABERC-
				143 pdf
				https://abia.org.br/vsn/printno
				ticia.aspx?id=21
				Received a Jury Award from
				Food Ingredients South
				America Innovation Awards
				2018 - Food Ingredients is a
				conference organised by/for
				the food industry
				(https://www.fi-
				events.com.br/pt/empresas-
				expositoras)
				https://www.fi-
				events.com.br/pt/jurados
				1 0
				Worked with the International
				Association of Packaging
				Research Institutes, IAPRI
				http://buscatextual.cnpq.br/bu
				scatextual/visualizacv.do?id=
				K4783071T7

Martins Carolina	Unknown, was working with the University of São Paulo, Brazil at the time of publication	Comparison of Child Lunch Meals in Brazil. Food and Nutrition Sciences.			The authors acknowledge Equilibrium Consultancy which led this study. Funding by McDonald's Corporation for the project was primarily to Equilibrium.	No information online
Morán Javier	Universidad Católica San Antonio de Murcia , Spain	Acerca de los sistemas de clasificación de alimentos y su racionalidad científica	IFAN Chile	Yes, public-private initative http://ifan.cl/quienes-somos/		Tras trabajar 15 años en la industria alimentaria, en distintas posiciones, en Latinoamérica y Europa, desde 1998 es Socio-Director de Food Consulting & Associates. http://www.nutraceuticalseur ope.com/wp- content/uploads/2016/09/CV- bilingüe-JMorán.pdf http://www.foodconsulting.es Participated in conferences sponsored by the food industry http://www.foodconsulting.es /probiota-2018/ http://www.foodconsulting.es /probiota-2018/ http://www.foodconsulting.es /wp- content/uploads/programapro biota18.pdf Granotec http://icn2017.com/docs/preli minary_sponsored_programm e.pdf https://www.fdf.org.uk/events /HCNP.pdf Research funded by the industry Sallina Blanca STAR (GBST), Grupo Carinsa, WILD Valencia, S.A, Probelte bio, Ibermática, 2BBlackBio, Go Fruselva S.L.U, Asturiana, Biocentury S.L.U https://www.nutraingredients. com/Article/2012/01/05/Oliv e-oil-extract-space-gains- another-player http://www.heunfood.com/pa

						rticipantes/empresas/index.ht ml
Mullally Deirdre	University College Dublin, Ireland	Ultra- processed foods in human health: a critical appraisal. American Journal of Clinical Nutrition. (and corrigendum)	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition		Graduated in 2016 - https://www.linkedin.com/pu b/dir/Deirdre/Mullally

Ordovas Jose	Office of Dietary Supplements, NIH, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition.	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition		Presented at ILSI events: http://ilsi.org/event/experime ntal-biology-2016-2/ http://ilsi.org/event/ilsi-north- america-mid-year-meeting/ http://ilsi.org/event/big-data- and-other-innovative- approaches-to-understanding- dietary-patterns-and-health/ Publications funded by ILSI: https://academic.oup.com/ajc n/article/89/5/1509S/4596902 : Funds to support the writing of this manuscript were provided in part by the Project Committee on Early Nutrition of the International Life Sciences Institute North American Branch .
Pascal Gérard	Retired, worked at INRA, France	Séance hebdomadaire de l'Académie d'Agriculture de France (6 documents) https://www.a cademie- agriculture.fr/ actualites/aca demie/seance/ academie/des- matieres- premieres- agricoles-aux- aliments- quel-impact- des	Académie d'Agriculture	The Academie is a partner of most prof organisations in the agro and agrobusiness sector https://www.academie- agriculture.fr/academie/rayon nement-partenariat/autres- partenaires		Retired ILSI Europe Members of the Nomination Committee: http://ilsi.eu/about-us/ Chair of one of their symposium: http://ilsi.org/event/ilsi- europe-2012-annual- symposium-the-21st-century- food-chain/ Also presented at a Danone Institute Symposium - http://institutdanone.org/tags_ relatifs/toxicologie/

Rego Raul Amaral	ITAL, Brazil	The Myth of Ultra- Processed Foods. EC Nutrition. +Brasil Processed Food 2020a. publication: ITAL. Alimentos industrualuza dos: a importancia para a sociedade brasileira . Editores: Rego R. A., Vialta A. and Madi L. 2018. http://aliment osindustrializ ados.com.br/2 /b. website: http://www.al imentosproce ssados.com.br /plataforma.p hp +Brasil Processed Food 2020: um projeto em defesa da industrializaç ão de alimentos. Brazilian Journal of Food		EC Nutrition : Predatory journal		With technical and scientific information, without value judgments or conflicts of interest, the knowledge in greater detail about the products and their ingredients and forms of processing can serve as support to the purchasing decisions of the Brazilian consumers, in the exercise of their free will	Equipe Técnica do Brasil Food TrendsOne of the coordenadoresPatrocinadores: ABIC, ABLV, Cargill, Coca-Cola, Danone, Fispal Tecnologia, Grupo Pao de Azucar, Fundepag, Jenkor, JBS, M Cassab, MDF, Monsanto, Nestle, Sindicarnes, Tetrapackhttp://www.brasilf oodtrends.com.br/equipetecni ca.htmlApoio tecnico: ABIA, APAS, ECD, ESPM, FOOD designhttp://www.brasilfoodt rends.com.br/publicacao.html Brasil Processed Food 2020, see Luis MadiParticipação ativa no congresso e Prêmio SBAN ILSIhttp://ilsibrasil.org/wp- content/uploads/sites/9/2016/ 10/boletim_ilsi_19_alta.pdfPa rticipated in many events organised for/by industry actors: Latin America Symposium of Food Science, SIAL Brazil, Vitafoods South Americahttp://buscatextual.c npq.br/buscatextual/visualiza cv.do?id=K4785940P5
Romero Jairo	ALACCTA Asociación Latinoameric ana y del Caribe de Ciencia y	Comentarios al Proyecto de Ley 07 de 2017, audiencia publica de la comisión	Colombian Senate		Yes, food industry trade assoc		Presented for ILSI in 2018 http://ilsibrasil.org/wp- content/uploads/sites/9/2018/ 04/DrJairo-Romero-Data- and-Emotions.pdf And earlier http://ilsinorandino.org/wp-

	Technologia de Alimentos	séptima del senado de la republica de Colombia, Octubre 26 de 2017					content/uploads/sites/16/2016 /12/La-ciencia-detrás-de- regulaciones-Jairo- Romero.pdf
Sanchez Oliveira Jensen Natália	Translator for ACME, Brazil	Comparison of Child Lunch Meals in Brazil. Food and Nutrition Sciences.				The authors acknowledge Equilibrium Consultancy which led this study. Funding by McDonald's Corporation for the project was primarily to Equilibrium.	Graduated from USP, Brazil in 2014 https://br.linkedin.com/in/nat aliasanchezoliveirajensen
Schmidt David	International Food Information Council, USA	Is "Processed" a Four-Letter Word? The Role of Processed Foods in Achieving Dietary Guidelines and Nutrient Recommenda tions. American Society for Nutrition. Advances in Nutrition.	Advances in Nutrition	See Journal of the American Society for Nutrition	https://www.foodinsight.org/a bout#block-block-17 IFIC Supporters: IFIC is supported by the following companies from the broad- based food, beverage and agricultural industries: Abbott Nutrition, Atkins Nutritionals, Inc., Barilla Group Bayer CropScience LP, Cargill, Incorporated, Chobani, The Coca-Cola Company, Compass Group, Danone North America PBC, Dow AgroSciences, LLC, DSM, DuPont Nutrition & Health, Ferrero USA, General Mills, Inc., Heartland Food Products Group, The Hershey Company HYET Sweet, Mars, Incorporated, McCormick & Company, Inc., McKee Foods, Mondelēz International, PepsiCo, Red Bull North America, Subway, Yum! Brands, Zoetis	The ASN symposium was co- sponsored by the Institute of Food Technologists (IFT) and the International Food Information Council (IFIC). () funds to support this publication were provided by an educational grant from the Campbell Soup Company. The symposium was chaired by Guy Johnson and Janet King. The Guest Editor for this symposium was Connie Weaver. Guest Editor disclosure: Connie Weaver received research grants from Dairy Management Inc. and Nestle, and is on the Scientific Advisory Board for Pharmavite.	Schmidt also gained a thorough understanding of the food industry in previous sales positions with leading food and beverage firms, Oscar Mayer Foods, Pepsi- Cola USA and Canada Dry Corporation. https://www.foodinsight.org/ users/david-b-schmidt Presented at an ILSI Brazil event http://www.fsp.usp.br/site/dc ms/fck/file/comunica-e-risco- 14.pdf
Schnakenberg David	Unknown	Processed foods: contributions to nutrition. American Journal of	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition			

		Clinical Nutrition.				
Shelke Kantha	Corvus Blue, USA	Video: Processed Foods Wonderful For Women http://bcove. me/77r4zm4t	Institute of Food Technologists	See IFT		Previously employed at ACNielsen, Ben & Jerry's, Continental Baking Corporation, and Pillsbury, she is the Science & Technology Editor of Private Label Manufacturing Association's PLMA Live! video magazine, Advisory Board Member of Nutrition Business Journal, and Contributing Editor for Prepared Foods magazine. Her book "Pasta and Noodles: a Global History" was just published. Presented at ILSI North America event http://ilsi.org/event/the- safety-of-sodium-reduction- in-the-food-supply-a-cross- discipline-balancing-act/
Souchon Isabelle	INRA, France	Séance hebdomadaire de l'Académie d'Agriculture de France (6 documents) https://www.a cademie- agriculture.fr/ actualites/aca demie/des- matieres- premieres- agricoles-aux- aliments- quel-impact- des	Académie d'Agriculture	The Academie is a partner of most prof organisations in the agro and agrobusiness sector https://www.academie- agriculture.fr/academie/rayon nement-partenariat/autres- partenaires		
Trystram Gilles	AgroParisTec h, France	Séance hebdomadaire de l'Académie d'Agriculture	Académie d'Agriculture	The Academie is a partner of most prof organisations in the agro and agrobusiness sector https://www.academie- agriculture.fr/academie/rayon		file:///C:/Users/Usuário%20C onvidado/Downloads/trystra mgillessection82016.pdf Président of a committee

ance (6 nents) //www.a nie- alture.fr/ lites/aca //seance/ mie/des- res- eres- oles-aux- nts- mpact-	nement-partenariat/autres- partenaires		from Fondation Daniel et Nina Carasso - see above, funded by the funder of Danone Conseil scientifique Institut Paul Bocuse Conseil scientifique Groupe Avril signed a joint letter in 2018 with many industry actors - Transforming the European Agri-Food Sector - https://www.eitfood.eu/media /documents/List_of_endorse ments.pdf Les membres du groupe Projet "La Solution Alimentation Intelligente" by ANIA https://www.ania.net/wp- content/uploads/2017/02/Prés entation-Solution- Alimentation-Intelligente.pdf Presented in events funded by industry actors - https://twitter.com/ANIA_FR ANCE/status/1009348003264 638976 http://www.jas- larochelle.fr/en/partners/food- industry-partners http://www.jas- larochelle.fr/wp- content/uploads/programme- 2018-EN-web.pdf Members of the Conseil National de l'Alimentation - which woks with the food industry: http://www.cna- alimentation.fr/v1/wp- content/uploads/2016/10/CN A_liste-des-membres-2016- 2019 Tableau 2016 10 28 p
			which woks with the food industry: http://www.cna- alimentation.fr/v1/wp- content/uploads/2016/10/CN A_liste-des-membres-2016- 2019_Tableau_2016_10_28.p df
			Membres du collège des personnalités qualifiées - FFAS http://alimentation-

					sante.org/organisation/conseil -dadministration/
Vialta Airton	ITAL, Brazil	The Myth of Ultra- Processed Foods. EC Nutrition. + Brasil Processed Food 2020 a. publication: ITAL. Alimentos industrualuza dos: a importancia para a sociedade brasileira . Editores: Rego R. A., Vialta A. and Madi L. 2018. http://aliment osindustrializ ados.com.br/2 / b. website: http://www.al imentosproce ssados.com.br /plataforma.p hp	EC Nutrition : Predatory journal	With technical and scientific information, without value judgments or conflicts of interest, the knowledge in greater detail about the products and their ingredients and forms of processing can serve as support to the purchasing decisions of the Brazilian consumers, in the exercise of their free will	COMITÊ TÉCNICO- CIENTÍFICO DO WEBSITE "ALIMENTOS PROCESSADOS" - together with industry actors: ABIA, International Academy of Food Science and Technology - IAFoST, IFIC, Instituto mauá de Tecnologia - IMT, Sociedade Brasileira de Ciência e Tecnologia de Alimentos - SBCTA http://www.alimentosprocess ados.com.br/comite.php ITAL lança portal de conteúdo sobre alimentos processados Fazem parte deste grupo profissionais de instituições como a Associação Brasileira de Editores Científicos (Abec), Associação Brasileira das Indústrias de Alimentação (Abia), Associação Brasileira de Nutrologia (Abran), Faculdade de Engenharia de Alimentos e Agrícola da Universidade Estadual de Campinas (FEA/Unicamp), Faculdade de Ciências Farmacêuticas da universidade de São Paulo (USP) e International Life Sciences Institute do Brasil (ILSI BRASIL). http://www.ital.sp.gov.br/noti cias.php?not_id=785
					ILSI Nor-Andino and ITAL as his organisations: http://ilsi.org/wp- content/uploads/2018/03/ITA L-Dr-Airton-Vialta- 20octubre2016.pdf http://ilsi.org/regional-

						collaboration/ http://elnoti.com/ilsi-nor- andino-presenta-rol-la- ciencia-la-tecnologia- alimentos-bogota/ http://ilsi.org/event/food- science-and-technology/
Weaver Connie	Purdue University, USA	Processed foods: contributions to nutrition. American Journal of Clinical Nutrition.	American Journal of Clinical Nutrition	See Journal of the American Society for Nutrition	CM Weaver, serves as an unpaid board member for the International Life Sciences Institute of North America and serves on a scientific advisory board for Pharmavite and her university has received research grants from the Dairy Research Institute, Nestlé, and Tate & Lyle	https://www.healthpolicyjrnl. com/article/S0168- 8510(13)00022-5/pdf: publishes for ILSI North America Vice Chair of the ILSI Board of Trustees and Chair of the ILSI Board Publications Committee http://ilsi.org/connie-weaver/