

36th EFFoST International Conference

*Shaping the Production of Sustainable,
Healthy Foods for the Future*



7-9 November 2022
Dublin, Ireland



Conference Book



www.effostconference.com



Organised by:



Hosted by:



Co-event:





Nestlé

KitKat

V

VEGAN

Per bar

Energy
891kJ
214kcal

11%*

Energy per 100g:
2146kJ/515kcal

Vegan

Dear Colleagues and Friends,

We would like to welcome you to the 36th EFFoST International Conference and to Dublin, Ireland. We are excited to share the latest scientific knowledge and advances in Food Science and Technology under this year's conference theme: ***Shaping the Production of Sustainable, Healthy, Foods for the Future.***

It is timely, given the unprecedented pressures on global food systems, that we come together to discuss how food science and technology can positively contribute to these challenges. The conference will demonstrate how the scientific community, the food industry, the food service sector, regulatory bodies and other stakeholders, are working in unison to address global issues.

The conference programme was developed by the Local Organising Committee which includes colleagues from across the island of Ireland, from University College Dublin, University College Cork, University of Limerick, Technical University of Dublin, Queen's University Belfast and Teagasc. The status quo will be challenged, and scientific innovation and development highlighted in five plenary lectures, panel discussions, more than 150 oral contributions in 28 parallel sessions, 60 presentations in the 10 special sessions dedicated to EU project results and association activities, and over 430 poster presentations.

We are delighted that the EFFoST/IFT-NPD Workshop on Nonthermal Processing of Foods will also be held at the 36th EFFoST International Conference. This means that as a EFFoST2022 delegate, you will also have access to 10 NTP sessions with more than 50 speakers during the parallel programme. More information on NTP2022 can be found on page 18.

We look forward to giving you a "Céad Mile Fáilte"!

With kind regards,



Prof. James Lyng
*UCD Institute of Food
and Health, Ireland*



Prof. Dolores O'Riordan
*UCD Institute of Food
and Health, Ireland*

James Lyng is the Head of the Food and Nutrition Section at University College Dublin. His scientific research focuses on the use of emerging thermal and non-thermal technologies in the processing of foods including their assessment for preservation and impact on product quality/nutritional value. He also assesses their use in valorization of food waste and their role as novel processing technologies in the bioeconomy.

Dolores O'Riordan is a Full Professor of Food Science, the Director of UCD's Institute of Food and Health and UCD's Vice President for Global Engagement. Her research focuses on the physico-chemical properties of food ingredients and food structures that enhance health benefits. She has active global partnerships and holds appointments on several national and European committees and boards.

About the 36th EFFoST International Conference



The 36th EFFoST International Conference 2022 ‘**Shaping the Production of Sustainable, Healthy Foods for the Future**’ is hosted by University College Dublin. It is held in the city of Dublin, Ireland from 7-9 November 2022.

Healthy and sustainable food systems must be achieved as a matter of urgency to improve human health and the health of the planet. Ensuring that healthy eating equates to sustainable eating requires the collaboration of many stakeholders across the food chain. EFFoST2022 aims to assemble a range of experts to articulate the challenges and advance our knowledge of how to produce and process healthy sustainable foods and mobilise citizens to make sustainable dietary choices.

Every year the European Federation of Food Science and Technology (EFFoST) organises this prestigious academic food

science and technology conference. Join world-renowned researchers, scientists, policy makers, professionals and students from multi-disciplinary food-related fields to share the latest developments and create new partnerships.

EFFoST2022 explores the theme ‘**Shaping the Production of Sustainable, Healthy Foods for the Future**’. This theme is further examined with these five main conference subthemes that highlight the expertise of this year’s conference host.

1 Green Food Processing – Innovations to meet the future challenges of food production	<ul style="list-style-type: none"> Innovative and novel sustainable food processes Sensor technology to enhance food quality Robotics, automation, and control of food processes Modelling, its role in quality by design
2 Developments in foods to underpin an appealing, healthy, sustainable diet	<ul style="list-style-type: none"> Enhancing the sensory appeal of foods Formulation of foods to enhance their sustainability and/or nutritional value Engineering food structures to enhance nutrient quality and bioavailability Bioactives and secondary metabolites: generation and characterisation Advances and challenges in alternative proteins Designing and producing foods to meet future challenges
3 Advances to enhance food safety, security, authenticity and integrity	<ul style="list-style-type: none"> Bioinformatics and its role in food safety, hygienic design & contamination control Protecting the food chain, biosecurity, food fraud and authenticity Emerging technologies for the rapid detection of food safety issues Identifying and preparing for emerging food safety risks Food toxicology and allergenicity
4 Implementing the circular economy across the food chain	<ul style="list-style-type: none"> Emerging technologies for valorising side streams, food waste & by-products Advances in food packaging to safeguard food the environment Approaches to minimise water use and water waste. Techniques to enhance energy efficiency & minimize environmental impact The Internet of Food for Things
5 Market perception of food processing and sustainable, healthy diets	<ul style="list-style-type: none"> Consumers’ attitudes to processed foods and desire for clean labels Consumer trends and responses to emerging and future foods The role of foodservice & food retailers in the provision of food to satisfy sustainable healthy diets Supporting consumer choices and preferences: technologies to help consumers make informed decisions Dietary recommendations consistent with a sustainable healthy diet, current & future policies

Organizing committee

Conference Chairs



Prof. James Lyng
UCD Institute of Food and Health, Ireland



Prof. Dolores O'Riordan
UCD Institute of Food and Health, Ireland

Organising Committee



Dr Catherine Barry-Ryan
Technological University Dublin, Ireland



Dr Anne Nugent
Queen's University Belfast, Northern Ireland



Prof. Paula Bourke
University College Dublin, Ireland



Dr Geraldine Quinn
University College Dublin, Ireland



Prof. Mark Fenelon
Teagasc, Ireland



Prof. Brijesh Tiwari
Teagasc, Ireland



Prof. Maeve Henchion
Teagasc, Ireland



Alva O'Loughlin Kennedy
UCD, Ireland



Prof. Mary McCarthy
University College Cork, Ireland



Steven Mulrooney
UCD, Ireland

Programme coordination committee

Scientific committee

Lilia Ahrné
University of Copenhagen, Denmark

Wayne Anderson
Food Safety Authority of Ireland, Ireland

Serafim Bakalis
University of Copenhagen, Denmark

Diána Bánáti
International Life Science Institute Europe, Belgium

Remko Boom
Wageningen University and Research, the Netherlands

Gail Bornhurst
University of California Davis, USA

Kaye Burgess
Teagasc, Ireland

Sylvie Chevallier
ONIRIS-GEPEA, France

Milena Corredig
Aarhus University, Denmark

Marco Dalla Rossa
University of Bologna, Italy

Kees de Gooijer
TKI Agri&Food, Netherlands

Hugo de Vries
INRA-UMR IATE, France

Ferruh Erdogdu
Ankara University, Turkey

Giovanna Ferrari
Università degli Studi di Salerno, Italy

Vincenzo Fogliano
Wageningen University and Research, the Netherlands

Richard Frazier
IFST, United Kingdom

Jesús Frías
Dublin Institute of Technology, Ireland

Eimear Gallagher
Teagasc, Ireland

Kata Galić
University of Zagreb, Croatia

Eleni Gogou
NTUA-National Technical University of Athens, Greece

Tara Grauwet
KU Leuven, Belgium

Christoph Hartmann
Nestle, Switzerland

Delphine Huc-Mathis
AgroParisTech, France

Henry Jäger
University of Natural Resources and Life Sciences, Austria

Anja Janssen
Wageningen University and Research, the Netherlands

Alain Le Bail
ONIRIS, France

Uri Lesmes
Technion - Israel Institute of Technology, Israel

Ioanna Mantala
Agricultural University of Athens, Greece

Olga Martin-Belloso
University of Lleida, Spain

Alexander Mathys
ETH Zurich, Switzerland

Viktor Nedovic
University of Belgrade, Serbia

Lisa O'Connor
Food Safety Authority of Ireland, Ireland

Laura Piazza
University of Milan, Italy

Paola Pittia
University of Teramo, Italy

Cornelia Rauh
Technical University of Berlin, Germany

Catherine Renard
INRAE, France

Anet Režek Jambrak
University of Zagreb, Croatia

Anwesha Sarkar
University of Leeds, United Kingdom

Oliver Schlüter
Leibniz Institute of Agricultural Engineering, Germany

Felix Schottroff
University of Natural Resources and Life Sciences, Austria

Cristina Silva
Catholic University of Portugal, Portugal

Petros Taoukis
National Technical University of Athens, Greece

Declan Troy
Teagasc, Ireland

Vasilis Valdramidis
University of Malta, Malta

António Vicente
University of Minho, Portugal

About EFFoST

The European Federation of Food Science and Technology (EFFoST) facilitates knowledge and technology exchange among food professionals. EFFoST creates opportunities for food scientists, engineers, technologists, policymakers and businesses in food and food-related areas to connect and collaborate with the objective to enhance the uptake of new technologies and developments. By supporting the further development of food science and technology, EFFoST aims to advance the production of sustainable and healthy *food for all in a changing world*.

The sustainability of our food supply chain is threatened by environmental and societal shifts, such as climate change and depletion of natural resources, as well as the increasing consumption per capita and changing dietary preferences. Guaranteeing the availability and accessibility of food for future generations will require creativity, expertise and entrepreneurial spirit to generate sustainable and innovative solutions.

In support of this, EFFoST is dedicated to creating a community of European food experts to advance the field of food science and technology through:



EFFoST community

More than 130 societies, institutes and universities all over Europe are affiliated to the non-profit organisation EFFoST. We are Europe's largest food science expert base and stakeholder group. EFFoST is the European group of the International Union of Food Science & Technology (IUFOST), which in turn is a full member of the International Council for Science (ICSU).

Agro Business Park 82 | 6708 PW Wageningen |
The Netherlands | +31 88 3663 700 | info@effost.org

Find The European Federation of Food Science
and Technology on @EFFoST



www.effost.org

Networking

EFFoST International Conference: at this annual event recent advancements in food science and technology are discussed. This year marks the 36th EFFoST International Conference.

EFFoST awards: Food professionals are recognised for their outstanding contributions to the field with the Science to Society and Lifetime Achievement Awards. The next generation of food scientists are acknowledged with the Student of the Year award.

EFFoST Membership: allows food professional to expand their network and stay informed of the latest developments.

Sharing knowledge

EFFoST journals: In collaboration with the academic publishing house Elsevier, EFFoST has three official peer-reviewed journals, namely: *Trends in Food Science & Technology*, *Innovative Food Science and Emerging Technologies*, *Food Control*.

Taste of Science: Taste of Science is an online magazine with easy-to-read articles to inspire food entrepreneurs to give them an edge in the increasingly competitive food market.

EFFoST media channels: EFFoST shares the latest developments in food science and technology, including research results and project outcomes on the EFFoST website, in our newsletter and on social media.

Building collaborations

Young EFFoST: This young scientist group is created by and for students and early-career food professionals. Young EFFoST is dedicated to helping young scientists develop personal and professional skills.

Working groups: The EFFoST working groups dedicated to 'Digital Food', 'Health & Food' and 'Sustainable Food Systems' allow for the cross-pollination of knowledge, ideas and applications from various food science disciplines.

About University College Dublin

The host of the 36th EFFoST International conference is University College Dublin (UCD). It is the largest university in Ireland with over 33,000 students drawn from 144 countries, including almost 4,000 students based at locations outside of Ireland. UCD is ranked within the top 1% of higher education institutions worldwide and is one of Europe's leading research-intensive universities with research activities falling within its four strategic themes:

- Creating a Sustainable Global Society
- Transforming Through Digital Technology
- Building a Healthy World
- Empowering Humanity



Food Science and Technology is a core academic and research strength within UCD spanning two of its constituent schools, the School of Agriculture and Food Science and the School of Biosystems and Food Engineering. In 2008, the UCD Institute of Food and Health was established to draw on the research strengths of these two schools alongside other schools working in the area of food and health, to create a centre of excellence and a hub for multidisciplinary research. Under the Directorship of Professor Dolores O'Riordan, co-Chair of the EFFoST 2022 International Conference, the Institute's research focus is to Future Proof Global Food Systems. It currently draws its membership of over 200 from faculty, postgraduate students and postdoctoral researchers working across the university in the areas of Food Safety; Food Sustainability; Primary Production Systems; Innovative Food Processing; and Nutrition and Health. Within this membership, the Institute hosts some of the world's most highly cited researchers and world leading experts in the area of food science and technology. Working with research partners across the university and within national and international multidisciplinary research programmes, the Institute to 'future-proof global food systems enabling healthy living and societal well-being'.

UCD is privileged to be part of a large eco-system of research leadership on the island of Ireland. The Irish government has made significant investment in research as well as in public-private partnerships, which have stimulated food and bio-economy research and innovation to be responsive to the changing nature of innovation and global challenges. It has also led to the development and consolidation of considerable research expertise in food technology. Ireland has recently published its 2030 agri-food strategy which sets out the high ambition to become an international leader in Sustainable Food Systems over the next decade. The State has committed to continue to support the research required to underpin this ambition with appropriate funding.

Together with our colleagues from across the island of Ireland, from University College Cork, University of Limerick, Technical University of Dublin, Queen's University Belfast and Teagasc, we are delighted and honoured to have the opportunity to host the 2022 EFFoST International Conference. We look forward to welcoming you and meeting you in Dublin.



Special Issues



ELSEVIER

The 36th EFFoST International Conference will be partnering with the academic publishing house Elsevier to create two special issues with a collection of articles representing the most cutting-edge research presented at EFFoST2022.

This year special issues that highlight the themes and topics of the conference will be published in *Innovative Food Science and Emerging Technologies* and *Future Foods*. The Conference Organising Committee will invite a select number of authors to contribute to the high-impact journal *Innovative Food Science and Emerging Technologies*. There will also be an open call for all other EFFoST2022 presenters and attendees to submit their work to the special issue of the open-access journal, *Future Foods*. Elsevier will be providing a full waiver for all contributors to the special issue of *Future Foods*; therefore authors will exceptionally not need to pay the article processing charge fee.

Every article will undergo a rigorous peer view process lead by the Editors-in-Chief and the EFFoST2022 Guest editor. The deadline for the submission of manuscripts for both special issues is 31 December 2022.

Supporting Journals of EFFoST2022

The 36th EFFoST International Conference will be partnering with the academic publishing house Elsevier to create two special issues with a collection of articles representing the most cutting-edge research presented at EFFoST2022.

Innovative Food Science and Emerging Technologies (IFSET) aims to provide the highest quality original contributions on new developments. It presents works to advance current scientific knowledge and understanding or with high technical relevance. The journal publishes research and review papers dealing with key advances in food science, food engineering and technology, safety, security, sustainability, fundamental, kinetics and mechanistic aspects of promising emerging food processing technologies as well as key food science innovations.



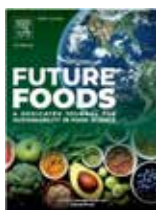
For more information, please visit:
www.sciencedirect.com/journal/innovative-food-science-and-emerging-technologies

Trends in Food Science & Technology is one of the premier international peer-reviewed journals publishing critical reviews and commentaries of current technology, food science and human nutrition. Its role is to fill the gap between the specialized primary journals and general trade magazines by focusing on the most promising new research developments and their current and potential food industry applications in a readable, scientifically rigorous way.



For more information, please visit:
www.sciencedirect.com/journal/trends-in-food-science-and-technology

Future Foods is a dedicated Journal to address the challenges of climate change and sustainability in food production. A transformation of the way food is currently manufactured and consumed is necessary to feed an ever-growing population whilst limiting its environmental impact. *Future Foods* publishes research that embodies the objective of developing new technologies and food sources for more sustainable food systems.



For more information, please visit:
www.sciencedirect.com/journal/future-foods

Food Control is an international journal that provides essential information for those involved in food safety and process control. It covers the main areas that relate to food process control or to food safety of human foods, such as microbial food safety and antimicrobial systems, mycotoxins, risk assessment, quality assurance, etc. The contributions should be innovative either in the approach or in the methods used.



For more information, please visit:
www.sciencedirect.com/journal/food-control

On-site information

Registration

The registration desk will be located in the Atrium of the AVIVA Stadium. The registration desk will be open on Monday 7 November from 8:00-18:30 and will remain open for queries and registration for the duration of the conference.

Security

The health and safety of our attendees is our number one priority. From 21 January 2022, the Irish Government removed the majority of Covid-19 public health restrictions however we encourage you to

- Avoid physical contact, such as handshakes and embraces
- Wear face masks (if you so wish) in the public areas of the conference
- Respect others by maintaining where possible one metre social distance
- The venue will have enhanced cleaning procedures, with hand washing and sanitising facilities at frequent intervals, and will employ the highest standards of food safety. This guidance will continue to be reviewed in line with government and local authority updates.

Badges

For security reasons and for catering purposes, please ensure that you wear your conference badge throughout the conference. The colour coding of the badges is as follows:

Teal blue: Delegates	Yellow: Exhibitors & Sponsors
Light blue: Plenary/Keynote Speakers	Dark Green: NTP2022 workshop
Orange: Conference Session Chairs and Committee	Light green: Staff

Conference session locations

The conference plenary sessions will be held in the Presidents Suite, beginning at 13:00 on Monday 7 November. Please see the full programme for individual sessions, presentations, poster sessions and catering times.

Room Usage	Room Name
Conference Plenary Sessions & Parallel Session 1	Presidents suite, level 2
Conference Parallel Sessions	Havelock room, level 4 1872 room, level 3 Lansdowne room, level 1
NTP2022 Workshop	Vavasour Room, level 0
Special sessions	Corporate box 441 and 442, level 4
Poster Sessions, Lunch and Refreshment Breaks	Presidents Terrace, level 2
Exhibition, Lunch and Refreshment Breaks	Atrium, level 3

Poster sessions

The poster sessions will take place in the Presidents Terrace. Poster presenters should refer to the presenter author index in the back of the programme booklet, to check which poster session and board have been allocated to them.

Poster pin-up and removal times are as follows:

Poster Session	Pin-up	Removal
Poster Session 1	8:30 on Tuesday 8 November	18:30 Tuesday 8 November
Poster Session 2	8:30 on Wednesday 9 November	18:00 Wednesday 9 November

Please note that any posters remaining in place after the indicated times above may be removed by the organisers who accept no responsibility for loss or damage.

Important: Posters should be fixed to boards with Velcro stickers. Please see the Conference organisers at the registration desk who will provide fixing materials.

Programme

Any last-minute changes to the programme or news will be available on the app.

Speakers

Oral presenters are reminded to be in the room that they are speaking in no later than 15 minutes before the start of the session in order to meet with the session chair. **Please bring your presentation on a USB** to the Speaker Preview Room (room 440) located on level 4, two hours before your presentation. The technicians will ensure that your presentation is uploaded to the room you will be presenting in.

Abstracts

All the conference abstracts can be viewed online, this the QR code

Password: EFFO2022



Lunch, refreshments and reception

The registration fee includes the following catering arrangements:

Catering Arrangements	Dates	Times
Welcome Drinks Reception	Monday 7 November	18:00-20:00
Refreshment Breaks	Monday 7 November - Wednesday 9 November	Please see the full programme for timings
Lunch	Tuesday 8 November and Wednesday 9 November	Please see the full programme for timings

Wi-Fi access

There will be free access to the Wi-Fi.

Certificates of attendance

You will receive your certificate of attendance 4 weeks after the conference has concluded, you must fill out the feedback survey to receive your certificate of attendance. The feedback survey will be sent to you via email once the conference has ended.

Conference dinner

The conference dinner will be held at the Guinness storehouse on Tuesday 8 November at 20:00. A 3-course dinner will be served along with drinks, followed by tea and coffee. As our conference dinner guest, you are welcome to visit the Guinness Experience between 19:00-20:00. Delegates who have purchased a dinner ticket will be collected from outside the AVIVA stadium at 18:15. If you have booked a dinner ticket, this will be indicated on your conference badge.

Conference evaluation

Your comments and views on the content and organisation of the conference are highly valued. An evaluation form will be available online after the conference and the link will be emailed to you.

Social media

Please follow us and share your experiences of the conference on Twitter, LinkedIn and Facebook. Make sure to use #EFFoST and tag us with @EFFoST.

Photography

No photography or video/sound recording of conference presentations or posters is allowed during the conference. We will be sharing photos taken by a professional photographer after the conference.

EFFoST 2022 Conference app

We have an app available for this conference, install it by using the following QR codes. The event code is **Effost2022** and your login details will be sent to you by email.



Android

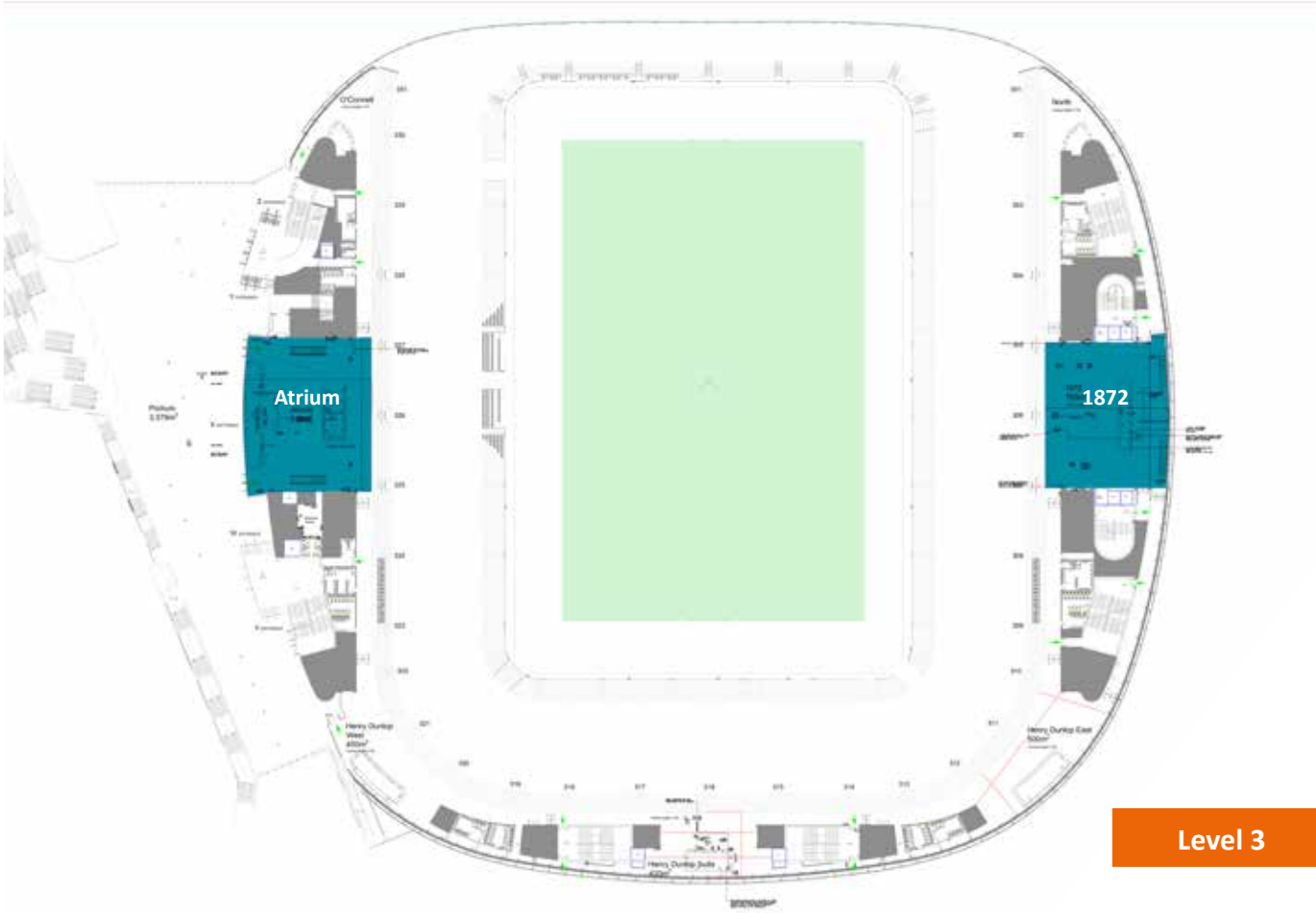


Apple

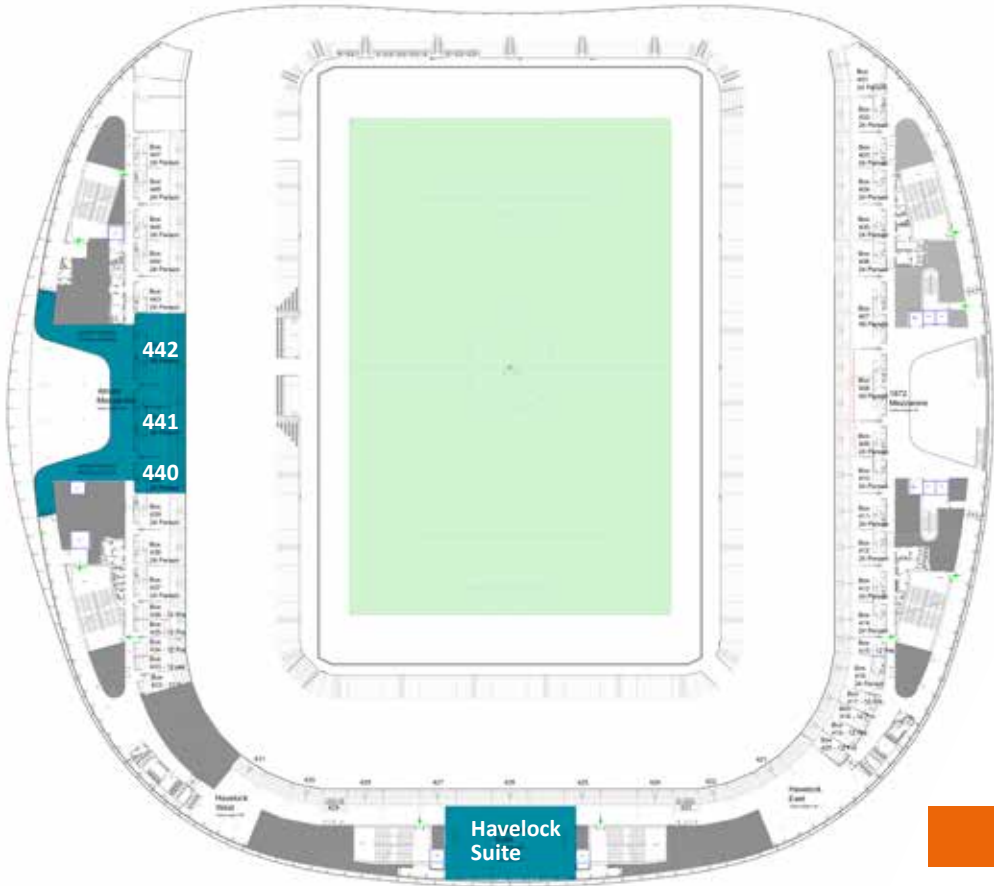
Social media share/no share sign



Floor plan

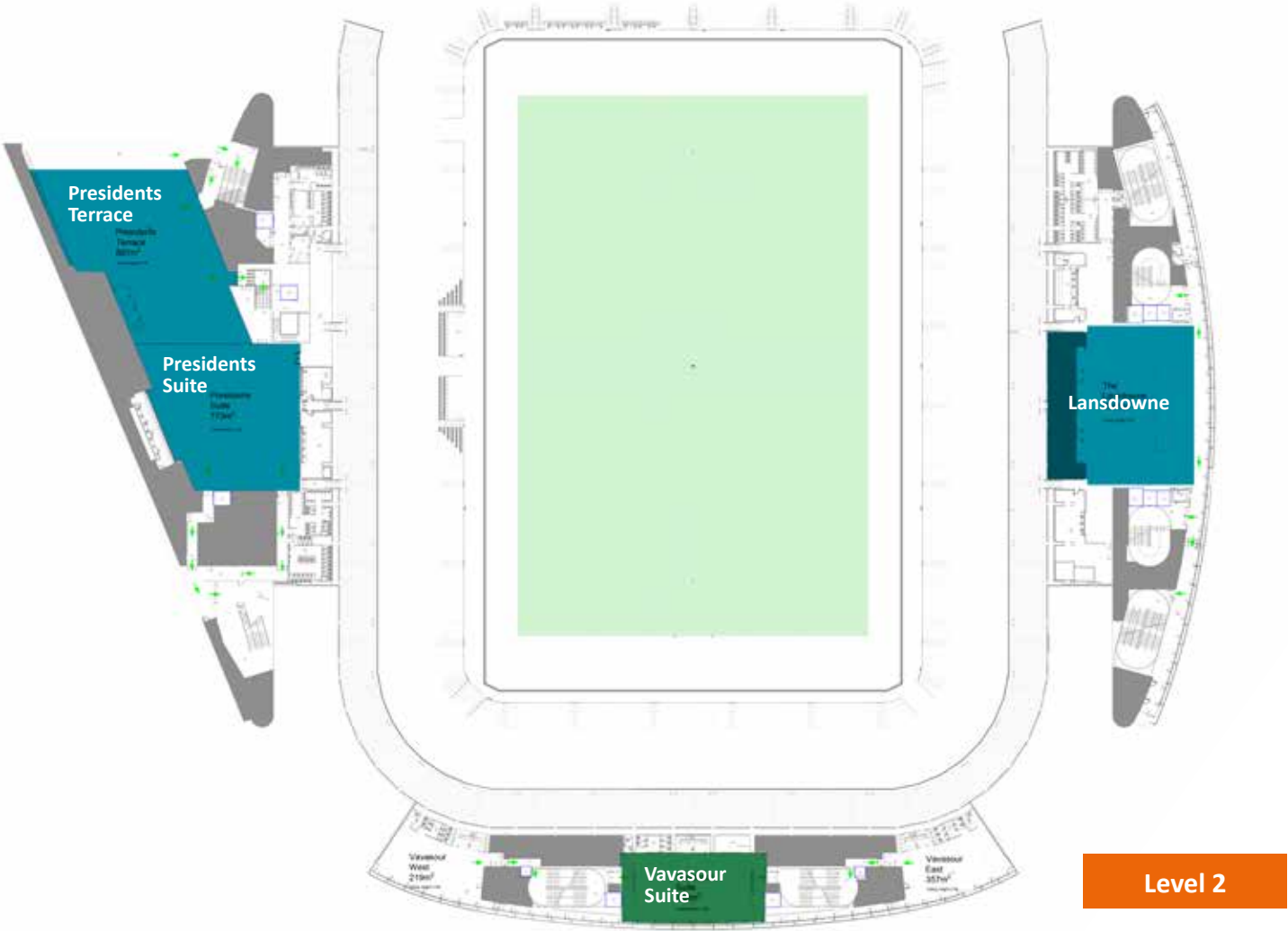


Level 3



Level 4

Floor plan



EFFoST2022 Exhibitors and Sponsors

– SILVER SPONSOR –



Nestlé

Good food, good life – that is what we stand for. Every day we touch billions of lives. We want to help shape a better and healthier world for individuals and families, for our communities and for the planet. At Nestlé, we constantly explore and push the boundaries of what is possible with foods, beverages, and nutritional health solutions to enhance quality of life and contribute to a healthier future. We use our scientific expertise and unmatched capabilities to deliver on trend innovations. They're the result of quick ideation to meet consumer trends, then rapid product development and shop tests. We fast-track funding for promising ideas, work with external partners and incubate innovation through our R&D Accelerator platform. This brings together Nestlé scientists, students and startups to advance science and technology with the objective of accelerating the development of trend-based products and systems. We believe in the power of food to enhance lives. Good food nourishes and delights the senses. It helps children grow healthy, pets thrive, parents age gracefully and everyone live life to the fullest. Good food brings us together.

www.nestle.com

– SPONSORS –



Cargill

Cargill's 160,000 employees across 70 countries work relentlessly to achieve their purpose of nourishing the world in a safe, responsible and sustainable way. Every day, Cargill connects farmers with markets, customers with ingredients, and people and animals with the food they need to thrive.

Cargill combines 153 years of experience with new technologies and insights to serve as a trusted partner for food, agriculture, financial and industrial customers in more than 125 countries. Side-by-side, they are building a stronger, sustainable future for agriculture. Cargill is proud to work together with EFFoST to support and encourage the next generation of food scientists by sponsoring the EFFoST Student of the Year Awards.

www.cargill.com



Fáilte Ireland

As the National Tourism Development Authority, Fáilte Ireland's role is to support the long-term sustainable growth in the economic, social, cultural and environmental contribution of tourism to Ireland. Fáilte Ireland works in partnership with Government, State agencies, Local Authorities, representative groups and industry, to develop tourism across Ireland by creating destination development plans and networks, investing in infrastructure, activities, visitor attractions and festivals. Fáilte Ireland also provides consumer and buyer insights, mentoring, business support and training programmes and buyer platforms to help tourism businesses innovate and grow.

www.failteireland.ie



GNT Group

The GNT Group is a family-owned company pioneering in the creation of specialized, future-proof products from only natural ingredients. It is internationally renowned for its EXBERRY® portfolio, the leading global brand in Coloring Foods. Founded in 1978, the company offers unparalleled agricultural competence and process-engineering expertise in delivering solutions for fruit, vegetables and edible plants. GNT is headquartered in the Netherlands and has a global reach with customers in 75 countries and offices all over the world.

www.exberry.com



DE GRUYTER

De Gruyter

De Gruyter was an early champion of open access and an advocate of opening content to all researchers. We published our first open access book in 2010 and launched our first fully gold open access journal in 2013. Today De Gruyter's open access portfolio comprises more than 2,000 open access books and around 90 fully open access journals – published in-house or on behalf of learned societies.

Open Agriculture is an open access journal from De Gruyter's Open Access portfolio, publishing original articles and reviews reflecting the latest achievements on agriculture and related topics. Its major goal is to spread up-to-date knowledge on Agriculture, along with maintaining the high quality of its published content. The journal accepts submissions of original scientific papers, short communications, review articles and case studies and offers an immediate publication upon completing the publishing process.

Visit our exhibition stand!

www.degruyter.com



Bord Bia

Bord Bia is the food marketing agency of the Irish Department of Agriculture, Food and Marine. With 15 office locations worldwide its purpose is to bring Ireland's outstanding food, drink and horticulture to the world, thus enabling growth and sustainability of producers.

This purpose is enacted through strategic priorities including building Ireland's reputation as a sustainable and innovative source of world-class food, developing better ways for Irish food companies to connect and build partnerships and championing insight-led innovation and brand development. Bord Bia welcomes queries or requests for introductions to Irish food companies via info@bordbia.ie.

www.degruyter.com



Food for Health Ireland

Food for Health Ireland is a collaborative model for functional and health food innovation and commercialisation. For more than a decade, we have provided a gateway for our industry partners to access world-class science and academic research through a collaborative, market-focussed functional food research programme. Our research addresses global food trends and challenges, providing results that can be translated into commercially viable products with clear market focus.

www.fhi.ie

– MEDIA PARTNERS –



ELSEVIER

Elsevier

Elsevier is a world-leading publisher of scientific, technical, and medical information products and services. Working in partnership with the global science and health communities, Elsevier's 7,000 employees in over 70 offices worldwide publish more than 2,000 journals and 1,900 new books per year. In addition to offering a suite of innovative electronic products, such as ScienceDirect, MD Consult, Scopus, bibliographic databases, and online reference works.

www.elsevier.com



New Food

For over two decades *New Food* has been the prominent thought leadership platform for the food and beverage industry. By providing an unrivalled resource for industry professionals to discuss the challenges and wider economic issues that currently face the international food and beverage supply chain, *New Food's* overarching aim is to explore solutions and catalyse industry progress.

Through the maintenance of a close collaboration with the industry, regulators and academia in the areas of safety, quality control and scientific innovation, *New Food* understands the necessity of cooperation and collaboration between all parties to ensure that the global food and beverage community moves forward together. To achieve our goal, *New Food* provides a bi-monthly print publication, a digital platform that includes regular webinars, as well as a variety of events throughout the year.

www.newfoodmagazine.com



EHEDG – European Hygienic & Design Group

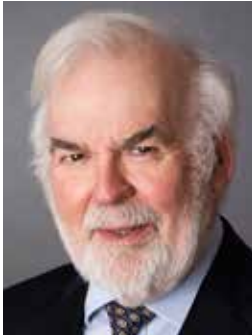
With a common goal to advance hygiene, improve food safety, and increase cleaning efficiency and effectiveness during the processing and packaging of food products, EHEDG brings together stakeholders in the food supply chain. Besides practical guidelines, test procedures and certification, training, and education, EHEDG offers an exchange platform for global food professionals to combine collective experience and improve hygienic design. Founded in 1989, EHEDG is a foundation that has led the way in guiding the food industry in hygienic design.

The principal goal of EHEDG is the promotion of safe food by improving hygienic engineering and design in all aspects of food manufacturing.

EHEDG – Food safety through hygienic design.

www.ehedg.org

Plenary speakers



Prof. Tom Arnold

Irish Government's Special Envoy for Food Systems, Ireland

(PL1.1)

Food Vision 2030: its development, conclusions and implementation in a fast-changing world

The presentation will trace the process through which the stakeholder-led strategy was developed, following on from the four earlier such processes dating back to 2000. Food Vision 2030 has continuities with the earlier strategies but in adopting a 'food systems' approach to its development, introduced a number of important innovations. Food Vision's central objective is that Ireland should become an international leader in Sustainable Food Systems over the coming decade. With the Irish Government's approval of the Strategy in August 2021, its implementation must take account of international and domestic events subsequent to its approval. In February 2022, the Russian invasion of Ukraine has had major consequences for the global food economy. In July 2022, the Government set challenging targets for emissions reduction by the agricultural sector as part of the national Climate Action Plan. The presentation will also link Food Vision's central objective on leadership in Sustainable Food Systems to developments in the global food economy and to the follow-up to the 2021 Food Systems Summit.

Biography

Tom Arnold is the Irish Government's Special Envoy for Food Systems and was Chair of the Agri-Food Strategy Committee which produced Food Vision 2030. He chaired the EU Commission's High Level Expert Group on Food Systems Science (IPFSS) and the Task Force for Rural Africa (TFRA). He served as Coordinator of the Scaling Up Nutrition (SUN) Movement; Chair of the OECD Committee of Agriculture; CEO of Concern Worldwide; Chief Economist and Assistant Secretary General with the Irish Department of Agriculture, Food and the Marine; and with the EU Commission in Brussels and in Africa. His primary degree is in agricultural economics from University College Dublin (UCD) and he has Master's degrees from the Catholic University of Leuven and Trinity College, Dublin.



Mark Christal

Enterprise Ireland, Ireland

(PL2.1)

Meeting the future challenges of the food industry

The presentation will focus on the Food and Drink sector in Ireland and the companies leading in the provision of sustainable, high-quality, nutritious food to markets across the globe. He will highlight the work being done by Enterprise Ireland, in partnership with other organisations, to drive international competitiveness through increased innovation and market-leading sustainable practices.

Enterprise Ireland is the government organisation responsible for the development and growth of Irish enterprises in world markets. They work in partnership with Irish enterprises to help them start, grow, innovate and win export sales in global markets. In this way, Enterprise Ireland supports sustainable economic growth, regional development and secure employment.



Prof. Ciarán Forde

Wageningen University & Research, the Netherlands

(PL2.2)

‘Better Living through Sensory’; Using Sensory Cues to Moderate Eating Behaviour, Food Intake and Health

Food choice and energy intake are much influenced more by sensory and cognitive aspects of eating than the nutritive properties of the food being consumed, yet chronic disease and ill-health are the result of prolonged exposure to diets with poor nutritive properties and high energy-density. The role of dietary patterns in the development of diet-related conditions is undisputed, but this knowledge is of little value if we do not understand the reasons why people continue to choose and consume unhealthy foods. Today we know much more about what a food does to the body once consumed, than we do about why a food is chosen and eaten, or why it can be easy overconsume certain foods and not others.

The sensory properties of foods play an important role in shaping ‘what’, ‘how much’ and ‘why’ we eat, and the dietary patterns that influence health and well-being across the lifespan. Not all calories are created equal and food texture, taste and aroma are influential before and during meals to direct food choice, inform portion selection and drive our eating behaviours. Our research has demonstrated the joint impact of eating at a faster rate and consuming higher energy dense foods in promoting greater intake, and we have extended this to explore the sensory and eating rate properties of (ultra)processed foods. By including ‘sensory’ ratings in population dietary epidemiology studies, we have pioneered the development of ‘Sensory Epidemiology’ to make novel connections between the sensory properties of habitual diets and the intake patterns that influence body composition and health. Sensory Scientists are uniquely positioned at the cross-roads of food science, nutrition and consumer behaviour to understand how food perception can be used to influence the transition to healthier and more sustainable diets. The sensory properties of foods offer opportunities to moderate the flow of energy and nutrients through our diets, yet are currently an under-utilized tool in public health nutrition. Addressing the serious public health challenges posed by the modern food environment will require changes in food formulation and intake behaviour. Using a foods sensory properties makes it possible to support healthier eating behaviours and can inform the development of successful dietary strategies that keep food enjoyment and satisfaction at the heart of healthy eating.

Biography

Ciarán Forde is Professor and Chair of the Sensory Science and Eating Behavior group in the Division of Human Nutrition and Health, at Wageningen University and Research. He leads research on how the sensory properties of foods influence calorie selection, eating behaviors and energy intake and metabolism across the life-span. Prof. Forde has published >120 scientific articles and book chapters, and his research has been presented at over 200 national and international meetings. He is an Executive Editor for the journal *Appetite*, Section Editor in ‘Nutrition Behavior and Food Intake Regulation’ for the *European Journal of Nutrition*, and an editorial board member for *Nutrition Bulletin*, *Journal of Future Food* and *Journal of Texture Studies*.



Prof. Colin Hill

University College Cork, Ireland

(PL3.1)

Bringing molecular methods to bear on food safety

Molecular biology and food microbiology have not always been comfortable bedfellows but that needs to change, and quickly. We all understand the role of molecular biology in unravelling virulence mechanism of microbial pathogens, or in dissecting the host response. The role of molecular methods in pathogen detection and in molecular epidemiology has also been widely appreciated and accepted. However, the idea of genetically manipulating food-related organisms destined for the supermarket shelves has been more controversial. There are many GM plants grown worldwide, and many ingredients derived from these find their way into our diet, but this has not always resonated with consumers. What about manipulating bacteria used in the production of fermented foods, or using genetically modified bacteria to produce food ingredients. Is this an idea whose time has arrived? I will present some examples from our own laboratory where we have used molecular techniques to produce improved food ingredients and additives to improve food safety and animal welfare.

Biography

Colin Hill has a Ph.D in molecular microbiology and is a Professor of Microbial Food Safety in the School of Microbiology at University College Cork, Ireland. He is also a founding Principal Investigator in APC Microbiome Ireland, a large research centre devoted to the study of the role of the gut microbiota in health and disease. His main interests lie in the role of the microbiome in human and animal health. He is particularly interested in the effects of probiotics, bacteriocins, and bacteriophage. In 2005 Prof. Hill was awarded a D.Sc by the National University of Ireland in recognition of his contributions to research. In 2009 he was elected to the Royal Irish Academy and in 2010 he received the Metchnikoff Prize in Microbiology and was elected to the American Academy of Microbiology. He has published more than 650 papers and holds 25 patents. He was president of ISAPP from 2012-2015. More than 80 PhD students have been trained in his laboratory.



Prof. Jennie Macdiarmid

University of Aberdeen, United Kingdom

(PL2.3)

Future of healthy, environmentally sustainable and desirable diets: guidelines, industry and consumers

Poor diets, poverty and climate change are some of the global challenges facing us today. Healthy and sustainable diets can play an important part in addressing these issues. In 2010, the FAO published a comprehensive definition of sustainable diets and many countries revised their dietary guidelines to incorporate environmental sustainability. One dominant, but often contentious, recommendation is reducing consumption of animal products since the production of livestock has a much greater environmental impact than production of plant-based commodities. In 2019, the FAO and WHO published a joint report 'Sustainable, Healthy Diets – Guiding Principles' grouping the guidance into health, environmental impacts and sociocultural aspects (e.g. affordability, access and desirability). In much of early research, the sociocultural aspects were overlooked with health and environment the focus, which was reflected in some of the example diets. However, research consistently shows sociocultural aspects, including price, pleasure and social norms, are primary drivers of decision making among consumers, while health is a bigger driver than environment. To tackle global warming and limit climate change diets must change and this means reducing consumption of meat and dairy and a shift to more plant-based diets. The challenge is putting this into practice. The recent rapid increase in availability of processed plant-based alternatives to meat (e.g. burgers, sausage rolls, ready meals) could help with the transition to plant-based diets by addressing some of the barriers consumers have expressed, such as not knowing what to eat, the perception of

the difficulty and time it takes to make plant-based meals. However, many of the processed plant-based convenience foods are high in fat, salt and sugar and use commodities that can have negative impact on the environment. Going forward sociocultural aspects must be integrated in sustainable healthy diets but this must be alongside health and environment.

Biography

Jennie Macdiarmid is a Professor of Sustainable Nutrition and Health and Director of the Interdisciplinary Centre for Health, Nutrition and Wellbeing at the University of Aberdeen in the UK. Jennie gained a BSc (Hons) in Food Science and Nutrition from the University of Surrey, followed by a PhD in Psychology from the University of Leeds. Her current research on nutrition security and sustainable diets is truly interdisciplinary bring together nutrition, health, climate change and environment with social and behaviours aspects of eating and she has published over 80 research papers. She published one of the first studies testing the compatibility of achieving nutritional requirements with reducing greenhouse gas emissions to create healthy, sustainable diets, which was influential in stimulating national and international debates on this topic.

Podium discussions

Podium discussions: The role of food processing in achieving healthy and sustainable diets

Joint Viewpoint for discussion at the 36th EFFoST International Conference between the European Federation of Food Science and Technology and the European Technology Platform 'Food for Life'.

The EU Farm to Fork Strategy (2020) for a fair, healthy, and environmentally friendly food system asks to accelerate the transition to a sustainable food system seeking to ensure food security, nutrition, and public health, making sure that everyone has access to sufficient, safe, nutritious, sustainable food. Food processing is essential in this transition. Growing, manufacturing, transporting, and eating food has a significant impact on the planet. The food sector will have to reduce those impacts and use food innovation to lessen the load on the environment, based on science and evidence. Continued research into the relationship between food processing and potential impacts on our health and the environment is essential to bring forward positive innovations, blaming the processing per se is counterproductive. The food sector will have to provide more transparency on food formulation and food processing to restore consumer trust. New technologies and scientific discoveries, combined with increasing public awareness and demand for food that fits in healthy and sustainable diets, will benefit all stakeholders.



Gert Meijer
Nestle, Switzerland



Ciarán Forde
Wageningen University, the Netherlands



Liisa Lahteenmak
Aarhus University, Denmark



Eileen Gibney
University College Dublin, Ireland



Lilia Ahrné
University of Copenhagen, Denmark



Realising the True Potential of Non-Thermal Processing Technologies in Future Food Production

Non-Thermal Processing workshop 2022

The NTP2022 will explore the theme: **Realising the True Potential of Non-thermal Processing Technologies in Future Food Production**. This year the EFFoST / IFT-NPD Workshop on Non-Thermal Processing of Foods is hosted by University College Dublin and held during EFFoST2022.

The food industry is currently facing many major challenges including a growing global population that is also aging, the need for improved sustainability in food supply, and increasing consumer demands for greater product choice and confidence. All in a market where diet and health are increasingly coming to the fore as consumer priorities.

Non-thermal processing technologies offer processors a set of new innovative processing 'tools' which find 'niche' applications either as alternative unit operations to conventional methods or are retrofitted into existing manufacturing lines for process intensification purposes. These technologies can and will make a very valuable contribution towards each of the challenges faced by the industry mentioned above.

The Non-Thermal Processing workshop consists of more than 50 speakers that will be held in the Vavasour Suite. The NTP poster presentations will be held together with the EFFoST2022 poster session in the President Terrace.

The NTP2022 Workshop focusses on the role of Innovative Non-Thermal Processes, sessions include:

- **NTP Session 1:** Opening Session EFFoST / IFT-NPD & Sustainability of Food Supply for the future through Innovative Non-thermal Technologies
- **NTP Session 2:** Sustainability of Food Supply for the future through Innovative Non-thermal Technologies (continued)
- **NTP Session 3:** Special Session: Emerging Non-thermal Processing Technology - Case Studies
- **NTP Session 4:** Role of non-thermal technologies in future foods from alternative sources for an increasing global population
- **NTP Session 5:** Special Session: Consumer perception and regulatory considerations in relation to non-thermal technologies
- **NTP Session 6:** Special Session: Emerged Non-thermal Processing Technology - Commercial Case studies
- **NTP Session 7:** How will nonthermal technologies play a part in future local and global food safety and security
- **NTP Session 8:** Special Session: Scaleup, Digital Twins and Modelling of Non-thermal Processing Technologies
- **NTP Session 9:** Meeting future consumer demands for quality, nutritious and healthy foods with non-thermal processing technologies
- **NTP Session 10:** Special Session: Panel Discussion on Future of non-thermal technologies & Closing Address

Each year, the European Federation of Food Science and Technology (EFFoST) and the Nonthermal Processing Division of the Institute of Food Technologists (IFT-NPD) organise a workshop on non-thermal processing technologies to process foods. The EFFoST / IFT-NPD Workshop on Non-Thermal Processing of Foods is the leading international forum for professionals from academia, industry, and government agencies to share the latest developments on non-thermal processing technologies and their applications in the food industry.

All NTP sessions will be held in the Vavasour Suite!

– NTP2022 SPONSORS –

Elea GmbH – Gold partner

Elea is the world's leading provider of Pulsed Electric Field Systems (PEF) to the food, beverage & scientific sectors. Eleaportion, developed over many years, is rapidly transforming food and beverage manufacturing around the world. PEF changes the physical structure of fresh produce resulting in significant increases in yield, freshness, flavour and nutritional preservation – plus savings in time and energy.

Visit our exhibition stand!
www.elea-technology.com



BiOrbic

BiOrbic, Bioeconomy SFI Research Centre is Ireland's national bioeconomy research centre. We work with food producers and industry to create valuable and sustainable bio-based products and services from natural resources. Our 100+ researchers from across Ireland's leading universities and research organisations work on selectively separating and extracting valued compounds from renewable materials, converting those resources into novel bio-based products and processes, delivering market and industry- scalable resources as part of a sustainable circular bioeconomy.

Visit our exhibition stand!
www.biorbic.com



Hiperbaric – Silver partner

Hiperbaric designs, develops, produces and markets High-Pressure Processing (HPP) equipment internationally. With more than 350 machines installed, the company is the global leader in HPP technology with the most reliable and economic machines on the market. Hundreds of companies worldwide use Hiperbaric equipment to process juices and beverages, meats, fish and seafood, fruits and vegetables, dairy and ready-to-eat meals. In addition, Hiperbaric's food science team brings support for product development to HPP users.

Visit our exhibition stand!
www.hiperbaric.com



EnergyPulse Systems

EnergyPulse Systems is a Portuguese company that designs, develops, and builds Pulse Electric Field Equipment for the Food industry. EnergyPulse Systems is committed to improving industrial food processes with Pulsed Electric Fields (PEF) a nonthermal food process.

We believe that PEF is and will take part on the future of food processing. Contributing for an optimization of resources, such as, reduction of water use, increased energy efficiency, reduction of food waste, valorization of by-products and last but not least increased food quality.

Visit our exhibition stand!
www.energypulsesystems.pt



Uhde High Pressure Technologies GmbH – Silver Partner

Uhde High Pressure Technologies GmbH (thyssenkrupp) specializes in high-pressure technologies for applications up to 14,000 bar. Uhde partners with its customers to support them in all project stages; from feasibility study, design, manufacturing to installation and service. High-pressure components (valves, pumps, vessels, reactors, etc.) and turnkey solutions for sustainable food and pharmaceutical processing at high pressure, like supercritical fluid extraction (SCF) and high-pressure processing (HPP) units, are manufactured in Germany to meet relevant international standards. Uhde's global supplier and service network delivers quick responses and cost-effective solutions for chemical, material, pharmaceutical, and food & beverage industries.

Visit our exhibition stand!
www.thyssenkrupp-industrial-solutions.com



SAIREM

SAIREM is the global supplier of microwave and radiofrequency equipment for food industry. The company provides its customer with different applications such as tempering, defrosting, heating, cooking, drying, pasteurizing, sanitisation and disinfestation.

We treat products like herbs and spices, vegetables, fruits, meats, fish, seafood, essential oils, seeds and insects.

We currently have a partners and agents network covering more than 70 countries.

Visit our exhibition stand!
www.sairem.com



Hosted by:



Organised by:



NTP 7-9 November
Dublin, Ireland
2022 WORKSHOP
www.ntpworkshop.eu



Young EFFoST Day

The fifth edition of Young EFFoST Day is an exciting opportunity for students and young food scientists from academia, industry, and start-ups to expand their professional network!

The day consists of interactive activities including inspiring talks and networking. It will be held on Monday morning before the official start of the 36th EFFoST International Conference.

The day will start with an inspiring talk based around the theme of ***Shaping the Production of Sustainable, Healthy Foods for the Future***. Representatives from industry, academia and non-profit organizations will then give insights into their personal career paths and share their key learnings.

Throughout the event, talks will alternate with time for discussion and exchanges to make the Young EFFoST Day a unique opportunity to build your network and connect with more experienced food professionals before we move on to the EFFoST2022 conference together.

Programme

Sunday 6 November 2022

19:30 Informal Young EFFoST Day kick-off, venue Slattery's D4
Open to attendees of Young EFFoST, EFFoST2022, and NTP2022

Monday 7 November 2022

08:00 Registration
08:45 Welcome & Introduction of Young EFFoST Day programme
09:00 Opening session: Shaping the Production of Sustainable, Healthy Foods for the Future Session chair: Prof. Kevin O'Connor - Dr Pamela Byrne, Chief Executive Officer at Food Safety Authority Ireland
10:00 Networking activity: "Speed dating" to get to know other researchers
10:30 Refreshments break
10:45 Job reality & career path insights:
- Aoife Marie Murphy, Sustainable Nutrition Manager at Kerry, Ireland
- Nessa Noronha, Centre Director of Food for Health Ireland, Ireland
- Alan Kelly, Vice-Dean for External Engagement, College of Science, Engineering and Food Science at University College Cork, Ireland
- Ciarán Forde, Professor of Sensory Science and Eating Behavior at Wageningen University & Research, the Netherlands
11:30 Panel discussion with representatives from industry, academia and non-profit organisations
12:00 Close of Young EFFoST Day 2022
12:10 Lunch

Organisers of Young EFFoST Day 2022



Ajay Menon
UCD School of Agriculture and Food Science, Ireland



Kim Millar
Technological University Dublin, Ireland



Steven Mulrooney
UCD Institute of Food and Health, Ireland

Special Sessions

Find the complete session description in the abstract book

Monday 7
November 2022

14:00 - 15:45
Room 442



Workshop: Upload your scientific work to an open repository

During this 2-hour hands-on and interactive workshop, we will guide you through the world of Open Science and, specifically, how to upload your research to an open repository (Zenodo). The workshop will cover

- the basics of Open and FAIR principles
- how to upload your piece of work on Zenodo, step by step
- how to publicize, advertise and raise awareness about your work.

This workshop is organized in the frame of the EU Funded project FNS-Cloud.

Tuesday 8
November 2022

10:30 - 12:35
Room 442

Filling knowledge gaps on alternative proteins to accelerate the dietary shift

A transition from animal-based to alternative protein diets is key to reducing environmental impacts and improving human health. It has been estimated that food systems are responsible for 11.3% of total EU GHG emissions and replacing the use of animal-based proteins will significantly reduce the dietary CO₂-equivalent impact of the European diet. The major impacts of the current food system on biodiversity, land and water use, and animal welfare, could be mitigated by a shift from traditional animal-based towards more sustainable protein sources.



Tuesday 8
November 2022

10:30 - 12:35
Room 441



Improving Sustainability in Food Processing using Moderate Electric Fields (MEF) for Process Intensification – MEFPROC

This special session aims to present and discuss recent results from MEFPROC, an ERA-NET Susfood2-funded project, on the application of moderate electric fields (MEF) assisted by ultrasound (US) in various food processing operations. MEFPROC was aimed at bridging the gap in scientific and technical knowledge that is currently preventing the uptake of MEF (and US) by the food industry. It also aimed at investigating the impact of MEF (and US) on yield gain and energy consumption compared to existing conventional processing

Tuesday 8
November 2022

13:45 - 15:50
Room 442



The INGREEN journey from agrifood sidestream to sustainable biobased products

Find out how tailor-made sustainable biotechnologies transformed waste and low-value agrifood side streams into higher-value functional and bioactive ingredients for use in **food, feed, pharmaceuticals, nutraceuticals, cosmetics and biodegradable packaging**, using a circular bioeconomy approach. In real operational environments, sustainable and efficient tailor-made biotechnologies and eco-friendly approaches to produce safe and/or health-promoting microbial biomasses and biochemicals have been demonstrated, as well as functional ingredients of interest for several industrial sectors.

Tuesday 8
November 2022

13:45 - 15:50
Room 441



Global Harmonization Initiative - available, sustainable, healthy food for the future through networking sound science

The Global Harmonization Initiative (GHI) is a non-profit, impartial organisation consisting of a network of individual scientists from across industry and academia; all working together to harmonise global food safety regulations and legislation based on sound science. GHI was founded in 2004 as a joint activity between the Institute of Food Technologists (IFT) International Division and the European Federation of Food Science and Technology (EFFoST). Our overall mission is to achieve consensus on the science that underlies food regulations and legislation to ensure the global availability of safe and wholesome food products for all consumers.

Tuesday
8 November 2022

16:20 - 18:05
Room 442



Aquaculture and Fisheries side stream proteins and bioactives as ingredients for nutritional supplements: the AQUABIOPRO-FIT project

AQUABIOPRO-FIT is a Biobased Industries Joint undertake (BBI JU) Horizon 2020 project aiming to explore opportunities in lifting the value of marine biomass, currently either wasted or used in animal feeds, by transforming aquaculture and fisheries side stream materials into ingredients for human consumption. Refined fish oil and different protein concentrates with unique chemical and sensory properties, have been developed using heads, backbones, skins and trimmings from farmed salmon, cod, and pelagic fish species, such as mackerel and blue whiting, and tested for safety and bioactivity in model systems.

Tuesday
8 November 2022

16:20 - 18:05
Room 441



Creating transparency from farm to fork to strengthen trust and create a healthier food system

Food goes through many hands before it reaches our plate, from grower, processor, transporter, wholesaler, and finally to the retailer. Processed food has longer and more opaque chains, with more opportunities for a breakdown of trust. Creating transparency from farm to fork can strengthen trust and create a healthier food system. Trust is an essential ingredient in a well-functioning food system. To trust the food on our plate, we need to know that it's safe to eat, its origin, the quality of its ingredients, its nutritional value, and whether its production has harmed people, animals, or the environment. A food system where every link of the chain is in the open would create transparency and trust and help avoid abuses and risks.

Wednesday
9 November

08:30 - 10:35
Room 442



How to make food nutrition security data FAIRer: an introduction to FNS-Cloud

Existing food nutrition security data, knowledge, and tools for health and agri-food sciences although widespread are fragmented, lack critical mass, and access is 'unevenly' distributed for users. This means data are not readily found, accessible, interoperable or reusable (FAIR), and existing services focus on clinical, molecular or biological sciences. Food Nutrition Security Cloud (FNS-Cloud) will bring about change through standards, demonstrators, services and FAIRer food nutrition security data

Wednesday
9 November

08:30 - 10:35
Room 441

Predictive modelling tools to evaluate the effects of climate change on food safety (PROTECT)

Climate change and food safety have become interdependent worldwide research priorities. In order to meet the EU challenge of doubling food production by 2050 (to meet population demands) while dealing with the impact of climate change on food safety, investment in research to address this issue is required. The overarching aim of this Innovative Training Network (ITN) is to provide high-level training in Predictive mOdelling Tools to evaluate the Effects of Climate change on food safeTy (PROTECT) to a new generation of high achieving early-stage researchers. PROTECT provides them with the transferable skills necessary for thriving careers in a burgeoning area that underpins innovative technological development across a range of diverse disciplines.

Wednesday
9 November

11:05 - 12:50
Room 442



Shaping our Future Sustainable Food Systems

The new European framework program for research and innovation is called Horizon Europe. Herein, a new instrument is launched, called 'Partnerships', which are foreseen to play a crucial role in the Green Deal, Farm-to-Fork Objectives, and, overall, the transition towards sustainable societies. One of the Partnerships is called Sustainable Food Systems, providing interesting, new research topics for the food communities. In this session we will present how European Partnerships in Food may contribute to the Green Deal and Farm-to-Fork objectives and the recently started FOODPathS project will be introduced that will develop a prototype of the European "Partnership for Sustainable Food Systems (SFS).

Wednesday
9 November

11:05 - 12:50
Room 441

Innovations for food producers and food SMEs: How to encourage putting innovations into practice

The transition towards a more sustainable food system requires that small and mid-sized enterprises increase their economic competitiveness and resilience and strengthen their innovation capacity. However, their specific needs are often neglected, especially in innovation processes that focus on large and expensive improvements. In this session, we will present technical and technological innovations demonstrated in several current European projects, innovations devoted to SMEs and producers which may increase food sustainability. Challenges, supporting and hindering factors for putting innovations into practice will be discussed and possible solutions for their successful implementation.



EFFoST Student of the Year Awards

The European Federation of Food Science and Technology and our sponsor Cargill are dedicated to fostering the next generation of food scientists and professionals by acknowledging their academic achievements with the **Student of the Year Awards**.

Please find below the abstracts of MSc and PhD students of food science, food technology and related studies, who have been nominated for the awards. The winners will receive an award and prize money, have their travel expenses and conference registration fees covered, and have the opportunity to visit Cargill's European R&D Centre to present their research.

*Join us at the awards ceremony on
Wednesday 9 November 14:30 - 15:10*



Nominees for PhD Student of the Year Award 2022



Daniel Golodnizky
Technion - Israel Institute of Technology, Israel

New insights into the thermodynamics and kinetics of triacylglycerols crystallization



Julia Matysek
Technische Universität Berlin, Germany

Effects of ultrasound on off-flavour-related aroma compounds in a pea protein-based yoghurt alternative



Ecaterina Stribițcaia
University of Leeds, United Kingdom

Oral lubrication performance of food – a new textural manipulation to enhance satiety



Byron Perez Simba
ETH Zurich, Switzerland

Leveraging heterotrophic microalgae eco-efficiency through novel nanosecond pulsed electric fields for more sustainable food production



Elena Zand
University of Natural Resources and Life Sciences, BOKU, Austria

Innovative pulsed electric fields assisted flow cytometry for rapid microbial detection

EFFoST Popular Vote Award

The top applicants of the EFFoST Student of the Year competition have the opportunity to compete for the Popular Vote Award for the best student poster presentation. The delegates of the 36th EFFoST International Conference will choose the winner of this award. Their posters can be found on the exhibition floor in the Atrium. Please choose your favourite poster presentation and drop your ballot in the ballot box at the EFFoST Stand.

Popular Vote Candidates 2022:

P.01	Design of oat fermentation processes to improve texture and quality of 100% oat bread Silvia Cera, <i>University of Helsinki</i>
P.02	Study of the protein quality and digestibility of plant-based burgers compared to meat ones Sara Cutroneo, <i>University of Parma</i>
P.03	Modeling of perceived sweetness in biscuits to evaluate reformulation performance in sugar reduction studies Naz Erdem, <i>Hacettepe University</i>
P.04	Future cheeses produced by extrusion of renneted curds Ran Feng, <i>University of Copenhagen</i>
P.05	Improving lubrication and functionality of plant proteins by microgelation for optimal sensory and fat-replacement applications Ben Kew, <i>University of Leeds</i>
P.06	Mathematical models to predict spoilage of non-refrigerated food products due to growth of thermophilic spore-forming bacteria Ourania Misiou, <i>Aristotle University of Thessaloniki</i>
P.07	Ultrasound-assisted extraction and polymer-based encapsulation of phycoerythrin from <i>Phorphyridium purpureum</i> Shaaba Noore, <i>University College Dublin</i>
P.08	Isolation of casein for stable isotope ratio analysis of butter, cheese, and milk powder Roisin O' Sullivan, <i>University College Dublin</i>
P.09	Split-stream processing of asparagus side-streams improves the flavour of dried asparagus food ingredients Eirini Pegiou, <i>Wageningen University and Research</i>
P.10	<i>Bacillus subtilis</i> endospores inactivation under hyperbaric-storage – a novel nonthermal strategy to inactivate spores at room-temperature? Carlos Pinto, <i>University of Aveiro</i>
P.11	Capillary suspensions for oil structuring with agri-food residues micronized via high-pressure homogenization in oil Annachiara Pirozzi, <i>University of Salerno</i>
P.12	Contactless characterization of potato drying by using air-coupled ultrasound Virginia Sánchez Jiménez, <i>Universitat Politècnica de València</i>
P.13	Dunaliella Salina-based nanoemulsions to increase the retinol and β-carotene bioavailability in rats after oral administration Júlia Teixé-Roig, <i>University of Lleida</i>
P.14	How food processing can alter the texturizing potential of fruit and vegetable cell wall material Jelle Van Audenhove, <i>KU Leuven</i>

Support these young food scientists and vote!

Poster Programme

Poster Session 1 Tuesday 8 November 2022

P1.1.01	Dairy industry surfaces disinfection using b-PAW Fernando Alba-Elías ^{1*} , María López ² , Beatriz Rojo-Bezares ² , Ana Sainz-García ¹ , Elisa Sainz-García ¹ , Félix Gallarta-González ³ , Márcia Oliveira ⁴ , Paula Fernández-Gómez ⁴ , Mercedes López ⁴ , Yolanda Sáenz ² , ¹ University of La Rioja, Spain, ² Center for Biomedical Research of La Rioja (CIBIR), Spain, ³ University of La Rioja, Spain, ⁴ University of León, Spain	P1.1.19	Impact of pulsed electric fields (PEF) on the peeling ability of tomatoes and kiwis Marianna Giancaterino ^{1,2*} , Henry Jaeger ¹ , ¹ University of Natural Resources and Life Sciences, Austria, ² FoQSI - Austrian Competence Centre for Feed and Food Quality, Austria,
P1.1.03	Batch Baking of Pound Cake using Ohmic Heating for 3D Printing Applications Eugenia Ayebea Asamoah ^{1,2*} , Alain Le-Bail ¹ , Olivier Rouaud ¹ , Anthony Oge ¹ , Delphine Queveau ¹ , Mamadou Lamine Niane ¹ , Patricia Le-Bail ² , ¹ Nantes Université, France, ² INRAE, Biopolymères Interactions Assemblages, France	P1.1.21	Effect of novel deep eutectic solvent extraction on structure-functional properties of fava bean protein isolates Anuruddika Hetti Hewage ^{1,2*} , Nandika Bandara ^{1,2} , ¹ University of Manitoba, Canada, ² Richardson Centre for Food Technology & Research, Canada
P1.1.05	Combined Effect of Plasma Functionalized Water, In-package Cold-Plasma, and Green Chemicals towards poultry related pathogens Soukaina Barroug ^{1*} , Mingming Yem ^{1,2} , Ruichao Lil ^{1,2} , Lisa L'hote ³ , Sonal Chaple ¹ , Paula Bourke ¹ , ¹ University College Dublin, Ireland, ² KU Leuven, Belgium, ³ UniLaSalle Beauvais Earth and Sciences, France	P1.1.23	Development of an innovative-novel process approach for reduced oil fried products Ozan Karatas ^{1,2*} , Ozan Altin ¹ , Predrag Kojić ³ , Lato Pezo ⁴ , Ferruh Erdogdu ¹ , ¹ Ankara University, Turkey, ² IFTECH Food R&D Consultancy Company, Turkey, ³ Novi Sad University, Serbia, ⁴ Institute for General and Physical Chemistry, Serbia
P1.1.07	A novel strategy to enhance bioaccessible lipids and antioxidants in hetero/mixotrophic Chlorella as functional ingredient Greta Canelli ^{1,2*} , Sabrina Tevere ³ , Luc Jaquenod ² , Fabiola Dionisi ¹ , Zhen Rohfrisch ¹ , Christoph J. Bolten ¹ , Lukas Neutsch ³ , Alexander Mathys ² , ¹ Nestlé Research, Switzerland, ² ETH Zürich, Switzerland, ³ Institute of Chemistry and Biotechnology, Switzerland	P1.1.25	Synthesis and characterization of erythorbyl fatty acid esters and their derivatives Jihoon Kim ^{1*} , Eunhye Yang ¹ , Yoonseok Choi ¹ , Juno Lee ¹ , Hyunjong Yu ² , Pahn-Shick Chang ^{1,2,3} , ¹ Seoul National University, South Korea, ² Seoul National University, South Korea, ³ Center for Food and Bioconvergence, South Korea
P1.1.09	Biofortified cowpea beans cultivars: Centesimal Composition Lucia Maria Jaeger Carvalho ^{1*} , Ana Claudia Teixeira, Paulo Bastos, Mirian Moura, Maurisrael Rocha, Jose Luiz Carvalho, Osman Silva, Alison Esmerino, ¹ UFRJ, Brazil, ² UFRJ, Brasil, ³ UFRJ, Brasil, ⁴ UFRJ, Brasil, ⁵ Embrapa Midle North, Brasil, ⁶ Embrapa Food Technology, Brasil, ⁷ UFRJ, Brasil, ⁸ UFRJ, Brasil	P1.1.27	The influence of high-pressure processing (HPP) on rheology and colour of strawberry nectar Karen Louise Lacey ^{1*} , Dario Javier Pavon Vargas ² , Andres Felipe Moreno Barreto ³ , Massimiliano Rinaldi ¹ , Luca Cattani ¹ , ¹ University of Parma, Italy, ² CFT Group, Italy, ³ Stazione Sperimentale Per L'Industria Conserve Alimentari, Italy
P1.1.11	Development of sausages using edible insects as a source of alternative protein Irina-Elena Chiriac ^{1*} , Alvar Gracia ¹ , Montse Jorba ¹ , ¹ Leitat Technological Center, Spain	P1.1.29	The quality of frozen-thawed salmon fillets as affected by sub-chilling prior to freezing Jørgen Lerfall [*] , Emma Vangen ¹ , Bjørn Tore Rotabakk, ¹ NTNU-Norwegian University Of Science And Technology, Norway
P1.1.13	Monodisperse bubble formation and coalescence tuned with liquid phase properties Boxin Deng ^{1*} , Karin Schroën ¹ , Jolet de Ruiter ¹ , ¹ Wageningen University & Research, Netherlands	P1.1.31	Assessment of MEF processing potentiality in vegetable based dressing sauce Francesco Marra [*] , Aldo Romano, Matteo d'Amore, University of Salerno, Italy
P1.1.15	Determination the Parameters for Chicken Meat Thawing by Radio Frequency and Process Effect on Quality Eda Demirok Soncu, Ozge Erke, Zeynep Bacin, Eda Coskun, Nuray Kolsarici, Huseyn Huseynli, Ferruh Erdogdu [*] , Ankara University, Turkey	P1.1.33	Physical properties and sensory perception of active sodium caseinate-guar gum coating enriched with essential oils Nicoletta Antonella Miele [*] , Stefania Volpe, Silvana Cavella, Rossella Di Monaco, Elena Torrieri, University of Naples Federico II, Italy
P1.1.17	Green Options to Substitute Nitrate in Cured Meat Products Maria João Fraqueza ^{1*} , Patrícia Bernardo, Maria Helena Fernandes, Maria José Fernandes, Maria Pedro Teixeira, ¹ CIISA, Centre for Interdisciplinary Research in Animal Health, Portugal	P1.1.35	Impact of pulsed electric fields as pre-treatment of fermentation process during yogurt production Graciela Alejandra Miranda Mejía [*] , Viridiana Tejada-Ortigoza, Mariana Morales-de la Peña, Tecnológico de Monterrey, Mexico
		P1.1.37	Nanostructured cellulose particles for O/W Pickering emulsions stabilization Annachiara Pirozzi ^{1*} , Marina Scarpa ² , Patrizia Contursi ³ , Giovanna Ferrari ^{1,4} , Francesco Donsi ¹ , ¹ University of Salerno, Italy, ² University of Trento, Italy, ³ University of Naples, Italy, ⁴ Prodal S.c.a.r.l., Italy

P1.1.39	PAW decontamination for materials used in beverages industry Ana Sainz-García ^{1*} , Elisa Sainz-García ¹ , Ignacio Muro-Fraguas ¹ , Rodolfo Múgica-Vidal ¹ , Félix Gallarta-González ² , Isabel López-Alfaro ^{1,3} , Lucía González-Arenzana ^{1,3} , Rocío Escribano-Viana ^{1,3} , Ana González-Marcos ¹ , Fernando Alba-Eliás ¹ , ¹ University of La Rioja, Spain, ² University of La Rioja, Spain, ³ Institute of Grapevine and Wine Sciences, Spain	P1.4.03	Pressure Effect on Microwave Heating and Development of Innovative Sterilization Process for Canning Ozan Altin ¹ , Dagbjorn Skipnes ² , Torstein Skara ² , Ferruh Erdogan ^{1*} , ¹ Ankara University, Turkey, ² Nofima, Norway
P1.1.41	Understanding the release of proteins from Arthrospira platensis after Pulsed-Electric-Field treatment for sustainable food systems Justus Knappert, Christopher McHardy, Cornelia Rauh, Robert Sevenich*, <i>Technische Universität Berlin, Germany</i>	P1.4.05	Kinetic modelling of dispersion of baby biscuits in liquid as a quality assessment tool Tolgahan Kocadagli*, Sirma Çelik, Naz Erdem, Neslihan Göncüoğlu Taş, Vural Gökmen, <i>Hacettepe University, Turkey</i>
P1.1.43	Gas Hydrate Formation in a Stirred Tank Reactor Robyn Megan Sutter ^{1*} , Christoph Hartmann ^{1,2} , Vincent Meunier ¹ , Cornelia Rauh ² , ¹ Institute of Material Sciences, Nestlé Research, Switzerland, ² Institute of Food Technology and Food Chemistry TU Berlin, Germany	P1.4.07	Effects of microwave radiation on the bioactive properties in selected vegetable species Remigiusz Oledzki*, Joanna Harasym, <i>Wroclaw University Of Economics and Business, Poland</i>
P1.1.45	Impact of varying pasture allowances on the compositional, quality and nutritional properties of milk Mark Timlin ^{1,2,3*} , John T. Tobin ² , Eoin G. Murphy ² , Karina M. Pierce ^{1,3} , John P. Murphy ⁴ , Deirdre Hennessy ⁴ , Michael O'Donovan ⁴ , Niamh Harbourne ¹ , Andre Brodtkorb ^{2,3} , Tom F. O'Callaghan ⁵ , ¹ University College Dublin, Ireland, ² Teagasc Moorepark Food Research Centre, Ireland, ³ Food for Health Ireland, University College Dublin, Ireland, ⁴ Teagasc Animal and Grassland Research and Innovation Centre, Ireland, ⁵ University College Cork, Ireland	P1.4.09	Probability of germination of Botrytis cinerea using an acid-based model system of strawberry Laura Rabasco-Vilchez ^{1*} , Esther Porras-Pérez ² , Aricia Possas ¹ , Ramón Morcillo-Martín ³ , Fernando Pérez-Rodríguez ¹ , ¹ Universidad de Córdoba, ² IMIBIC. Instituto Maimónides de Investigación Biomédica de Córdoba, Spain, ³ Universidad de Córdoba
P1.2.01	Fluid bed drying of dairy gel granules supported by in-line monitoring of the water content Jennifer Frank ^{1*} , Jörg Hinrichs ² , Reinhard Kohlus ¹ , ¹ Department of Process Engineering and Food Powders, University of Hohenheim, Germany, ² Department of Soft Matter Science and Dairy Technology, University of Hohenheim, Germany,	P1.4.11	Development of a method for measuring the electrical conductivity of cake batter Olivier Rouaud ^{1*} , Mamadou Lamine Niane ¹ , Anthony Ogé ¹ , Alain Le-Bail ¹ , Patricia Le-Bail ² , ¹ Nantes Université, CNRS, France, ² INRAE, BIA, France
P1.2.03	Evaluation of sensor performance for smart home applications to analyze bakery products Katrin Mathmann*, Luise Dauwa, Rene Schalk, Reinhard Gahleitner, <i>University of Applied Sciences Upper Austria, Austria</i>	P1.4.13	Preventing the waste of animal-source foods by predicting the kinetics of oxidation reactions Jason Sicard*, Alain Kondjoyan, INRAE, France
P1.2.05	Detection of mushroom browning using RGB image segmentation approaches combined with hyperspectral image analysis Ming Zhao, Kai Yang*, Dimitrios Argyropoulos, <i>University College Dublin, Ireland</i>	P2.1.01	Nutritional, Physicochemical and Microbiological Quality of Selected South African and Russian Dairy Fermented Beverages Betty Ajibade ^{1*} , Kimeshni Rungan ¹ , Betty Ajibade ¹ , Titilayo Ajayeoba ¹ , Konstantin V. Moiseenko ² , Tatyana V. Fedorova ² , ¹ Durban University Of Technology, South Africa, ² Russian Academy of Sciences, Russia
P1.3.01	Automized Optimization of Food Formulations using Machine Learning Deborah Becker ^{1*} , Cornelia Rauh ² , Christopher McHardy ² , Christoph Hartmann ¹ , ¹ Nestlé Research Center, Switzerland, ² Technische Universität Berlin, Germany	P2.1.03	Comparison of the frictional properties of plant and dairy proteins Fran Brown ^{1*} , Alan Mackie ² , Qi He ² , Jochen Pfeifer ² , Anwasha Sarkar ¹ , ¹ University of Leeds, United Kingdom, ² Mondelez International, United Kingdom
P1.3.03	A review on machine learning techniques in controlled environment food production systems Christos Charisis*, Dimitrios Argyropoulos, <i>University College Dublin, Ireland</i>	P2.1.05	How to ensure the printability of a food matrix ? From formulation to consumer appreciation Valérie Guénard-Lampron ^{1,2,3*} , Cassandre Leverrier ^{1,2,3} , Giana Almeida ^{1,2,3} , ¹ Université Paris-Saclay, France, ² AgroParisTech, France, ³ INRAE, France
P1.3.05	Image Analysis for Sediment Quantification in Rehydrated Infant Formula Behrad Mozafari ^{1*} , Rudi Villing ² , Mark Fenelon ³ , Norah O'Shea ¹ , ¹ Teagasc, Moorepark, Ireland, ² Maynooth University, Ireland, ³ Food Research Programme, Teagasc, Ireland	P2.1.07	Phenotypic Enhancement of Chlorella vulgaris for Food Applications Ivan Ivanov*, Kateřina Bišová, <i>Institute of Microbiology of the Czech Academy of Sciences, Czech Republic</i>
P1.4.01	Development of a mathematical model for the drying process of Spanish cured ham Rafael López ¹ , Raúl Anso Blanco ^{1*} , Héctor Castro ² , ¹ Ctic Cita, Spain, ² Dinámica Ingeniería Spa, Chile	P2.1.09	Optimal germination condition for increased antioxidant activities of chickpea (Cicer arietinum) using Box-Behnken Design Sung Mi Kim*, Thinzar Aung, Mi Jeong Kim, <i>Changwon National University, South Korea</i>
		P2.1.11	Antioxidant, anti-inflammatory and anti-proliferative effects of artichoke and ginger extract and improvement of gastrointestinal disorders Hui Jeong Lee*, Ju Eun Lee, Mi Jeong Kim, <i>Changwon National University, South Korea</i>
		P2.1.13	Formulation of astringency solutions for plant-based beverages assisted by multi-sip sensory evaluation and mixture design Julie Deviers ¹ , Roxanne Dewulf ² , Cecile Masson ² , Lydie Rouyer ¹ , Laurent Lethuaut ^{2,3} , Lizeth Lopez Torrez ^{1*} , ¹ MANE, France, ² ONIRIS National College of Veterinary Medicine, Food Science and Engineering, France, ³ FLAVOR Research Team, MAPS ² , UMR CNRS ⁶¹⁴⁴ GEPEA, France

P2.1.15	Discovery of taste modulating peptides in soy sauce using the Sensoproteomics approach Verena Mittermeier-Klessinger*, Manon Juenger, Anastasia Farrenkopf, Corinna Dawid, Thomas Hofmann, <i>Technical University of Munich, Germany</i>	P2.2.17	Assessing the use of wild <i>Beta vulgaris</i> in reinforcing nutritional features of bakers' wheat flour Manel Issaoui ^{1,2} , Samia Oueslati ³ , Amélia Delgado ^{4*} , Anabela Romano ⁴ , Guido Flamini ⁵ , ¹ <i>University of Monastir, Tunisia</i> , ² <i>University of Kairouan, Tunisia</i> , ³ <i>The Center of Biotechnology of Borj Cedria, Tunisia</i> , ⁴ <i>Universidade do Algarve, Portugal</i> , ⁵ <i>University of Pisa, Italy</i>
P2.1.17	The effect of eliminating nitrite from a cured pork "salpicão" evaluated by a CATA test Luis Patarata*, Filipa Carvalho, <i>CECAV – Veterinary and Animal Research Centre, Portugal</i>	P2.2.19	Novel Protein Phase: Plant protein coacervation Nirzar Doshi*, Renko De Vries, Paul Venema, <i>Wageningen University & Research, Netherlands</i>
P2.1.19	Lipidomic insights into the textural impact of baking lipases on fine bakery goods Charlotte Dorothea Stemler ^{1*} , Adele Cutignano ² , Katharina Anne Scherf ¹ , ¹ <i>Karlsruhe Institute of Technology (KIT), Germany</i> , ² <i>Istituto di Chimica Biomolecolare (ICB), Consiglio Nazionale delle Ricerche (CNR), Italy</i>	P2.2.21	3D-Printing of probiotic enriched cookies made from confectionary's waste Mahsa Sayadi ² , Zeinabossadat Ebrahimzadeh Mousavi ^{1,2*} , Seyed Hadi Razavi ² , ¹ <i>School of biosystems and food engineering, University College Dublin, Ireland</i> , ² <i>University of Tehran, Iran</i>
P2.1.21	Effect of artisanal or industrial fermentation process on the sensory qualities of traditional French bread Romane Troadec*, Sofia Nestora, Céline Niquet-Léridon, Philippe Jacotot, Stéphanie Regnault, Pauline M. Anton, Céline Jouquand, <i>Université d'Artois, France</i>	P2.2.23	The quality of sucrose-reduced cakes is improved by altering the batter mixing atmosphere Thibault Godefroid ^{1*} , Nand Ooms ¹ , Geertrui Bosmans ² , Kristof Brijs ¹ , Jan Delcour ¹ , ¹ <i>KU Leuven, Belgium</i> , ² <i>Puratos NV, Belgium</i>
P2.2.01	Development of sorghum-based food products: Current knowledge and future prospects Etiene Aguiar ^{1*} , Valéria Queiroz ² , Cícero Menezes ² , Vanessa Capriles ¹ , ¹ <i>Unifesp, Brazil</i> , ² <i>Embrapa Milho e Sorgo, Brasil</i>	P2.2.25	Application of almond milk residue in the development of a functional almond cream spread Catarina Vil Real, Marcia Barbosa, Dina Rodrigues, Ana Freitas, Ana Gomes*, <i>Universidade Católica Portuguesa, Portugal</i>
P2.2.03	How to cook sorghum? Results from empirical tests and from a literature review Etiene Aguiar ^{1*} , Valéria Queiroz ² , Cícero Menezes ² , Vanessa Capriles ¹ , ¹ <i>Unifesp, Brazil</i> , ² <i>Embrapa Milho e Sorgo, Brasil</i>	P2.2.27	Calcium ions impact properties of potato starch gels and (deep-fried) potato mashes Kathleen Hooyberghs*, Lennert Noens, Stijn Reyniers, Yeming Bai, Kristof Brijs, Jan Delcour, <i>KU Leuven, Belgium</i>
P2.2.05	Effect of polygalacturonic acid derivatives from fractionation and acidic hydrolysis on in vitro α-amylase activity Yeming Bai ^{1,2*} , Ziyi Wang ^{2,3} , Sharat Atluri ³ , Xin Liu ^{2,3} , Enpeng Li ² , Robert Gilbert ^{2,3} , ¹ <i>KU Leuven, Belgium</i> , ² <i>Jiangsu Key Laboratory of Crop Genetics and Physiology/State Key Laboratory of Hybrid Rice, China</i> , ³ <i>The University of Queensland, Australia</i>	P2.2.29	Effect of High pressure debittered green table olives on the fermentation process George Katsaros*, Varvara Andreou, Sofia Chanioti, Panagiota Stergiou, <i>Institute Of Technology Of Agricultural Products Elgo-demeter, Greece</i>
P2.2.07	Development of a new dehydrated black olive product Pedro García-Serrano ¹ , Concepción Romero ² , Pedro García ³ , Eduardo Medina ⁴ , Manuel Brenes ^{5*} , ¹ <i>Instituto de la Grasa (CSIC), Spain</i> , ² <i>Instituto de la Grasa (CSIC), Spain</i> , ³ <i>Instituto de la Grasa (CSIC), Spain</i> , ⁴ <i>Instituto de la Grasa (CSIC), Spain</i> , ⁵ <i>Instituto de la Grasa (CSIC), Spain</i>	P2.2.31	Designing and Developing Health Promoting and Sustainable Meat-based Comminuted Products Ciara Kenny ^{1*} , Roisin Burke ¹ , Catherine Barry-Ryan ² , ¹ <i>Kepak Group, Ireland</i> , ² <i>Technological University Dublin, Ireland</i>
P2.2.09	Characterization of orange juice co-product for its valorisation as a food ingredient María del Mar Camacho*, Julian Villena, Nuria Martínez-Navarrete, <i>Universitat Politècnica De València, Spain</i>	P2.2.33	Antimicrobial activities of selected lactic acid bacteria in egg products Insa Mannott ^{1*} , Tinting Chu ¹ , Daniela Marino-Gonzales ¹ , Gunnar Bosse ¹ , Victoria Kiehne ² , Anne Rehkamp ² , Clemens Bertram ³ , Bernhard Schneppe ² , Ramona Bosse ¹ , ¹ <i>University of Applied Sciences Bremerhaven, Germany</i> , ² <i>Ovobest Eiprodukte GmbH & Co. KG, Germany</i> , ³ <i>Hebold Systems, Germany</i>
P2.2.11	3D Printing of A Spinach Pasta Enriched with Chicken Meat İlayda İŞLEYEN, Hilal Sena YILDIRIM, Pınar KADIOĞLU ŞENTÜRK, Kezban Candoğan*, <i>Ankara University, Turkey</i>	P2.2.35	Quality of gluten-free breads formulated with apple pomace and psyllium as affected by frozen storage Leire Cantero ¹ , Jesús Salmerón ^{1,2,3} , Itziar Txurruka ^{1,2,3} , Silvia Matias ¹ , Virginia Navarro ^{1,2,3} , Idoia Larretxi ^{1,2,3} , Arrate Lasa ^{1,2,3} , Jon Esparta ¹ , Gesala Pérez-Junquera ¹ , Olaia Martinez ^{1,2,3*} , ¹ <i>University of The Basque Country, Spain</i> , ² <i>University of the Basque Country, Spain</i> , ³ <i>Bioaraba Health Research Institute, Spain</i>
P2.2.13	Gelatinization properties of sprouted sorghum flours over a wide range of water contents Miriam Chiodetti, Eleonora Carini*, <i>University of Parma, Italy</i>	P2.2.37	Effect of olive leaf grinding on the content of biocompounds and color in their infusions Eduardo Medina Pradas*, Eva María Ramírez Castro, Manuel Brenes Balbuena, Concepción Romero Barranco, Pedro García García, <i>Instituto de la Grasa - CSIC, Spain</i>
P2.2.15	Effect of raw materials and processing parameters on the digestibility of sourdough bread Alice Costantini ^{1*} , Alessio Da Ros ¹ , Olga Nikoloudaki ¹ , Marco Montemurro ² , Raffaella Di Cagno ¹ , Bernard Genot ³ , Marco Gobetti ¹ , Carlo Giuseppe Rizzello ⁴ , ¹ <i>Libera Università di Bolzano, Italy</i> , ² <i>University of Bari Aldo Moro, Italy</i> , ³ <i>Puratos NV, Belgium</i> , ⁴ <i>"Sapienza" University of Rome, Italy</i>	P2.2.39	D-optimal mixture design to develop novel W/O food emulsions Nicoletta Antonella Miele*, Angela Borriello, Paolo Masi, Silvana Cavella, <i>University of Naples Federico II, Italy</i>

P2.2.41	Production of high-functional fruits snacks by combination of mild technologies Joel Armando Njieukam ^{1*} , Giacomo Braschi ¹ , Jessica Genovese ¹ , Francesca Patrignani ^{1,2} , Urszula Tylewicz ^{1,2} , Pietro Rocculi ^{1,2} , ¹ University of Bologna, Italy, ² University of Bologna, Italy
P2.2.43	Development of innovative added-value baked products based on substitution of wheat flour with seaweed powder Vasiliki Oikonomopoulou*, Margarita Panagiotopoulou, Sofia Papadaki, Magdalini Krokida, <i>National Technical University Of Athens, Greece,</i>
P2.2.45	The Effect of Mondora myristica Extract on the Oxidative Stability of Cashew Nut Spread Hannah Olaleye*, Tolulope Oresanya, Enitan Jubril, <i>Yaba College Of Technology, Nigeria</i>
P2.2.47	Vegetable by-products as a source of bioactive compounds in beer brewing Oghenetega Lois Orhotohwo ^{1*} , Ancuta Nartea ¹ , Benedetta Fanesi ¹ , Anastasiya Kuhalskaya ¹ , Paolo Lucci ² , Natale G. Frega ¹ , Deborah Pacetti ¹ , ¹ University of Marche, Italy, ² University of Udine, Italy
P2.2.49	Microencapsulation of probiotic cells enhances their survival under conditions simulating the human gastrointestinal system Chrysoula Tassou ¹ , Stamatia Vitsou-Anastasiou ^{1,2} , Olga Papadopoulou ^{1*} , Apostolos Karkos ^{1,2} , Anthoula Argyri ¹ , Agapi Doulgeraki ¹ , George-John Nychas ² , ¹ Institute of Technology of Agricultural Products, Hellenic Agricultural Organisation DIMITRA, Greece, ² Agricultural University of Athens, Greece
P2.2.51	Use of faba flour to develop a more sustainable and nutritious sliced bread Jane Parker*, M Oruna Concha, S Lignou, D Balagiannis, J Whitehead, K Symmons, J Rodriguez Garcia, <i>University of Reading, United Kingdom</i>
P2.2.53	Date-palm coproducts (Oriol cv) as a new ingredient for dry-cured sausages: Technological and physicochemical properties José Angel Perez-Alvarez*, Clara Muñoz-Bas, Laura Candela-Salvador, Carmen María Botella-Martinez, María Estrella Sayas-Barberá, Javier Andreu-Rodriguez, Casilda Navarro-Rodríguez de Vera, Manuel Viuda-Martos, Juana Fernández-López, <i>Miguel Hernández University, Elche, Spain</i>
P2.2.55	Combination of green and gentle technologies for the development of innovative hop-based powder ingredients Lilia Neri, Simona Tatasciore, Veronica Santarelli, Marco Faieta, Carla Di Mattia, Paola Pittia*, <i>University of Teramo, Italy</i>
P2.2.57	Essential Fatty Acids of Multispecies Swards Grown in Ireland – Possible sustainability and environmental implications Samuel Rapisarda*, Graham O'Neill, Nissreen Abu-Ghannam, <i>Technological University Dublin, Ireland</i>
P2.2.59	Crystallization behavior of emulsified triglycerides and their stability as a function of emulsion-stabilizing excipients Jasmin Reiner*, Heike Petra Karbstein, <i>Karlsruhe Institute of Technology, Germany</i>
P2.2.61	Impact of culinary practices on microconstituents' bioaccessibility : the example of a model tomato sauce Jiahao Yu ^{2,3} , Catherine Renard ^{1,3*} , Béatrice GLize ³ , ¹ INRAE, France, ² Zhejiang University of Technology, China, ³ SQPOV, France
P2.2.63	Sustainable fish products enriched with protein from fish and pea side streams Jan Thomas Rosnes ^{1*} , Aase Vorre Skuland ¹ , Ingvild Gundersen ² , ¹ Nofima, Norway, ² University of Stavanger, Norge
P2.2.65	The effect of saturated and monounsaturated fatty acids on the thermo-oxidative stability of stigmaterol-modified acylglycerols Magdalena Rudzinska*, Anna Grygier, Aleksandra Grudniewska, <i>Poznań University of Life Sciences, Poland</i>
P2.2.67	Pulsed electric fields impacts the stability and bioaccessibility of phenolic compounds in carrot purees Gloria López-Gámez, Pedro Elez-Martínez, Olga Martín-Belloso, Robert Soliva-Fortuny*, <i>University of Lleida, Spain</i>
P2.2.69	Desirability-based optimization of bakery products containing pea, hemp and insect flours using mixture design methodology Clara Talens ^{1*} , Maider Lago ¹ , Laura Simó-Boyle ² , Isabel Odriozola-Serrano ² , Mónica Ibargüen ¹ , ¹ AZTI, Food Research, Basque Research and Technology Alliance (BRTA), Spain, ² University of Lleida, Spain
P2.2.71	Impact of adding wheat arabinoxylan to gluten-starch dough on its rheological properties Sara A.K.B. Petit-Jean ^{1,2} , Femke Vandembroucke ¹ , Julie Van de Vondel ^{1*} , Kurt Gebruers ¹ , Paula Moldenaers ² , Jan A. Delcour ¹ , ¹ KU Leuven, Belgium, ² KU Leuven, Soft Matter, Rheology and Technology (SMaRT), Belgium
P2.2.73	Impact of fiber-enriched wheat flour on the technological quality of wheat bread doughs Celeste Verbeke*, Els Debonne, Filip Van Bockstaele, Mia Eeckhout, <i>Ghent University, Belgium</i>
P2.2.75	Development of a functional snack for gut-brain axis health Elena Vittadini ^{1*} , Oscar Moreno-Araiza ¹ , Laura Bonfili ¹ , Anna Maria Eleuteri ¹ , Nicoletta Pellegrini ² , ¹ University of Camerino, Italy, ² University of Udine, Italy
P2.2.77	Stability of bioactive crocins during loading into solid lipid nanoparticles and production of protein gels Verena Wiedenmann*, Esther Mayer-Miebach, Elke Walz, Volker Gräf, Kathleen Oehlke, <i>Max Rubner-Institut, Federal Research Institute of Nutrition and Food, Germany</i>
P2.2.79	Wheat flour substitution by fava bean flour for whole wheat bread Leah Simon, Maya Vögel, Viktoria Zettel*, <i>University Of Hohenheim, Germany</i>
P2.3.01	Ultra-high-pressure homogenization (UHPH) in the preparation of spray-dried functional emulsion: application in dairy-based products Fatemeh Aghababaei*, Victoria Ferragut, <i>Universitat Autònoma Barcelona (UAB), Spain</i>
P2.3.03	Investigation of the 3D bread dough structure using complementary approaches: label-free multiphoton and confocal microscopies Nanci Castanha ^{1*} , Sylvain Challos ¹ , Elysa Le Corre ¹ , Héliane Clément ¹ , Patricia Le Bail ² , David Grenier ¹ , Laurence Dubreil ³ , Tiphaine Lucas ¹ , ¹ INRAE UR OPAALE, France, ² INRAE UR BIA, France, ³ INRAE, ONIRIS, APEX UMR PaNTher, France
P2.3.05	Development of new foods rich in animal proteins adapted to the masticatory capacity of seniors Anne Duconseille*, Stephane Portanguen, Pascal Tournayre, Thierry Astruc, Pierre-Sylvain Mirade, <i>INRAE, France</i>

P2.3.07	Impacts of ionic calcium fiber supplementation on preserving bone health in C57/BL6 mice Hugo Espinosa ^{1*} , Esristero García-Marquez ² , Sara Herrera-Rodríguez ³ , ¹ CIATEJ, Mexico, ² CIATEJ-Northwest, Mexico, ³ CIATEJ-Southwest, Mexico	P2.4.03	Targeted and semi-untargeted UHPLC-qTOF-MS determination of polyphenols in five indigenous fruits of South Africa Tonna Ashim Anyasi [*] , Karen de Jager, Lerato Grace Malesa, Rosemary du Preez, <i>Agricultural Research Council - Tropical and Subtropical Crops, South Africa</i>
P2.3.09	Water-in-linseed oil Pickering emulsions stabilized with surface-functionalized silica nanoparticles with tocopherol succinate or myristic acid Begoña Gimenez ^{1*} , Javier Paredes-Toledo ¹ , Javier Herrera ¹ , Paz Robert ² , Javier Morales-Valenzuela ² , ¹ Universidad De Santiago De Chile, Chile, ² Universidad de Chile, Chile	P2.4.05	Free and bound phenolic profile in the orange juice co-product. Contribution to its antioxidant activity María del Mar Camacho [*] , Mónica Zago, Eva García-Martínez, Nuria Martínez-Navarrete, <i>Universitat Politècnica De València, Spain</i>
P2.3.11	Process for a low molecular mass beta-glucan recovery from oat Joanna Harasym ^{1*} , Joanna Gromadzka-Ostrowska ² , ¹ Wroclaw University of Economics And Business, Poland, ² Warsaw University of Life Sciences, Poland	P2.4.07	Toxicity Assessment of Catechin on Aquatic Organism and Terrestrial Plant Dicky Harwanto ^{2,3} , Bertoka Fajar Surya Perwira Negara ^{1,2} , Gabriel Tirtawijaya ² , Maria Dyah Nur Meinita ^{2,4} , Jae-Suk Choi ^{1,2*} , ¹ Silla University, South Korea, ² Seafood Research Center, South Korea, ³ Diponegoro University, Indonesia, ⁴ Jenderal Soedirman University, Indonesia,
P2.3.13	Use of rainbow trout (<i>Oncorhynchus mykiss</i>) hydrolysate as a valuable source of multifunctional bioactive peptides Kristine Kvangarsnes ^{1*} , Janna Crobotova ¹ , Egidijus Dauksas ¹ , Turid Rustad ¹ , Carlotta Bollati ² , Martina Bartolomei ² , Ruoxian Xu ² , Giovanna Boschin ² , Carmen Lammi ² , ¹ Norwegian University of Science And Technology, Norway, ² Università degli Studi di Milano, Italy	P2.4.09	Mediterranean Diet: the role of phenolic compounds from Mediterranean plant foods Amélia Delgado [*] , Sandra Gonçalves, Anabela Romano, <i>University of Algarve, Portugal</i>
P2.3.15	In vitro digestion of chlorophyllin-loaded W1/O/W2 emulsions with different lipid phase compositions into whole milk Anna Molet-Rodríguez [*] , Mohsen Ramezani, Laura Salvia-Trujillo, Olga Martín-Belloso, <i>University of Lleida, Spain</i>	P2.4.11	In vitro digestion effect on DPP-IV inhibitory activity of protein hydrolysates obtained from plant by-products C. Berraquero-García, J. Díaz-Moreno, L. Ospina-Quiroga, M.C. Almécija, R. Pérez-Gálvez, Pedro J. García-Moreno [*] , E.M. Guadix, <i>University Of Granada, Spain</i>
P2.3.17	Development of bioactive feed extrudates containing encapsulated phytochemical compounds Konstantina-Theodora Laina, Christina Drosou, Vasiliki Oikonomopoulou [*] , Magdalini Krokida, <i>National Technical University of Athens, Greece</i>	P2.4.13	Upgrading Horse mackerel discards and chia cake by obtaining a microencapsulated anti-hypertensive food ingredient Joaquín Gómez-Estaca [*] , Ana Rubio-Calle, Oscar Martínez-Alvarez, <i>ICTAN-CSIC, Spain</i>
P2.3.19	Rheological properties of liposomal nanosuspensions that encapsulate grape seed tannins Fernando Osorio [*] , Angela Monasterio, Emerson Nuñez, <i>Universidad de Santiago de Chile, Chile</i>	P2.4.15	Comparative investigation of anti-cancer potential in collagen hydrolysate fractions extracted from Alaska Pollack skin Thinzar Aung, Ju Eun Lee, Mi Jeong Kim [*] , ¹ Changwon National University, South Korea
P2.3.21	Physical and antioxidant properties of a yogurt containing liposomal nanosuspensions with encapsulated tannins Fernando Osorio ^{1*} , Angela Monasterio ¹ , Natalia Brossard ² , Marcela Zamorano ¹ , ¹ Universidad de Santiago de Chile, Chile, ² Pontificia Universidad Católica de Chile, Chile	P2.4.17	Encapsulation of anthocyanins in alginate beads using electrostatic extrusion: process optimization and storage stability Samira Mohammadalinejad [*] , Auguste Almonaityte, Jørgen Lerfall, <i>Norwegian University of Science And Technology (NTNU), Norway</i>
P2.3.23	Digestive fate of protein amyloid structures: A case study on α-lactalbumin, β-lactoglobulin and ovalbumin Gil Refael [*] , Alon Romano, Yizhaq Engelberg, Meytal Landau, Uri Lesmes, <i>Technion - Israel Institute of Technology, Israel, Universidad de Granada</i>	P2.4.19	Study of physicochemical and structural properties of nanoliposomes encapsulating grape seed tannins Angela Monasterio [*] , Emerson Nuñez, Fernando Osorio, <i>Universidad De Santiago De Chile, Chile</i>
P2.3.25	Gentiana Lutea microencapsulation in alginate microbeads using air assisted extrusion: process parameters effects on bioavailability Fabrizio Sarghini [*] , Angela De Vivo, Emanuele Elefante, <i>University Of Naples Federico II, Italy</i>	P2.4.21	Anti-inflammatory activity of peptides derived from sustainable food proteins Julia Rivera Jiménez, Carmen Berraquero García, Raúl Pérez Gálvez [*] , Pedro J. García Moreno ¹ , Javier Espejo Carpio, Antonio Guadix, Emilia M. Guadix, <i>University Of Granada, Spain</i>
P2.4.01	Effect of gastrointestinal digestion on the lactoferrin antibacterial activity in dairy formulas against <i>Listeria monocytogenes</i> Inés Abad ^{1,2*} , Laura Román ¹ , Aroa Bailac ¹ , Dimitra Graikini ^{1,2} , Juan José Carramiñana ^{1,2} , Dolores Pérez ^{1,2} , Laura Grasa ^{2,3} , Lourdes Sánchez ^{1,2} , ¹ Universidad de Zaragoza, Spain, ² Instituto Agroalimentario de Aragón IA ² (UNIZAR-CITA), Spain, ³ Universidad de Zaragoza, Spain	P2.4.23	Bioactive compounds from herbs used for feed and packaging materials Jan Thomas Rosnes ^{1*} , Mette Goul Thomsen ² , Rune Sliestad ³ , Sissel Albrektsen ¹ , Amritha Johny ¹ , Nusrat Sharmin ¹ , Camilla Sekse ⁴ , Christian Renè Karlsen ¹ , ¹ Nofima, Norway, ² Norwegian Institute of Bioeconomy Research, Norway, ³ PlantChem, Norway, ⁴ Norwegian Veterinary Institute, Norway
		P2.5.01	IPSUS: Climate smart food innovation using plant and seaweed proteins from upcycled sources Marcello Alinovi [*] , Maria Paciulli, Elena Bancalari, Giovanni Sogari, Monica Gatti, Emma Chiavaro, <i>Università di Parma, Italy</i>

P2.5.03	Influence of processing parameters on the quality of defatted <i>T. molitor</i> Lisa Fahrner*, René Rehorska, Johann Tiefenbacher, Simon Berner, <i>University of Applied Sciences - FH Joanneum, Austria</i>	P2.6.11	Spray-dried kefir powder and reconstitution properties as affected by storage temperature and thermoprotectant carrier addition Stylianos Exarhopoulos*, Olga Groztidou, Despoina Georgiou, Athanasios Goulas, Eleni P. Kalogianni, Georgia Dimitreli, <i>International Hellenic University, Greece</i>
P2.5.05	Impact of growth conditions on protein content and profile of the cultured macroalga, <i>Palmaria palmata</i> Anthony Temitope Idowu ^{1*} , Miryam Amigo-Benavent ¹ , Marta Santos-Hernández ¹ , Susan Whelan ² , Maeve D. Edwards ² , Richard J. FitzGerald ¹ , ¹ <i>University of Limerick, Ireland</i> , ² <i>Irish Seaweed Consultancy, Ireland</i> ,	P2.6.13	Plant-based burgers with gelled emulsions as fat source: Composition, lipid profile and sensory properties Juana Fernandez-lopez*, Carmen Botella-Martínez, Estrella Sayas-Barberá, José Angel Pérez-Alvarez, Manuel Viuda-Martos, <i>Universidad Miguel Hernández, CIAGRO-UMH, Spain</i>
P2.5.07	The effect of faba bean starch concentrate addition on pea protein isolate based meat analogues Katja Kantanen*, Liisa Suomalainen, Aino Siitonen, Majjuleena Blanco Sequeiros, Jose Martin Ramos Diaz, Asmo Kemppinen, Kirsi Jouppila, <i>University Of Helsinki, Finland</i>	P2.6.15	Statistical models describing the effect of protein addition on the physicochemical properties of fortified soup Mahrokh Jamshidvand ^{1*} , George Tsirogiannis ² , Maria Dermiki ¹ , ¹ <i>Faculty of Science, Atlantic Technological University, Ireland</i> , ² <i>University of Patras, Greece</i>
P2.5.09	Effect of pH on heat-induced gelation properties of plant and whey proteins Qi Tang ^{1,2} , Yrjo H. Roos ² , Song Miao ^{1*} , ¹ <i>Teagasc Food Research Centre Moorepark, Ireland</i> , ² <i>University College Cork, Ireland</i>	P2.6.17	Effect of cattle grazing botanically diverse pasture on the sensory quality of beef Michelle Kearns ^{1*} , Jean-Christophe Jacquier ¹ , Simona Grasso ¹ , Emily Crofton ² , Tommy M Boland ¹ , Helen Sheridan ¹ , Frank J Monahan ¹ , ¹ <i>University College Dublin, Ireland</i> , ² <i>Teagasc Food Research Centre, Ireland</i>
P2.5.11	Sustainable meat alternatives: Probing interactions of potato protein and fungal hyphae composites Mary Okeudo ^{1*} , Brent Murray ¹ , Simon Connell ¹ , Rammile Ettelaie ¹ , Stewart Radford ² , Anwesha Sarkar ¹ , ¹ <i>University of Leeds, United Kingdom</i> , ² <i>Quorn Foods, United Kingdom</i>	P2.6.19	Evaluation of the mechanical properties towards the design of 3D printed food Ruben Maldonado Rosas*, Viridiana Tejada-Ortigoza, Enrique Cuan-Urquiza, <i>Tecnologico de Monterrey, Mexico</i>
P2.5.13	Influence of seed germination on phenolic content of lupine flour Virginia Sánchez Jiménez ^{1*} , Paola Navarro-Vozmediano ¹ , Marta Amor ¹ , Jose Javier Benedito Fort ¹ , Enrique Barraji�n-Catalan ² , Jose V. Garcia-Perez ¹ , ¹ <i>Universitat Polit�cnica de Val�ncia, Spain</i> , ² <i>University Miguel Hern�ndez, Spain</i>	P2.6.21	How vegetable oil affects complex rheological properties of wheat gluten for meat analogue applications Christina Opaluwa*, Heike Petra Karbstein, Azad Emin, <i>Karlsruhe Institute of Technology, Germany</i>
P2.5.15	How do plant proteins and flavours interact? Silvia J.E. Snel ^{1,2*} , Igor Bodnar ³ , Mirela Pascu ³ , Shane Avison ³ , Atze Jan van der Goot ² , Michael Beyrer ¹ , ¹ <i>Hes-so Valais, Switzerland</i> , ² <i>Wageningen University & Research, Netherlands</i> , ³ <i>Firmenich S.A., Switzerland</i>	P2.6.23	Two-spotted cricket (<i>Gryllus bimaculatus</i>) powder addition impact on hydration properties of blends with rice flour Agnieszka Orkusz ^{1*} , Samuel Kirru ² , John Kinyuru ² , Joanna Harasym ¹ , ¹ <i>Wroclaw University of Economics and Business, Poland</i> , ² <i>Jomo Kenyatta University of Agriculture and Technology, Kenya</i>
P2.5.17	Acid-induced pea protein emulsion gels: Rheology and microstructure Wenjie Xia*, Lilia Ahrn�, <i>University of Copenhagen, Denmark</i>	P2.6.25	Mathematical modeling for furan estimation during thermal sterilization process of jarred carrot Cristian Ramirez*, Elizabeth Sanchez, Marlene Pinto, Helena Nu�ez, Matias Fardella, Alejandro Angulo, Sergio Almonacid, Pedro Valencia, <i>Universidad Tecnica Federico Santa Maria, Chile</i>
P2.6.01	High-moisture Mozzarella cheese freezing: physicochemical and sensory modifications during processing and shelf-life Marcello Alinovi ^{1*} , Eleonora Carini ¹ , Lars Wiking ² , Milena Corredig ^{2,3} , ¹ <i>Universit� di Parma, Italy</i> , ² <i>Aarhus University, Denmark</i> , ³ <i>Food Innovation center, Denmark</i>	P2.6.27	Potential of <i>Debaryomyces hansenii</i> SP6L12 to produce cricket powder-based innovative breads Samantha Rossi ^{1*} , Luigi Parrotta ² , Stefano Del Duca ² , Oliver Schl�ter ³ , Francesca Patrignani ^{1,4} , Rosalba Lanciotti ^{1,4} , ¹ <i>University of Bologna, Italy</i> , ² <i>University of Bologna, Italy</i> , ³ <i>Leibniz Institute for Agricultural Engineering and Bioeconomy, Quality and Safety of Food and Feed, Germany</i> , ⁴ <i>University of Bologna, Italy</i>
P2.6.03	Ensuring product stability, quality, and safety while introducing novel sustainable packaging solutions Linda Br�tsch*, Vincent Meunier, Reinhard Behringer, <i>Nestle Institute of Material Sciences, Switzerland</i>	P2.6.29	Effect of dietary silage from agro-industry by-products on pork performance, meat composition and oxidative stability Ioannis Skoufos ^{1*} , Georgios Magklaras ¹ , Christos Zacharis ¹ , Athina Tzora ¹ , Konstantina Nikolaou ¹ , Lampros Chatzizisis ¹ , Anastasios Tsinas ¹ , Ilias Giannenas ² , Ioannis Giavasis ³ , Eleftherios Bonos ¹ , ¹ <i>University of Ioannina, Greece</i> , ² <i>School of Veterinary Medicine, Aristotle University of Thessaloniki, Greece</i> , ³ <i>University of Thessaly, Greece</i>
P2.6.05	ENHANCEMICROALGAE PROJECT: Stimulating Microalgae Research, Industrial Development and Transnational Cooperation in Europe Mar�a-Jos� Chapela*, <i>EnhanceMicroAlgae partnership, Anfaco-Cecopesca, Spain</i>		
P2.6.07	Multicriteria assessment tool to support design of food products integrating environmental, nutritional and sensorial dimensions Adeline Cortesi*, Gwenola Yannou-Le Bris, Caroline P�nicaud, <i>Universit� Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, France</i>		
P2.6.09	Reduction of par-baked bread additives by process optimization Els Debonne*, Charles Landuyt, Celeste Verbeke, Mia Eeckhout, <i>Ghent University, Belgium</i>		

P2.6.31	Driving Future Food Systems Through Norway-Japan Innovative Research & Training Network Estefanía Noriega Fernández ^{1,5} , Morten Sivertsvik ¹ , Turid Rustad ² , Shingo Matsukawa ³ , Yohimasa Sagane ⁴ , Catherine Nordgård ² , Eva Falch ² , Ragni Nergård ² , Nusrat Sharmin ¹ , Izumi Sone ^{1*} , ¹ Nofima AS, Norway, ² Norwegian University of Science and Technology, Norway, ³ Tokyo University of Marine Science and Technology, Japan, ⁴ Tokyo University of Agriculture, Japan, ⁵ European Food Safety Authority, Norge	P3.3.03	Omnibus modeling of <i>Listeria monocytogenes</i> growth rates as an emerging tool for shelf life prediction Kevin Hunt ^{1*} , Francis Butler ¹ , Olivia McAuliffe ² , Ursula Gonzales Barron ³ , Vasco Cadavez ³ , Michael Callanan ⁴ , Peter Myintzaw ⁴ , Laura Nyhan ⁴ , ¹ University College Dublin, Ireland, ² Teagasc Food Research Centre, Ireland, ³ Instituto Politécnico de Bragança, Portugal, ⁴ Cork Institute of Technology, Ireland
P2.6.33	Seasonal and geographical variations in size and gonad quality of sea urchins harvested in Mid-Norway Dionysios Tsoukalas*, Imen Hamed, Jørgen Lerfall, Anita Jakobsen Nordeng, <i>Norwegian University of Science and Technology, Norway</i>	P3.3.05	Comparative analysis on organic and inorganic vegetables: a scientific approach on consumers' perception Hannah Olaleye*, Tolulope Oresanya, Esther Ogwuche, <i>Yaba College of Technology, Nigeria</i>
P2.6.35	Shelf-life extension of mycoprotein-based meat-alternative by using high CO₂ modified atmosphere to control <i>Bacillus cereus</i> Hermien van Bokhorst-van de Veen*, Masja Nierop Groot, Hasmik Hayrapetyan, <i>Wageningen University & Research, Nederland</i>	P3.3.07	Real-Time Monitoring of Foodborne Microbiological Risks in the Food-Chain Leonardos Stathas*, Zafeiro Aspidrou, Kostas Koutsoumanis, <i>Aristotle University of Thessaloniki, Greece</i>
P3.1.01	Microbial diversity of Amasi, traditionally produced using metagenomic sequencing techniques (16S rRNA and ITS 1&2) Betty Ajibade*, <i>Durban University Of Technology, South Africa</i>	P3.4.01	Influence of heat treatment intensity on acrylamide formation in oxidized black olives Pedro García-García*, Mercedes Brenes-Álvarez, Eva Ramírez-Castro, Manuel Brenes, Eduardo Medina, Concepción Romero, <i>Instituto de la Grasa, IG-CSIC, Spain</i>
P3.2.01	Monitoring of temperature changes affected by different types of cod fillet packaging Klara Bartakova ^{1*} , Sarka Bursova ¹ , Alena Skockova ¹ , Lenka Necedova ¹ , Danka Harustiakova ² , Marcela Klimesova ³ , ¹ University of Veterinary Sciences, Czech Republic, ² Masaryk University, Czech Republic, ³ Dairy Research Institute, Czech Republic	P3.4.03	Soluble gas stabilization (SGS) technology as a hurdle against <i>Listeria</i> spp. in Atlantic salmon fillets Revathy Gurusamy*, Jørgen Lerfall, John-Kristian Jameson, Anita Nordeng Jakobsen, <i>Norwegian University of Science and Technology, Norway</i>
P3.2.03	Translating meta-analysis and OECD Guidelines: Pharmaceutical pollutant soil-water partitioning to evaluate wastewater reuse for irrigation Rachel Louise Gomes ^{1*} , Andrea-Lorena Garduño-Jiménez ² , Juan Carlos Durán-Álvarez ³ , ¹ University of Nottingham, United Kingdom, ² University of Nottingham, United Kingdom, ³ National Autonomous University of Mexico, Mexico	P3.4.05	Evaluation of impact of emulsion matrix on survival of <i>Salmonella</i> during simulated gastric digestion Zhujun Gao, Rohan Tikekar*, <i>University of Maryland, United States</i>
P3.2.05	The effect of temperature disruption during transport on the microbiological quality of Atlantic cod samples Lenka Necedová ^{1*} , Šárka Bursová ¹ , Danka Haruštiková ² , Alena Skočková ¹ , Klára Bartáková ¹ , Marcela Klimešová ³ , ¹ University of Veterinary Sciences, Czech Republic, ² Masaryk University, Czech Republic, ³ Dairy Research Institute, Czech Republic	P3.5.01	Allergenicity risk assessment by the European Food Safety Authority – Knowledge gaps and research needs Estefanía Noriega Fernández ^{1,2*} , Fernando Rivero Pino ¹ , Fabio Alfieri ³ , Andrea Germini ¹ , Gabriela Precup ⁴ , Ruth Roldán Torres ¹ , Ermolaos Ververis ^{1,5} , Panagiota Zakidou ¹ , Antonio Fernández Dumont ¹ , ¹ European Food Safety Authority (EFSA), Italy, ² Department of Processing Technology, Nofima, Norway, ³ University of Naples Federico II, Italy, ⁴ University of Agricultural Sciences and Veterinary Medicine, Romania, ⁵ National and Kapodistrian University of Athens, Greece
P3.2.07	Variability of modified atmosphere in packed chicken meat and its changes during shelf life Alena Skočková ^{1*} , Klára Bartáková ¹ , Šárka Bursová ¹ , Lenka Necedová ¹ , Danka Haruštiková ² , Marcela Klimešová ³ , Hana Buchtová ¹ , ¹ University of Veterinary Sciences, Czech Republic, ² Faculty of Science, Masaryk University, Czech Republic, ³ Dairy Research Institute, Czech Republic	P4.1.01	Production of fish sauce based on herring (<i>Clupea harengus</i>) and blue whiting (<i>Micromesistius poutassou</i>) Tone Aspevik ^{1*} , Gro H. Kleiberg ² , Ingunn Berget ³ , Birthe Vang ⁴ , Mari Ø. Gaarder ³ , ¹ Nofima AS, Norway, ² Nofima AS, Norway, ³ Nofima AS, Norway, ⁴ Nofima AS, Norway
P3.2.09	Goat milk microbial biodiversity as an identification indicator of origin and terroir of dairy products Aikaterini Nelli ¹ , Ioannis Skoufos ¹ , Chrysoula Voudarou ¹ , Konstantina Fotou ¹ , Achilleas Karamoutsios ¹ , Michalis Alexiou ¹ , Dimitrios Galamatis ² , Eleftherios Bonos ¹ , Georgios Theodoridis ³ , Athina Tzora ^{1*} , ¹ University of Ioannina, Greece, ² Hellenic Agricultural Organization DIMITRA, Greece, ³ Aristotle University of Thessaloniki, Greece	P4.1.03	Effects of thermal stabilization and enzyme-assisted hydrolysis on cocoa fruit pulp for food applications Thomas Bickel Haase ^{1,2*} , Ute Schweiggert-Weisz ^{1,3} , Eva Ortner ¹ , Holger Zorn ^{2,4} , Susanne Naumann ¹ , ¹ Fraunhofer Institute for Process Engineering and Packaging IVV, Germany, ² Justus Liebig University Gießen, Germany, ³ University of Bonn, Germany, ⁴ Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany
P3.3.01	Simulating <i>Salmonella</i> and <i>Listeria monocytogenes</i> behaviour in dry-fermented sausages as a function of processing factors Anna Austrich Comas ^{1*} , Anna Jofré ¹ , Pere Gou ² , Sara Bover-Cid ¹ , ¹ IRTA, Spain, ² IRTA, Spain	P4.1.05	Extraction of Pectin From Apple Pomace Using Environmentally Friendly Processes For Circular Economy Initiative Ian Butler ^{1,2*} , Russell Banta ^{1,2} , Andrey Tiuftin ¹ , Joe Kerry ¹ , ¹ Food Packaging Group, School of Food & Nutritional Sciences, UCC, Ireland, ² Environmental Research Institute, Ireland
		P4.1.07	Quality changes of fried tilapia skins with different frying methods and their accelerated shelf-life testing Tay Yuan Chen*, Peng Shih Yun Chin, Wen Chieh Sung, Ming Chih Fang, <i>National Taiwan Ocean University, Taiwan</i>

P4.1.09	Almond Okara as functional ingredient for cookies Davide De Angelis*, Antonella Pasqualone, Giacomo Squeo, Francesco Caponio, Carmine Summo, <i>University of Bari "A. Moro", Italy</i>	P4.1.33	Sustainable pathways for delignification of barley straw for nanocellulose production Dileswar Pradhan ^{1,2*} , Brijesh Tiwari ² , Swarna Jaiswal ¹ , Amit Jaiswal ¹ , ¹ <i>Technological University Dublin, Ireland</i> , ² <i>Teagasc Ashtown Food Research Centre, Ireland</i>
P4.1.11	Spent Coffee Grounds (SCGs): food waste or new ingredient for fermented beverages? Blanca del Noval ¹ , Lucia Gayoso ^{1,2} , Gorka Ortega ¹ , Shuyana Deba-Rementeria ¹ , Olaia Estrada ^{1*} , ¹ <i>BCC Innovation, Technology Center in Gastronomy, Basque Culinary Center, Spain</i> , ² <i>Basque Culinary Center, Faculty of Gastronomic Sciences, Mondragon University, Spain</i>	P4.1.35	Sequential batches strategy for the enhancement of protein recovery from salmon frames by proteolysis Pedro Valencia, Silvana Valdivia, Suleivys Nuñez, Cristian Ramirez*, Marlene Pinto, Sergio Almonacid, <i>Technical University Federico Santa Maria, Chile</i>
P4.1.13	Revalorization of cocoa by-products through enzymatic hydrolysis and gastronomic applications Sandra García Rodríguez*, Pia León, Virgilio Martínez, Malena Martínez, <i>Mater Iniciative, Research centre for territorial development, Perú</i>	P4.1.37	Valorization of whey protein fraction by High Pressure Processing María Romo*, Massimo Castellari, Xavier Felipe, <i>IRTA (Institute of Agrifood Research and Technology), Spain</i>
P4.1.15	Tomato pomace as a bio-energy source in a circular economy: methane production intensification using ultrasounds Francesca Girotto ^{1*} , Maria Cristina Lavagnolo ² , Gulgun Acar ² , Laura Piazza ¹ , ¹ <i>Università degli Studi di Milano, Italy</i> , ² <i>Università degli Studi di Padova, Italy</i>	P4.1.39	Modification of technological properties of apple bagasse through the application of enzymatic treatments Alba Díaz-Núñez, Gloria López-Gámez, Robert Soliva-Fortuny*, Olga Martín-Belloso, Pedro Elez-Martínez, <i>University of Lleida, Agrotecnio CERCA Centre, Spain</i>
P4.1.17	Effect of chitin nanowiskers on chitosan films prepared at different viscosity film forming solutions Iranzu Zalba ² , Mikel Apesteguía ² , Carmen Barba ² , Juan I. Maté ² , Joaquín Gómez-Estaca ^{1*} , ¹ <i>ICTAN-CSIC, Spain</i> , ² <i>UPNA, Spain</i>	P4.1.41	Raw materials assessment and by-products production in the Irish brewing and distilling sector Ekene Umego*, Marie Byrne, Catherine Barry-Ryan, <i>Technological University Dublin, Ireland</i>
P4.1.19	Replacing egg yolk in homemade mayonnaise by food by-products: effect of formulation and process parameters Charlotte Hollestelle ^{1*} , Faidat MZE Hamadi ² , Camille Michon ³ , Nathalie Fayolle ⁴ , Delphine Huc-Mathis ¹ , ¹ <i>Université Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, France</i> , ² <i>Université Paris-Saclay, France</i> , ³ <i>INRAE, France</i> , ⁴ <i>JRS Rettenmaier, France</i>	P4.1.43	Stabilisation of potato trimmings for protein extraction by lactic acid fermentation Baptiste Vanleenhove*, Ellen Verwee, Els Van Damme, Andre Skirtach, Koen Dewettinck ¹ , Davy Van de Walle, Steven De Meester, Kathleen Raes, <i>Ghent University, Belgium</i>
P4.1.21	Up-cycling and valorisation of European plaice by-products originating from Norway Sophie Kendler*, Sine Marie Moen Kobbenes, Anita Nordeng Jakobsen, Jørgen Lerfall, <i>Norwegian University of Science and Technology, Norway</i>	P4.3.01	Influence of different packaging strategies on the quality and shelf life of tomatoes Claire-Lucie Tschentscher, Claudia Waldhans, Antonia Albrecht*, <i>Rheinische Friedrich-Wilhelms-Universität Bonn, Germany</i>
P4.1.23	Application of flowcytometry to characterize Tetrademus obloquus and Nonnochlropsis ocnica growth on casein whey permeate Hossein Kiani ^{1,2*} , Kelly Noble ¹ , Yeganeh Azimi ² , Ronald Halim ¹ , ¹ <i>University College Dublin, Ireland</i> , ² <i>University of Tehran, Iran</i>	P4.3.03	Rationalized use of functional barriers to promote recycled materials for food contact Natacha Daoud ^{1,2*} , Colette Breyse ² , Sandra Domenek ¹ , Olivier Vitrac ¹ , ¹ <i>INRAE, AgroParisTech, Paris-Saclay University, France</i> , ² <i>IPC, France</i>
P4.1.25	Investigation of lactose assimilation by microalgae for bioremediation of dairy waste Yuchen Li ^{1*} , Hossien Kiani ^{1,2} , Brijesh K. Tiwari ³ , Ronald Halim ^{1,2} , ¹ <i>University College Dublin, Ireland</i> , ² <i>University College Dublin, Ireland</i> , ³ <i>Ashtown Teagasc Food Research Centre, Ireland</i>	P4.3.05	Antimicrobial properties of nanoprinted PLA-based films with embeded antimicrobials and use in meat preservation Ioannis Giavasis ^{1*} , Chrysanthi Mitsagga ¹ , Paraskevi Bouki ¹ , Stefanos Zaoutsos ¹ , Konstantinos Petrotos ¹ , Emmanouel Koudoumas ² , Nikos Kehagias ³ , ¹ <i>University of Thessaly, Greece</i> , ² <i>Hellenic Mediterranean University, Greece</i> , ³ <i>Institute of Nanoscience & Nanotechnology, NCSR "Demokritos", Greece</i>
P4.1.27	Bread losses and surplus in French bakeries: what place for repurposing as food? Tiphaine Lucas*, Chloé Roy, Marie-Line Daumer, Lynda Aissani, <i>INRAE, OPAALE Research Unit, France</i>	P4.3.07	Lemongrass Oil-based Nanocomposite: An Active Material of Biobased Food Packaging Film Shipra Pandey*, Venkat Gundabala, <i>Indian Institute of Technology Bombay, India</i>
P4.1.29	Chitosan/LCNF/Gallic-acid films for active food packaging Ramón Morcillo-Martín ^{1*} , Laura Rabasco-Vílchez ² , Eduardo Espinosa ³ , Fernando Pérez-Rodríguez ⁴ , Alejandro Rodríguez ⁴ , ¹ <i>University Institute of Nanochemistry, Spain</i> , ² <i>Universidad de Córdoba, Spain</i> , ³ <i>Universidad de Córdoba, Spain</i> , ⁴ <i>Universidad de Córdoba, Spain</i>	P4.3.09	Evaluation of different factors affecting the antifungal activity of chitosan Paul Alexandru Popescu*, Ioana Catalina Nicolae, Elena Elisabeta Popa, Mihaela Cristina Draghici, Amalia Carmen Mitelut, Florentina Matei, Mona Elena Popa, <i>University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania</i>
P4.1.31	Alternative legume proteins in the biorefinery process Nora Pap*, Eila Järvenpää, Jarkko Hellström, Pertti Marnila, Santeri Kankaanpää, Juha-Matti Pihlava, Tomasz Stefanski, Marcia Franco, Marketta Rinne, <i>Natural Resources Institute Finland, Finland</i>	P4.3.11	The exploration of microbial profiles in blue mussels (Mytilus edulis) stored under different modified atmospheres Susana Endah Ratnawati ^{1,4*} , Lotta Kuuliala ¹ , Nele Verschuere ² , Margo Cnockaert ³ , Peter Vandamme ³ , Peter Ragaert ¹ , Frank Devlieghere ¹ , ¹ <i>Ghent University, Belgium</i> , ² <i>Biomedical Laboratory Technology, Hogeschool, Belgium</i> , ³ <i>Ghent University, Belgium</i> , ⁴ <i>Universitas Gadjah Mada, Indonesia</i>

P4.3.13	Polyphenol-rich grape seed extract towards bioactive and visually responsive smart food packaging systems Akvile Pazarauskaite, Estefanía Noriega Fernández, Izumi Sone, Leena Prabhu, Morten Sivertsvik, Nusrat Sharmin*, <i>Nofima AS, Norway</i>	P6.0.03	Effect of PEF treatment on water retention capacity and shearing force of butternut squash Juan A. Cárcel ^{1*} , Beatriz Llavata ¹ , José Benedito ¹ , Francico Mas ¹ , James Lyng ² , ¹ <i>Universitat Politècnica De València, Spain</i> , ² <i>University College of Dublin, Ireland</i>
P4.3.15	Bioplastic material based on ethyl-cellulose Eden Shlush*, Maya Davidovich-Pinhas, <i>Technion – Israel Institute of Technology, Israel</i>	P6.0.07	The impact of PEF and hybrid drying on the bioactive components of apples Magdalena Dadan*, Katarzyna Rybak, Artur Wiktor, Dorota Witrowa-Rajchert, Malgorzata Nowacka, <i>Warsaw University of Life Sciences, Poland</i>
P4.3.17	Application of an app-based intelligent packaging system for the shelf life prediction of ready-to-eat salad Claudia Waldhans ^{1*} , Antonia Albrecht ¹ , Rolf Ibold ² , Dirk Wollenweber ² , Judith Kreyenschmidt ³ , ¹ <i>University of Bonn, Institute of Animal Sciences, Germany</i> , ² <i>CBS International Business School, Logistics Management, Germany</i> , ³ <i>Geisenheim University, Germany</i>	P6.0.09	Impact of high-pressure processing on qualitative and quantitative attributes of fresh pumpkin Rohini Dhenge ^{1*} , Irene Ferrarese ² , Paolo Langialonga ¹ , Stefano Dall'Acqua ² , Tommaso Ganino ¹ , Davide Barbanti ¹ , Massimiliano Rinaldi ¹ , ¹ <i>University of Parma, Italy</i> , ² <i>University of Padova, Italy</i>
P4.4.01	In Silico modelling of the salmon salting process to reduce saline effluent Jason Sicard*, Sylvie Clerjon, Stéphane Portanguen, Raphaël Favier, Pierre-Sylvain Mirade, <i>Qualité des Produits Animaux, INRAE, France</i>	P6.0.11	Effect of Pulsed Electric Pulse Processing pretreatment on osmotic dehydration of fresh-cut potatoes Efimia Dermesonlouoglou*, Maria Katsouli, George Dimopoulos, Petros Taoukis, <i>National Technical University of Athens, Greece</i>
P4.5.01	Food loss and waste case study: Economical and environmental impact on apple supply chain Patricia Burzaco ^{1*} , Sofia Barrios ¹ , María José Crosa ¹ , María Noel Ackermann ² , Natalia Barboza ² , Ángela Cortelezzi ² , Gabriel Camaño ³ , Vivian Severino ² , Patricia Lema ¹ , ¹ <i>Universidad De La República, Uruguay</i> , ² <i>Consultancy services, Uruguay</i> , ³ <i>Universidad de la República, Uruguay</i>	P6.0.13	Plasma Activated Water and Computer Vision System application to control and evaluate melanosis in crustaceans Federico Drudi ^{1*} , Jessica Genovese ¹ , Silvia Tappi ^{1,2} , Ana Cristina De Aguiar Saldanha Pinheiro ¹ , Santina Romani ^{1,2} , Urszula Tylewicz ^{1,2} , Pietro Rocculi ^{1,2} , ¹ <i>University of Bologna, Italy</i> , ² <i>University of Bologna, Italy</i>
P4.5.03	Mash Process Optimization for Rice Adjuncts Alexander Jahn ^{1*} , Juyeong Kim ² , Man-Gi Cho ^{1,2} , ¹ <i>German Engineering Research and Development Center LSTME Busan, South Korea</i> , ² <i>Dongseo University, South Korea</i>	P6.0.15	Influence of static electric field on the surface tension of aqueous solution Adrien Garcia*, Michel Havet, Tzvetelin Dessev, Alain Le Bail, <i>Gepea, France</i>
P4.5.05	Quality of farmed Atlantic Halibut chilled in refrigerated seawater versus on ice Trond Løvdal ^{1*} , Frida Bårdsen ^{1,2} , Bjørn Tore Rotabakk ¹ , Atle Foss ³ , Bjørn Roth ¹ , ¹ <i>Nofima, Norway</i> , ² <i>University of Stavanger, Norway</i>	P6.0.17	Effect of pulsed electric fields pre-treatment on the debittering process of cherry kernels Marianna Giancaterino ^{1,2*} , Henry Jaeger ¹ , Thomas Fauster ¹ , Anna Krottenthaler ¹ , ¹ <i>University of Natural Resources and Life Sciences, Austria</i> , ² <i>FFoQSI - Austrian Competence Centre for Feed and Food Quality, Safety & Innovation, Austria</i>
P4.5.07	Characterization of an oven dedicated to Lebanese bread baking Yves Mansour ^{1,2,3} , Olivier Rouaud ^{1*} , Rayan Slim ² , Pierre Rahmé ² , ¹ <i>Université de Nantes, France</i> , ² <i>Lebanese University, Lebanon</i> , ³ <i>Farhat Bakery Equipment, Lebanon</i>	P6.0.19	Ultrasounds processing of buckwheat whole-grain modifies the rheological characteristics of obtained flour Joanna Harasym*, Agnieszka Orkusz, Remigiusz Olędzki, ¹ <i>Wrocław University of Economics and Business, Poland</i>
P5.2.01	Gastronomy to engage citizens for a more sustainable future: Espelette pepper as a case study Paula Toran-Pereg ^{1,2} , Stéfani Novoa ¹ , María Mora ^{1,2} , Ziortza Agirrezabala ^{1*} , Laura Vázquez-Araújo ^{1,2} , ¹ <i>BCC Innovation, Technological Center in Gastronomy, Basque Culinary Center, Spain</i> , ² <i>Basque Culinary Center, Spain</i>	P6.0.21	Enhancement of biomethane potential of brown sludge by pre-treatment using vortex based hydrodynamic cavitation Md Saiful Islam*, Vivek V. Ranade, <i>Bernal Institute, University Of Limerick, Ireland</i>
P5.2.03	Cross-cultural conceptualization of high-end pastry cakes based on visual stimulus Pedro Manuel Sousa ^{1*} , José Alba-Martínez ² , Javier Martínez-Monzó ² , Luís Miguel Cunha ¹ , Purificación García-Segovia ² , ¹ <i>University of Porto, Portugal</i> , ² <i>Universitat Politècnica de València, Spain</i>	P6.0.23	Ultrafiltration of skim milk: analysis of the streams, retentate and permeate, and membrane fouling Yuan Jiang*, Sara Guadagnucci, Giovanni Barone, Lilia Arhné, <i>University of Copenhagen, Denmark</i>
P5.5.01	A dialysis membrane process for simulating bile acids absorption during in vitro digestion Sotiria Gaspari*, Theodora Akritidou, Simen Akkermans, Jewel Ann Joseph, Cindy Smet, Jan Van Impe, <i>KU Leuven, Belgium</i>	P6.0.25	Application of cold plasma technology for the shelf-life extension of fish fillets: industrial scale validation George Katsaros ^{1*} , Sofia Chanioti ¹ , Marianna Giannoglou ¹ , Panagiota Stergiou ¹ , Dimitris Passaras ² , George Kokkoris ² , Evangelos Gogolides ² , ¹ <i>Institute Of Technology Of Agricultural Products Elgo-demeter, Greece</i> , ² <i>Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Greece</i>
P6.0.01	Physical-chemical changes in caseins induced by pulsed electric field (PEF) as non-thermal processing Aline T. B. Morais ^{1,2} , Markus Ribeiro ² , Daniel Cardoso ¹ , Lilia Ahrné ^{2*} , ¹ <i>University of Sao Paulo, Brazil</i> , ² <i>University of Copenhagen, Denmark</i>	P6.0.27	Storage temperature and pH-value effect on C-phycoyanin stability extracted by freeze-thaw and high pressure techniques George Katsaros*, Marianna Giannoglou, Varvara Andreou, Ioanna Thanou, Giorgos Markou, <i>Institute of Technology of Agricultural Products ELGO-Demeter, Greece</i>

P6.0.29	Application of semidirect and indirect cold atmospheric plasma treatment on gilthead sea bream filets George Katsaros ^{1*} , Sofia Chanioti ¹ , Marianna Giannoglou ¹ , Panagiota Stergiou ¹ , Dimitris Passaras ² , George Kokkoris ² , Evangelos Gogolides ² , ¹ <i>Institute of Technology of Agricultural Products ELGO-Demeter, Greece</i> , ² <i>Institute of Nanoscience and Nanotechnology, NCSR "Demokritos, Greece</i>	P6.0.51	Nonthermal processing of plant-based dairy alternatives Yamuna Devi Ranganathan ^{1,2*} , Chaitanya Krishna Sarangapani ^{1,2} , Daniela Boehm ^{1,2} , Catherine Barry-Ryan ^{1,2} , ¹ <i>Technological University Dublin, Ireland</i> , ² <i>Environmental Sustainability and Health Institute (ESHI), TU Dublin, Ireland</i>
P6.0.31	Enhancement of wheat dough functional properties by non-thermal plasma treatment of wheat flour Muhammad Jehanzaib Khan ^{1*} , Vojislav Jovicic ¹ , Ana Zbogar-Rasic ¹ , Antonio Delgado ^{1,2} , ¹ <i>Friedrich-Alexander University Erlangen-Nuremberg, Institute of Fluid Mechanics, Germany</i> , ² <i>German Engineering Research and Development Center LSTME Busan, Republic of Korea</i>	P6.0.53	High pressure and pressure assisted thermal processing for developing gluten-free buckwheat flours with antioxidant properties Ángel L. Gutiérrez ¹ , Felicidad Ronda ¹ , Daniel Rico ^{2*} , Pedro A. Caballero ¹ , Ana Belén Martín-Diana ² , ¹ <i>University of Valladolid, Spain</i> , ² <i>Agrarian Technological Institute of Castilla and Leon (ITACyL), Spain</i>
P6.0.33	Effect of the pulsed electric field on olive enzyme activity – a model system experiment Klara Kraljić*, Mia Ivanov, Zoran Herceg, Sandra Balbino, Niko Jakoliš, Dubravka Škevin, <i>University Of Zagreb, Croatia</i>	P6.0.55	The effect of ultrasound and pulsed electric field on bioactive compounds of red bell pepper Katarzyna Rybak*, Artur Wiktor, Małgorzata Nowacka, <i>Warsaw University of Life Sciences, Poland</i>
P6.0.35	Mycotoxins degradation by cold atmospheric plasma: kinetic study varying parameters of the SBDB device Jessica Laika*, Antonella Ricci, Junior Bernardo Molina Hernandez, Eduardo Viteritti, Manuel Sergi, Clemencia Chaves Lopez, <i>University of Teramo, Italy</i>	P6.0.57	Non-thermal extraction processing via PEF of essential compounds from by-products of orange and olive processing Robert Sevenich ^{1*} , María del Carmen Razola Díaz ² , Oliver Schlüter ¹ , Vito Verardo ² , ¹ <i>Leibniz-institut für Agrartechnik und Bioökonomie e.V., Germany</i> , ² <i>University of Granada, Spain</i>
P6.0.37	Influence of PEF pretreatment, temperature and ultrasound application in kiwifruit drying trough a Box-Behnken Design Beatriz Llavata Cabrero ^{1*} , José Vicente García Pérez ¹ , Susana Simal Florindo ² , Juan Andrés Cárcel Carrión ¹ , ¹ <i>Universitat Politècnica De València, Spain</i> , ² <i>University of the Basic Islands, Spain</i>	P6.0.59	Thermosonication applied to blueberry juice – Impact on quality properties Cristina L.M. Silva*, Laurie Favieres, Fátima A. Miller, <i>Universidade Católica Portuguesa, Portugal</i>
P6.0.39	The impact of pulsed electric field pretreatment on convective and vacuum drying of strawberries Aleksandra Matys*, Dorota Witrowa-Rajchert, Artur Wiktor, <i>Warsaw University of Life Sciences, Poland</i>	P6.0.61	Pulsed light treatments to maintain physical properties and nutritional quality of fresh foods Maria Elena Sosa-Morales ^{1*} , Cristina García-Mosqueda ¹ , Aurelio López-Malo ² , ¹ <i>Universidad de Guanajuato, Mexico</i> , ² <i>Universidad de las Américas Puebla, Mexico</i>
P6.0.41	Plasma for food application: opportunities and challenges Masja Nierop Groot*, Lucienne Berendsen, Bert Dijkink, <i>Wageningen Food & Biobased Research, Netherlands</i>	P6.0.63	Plasma activated water to develop functional edible coating: effect on the quality of fresh-cut apples Marika Valentino*, Oliver Schlüter ² , Elena Torrieri ¹ , ¹ <i>Università Degli Studi Di Napoli, Federico II, Italy</i> , ² <i>Leibniz Institute of Agricultural Engineering and Bio-economy e.V. (ATB), Germany</i>
P6.0.43	Enhanced seed germination by atmospheric-pressure plasma: effect on germination rate and nutritional value Patricia Martínez-Cuervo, Montserrat Montserrat González-Raurich, Mercedes López, Márcia Oliveira*, <i>University Of León, Spain</i>	P6.0.65	Sensitive multi-vitamin analysis method for fruit juices to assess the influence of non-thermal food processing Hassan Zia ^{1,2*} , Nadine Fischbach ¹ , Mikko Hofsommer ¹ , Ana Slatnar ² , ¹ <i>Gesellschaft für Lebensmittel-Forschung mbH, Germany</i> , ² <i>University of Ljubljana, Slovenia</i>
P6.0.45	Meta-analysis on decontamination efficacy of non-thermal plasma (NTP) George Pampoukis*, Vaiva Mikalkenaite, M.H. Zwietering, H.M.W. den Besten, <i>Wageningen University & Research</i>		
P6.0.47	Modelling approach on the improvement of the sustainability of tomato processing industry Gianpiero Pataro ^{1,2*} , Emad Abdurrahman ^{1,2} , Giovanna Ferrari ^{1,2} , ¹ <i>University of Salerno, Italy</i> , ² <i>ProdAl scarl, Italia</i>		
P6.0.49	Nonthermal germination-activation strategies of <i>A. acidoterrestris</i> endospores for subsequent inactivation by moderate-pressure (150-250MPa) at 20°C Carlos Pinto ^{1*} , Vasco Lima ¹ , Maria Holovicova ² , Miroslav Habán ² , Marta Habanova ² , Jorge Saraiva ¹ , Francisco Barba ³ , ¹ <i>University of Aveiro, Portugal</i> , ² <i>Slovak University of Agriculture, Slovakia</i> , ³ <i>Universitat de València, Spain</i>		

Poster Session 2
Wednesday 9 November 2022

P1.1.02	Proteomics for quality&safety and shelf life evaluation of high-pressure (HP) processed european sea bass fillets Liliana Anjos ^{1*} , Cármen Sousa ¹ , Arsenius Loukissas ¹ , Theofania Tsironi ² , Elsa Couto ¹ , George Dimopolous ³ , Petros Taoukis ³ , Adelino Canário ¹ , Deborah Power ¹ , ¹ Centro de Ciências do Mar (CCMAR), Portugal, ² Agricultural University of Athens, Greece, ³ National Technical University of Athens (NTUA), Greece
P1.1.04	Investigation on the role of drying air humidity in shaping the conditions of spray drying Alicja Barańska ^{1*} , Aleksandra Jedlińska ¹ , Katarzyna Samborska ¹ , ¹ Warsaw University of Life Sciences, Poland
P1.1.06	Evaluation of Moderate Electric Field (MEF) for pasteurization of pork sausages in a conductive casing Tesfaye Bedane*, James Lyng, University College Dublin, Ireland
P1.1.08	Moderate Electric Fields (MEF) application during the extraction of oleuropein from olive leaves Malikheh Khanlar, José V. García-Pérez, José Benedito, Juan A. Cárcel*, Universitat Politècnica De València, Spain
P1.1.10	Subchilled storage of Atlantic salmon fillets initially stored in refrigerated seawater for 7 days Sherry Stephanie Chan*, Bjørn Roth, Bjørn Tore Rotabakk, Nofima, Norway
P1.1.12	Effects of abiotic factors on the callus induction of Ecklonia cava for sustainable food production Gabriel Tirtawijaya ^{1,2} , Bertoka Fajar Surya Perwira Negara ^{1,2} , Jin-Hwa Lee ^{1,2} , Jae-Suk Choi ^{1,2*} , ¹ Silla University, South Korea, ² Seafood Research Center, South Korea
P1.1.14	Microwave processing of tahini pasteurization: Computational study for industrial system design Huseyin Topcam ¹ , Dilay Kutuk Ayhan ² , Eda Coskun ¹ , Ezgi Son ¹ , S. Aykut Aytac ² , Behic Mert ³ , Samet Ozturk ⁴ , Ferruh Erdogdu ^{1*} , ¹ Ankara University, Turkey, ² Department of Food Engineering, Hacettepe University, ³ Middle East Technical University, Turkey, ⁴ Gumushane University, Turkey
P1.1.16	Designing Continuous Flow Microwave System for Milk Pasteurization: A Computational Study with Experimental Validation Kubra Polat, Caner Tasci, Ozan Karatas, Ozan Altin, Ferruh Erdogdu*, Ankara University, Turkey
P1.1.18	Extraction of Raffinose Family Oligosaccharides from Pulse derived fractions and their Application in Fermentations Philipp Garbers ^{1*} , Sara Gaber ² , Catrin Tyl ¹ , Svein Halvor Knutsen ² , Bjørge Westereng ¹ , ¹ Norwegian University of Life Science, Norway, ² Nofima AS, Norwegian Institute of Food, Norway
P1.1.20	Application of young bamboo culm for the bioproduction of prebiotics, nanocellulose and bioethanol Marcos F. da Silva, Maria Teresa P. Silva Clerici, Rosana Goldbeck*, University of Campinas, Brazil
P1.1.22	Germination as green biotechnological process to enhance the nutritional and bioactive profile of oat grains Iván Jesús Jiménez-Pulido ^{1*} , Daniel Rico ¹ , Jara Pérez-Jiménez ² , Daniel de Luis ³ , Elena Peñas ² , Cristina Martínez-Villaluenga ² , Ana Belén Martín-Diana ¹ , ¹ Agricultural Technological Institute of Castile and Leon (ITACyL), Spain, ² Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Spain, ³ University of Valladolid, Spain
P1.1.24	Effect of High Pressure Homogenization on recovery kinetics of proteins from Chlorella pyrenoidosa Alexandros Katsimichas*, Ioulia Karveli, George Dimopoulos, Petros Taoukis, National Technical University of Athens, Greece
P1.1.26	Milling: a tool for changing the mechanical properties and structure of lentil heat-induced gels Alexandra Kremmyda*, Vincenzo Di Bari, Jo Gould, University Of Nottingham, United Kingdom
P1.1.28	Effect of N-glycosylation on catalytic properties of recombinant lipase from Cordyceps militaris Juno Lee ^{1*} , Namhyun Kim ¹ , Yoonseok Choi ¹ , Inwoo Park ¹ , Jihoon Kim ¹ , Pahn-Shick Chang ^{1,2} , ¹ Seoul National University, South Korea, ² Seoul National University, South Korea
P1.1.30	CO₂ gas hydrate technology as innovative, high energetic efficient process for fruit juices concentration process Soebiakto Loekman ^{1*} , Timo Claßen ² , Bernhard Gatterig ^{1,3} , Antonio Delgado ^{1,2} , ¹ German Engineering Research And Development Center, South Korea, ² Institute of Fluid Mechanics, FAU Erlangen-Nürnberg, Germany, ³ Hochschule Weihenstephan-Triesdorf, Germany
P1.1.32	Trans-anethol-loaded nanoemulsions and their stability during storage Erika Kamila Méndez Calderón ^{1*} , Ana Isabel Bourbon ¹ , Rui Pereira ¹ , Pablo Fuciños ¹ , Lorenzo Pastrana ¹ , Miguel Cerqueira ¹ , Vitor Alves ² , Diogo Figueira ³ , ¹ International Iberian Nanotechnology Laboratory, Portugal, ² FruLact, Portugal, ³ Mendes Gonçalves S.A, Portugal
P1.1.34	Effect of ultrasound disruption on lipid extraction from the microalga Nannochloropsis sp. Esther Mienis*, Dries Vandamme ² , Imogen Foubert ¹ , ¹ KU Leuven, Belgium, ² Hasselt University, Belgium
P1.1.36	Optimizing the formation of CO₂ hydrate on a laboratory scale Eric Morelle*, Alexander Rudolph, Christopher McHardy, Cornelia Rauh, Technische Universität Berlin, Germany
P1.1.38	Antioxidant profile and redox status of fresh-cut Eruca sativa treated with plasma activated water (PAW) Ileana Ramazzina ¹ , Silvia Tappi ² , Veronica Lolli ¹ , Pietro Rocculi ² , Massimiliano Rinaldi ^{1*} , ¹ Università Di Parma, Italy, ² Università di Bologna, Italy
P1.1.40	Extended raw milk shelf-life and safety by hyperbaric storage at room temperature during 60 days Jorge Saraiva ^{1*} , Ricardo Duarte ¹ , Carlos Pinto ¹ , Susana Casal ² , José Lopes-da-Silva ¹ , Ana Gomes ³ , Ivonne Delgadillo ¹ , ¹ University of Aveiro, Portugal, ² University of Porto, REQUIMTE Porto, Portugal, ³ Portuguese Catholic University, Portugal
P1.1.42	Effect of frozen storage time and thawing rate on thaw-rigor and quality of salmon fillets Bjørn Tore Rotabakk ¹ , Lars Helge Stien ² , Torstein Skåra ^{1*} , ¹ Nofima, Norway, ² Institute of Marine Research, Norway

P1.1.44	Antimicrobial compounds-assisted thermal treatment in low moisture food matrices and the corresponding bacterial resistance mechanism Qiao Ding ¹ , Chongtao Ge ² , Robert Baker ² , Robert Buchanan ¹ , Rohan Tikekar ^{1*} , ¹ University of Maryland, United States, ² The Mars Global Food Safety Center, China	P1.4.10	Kinetic study of quality indices modification of chicken breast during cooking Giulia Romano ^{1,2*} , Maria Cristina Nicoli ¹ , Arianna Bozzato ² , Daniele Turrin ² , Monica Anese ¹ , ¹ University Of Udine, Italy, ² Electrolux Professional SPA, Italy
P1.1.46	Modelling the Radio Frequency inactivation of Salmonella Typhimurium in Skimmed and Whole Milk Powder Maria Tonti ^{1*} , Davy Verheyen ¹ , Dmytro Kozak ¹ , Torstein Skåra ² , Jan Van Impe ¹ , ¹ KU Leuven, Belgium, ² NOFIMA, Norway	P1.4.12	Simultaneous parameter estimation in primary stage of freeze drying of bulk blueberries Sylvia Schenck*, Adrián Ferrari, Sofía Barrios, Patricia Lema, Universidad De La Republica, Uruguay
P1.2.02	Phenolic compound profiles and antioxidant concentrations in Lettuce grown under AI developed LED light recipes Gultekin Hasanaliyeva*, Gadelhag Mohmed, Chungui Lu, Nottingham Trent University, United Kingdom	P1.4.14	Toolbox for coupling structure modification with physicochemical characteristics and functional properties Yuqi Zhang*, Åsmund Rinnan, Vibeke Orlien, University of Copenhagen, Denmark
P1.2.04	Gloss estimation of chocolate sprinkles with hyperspectral imaging Pedro Ródenas-Perez ^{1*} , Carolina Blanch-Perez-del-Notario ² , Eric López-López ¹ , Roi Méndez-Rial ¹ , ¹ AIMEN Technology Centre, Spain, ² IMEC, Belgium	P2.1.02	Understanding flavor release and perception of meat analogs in relation to structure and oral breakdown Rutger Brouwer*, Elke Scholten, Ciarán Forde, Markus Stieger, Wageningen University & Research, Netherlands
P1.3.02	Complete mechanical characterization of meat samples using shear wave elastography: preliminary results Eliana Budelli ^{1*} , Javier Brum ² , Patricia Lema ¹ , Carlos Negreira ² , ¹ Instituto de Ingeniería Química, Uruguay, ² Universidad de la República, Uruguay	P2.1.04	Can flavor-imparting (bio)chemical reactions in vegetables be steered by targeted processing steps? Sophie Delbaere*, KU Leuven, Belgium
P1.3.04	Development of antioxidant-rich sweet potato yoghurt using the orange-fleshed 'Bophelo' sweet potato (<i>Ipomea batatas</i>) Yvonne Maila*, Mildred Raphaelalani, Samuel Mphosi, University Of Limpopo, South Africa	P2.1.06	Spray drying of herbs with basil as model system Julia Heimbach ^{1*} , Yanyan Zhang ² , Reinhard Kohlus ¹ , ¹ University of Hohenheim, Germany, ² Department of Flavor Chemistry, University of Hohenheim, Germany
P1.3.06	Model validation, design, implementation and real-time process control of a continuous flow ohmic heater Oluwaloba Oluwole-Ojo ^{1,2*} , Hongwei Zhang ^{1,2} , Martin Howarth ^{1,2} , Xu Xu ^{1,2} , ¹ Sheffield Hallam University, United Kingdom, ² National Center of Excellence for Food Engineering, United Kingdom	P2.1.08	Accelerated micro-oxygenation aging of balsamic vinegar – A kinetic study George Katsaros*, Varvara Andreou, Marianna Giannoglou, Zacharoula Maria Xanthou, Maria Metafa ¹ , Institute Of Technology Of Agricultural Products Elgodemeter, Greece
P1.4.02	Computational Approach for Radio Frequency Pasteurization Process of Peanut Butter with an Improved Temperature Uniformity Eda Coskun ¹ , Samet Ozturk ² , Kubra Polat ¹ , Caner Tasci ¹ , Rui Li ³ , Shaojin Wang ³ , Shuxiang Liu ⁴ , Ferruh Erdogdu ^{1*} , ¹ Ankara University, Turkey, ² Gumushane University, Turkey, ³ College of Mechanical and Electronic Eng. Northwest A&F University, China, ⁴ Sichuan Agricultural University, China	P2.1.10	Decrypting phenomena and transfers involved in the transformation of kidney beans to drive their processing Emilie Korbel*, Villamarin-Spataro Alejandro, Benoit Jaillais, Jean-Yves Monteau, Alain Le Bail, UMR GEPEA-ONIRIS, France
P1.4.04	Food loss and waste in seafood value chains: causes, volumes and environmental cost Sepideh Jafarzadeh*, Shraddha Mehta, Magnus Stoud Myhre, Maitri Thakur, Ana Carvajal, Andrea Viken Strand, Sintef Ocean, Norway	P2.1.12	How preservatives affect exopolysaccharide formation of starter cultures in food matrices: Lauric arginate (LAE) Myriam Loeffler ^{1*} , Sabine Koumarasy ² , Jochen Weiss ² , Sophie Libberecht ¹ , ¹ KU Leuven, Belgium, ² University of Hohenheim, Germany
P1.4.06	Simplified heat transfer modelling for temperature prediction in an insulated box equipped with PCM Tanathep Leungtongkum ^{1,2*} , Onrawee Laguerre ¹ , Denis Flick ² , ¹ Université Paris-Saclay, INRAE, FRISE, France, ² Université Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, France	P2.1.14	Trained Panel Descriptive Analysis of Dairy Products from Different Feeding Regimes and Lactation Stages Lauren Mcguinness ^{1,2*} , Mark Timlin ^{1,3,4} , Andre Brodkorb ^{1,3} , Dolores O'Riordan ^{1,2} , Emma Feeney ^{1,2} , ¹ Food For Health Ireland, Ireland, ² UCD Institute of Food and Health, Ireland, ³ Teagasc Food Research Centre, Ireland, ⁴ UCD School of Agriculture and Food Science, Ireland
P1.4.08	A Simple Mathematical Model on Continuous Ohmic Heating Systems for Strawberry Nectar Dario Javier Pavon-Vargas ^{1,2*} , Karen Louise Lacey ¹ , Andres Felipe Moreno Barreto ³ , Mario Gozzi ² , Luca Cattani ¹ , Massimiliano Rinaldi ¹ , Sara Rainieri ¹ , ¹ Università degli Studi di Parma, Italy, ² CFT S.P.A, Italy, ³ Experimental Station for Food Preserving Industry, Italy	P2.1.16	Development and characterization of imitation yoghurt from blends of pigeon pea and almond seed milks Tolulope Oresanya*, Hannah Olaleye, Femi Akinwande, Nofisat Adewale, Yaba College of Technology, Nigeria
		P2.1.18	Use of sensors and models for the prediction of meat colour Jason Sicard ^{1*} , Alain Kondjoyan ¹ , Fabrice Audonnet ² , Valérie Scislowski ³ , ¹ INRAE, France, ² Institut Pascal, Université Clermont Auvergne, CNRS, France, ³ ADIV, France
		P2.1.20	Double emulsions stabilized with cocoa butter fat crystals as Pickering particles Elizabeth Tenorio Garcia ^{1*} , Anwesha Sarkar ¹ , Elena Simone ² , Michael Rappolt ¹ , ¹ University Of Leeds, United Kingdom, ² Politecnico di Torino, Italy

P2.2.02	Potential of sorghum in gluten-containing and gluten-free products: Effects on the thermomechanical properties of dough Etiene Aguiar ^{1*} , Valéria Queiroz ² , Cícero Menezes ² , Vanessa Capriles ¹ , ¹ Universidade Federal de São Paulo, Brazil, ² Embrapa Milho e Sorgo, Brazil
P2.2.04	Enrichment Of Model-Cheeses With Blackcurrant Or Cornelian Cherry Increases The Total Amount Of Polyphenols Jonas Andersen ^{1*} , Andrea Mancini ¹ , Maddalena Bosetti ¹ , Tiziana Nardin ² , Roberto Larcher ² , Elena Franciosi ¹ , ¹ Research and Innovation Centre, Fondazione Edmund Mach (FEM), Italy, ² Technology Transfer Centre, Fondazione Edmund Mach (FEM), Italy
P2.2.06	Lactoferrin – one of the natural inhibitory substances in milk and whey Klara Bartakova ^{1*} , Lenka Vorlova ¹ , Ivana Borkovcova ¹ , Pavlina Navratilova ¹ , Oto Hanus ² , Hana Nejeschlebova ² , ¹ University of Veterinary Sciences, Czech Republic, ² Dairy Research Institute, Czech Republic
P2.2.08	Composition of smoked oily fish on sale in Dublin Nigel Brunton [*] , Ronan Gormley, Sabine Harrison, Mark Long, UCD, Ireland
P2.2.10	Potential of orange juice co-product as a regulator of postprandial glycaemia Juan José Martínez-Lahuerta ² , Isabel Ustero ¹ , Eva García-Martínez ¹ , María del Mar Camacho ^{1*} , Nuria Martínez-Navarrete ¹ , ¹ Universitat Politècnica De València, Spain, ² Conselleria de Sanitat Universal i Salut Pública. Generalitat Valenciana., Spain
P2.2.12	Effects of Cooking Methods on 3D Printed Gluten-Free Chips Enriched with Beef Broth Hilal Sena YILDIRIM ¹ , İlayda İŞLEYEN ¹ , Pınar KADIOĞLU ŞENTÜRK, Kezban Candoğan [*] , Ankara University, Turkey,
P2.2.14	Development of healthy and personalized food solutions for 3D printing from fish by-products and microalgae Paula Fajardo ¹ , Marta Gómez-Lange ¹ , Federica Farabegoli ¹ , Martiña Ferreira ¹ , Mercedes Alonso ¹ , Patricia Parente ² , María-José Chapela ^{1*} , ¹ Anfaco-Cecopesca, Spain, ² Congelados Noribérica, Spain
P2.2.16	Understanding the effects of phenolic-starch interactions on phenolic acids inhibitory properties of alpha-amylase Adrian Samuel D'Costa [*] , Nicolas Bordenave, University Of Ottawa, Canada
P2.2.18	Does lower salt content affect the shelf life of meat products? Kateřina Dorotíková ^{1*} , Marta Dušková ¹ , Josef Kameník ¹ , ¹ University Of Veterinary Sciences, Czech Republic
P2.2.20	Impact of acid chemical properties on <i>Bacillus weihenstephanensis</i> germination and outgrowth inhibition in oil-in-water emulsion Agathe Dutoit [*] , Nicolas Decourcelle, Anne-Gabrielle Mathot, Louis Coroller, ¹ Université de Brest, INRAE, France
P2.2.22	Hemp seed milk sonication for enhanced beverage quality Laura Piazza, Francesca Giroto [*] , Elisa Masseroni, Ivan Testa, Università degli Studi di Milano, Italy
P2.2.24	Bi-functional chimeric enzyme for prebiotic xylo-oligosaccharides production from agricultural wastes Manoela Martins ¹ , Taísa M Dinamarco ² , Rosana Goldbeck ^{1*} , ¹ University of Campinas, Brazil, ² USP - University of São Paulo, Brazil
P2.2.26	The use of <i>G. geotrichum</i> to increase the amount of bioactive ingredients in fried cheese Anna Grygier [*] , Kamila Myszk, Artur Szwengiel, Kinga Stuper-Szablewska, Wojciech Białas, Magdalena Rudzińska, Poznań University Of Life Sciences, Poland
P2.2.28	Effect of hydrolysis and enzyme inactivation conditions on techno-functional properties of milk protein concentrate hydrolysates Mahrokh Jamshidvand ^{1*} , Owen Kenny ¹ , Richard FitzGerald ² , Maria Dermiki ¹ , ¹ Atlantic Technological University, Ireland, ² University of Limerick, Ireland
P2.2.30	Yoghurt acid whey marinating for improving tenderness and quality of beef chuck roast: process optimization George Katsaros ^{1*} , Dimitris Petropoulos ² , Varvara Andreou ¹ , George Theodorou ² , ¹ Institute Of Technology Of Agricultural Products Elgo-demetter, Greece, ² Agricultural University of Athens, Greece
P2.2.32	Thermal stability of new vegetable oils with a programmed ratio of ω6/ω3 fatty acids Dominik Kmiecik [*] , Magdalena Rudzińska, Aleksander Siger, Monika Fedko, Anna Grygier, Poznań University of Life Sciences, Poland
P2.2.34	Psyllium effect on physic-chemical characteristics of gluten free bread including apple pomace powder Leire Cantero ¹ , Jesús Salmerón ^{1,2,3} , Edurne Simon ^{1,2,3} , Silvia Matias ¹ , Jonatan Miranda ^{1,2,3} , Idoia Larretxi ^{1,2,3} , Marian Bustamante ^{2,3} , M ^a Pilar Fernández-Gil ² , Maialen Vazquez-Polo ¹ , Olaia Martinez ^{1,2,3*} , ¹ University of The Basque Country, Spain, ² University of the Basque Country, Spain, ³ Bioaraba Health Research Institute, Spain
P2.2.36	Elaboration of dried olive leaves for the preparation of healthy infusions Eduardo Medina Pradas ^{1*} , Eva María Ramírez Castro ¹ , Manuel Brenes Balbuena ¹ , Concepción Romero Barranco ¹ , Pedro García García ¹ , ¹ Instituto de la Grasa - CSIC, Spain
P2.2.38	Can samphire be the new salt?- understanding the saltiness perception of samphire Saumya Sood, Lisa Methven [*] , Qiaofen Cheng, University of Reading, United Kingdom
P2.2.40	Protein-enriched breads as an alternative dietary source of sustainable protein: Sensory properties and consumer acceptability Kim Millar ^{1*} , Laura Milner ² , Emer Garvey ³ , Kieran Kilcawley ³ , Emily Crofton ² , Róisín Burke ¹ , Sinéad McCarthy ² , Eimear Gallagher ² , Catherine Barry-Ryan ¹ , ¹ Technological University Dublin, Ireland, ² Teagasc Food Research Centre, Ireland, ³ Teagasc Food Research Centre, Ireland
P2.2.42	Cooking and in-vitro digestion effect on fatty acids in novel seafood pâtés from marine by-products Anita E. Furey, Ulrich Hoeche, Ciaran McLaughlin, Francesco Noci [*] , Atlantic Technological University, Ireland
P2.2.44	Effect of osmotic dehydration and edible coatings on the shelf-life and quality of fresh-cut potatoes Magdalini Krokida ^{1*} , Petros Andriotis ¹ , Zoi Tsakiri-Mantzorou ¹ , Christina Drosou ¹ , Alexandra Mari ¹ , Vasiliki Oikonomopoulou ¹ , Nickolaos Panagiotou ¹ , ¹ National Technical University of Athens, Greece
P2.2.46	Nutritional profile and sensory quality of snack bars from oat, sesame seed and coconut flours Tolulope Oresanya [*] , Hannah Olaleye, Aminat Ayoade, Sekinat Akinwande, Yaba College of Technology, Nigeria
P2.2.48	Enhancing the functionality of iron-fortified Hibiscus sabdariffa beverage: the potential role of liposomes Ade Oyewole [*] , Xingyang Qui, Levente Diosady, University Of Toronto, Canada
P2.2.50	Influence of polyphenols on coffee foam quality Christos Papageorgiou ^{1*} , Joanne Gould ¹ , Robert Farr ² , Borja R. Corrochano ² , Tristan Dew ¹ , ¹ University of Nottingham, United Kingdom, ² Jacobs Douwe Egberts R&D GB Ltd, United Kingdom

P2.2.52	Optimization of an olive oil emulsion for meat products fat replacement Luis Patarata ^{1*} , José-António Silva ¹ , Emilie Santos ² , ¹ CECAV – Veterinary and Animal Research Centre, Portugal, ² Universidade de Trás-os-Montes e Alto Douro, Portugal	P2.2.74	Microencapsulation improves probiotic survival under harsh conditions during model food storage Stamatia Vitsou Anastasiou ^{1,2*} , Olga S. Papadopoulou ¹ , Apostolos Karkos ^{1,2} , Anthoula A. Argyri ¹ , Agapi I. Doulgeraki ¹ , Nikos Chorianopoulos ¹ , George-John E. Nychas ² , Chryssoula C. Tassou ¹ , ¹ Institute Of Technology Of Agricultural Products, Hellenic Agricultural Organization- DIMITRA, Greece, ² Agricultural University of Athens, Greece
P2.2.54	Influence of a data-rich fiber extract on a dry-cured sausages snack model system José Angel Perez-Alvarez*, Laura Candela-Salvador, Clara Muñoz-Bas, Carmen María Botella-Martínez, Javier Andreu-Rodríguez, María Estrella Sayas-Barberá, Casilda Navarro-Rodríguez de Vera, Juana Fernández-López, Manuel Viuda-Martos ¹ , ¹ Miguel Hernández University, Spain	P2.2.76	Diacylglycerols as structuring agents in different oil systems Karin Wagner*, Maya Davidovich-Pinhas, Israel Institute of Technology, Israel
P2.2.56	Gastronomic plan to valorize date seeds as a functional ingredient of bread Marina Ramos*, Alfonso Jiménez, Mari Carmen Garrigós, ¹ University Of Alicante, Spain	P2.2.78	Design and evaluation of novel bigel systems with coconut and olive oil blends Konstantina Zampouni ^{1*} , Nikolaos Sideris ¹ , Efthymios Tsavdaris ¹ , Eugenios Katsanidis ¹ , ¹ Aristotle University of Thessaloniki, Greece
P2.2.58	Structure-function relationship of oat flour incorporated into wheat flour: Instrumental and Nutritional Quality Characterisation Mahmoud Rashed ^{1,2*} , Milica Pojčić ³ , Jesus M Frias ² , Eimear Gallagher ⁴ , Shivani Pathania ¹ , ¹ Teagasc Food Research Centre, Ireland, ² Technological University Dublin, Ireland, ³ University of NoviSad, Serbia, ⁴ Teagasc Ashtown Food Research Centre, Ireland	P2.2.80	Incorporation of natural antioxidants as ingredients in aquatic biomass powders Ioanna Semenoglou*, Maria Tsevdou, Alexandros Katsimichas, Athanasios Limnaios, Petros Taoukis, National Technical University of Athens, Greece
P2.2.60	Sustainability on bread: Fibre-rich currant pomace in fat-based spreads Anne-Marie Reißner*, Josefine Moser, Susanne Struck, Harald Rohm, Technische Universität Dresden, Germany	P2.3.02	Development of β-sitosterol and γ-oryzanol oleogel-based emulsions for enhancement of oral bioavailability of hydrophobic molecules Areen Ashkar ^{1*} , Maya Davidovich-Pinhas ^{1,2} , ¹ Faculty of Biotechnology and Food Engineering, Technion, Israel, ² Russell-Berrie Nanotechnology Institute, Technion, Israel
P2.2.62	Microalgae as high-protein ingredients in vegetable soups Albert Ribas-Agustí*, Josep Comaposada ² , Luís Guerrero ² , Anna Claret ² , Massimo Castellari ¹ , ¹ IRTA, Spain, ² IRTA, Spain	P2.3.04	Influence of chewing on in vitro and vivo starch digestion of brown rice and chickpeas Yao Chen ^{1*} , Markus Stieger ¹ , Edoardo Capuano ¹ , Ciarán Forde ¹ , Rene de Wijk ¹ , Wageningen University & Research, Netherlands
P2.2.64	Effects of proteases, solvents, and processing methods on kelp usability as a food ingredient Jan Thomas Rosnes ^{1*} , Johanna Liberg Krook ^{2,3} , Ingrid Maribu ^{1,4} , Dagbjørn Skipnes ¹ , Torstein Skåra ¹ , ¹ Nofima, Norway, ² Orkla Ocean, Norway, ³ Norwegian University of Life Sciences, Norway, ⁴ The Arctic University of Norway, Norway	P2.3.06	From processing to digestion- polyphenol's interactions and bioaccessibility in model systems Eden Eran Nagar ^{1*} , Avi Shpigelman ¹ , ¹ Technion IIT, Israel
P2.2.66	Impact of convective drying temperature on the rheological properties of avocado seed flour Cristina L.M. Silva*, Akshita Gupta, Sérgio Sousa, Universidade Católica Portuguesa, Portugal	P2.3.08	Capsicum oleoresin-loaded microparticles: formulation, toxicological study and in vitro digestibility Miriam Hubinger, Ana Gabriela da Silva Anthero, Bridget Hogg, Synead M. Ryan, Graham O'Neill, Jesus Maria Frias Celayeta, University Of Campinas, Brasil
P2.2.68	Combination of proteins to improve the chemical score in vegan food Alexander Stephan*, VAN HEES GmbH, Germany,	P2.3.10	Soybean oil organogelled emulsions as oral delivery systems of hydroxytyrosol and hydroxytyrosol alkyl esters Thaís Jordânia Silva ³ , Patricia Ramírez-Carrasco ² , Patricio Romero-Hasler ² , Eduardo Soto-Bustamante ² , Daniel Barrera-Arellano ³ , Paz Robert ² , Begoña Gimenez ^{1*} , ¹ University of Santiago of Chile, Chile, ² University of Chile, ³ University of Campinas, Brasil
P2.2.70	Liquid infant formula based on o/w emulsions formulated with buttermilk and processed by high-pressure homogenization Libni Turitich ^{1,2*} , Karina Rocha ¹ , Mary Cano-Sarabia ² , Antonio José Trujillo ¹ , ¹ Universitat Autònoma de Barcelona (UAB), Spain, ² Catalan Institute of Nanotechnology and Nanoscience (ICN ²), CSIC and The Barcelona Institute of Science and Technology (BIST), Spain	P2.3.12	Textural properties, microstructure and spectroscopic characterization of edible gelled systems Eugenios Katsanidis*, Konstantina Zampouni, Aristotle University of Thessaloniki, Greece
P2.2.72	Interest of malted flour for flat bread application: impact of heating-rate on staling Alejandra Velasquez Barillas*, Alain Le-Bail, Luc Saulnier, Eve-Anne Norwood, Oniris, France	P2.3.14	Folic acid-loaded Hydroxypropyl methylcellulose micro and nanoparticles produced by electrospray Arlete Marques ^{1,2*} , Luís Abrunhosa ¹ , José Teixeira ¹ , Lorenzo Pastrana ² , Miguel A. Cerqueira ² , ¹ University of Minho, Portugal, ² International Iberian Nanotechnology Laboratory, Portugal

P2.3.16	Protein extraction from red and green seaweeds using enzymatic pre-treatment and subsequent bioactive peptide characterisation Ronan O'Brien ^{1*} , Pamela Walsh ² , Gary Sheldrake ³ , Brijesh K. Tiwari ⁴ , Maria Hayes ¹ , ¹ Teagasc Food Research Centre Ashtown, Ireland, ² Queen's University Belfast, UK, ³ School of Mechanical and Aerospace Engineering, UK, ⁴ Teagasc Ashtown Food Research Centre, Ireland	P2.4.14	Evaluation of the antirotaviral activity of milk extracellular vesicles using a human intestinal model Dimitra Graikini ^{1,3*} , Caroline Vangsoe ² , Ines Abad ^{1,3} , Lourdes Sanchez ^{1,3} , Jan Trige Rasmussen ² , ¹ University of Zaragoza, Spain, ² Aarhus University, Denmark, ³ AgriFood Institute of Aragon (IA ²), Spain
P2.3.18	Antioxidant activity of fruits of selected grapevines grown in Poland Remigiusz Oleđzki*, Joanna Harasym, Wroclaw University Of Economics and Business, Poland	P2.4.16	Antimicrobial activities of polysaccharide-rich extracts from the Irish seaweed <i>Alaria esculenta</i> against foodborne pathogens Ailbhe McGurrin ^{1*} , Julie Maguire ² , Rahel Suchintita Das ¹ , Brijesh K. Tiwari ³ , Marco Garcia Vaquero ¹ , ¹ University College Dublin, Ireland, ² Bantry Marine Research Station Ltd, Ireland, ³ Teagasc Ashtown Food Research Centre, Ireland
P2.3.22	Encapsulating quercetin with amorphous-semicrystalline inulin by spray-drying and releasing under in vitro simulated gastrointestinal conditions Alejandra Quintriqueo ^{1,2*} , Jesús Lozano ² , Estefanía González ³ , Begoña Giménez ⁴ , Paz Robert ¹ , ¹ Universidad de Chile, Chile, ² , Spain, ³ Universidad de O'Higgins, Chile, ⁴ Universidad de Santiago de Chile, Chile	P2.4.18	Bioactive Fucoxanthin from Edible Marine Algae: An Update on Biofunctional Evidence for Healthy Diet Md. Mohibbullah ^{1,2*} , Jae-Suk Choi ² , ¹ Sher-e-Bangla Agricultural University, Bangladesh, ² Seafood Research Center, Silla University, South Korea,
P2.3.24	Delivering nutraceutical flours through valorization of fruit peels using extrusion technology Ana Belén Martín-Diana ¹ , María J. García Casas ¹ , Jara Pérez-Jiménez ² , María I. Abadías ³ , Ingrid Aguiló-Aguayo ³ , Daniel Rico ^{1*} , ¹ Agrarian Technological Institute Of Castilla And Leon (itacyl), Spain, ² Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Spain, ³ IRTA, Parc Científic i Tecnològic Agroalimentari de Lleida, Spain	P2.4.20	Comparative metabolite profile and antioxidant potential of germinated wheat (<i>Triticum aestivum</i> L.) beverage during preparation Sewon Park ^{1*} , Bo ram Kim ¹ , Mi Jeong Kim ^{1,2} , ¹ Interdisciplinary Program in Senior Human Ecology, South Korea, ² Changwon National University, South Korea
P2.3.26	Effect of heating on textural and temperature sensitivity of casein gels Bo Yuan*, Elke Scholten, Guido Sala, Wageningen University & Research, Netherlands	P2.4.22	ACE inhibitory peptides from sustainable protein sources Lizeth Ospina Quiroga, Raúl Pérez Gálvez*, M.Carmen Almécija Rodríguez, Pedro J. García Moreno, F. Javier Espejo Carpio, Antonio Guadix, Emilia M. Guadix, University Of Granada, Spain
P2.4.02	Pressurized Hot Water Extraction, an Efficient Technique for Extracting Antioxidants from Ghanaian Fruits and Vegetables Agnes Aba Abakah ^{1*} , Johana Rondevaldova ¹ , Samuel Kwasi Boateng ² , Ebenezer Adu Yeboah ² , Katerina Vihanova ¹ , Ladislav Kokoska ¹ , ¹ Czech University of Life Sciences, Czech Republic, ² CSIR-Plant Genetic Resources Research Institute, Ghana	P2.4.24	Glucosinolates and potential antioxidant of broccoli (<i>Brassica oleracea</i>) as affected by different vacuum drying temperatures Antonio Vega-Galvez*, Elsa Uribe, Alexis Pastén, Luis Gómez-Pérez, Nicol Mejias, Javiera Camus, Michelle Rojas, Universidad De La Serena, Chile
P2.4.04	Determination of the potential health benefits of seaweed-derived oligosaccharides and polyphenols: Generation and characterisation strategies Dolly Bhati ^{1*} , Dilip K. Rai ¹ , Noel McCarthy ² , Maria Hyaes ¹ , ¹ Teagasc Food Research Centre, Ireland, ² Teagasc Moorepark Food Research Centre, Ireland	P2.5.02	Development of chocolates with functional ingredients as key drivers for health benefits Irina-Elena Chiriac ^{1*} , Montse Jorba ¹ , ¹ Leitat Technological Center, Spain
P2.4.06	Toxicity effects of crude phlorotannins and phloroglucinol in different bioassay models Bertoka Fajar Surya Perwira Negara ^{1,2} , Dicky Harwanto ³ , Gabriel Tirtawijaya ¹ , Maria Dyah Nur Meinita ⁴ , Jae-Suk Choi ^{1,2*} , ¹ Silla University, South Korea, ² Seafood Research Center, South Korea, ³ Diponegoro University, Indonesia, ⁴ Jenderal Soedirman University, Indonesia	P2.5.04	Mechanistic understanding of food protein fibrils: laying the groundwork towards their usage as techno-functional enhancers Joelle Housmans ^{1,2*} , Bert Houben ^{1,2} , Jan A. Delcour ² , Joost Schymkowitz ^{1,2} , Frederic Rousseau ^{1,2} , ¹ VIB-KU Leuven Center for Brain & Disease Research, Belgium, ² KU Leuven, Belgium
P2.4.08	Let's get Freekeh! The flavor profiles of Freekeh, a toasted, green Durum wheat Mediterranean product Alon Cna'ani*, Anna Balsby, Michael Bom Frøst, University Of Copenhagen, Denmark	P2.5.06	Comparison of protein quality of insect powders obtained by thermomechanical or by CO₂ supercritical processes Vanessa Jury ^{1*} , Sophie Laurent ¹ , Danneyvis Niyeldi Alarcon Gerdel ¹ , Marie de-Lamballerie ¹ , Francine Fayolle ¹ , ¹ Université de Nantes, France
P2.4.10	GABA-enriched synbiotic fermented milks: physicochemical, biological, structural, and sensory attributes Farhad Garavand ^{1*} , David Daly ¹ , Laura Mascaraque ¹ , ¹ Teagasc Moorepark Food Research Centre, Ireland, ² Abbott Nutrition, Ireland	P2.5.08	Understanding plant – salivary protein interactions to reduce astringency perception Hanna Lesme ^{1*} , Max Jansen ² , Bruno Correia ² , Francesco Stellacci ¹ , ¹ Institut of Materials, EPFL, Switzerland, ² Institute of Bioengineering, EPFL, Switzerland
P2.4.12	Submerged cultivation of <i>Ganoderma lucidum</i>, <i>Monascus purpureus</i> and in vitro comparative study of their bioactivity Chrysanthi Mitsagga, Ioannis Giavasis*, Konstantinos Petrotos ² , Athanasios Jamurtas, University of Thessaly, Greece	P2.5.10	Egg white amyloid fibrillation in the presence of sugars and its potential for protein functionality Margarita Monge-Morera ^{1*} , Frederic Rousseau ² , Joost Schymkowitz ² , Paula Moldenaers ³ , Jan A. Delcour ¹ , ¹ KU Leuven, Belgium, ² VIB Switch Laboratory, KU Leuven, Belgium, ³ Soft Matter, Rheology and Technology, KU Leuven, Belgium

P2.5.12	Evaluation of quinoa leaves as a protein source Sara Pérez-Vila ^{1,4*} , Francisca Acevedo ^{2,3} , André Brodkorb ¹ , Monica Rubilar ^{3,5} , Eduardo Morales ^{3,5} , Sofia González ^{3,5} , Mark A. Fenelon ^{3,5} , James A. O'Mahony ^{1,4} , Laura G. Gómez-Mascaraque ¹ , ¹ Teagasc Food Research Centre, Moorepark, Ireland, ² Universidad de La Frontera, Chile, ³ Universidad de La Frontera, Chile, ⁴ University College Cork, Ireland, ⁵ Universidad de La Frontera, Chile,	P2.6.20	Tailoring an extruded plant-based cereal product for seniors and studying its in vitro digestibility Leehen Mashiah*, Uri Lesmes, Carmit Shani-Levi, Omer Medini, <i>Technion Israel Institute of Technology, Israel</i>
P2.5.14	Thiamin, riboflavin, and folate retention in faba bean and lupine extrudates Aino Siitonen*, Minnamari Edelmann, Veronika Kallio, Katja Kantanen, Jose Martin Ramos Diaz, Kirsi Jouppila, Susanna Kariluoto, Vieno Piironen, ¹ University of Helsinki, Finland	P2.6.22	Hiding edible insects in wheat bread matrix – the acceptance case Agnieszka Orkusz ^{1,2*} , Joanna Harasym ^{1,2} , ¹ Wroclaw University of Economics and Business, Poland, ² Wroclaw University of Economics and Business, Poland
P2.5.16	Heat Gelation of Commercial Pea Protein Isolates Alice Tiong*, Warren Batchelor, Leonie van't Hag, <i>Monash University, Australia</i>	P2.6.24	Taste components in plant-based cheese alternatives Maria Jose Oruna-Concha*, Zoe Davis, Colette Fagan, <i>University of Reading, United Kingdom</i>
P2.6.02	Kelp on the menu: reduction of the high iodine content in brown seaweeds Cecilie Bay Wrenfeldt ^{1,2*} , Maria Stavnes Sletta ² , Maren Sæther ³ , Øystein Arlov ⁴ , Inga Marie Aasen ⁴ , Susan Løvstad Holdt ¹ , Turid Rustad ² , ¹ DTU Food, Denmark, ² NTNU, Department of Biotechnology and Food Science, Norway, ³ Seaweed Solutions, Norway, ⁴ SINTEF Industry, Norway	P2.6.26	Development and characterization of mixture of plant-based beverage Aline Rolim Alves Da Silva ^{1,2,3*} , Marselle Marmo do Nascimento Silva ^{3,5} , Ricardo Erthal Santelli ³ , Bernardo Ferreira Braz ³ , Bernardo Dias Ribeiro ⁴ , ¹ Sense Test, Portugal, ² University of Reading, United Kingdom, ³ Chemistry Institute, Federal University of Rio de Janeiro, Brazil, ⁴ Federal University of Rio de Janeiro, Brazil, ⁵ Advanced Food Technology Center, Brazil
P2.6.04	Developing Tasty and Nutritious Sustainable Foods Using Note by Note Cooking and 3D Food Printing Róisín Burke*, Pauline Danaher, Maria Peña Niebuhr, ¹ TU Dublin, Ireland	P2.6.28	3D-bioprinting: the development of plant-based protein bioinks for the creation of sustainable, cultivated meat structures Lisa Franke, Jens Kurreck, Cornelia Rauh, Robert Sevenich*, <i>Technische Universität Berlin, Germany</i>
P2.6.06	A Bicelle Nanocarrier for Improving Transmucosal Delivery of Non-water-soluble Compounds Sunghak Choi ^{1*} , Juchan Lee ¹ , Pahn-Shick Chang ¹ , Ho-sup Jung ¹ , ¹ Seoul National University, South Korea	P2.6.30	DIY protein fortification: what foods are suitable for UK older adults to fortify at home? Rachel Smith ^{1*} , Lisa Methven ¹ , Miriam Clegg ¹ , Alexia Geny ² , Øydis Ueland ³ , Guro Helgesdotter Rognså ³ , Ida Synnøve Grini ³ , Claire Sulmont-Rossé ² , ¹ University Of Reading, United Kingdom, ² INRAE, France, ³ Nofima, Norway
P2.6.08	Development of soy-yoghurts, containing functional vaginal lactobacilli and their investigation after digestion using postmenopausal donors Margherita D'Alessandro ^{1*} , Guadalupe Monserrat Alvarado-Jasso ² , Carola Parolin ³ , Beatrice Vitali ¹ , Rosalba Lanciotti ¹ , Miguel Gueimonde ² , Francesca Patrignani ¹ , ¹ University of Bologna, Italy, ² Instituto de Productos Lácteos de Asturias-Consejo Superior de Investigaciones Científicas (IPLA-CSIC), Spain	P2.6.32	Development and evaluation of an instrumental test to emulate the IDDSI testing method Nelum Pematilleke, Mandeep Kaur, Benu Adhikari, Peter Torley*, ¹ RMIT University, Australia
P2.6.10	Effect of kefiran, carrageenan, milk protein addition on the rheological properties of reconstituted kefir powder Stylianos Exarhopoulos*, Olga Groztidou, Despoina Georgiou, Athanasios Goulas, Georgia Dimitreli, <i>International Hellenic University, Greece</i>	P2.6.34	Optimising whey protein gels extrudability by complexation with citrus pectin for 3D food printing applications Ricardo Uribe-Alvarez ^{1,2*} , Craig Murphy ² , Caroline Coleman-Vaughan ² , Norah O'Shea ¹ , ¹ Teagasc Moorepark Food Research Centre, Ireland, ² Munster Technological University, Ireland
P2.6.12	Functional properties of African oil bean (<i>Pentaclethra macrophylla</i>) and melon (<i>Citrullus colocynthis</i>) seed protein isolates Blessing Nwokocha, Afroditi Chatzifragkou, Colette Catherine Fagan*, <i>University Of Reading, United Kingdom</i>	P3.1.02	Fungal and Aflatoxin Progression in Nixtamalized Maize Using Activated Charcoal Eniola Oni*, Adebukunola Omemu, <i>Federal University Of Agriculture, Nigeria</i>
P2.6.14	Impact of different plant or microbial enzymes on cheese analog production from soy milk Ana Gomes ^{1*} , Catarina Vila Real ¹ , Bruna Figueiredo ² , Sergio Sousa ¹ , ¹ Universidade Católica Portuguesa - Escola Superior de Biotecnologia, Portugal, ² White and Green Natural S.A., Portugal	P3.2.02	Consumers' perception of fish sustainability, the case of tuna Giovanni Fiorile ^{1*} , Sharon Puleo ¹ , Paolo Masi ¹ , Simona Mincione ² , Rossella Di Monaco ¹ , ¹ University Of Naples Federico II, Italy, ² ENCO Srl - Engineering & Consulting, Italy
P2.6.16	Application of bigels for fat reduction and delivery of essential oils in fermented sausages Georgios Kasiouras*, Konstantina Zampouni, Eugenios Katsanidis, <i>Aristotle University Of Thessaloniki, Greece</i>	P3.2.04	The use of a digital environment during official food safety inspection Eduard Grau-Noguer ^{1,2*} , Remo Suppi ³ , Maica Rodríguez-Sanz ^{2,4,5} , Jordi Serratosa ⁶ , Janne Lundén ⁷ , Mireia Colom ⁸ , Samuel Portaña ² , ¹ Barcelona Public Health Agency (ASPB) & Autonomous University of Barcelona (UAB), Spain, ² Public Health Agency, Spain, ³ Universitat Autònoma de Barcelona, Spain, ⁴ CIBER Epidemiología, Spain, ⁵ Institut d'Investigació Biomèdica (IIB Sant Pau), Spain, ⁶ Federal Institute for Risk Assessment, Germany, ⁷ University of Helsinki, Finland, ⁸ Public Health Service, Barcelona Provincial Council, Spain
P2.6.18	The removal of cholesterol content from milk and the production of low-cholesterol dairy products Lukáš Kolarič*, Peter Šimko, <i>Slovak University of Technology, Slovakia</i>		

P3.2.06	Evaluation of affine ligands for capture of Clostridium tyrobutyricum spores by magnetic particles in milk Miriam Esteban ^{1,2} , Patricia Galán-Malo ³ , Daniel Valdepérez ¹ , Luis Mata ³ , María Dolores Pérez ^{1,2} , Miguel Calvo ^{1,2} , Lourdes Sánchez ^{1,2*} , ¹ University of Zaragoza, Spain, ² Instituto Agroalimentario de Aragón IA ² (UNIZAR-CITA), Spain, ³ ZEULAB, S.L., Spain	P4.1.06	Recovery of bioactive compounds from fruit juice waste streams by industrial Ultrasound Assisted Extraction Loic G. Carvalho*, Alberto Fiore, M. Adilia Lemos, Boon-Seang Chu, Abertay University, United Kingdom
P3.2.08	Dietary silage from olive mill wastewater, grape pomace affects intestine and meat pork microflora Ioannis Skoufos ^{1*} , Christos Zacharis ¹ , Athina Tzora ¹ , Evangelia Gouva ¹ , Anastasios Tsinas ¹ , Georgios Magklaras ¹ , Ilias Giannenas ² , Ioannis Giavasis ³ , Eleftherios Bonos ¹ , ¹ University of Ioannina, Greece, ² Aristotle University of Thessaloniki, Greece, ³ University of Thessaly, Greece	P4.1.08	High-added value compounds obtained from fish waste using microorganisms endowed with proteolytic and lipolytic activity Marianna Ciccione*, Davide Gottardi, Giacomo Braschi, Lorenzo Siroli, Rosalba Lanciotti, Francesca Patrignani, University of Bologna, Italy
P3.2.10	Calcium transport and phytate hydrolysis during chemical hardening of common bean seeds Li Zhu ^{1*} , Ankita Mukherjee ¹ , Clare Kyomugasho ¹ , Dongyan Chen ¹ , Marc Hendrickx ¹ , ¹ KU Leuven, Belgium	P4.1.10	Microwave-assisted extraction of bioactive compounds from agro-food and fish by-products George Dimopoulos*, Maria Katsouli, Athina Ntzimani, Maria Tsevdou, Efimia Dermesonlouoglou, Virginia Giannou, Dimitrios Tsimogiannis, Petros Taoukis, National Technical University of Athens, Greece
P3.3.02	Rapid and non-destructive monitoring of fish freshness using Fourier transform infrared spectroscopy (FTIR) Youssef Elamine*, Patrícia Pinto, Liliana Anjos, Patrícia Lima, Elsa Couto, Adelino Canário, Deborah Power, ¹ Universidade da Algarve, Portugal	P4.1.12	Valorization of fruit and vegetable by-products as novel ingredients towards zero waste Shuyana Deba-Rementeria, Maider Zugazua-Ganado, Ziortza Agirrezabala, Olaia Estrada*, ¹ BCC Innovation, Technology Center in Gastronomy, Basque Culinary Center, Spain
P3.3.04	Impact of scanning rates on crystallization and melting profiles of hempseed (Cannabis Sativa L.) oils Mahbuba Islam*, Magdalena Rudzińska, Jolanta Tomaszewska-Gras, Poznań University of Life Sciences, Poland	P4.1.14	Supercritical carbon dioxide as an emerging tool for apple by products valorization Alessandra Gasparini ^{1*} , Lucrezia Angeli ¹ , Ksenia Morozova ¹ , Daniele Zatelli ² , Matteo Scampicchio ¹ , Giovanna Ferrentino ¹ , ¹ Free University of Bozen-Bolzano, Italy, ² VOG Products, Italy
P3.3.06	Hyperspectral imaging and deep learning for evaluating adulteration in meats Ahmed Rady ^{1,2*} , Akinbode Adedeji ³ , ¹ Teagasc, Ireland, ² University of Nottingham, United Kingdom, ³ University of Kentucky, USA	P4.1.16	Active antioxidant gelatin films composed by coffee parchment lignin nanoparticles Paula Olaran ¹ , M. Dolores del Castillo ² , M. Carmen Gómez-Guillén ¹ , Marta B. López-Parra ² , Amaia Iriondo-DeHond ² , Joaquín Gómez-Estaca ^{1*} , ¹ ICTAN-CSIC, Spain, ² CIAL-CSIC, Spain
P3.4.02	Modelling the potential exposure of C. difficile from retail foods in an Irish community setting Chloe Glennon ^{1*} , Declan Bolton ² , Paul Whyte ³ , Pilar Marcos ^{2,3} , T R Rogers ⁴ , Máire McElroy ⁵ , Aoife Doyle ^{4,5} , Seamus Fanning ⁶ , Molly Mitchell ³ , Jesus Frias ¹ , ¹ Technological University Dublin, Ireland, ² Teagasc Food Research Centre, Ireland, ³ University College Dublin, Ireland, ⁴ Clinical Microbiology, Trinity College Dublin, Ireland, ⁵ Central Veterinary Research Laboratory, Ireland	P4.1.18	Innovative approach for a deeper understanding of a model by-product emulsion stabilizing properties Charlotte Hollestelle ^{1*} , Camille Michon ² , Nathalie Fayolle ³ , Delphine Huc-Mathis ¹ , ¹ Université Paris-Saclay, INRAE, AgroParisTech, UMR SayFood, France, ² INRAE, France, ³ JRS Rettenmaier, France
P3.4.04	Effects on psychotropic B. cereus using pressure assisted thermal processing (PATP) Jan Thomas Rosnes ^{1*} , Saghar Safamanesh ² , Tone Mari Rode ¹ , ¹ Nofima, Norway, ² University of Stavanger, Norway	P4.1.20	Characterizing the dominant microbial communities of vegetal by-products from the food industry through their processing Rodrigo Costa, Margareth Renault, Charlotte Hollestelle, Delphine Huc-Mathis*, Françoise Irlinger, Université Paris-Saclay, INRAE, AgroParisTech, France,
P3.4.06	An exposure assessment of Diarrhetic Shellfish Poisoning arising from consuming Irish produced mussels Xiyao Wang*, Kevin Hunt, Francis Butler, University College Dublin, Ireland	P4.1.22	Green bioremediation of casein powder production waste by autotrophic microalgae growth Hossein Kiani ^{1,2*} , Yeganeh Azimi ² , Mohammad Mousavi ² , Fanny Cara ¹ , Ronald Halim ¹ , ¹ University College Dublin, Ireland, ² University of Tehran, Iran
P3.5.02	Immunoreactive properties of black elderberry (Sambucus nigra L.) Dorota Piasecka-Kwiatkowska*, Magdalena Helak, Dorota Walkowiak-Tomczak, Poznan University of Life Sciences, Poland	P4.1.24	Characterization of the gelling properties of protein from bovine co-product using the response surface methodology Rozenn Le Foll ^{1*} , Valérie Lechevalier ¹ , Xavier Lambert ² , Françoise Nau ¹ , ¹ Institut Agro Rennes-Angers, France, ² CORNILLE SAS, France
P4.1.02	Assessment of engineered subtilisin proteases in the hydrolysis of Atlantic salmon residuals Tone Aspevik ^{1*} , Yuleima Diaz ² , Øivind Larsen ² , Sushil Gaykawad ² , Silje Steinsholm ¹ , Åge Oterhals ¹ , Pål Puntervoll ² , Gro Elin Kjæreng Bjerga ² , ¹ Nofima AS, Norway, ² NORCE Norwegian Research Centre, Norway	P4.1.26	Increase of kokumi γ-glutamyl peptides in porcine hemoglobin hydrolysate using bacterial γglutamyltransferase Qian Li*, René Lametsch, University Of Copenhagen, Denmark,
P4.1.04	Freeze-drying processes applied to melon rinds to attain a value-added food ingredient Teresa Brandão ^{1*} , Sengly Sroy ¹ , Joana Fundo ¹ , Cristina Silva ¹ , Fátima Miller ¹ , ¹ Universidade Católica Portuguesa, Portugal	P4.1.28	Dissolution of Cellulose in Ionic Liquids to Enhance Valorisation Opportunities Bozena McCarthy*, Graham O'Neill, Nissreen Abu-Ghannam, Technological University Dublin, Ireland
		P4.1.30	Ethanol extraction of phospholipids in herring roe – optimization and co-extraction of unwanted compounds Åge Oterhals*, Lars Thoresen, Nofima, Norway,

P4.1.32	Screening of lactic acid bacteria to produce sustainable fermented whey-based drinks Marine Penland ^{1*} , Marie-Bernadette Maillard ¹ , Fabienne Lambrouin ¹ , Sandrine Parayre ¹ , Nadine Leconte ¹ , Olivier Cousin ² , Florence Valence ¹ , Geneviève Gésan-Guiziou ¹ , Stéphanie-Marie Deutsch ¹ , ¹ STLO, INRAE, Institut Agro, France, ² SODIAAL, France	P4.3.12	Designing of Active Packaging Incorporated with eucalyptus oil – TiO₂ and its application on cheese Shubham Sharma ^{1,2*} , Lily Mulrey ¹ , Kalpani Perera ^{1,2} , Swarna Jaiswal ^{1,2} , Amit Jaiswal ¹ , ¹ Technological University Dublin, Ireland, ² FOCAS Institute, Ireland
P4.1.34	High-pressure homogenization and partial cell wall polysaccharides extraction determine the texturizing potential of citrus by-products Novita Ika Putri [*] , Jelle Van Audenhove, Erika Bodniza Morales, Raymond Paul Nanseera, Ann Van Loey, Marc Hendrickx, <i>KU Leuven, Belgium</i>	P4.3.14	Rosmarinic extract vs rosmarinic acid for active food packaging system Nusrat Sharmin [*] , Amritha Johny, Rune Slimestad, Jan Thomas Rosnes, <i>Nofima AS, Norway</i>
P4.1.36	Evaluation Of Deep Eutectic Solvent Pretreatment Efficiency On Distiller's Dried Grains Semiu Abolore Rasaq [*] , Dileswar Pradhan, Swarna Jaiswal, Amit Jaiswal, <i>Technological University Dublin, Ireland</i>	P4.3.16	FitNESS 2.0 - Open courseware on food packaging Christophe Cotillon ¹ , Gemma Cornuau ¹ , Horst-Christian Langowski ² , Kata Galic ³ , Maria José Fabra ⁴ , Olivier Vitrac ⁵ , Jane Muncke ⁶ , Fatima Pocas ⁷ , Ilke Uysal Ünalan ⁸ , Thomas Karbowiak ⁹ , Catherine Lorient ¹⁰ , Frédéric Debeaufort ¹¹ , Cristina L.M. Silva ^{12*} , ¹ Actia, the French Network of Food Technology Institute, France, ² Fraunhofer IVV, Process Engineering and Packaging, Germany, ³ Laboratory for Food Packaging, UNIZG, Croatia, ⁴ Institute of Agrochemistry and Food Technology, CSIC, Spain, ⁵ UMR SayFood, INRAE, France, ⁶ Food Packaging Forum, Switzerland, ⁷ Universidade Católica Portuguesa, Portugal, ⁸ Aarhus University, Denmark, ⁹ Institut Agro Dijon, France, ¹⁰ Testing and certification directorate, LNE, France, ¹¹ University of Burgundy, France, ¹² Universidade Católica Portuguesa, Portugal
P4.1.38	Ensuring the safety of extracted proteins and novel food products Hitika Shah [*] , Lubna Ahmed, Catherine Barry-Ryan, <i>Technological University Dublin, Ireland</i> ,	P4.5.02	Assisting decision-making in resource recovery from food waste Paola Guzmán-Luna ^{1*} , Almudena Hospido ¹ , Mateo Saavedra del Oso ¹ , Alberte Regueira ^{1,2,3} , Miguel Mauricio-Iglesias ¹ , ¹ Universidad de Santiago de Compostela, Spain, ² Ghent University, Belgium, ³ CAPTURE, Belgium
P4.1.40	Macaba (Acrocomia aculeata) side streams: A sustainable source for innovative protein and fiber ingredients Sérgio Henrique Toledo E Silva ^{1,2*} , Lidiane Bataglia Silva ² , Stephanie Bader-Mittermaier ² , Peter Eisner ^{1,2,3} , ¹ Technical University of Munich (TUM), Germany, ² Fraunhofer Institute for Process Engineering and Packaging IVV, Germany, ³ Steinbeis Hochschule Berlin, Germany	P4.5.04	Environmental impacts of innovative sustainable agri-food value chains: rights, duties, potentialities of Life Cycle Assessment Samuel Le Féon ^{1*} , Caroline Pénicaud ¹ , Joël Aubin ² , Kavitha Shanmugam ³ , Karin Östergren ³ , Gwenola Yannou-Le Bris ¹ , ¹ INRAE-AgroParisTech UMR Sayfood, France, ² INRAE UMR SAS, France, ³ RISE Hållbar konsumtion och produktion II, Sweden
P4.1.42	Acid-based stabilisation of carrot pomace by instant organic acid addition and fermentation Baptiste Vanleenhove [*] , Elien De Laet, Ann Van Loey, Steven De Meester ³ , Katleen Raes, <i>Ghent University, Belgium</i>	P4.5.06	Environmental impact assessment of an Italian tomato processing industry with considering improvement scenarios Elham Eslami ^{1,2} , Gianpiero Pataro ^{1,2*} , Giovanna Ferrari ^{1,2} , ¹ Department of Industrial Engineering, University of Salerno, Italy, ² ProdAI Scarl, Italy
P4.1.44	Valorization of fish industry side stream via recovery and nano-encapsulation of ω-3 rich lipids Ioanna Semenoglou [*] , Maria Katsouli, Andreas Kontopoulos, Petros Taoukis, <i>National Technical University of Athens, Greece</i>	P5.2.02	The effect of polyphenol supplementation and high-pressure homogenization on yogurt alternative fermentation and polyphenol bioavailability Rachel Levy [*] , Zoya Okun, Avi Shpigelman, <i>Technion - Israel Institute of Technology, Israel</i>
P4.3.02	Identification of volatile spoilage indicators for pork packaged under modified atmospheres Linyun Chen [*] , Stefanus Tri Mardiansyah, Lotta Kuuliala, Mariem Somrani, Christophe Walgraeve, Frank Devlieghere, <i>Ghent University, Belgium</i>	P6.0.02	Integrating Cold Plasma Processes with Plant Essential oils to Control Microbiological Risks in Poultry Processing Soukaina Barroug [*] , Sonal Chaple, Sajad Shokri, Paula Bourke, <i>University College Dublin, Ireland</i>
P4.3.04	The effect of an active coating on mold growth and aflatoxin production in pistachio Milad Kamali ² , Zeinabossadat Ebrahimzadeh Mousavi ^{1,2*} , Seyed Mohammad ali Mousavi ² , ¹ University College Dublin, Ireland, ² University of Tehran, Iran	P6.0.04	Emerging technologies improving malt production: effects of ultrasound-assisted hydration and ethanol pre-treatment to convective drying Gisandro Carvalho ^{1*} , Bruna de Oliveira Gomes ¹ , Pedro E D Augusto ² , ¹ University of São Paulo, Brasil, ² Université Paris-Saclay, France,
P4.3.06	Chitin nanowhiskers addition and Maillard reaction as combined strategies to improve functionality of gelatin films Alaitz Etxabide ^{2,3} , Juan I. Maté ⁴ , Kilmartin Paul A. ³ , Joaquín Gómez-Estaca ^{1*} , ¹ ICTAN-CSIC, Spain, ² UPNA/EHU, Spain, ³ University of Auckland, New Zealand, ⁴ UPNA, Spain	P6.0.06	Effect of cold plasma on physicochemical properties of gum arabic and its microencapsulation with oil Sonal Chaple ^{1*} , John Jones ² , Swapnika Medikonda ¹ , Rebecca Rebello ¹ , Lokeswari Ramireddy ¹ , Edwin Carey ² , Paula Bourke ¹ , ¹ University College Dublin, Ireland, ² Technological University Dublin, Ireland,
P4.3.08	Biodegradable Active Bio-nanocomposite Film for the Enhanced Shelf life of Tomatoes Kalpani Y. Perera ^{1,2*} , Shubham Sharma ^{1,2} , Brendan Duffy ² , Amit K. Jaiswal ¹ , Swarna Jaiswal ¹ , ¹ Technological University Dublin, Ireland, ² FOCAS Institute, Technological University Dublin, Ireland		
P4.3.10	Sodium Alginate, Nanoclay And Curcumin Based Food Packaging Material For Intelligent Food Packaging Applications Kalpani Y. Perera ^{1,2*} , Máille Hopkins ¹ , Sharma Shubham ^{1,2} , Brendon Duffy ² , Amit K. Jaiswal ¹ , Swarna Jaiswal ¹ , ¹ Technological University Dublin, Ireland, ² FOCAS Institute, Technological University Dublin, Ireland		

P6.0.06	Slightly acidic electrolyzed water and high pressure processing extend refrigerated storage of <i>Meretrix lusoria</i> Tai Yuan Chen*, Dai An Hsieh, Guan Wen Chen, <i>National Taiwan Ocean University, Taiwan</i>	P6.0.28	High Pressure technology: application as pretreatment technique for green table olives debittering and fermentation acceleration George Katsaros*, Varvara Andreou, Sofia Chanioti, Panagiota Stergiou, ¹ <i>Institute of Technology of Agricultural Products Elgo-demeter, Greece</i>
P6.0.08	Exploring the impact of ultrasound and polysaccharidase enzyme on protein extraction from fresh <i>Alaria esculenta</i> Rahel Suchintita Das ^{1*} , Brijesh K. Tiwari ² , Marco Garcia-Vaquero ³ , ¹ <i>University College Dublin, Ireland</i> , ² <i>Teagasc Food Research Centre, Ireland</i> , ³ <i>University College Dublin, Ireland</i>	P6.0.30	Cold Atmospheric Plasma Processing for Quality Retention and Shelf-life Extension of Plant Foods George Katsaros ^{1*} , Marianna Giannoglou ¹ , Varvara Andreou ¹ , Sofia Chanioti ¹ , Zacharoula-Maria Xanthou ¹ , Panagiota Stergiou ¹ , Miltiadis Christopoulos ¹ , Panagiotis Dimitrakellis ² , George Kokkoris ² , Dimitrios Passaras ² , Evangelos Gogolides ² , ¹ <i>Institute of Technology of Agricultural Products ELGO-DEMETER, Greece</i> , ² <i>Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Greece</i>
P6.0.10	Effect of Pulsed Electric Fields on the Osmotic Dehydration of fresh-cut spinach leaves George Dimopoulos*, Konstantinos Balachtsis, Alexandros Katsimichas, Efimia Dermesonlouoglou, Petros Taoukis, <i>National Technical University of Athens, Greece</i>	P6.0.32	Antibacterial properties of Maillard reaction products against pathogenic bacteria Eisuke Maesaka, Kazuho Aonishi, Kento Koyama, Shige Koseki*, ¹ <i>Hokkaido University, Japan</i>
P6.0.12	Hybrid grey-box models for predicting microbial inactivation by nonthermal technologies in food systems Gianpiero Pataro ¹ , Giovanna Ferrari ^{1,2} , Francesco Donsi ^{1*} , ¹ <i>University Of Salerno, Italy</i> , ² <i>ProdAI scarl, Italy</i>	P6.0.34	Green Biobased Solvent and Ultrasound Assisted Extraction of Betalains and Phenols from Dried Beetroot Powder Rahul Kumar*, Lisa Methven, Keshavan Niranjana, Maria Jose Oruna Concha, <i>University of Reading, United Kingdom</i>
P6.0.14	High pressure processing (HPP) of phycocyanin: functionality, stability and strategies to mitigate functionality loss Marco Faieta ^{1*} , Chang Chen ² , Maria G. Corradini ² , Paola Pittia ¹ , ¹ <i>University Of Teramo, Italy</i> , ² <i>University of Guelph, Canada</i>	P6.0.36	High-pressure homogenization as a tool for stabilizing emulsions to produce a homogenous plant-based yogurt alternative Rachel Levy*, Zoya Okun, Avi Shpigelman, <i>Technion - Israel Institute of Technology, Israel</i>
P6.0.16	Improvement of ferrocyclase activity by using power ultrasound Blanca Abril ¹ , Ricard Bou ² , Virginia Sanchez-Jimenez ¹ , Jose V. Garcia-Perez ^{1*} , Jose Benedito ¹ , ¹ <i>Universitat Politècnica De Valencia, Spain</i> , ² <i>Institute of Agrifood Research and Technology, Spain</i>	P6.0.38	Effect of innovative extraction processes on protein functionality from duckweed in indoor farming systems Patricia Maag ^{1,2*} , Özlem Özmutlu Karslioglu ¹ , Claudia Siemer ³ , ¹ <i>University Of Applied Sciences Weihenstephan-Triesdorf, Germany</i> , ² <i>Technical University of Berlin, Germany</i> , ³ <i>Elea Technology Gmbh, Germany</i>
P6.0.18	Potential of High-Pressure Processing to Inactivate Pathogens in Cold Brew Coffee and Extend its Shelf-Life Mario González ^{1*} , Rodrigo García ² , Berta Polanco ¹ , Iris Valla ¹ , Dolores Rivero ² , Carole Tonello ¹ , ¹ <i>Hiperbaric S.A., Spain</i> , ² <i>University of Burgos, Spain</i>	P6.0.40	A novel UV-C device for effective disinfection of hard to reach surfaces Hanyu Chen, Carmen Moraru*, <i>Cornell University, United States</i>
P6.0.20	Impact of power ultrasound (frequency and power) on quality attributes of fresh-cut lettuce (cv. Vera) Magdalena Irazoqui ^{1*} , Sofia Barrios ² , Patricia Lema ² , ¹ <i>DQL - CenuR Litoral Norte - UdelaR, Uruguay</i> , ² <i>IIG - Facultad de Ingeniería - UdelaR, Uruguay</i>	P6.0.42	Physical and chemical properties of sonicated organic apples subjected to ultrasound-assisted drying Małgorzata Nowacka*, Katarzyna Rybak, Dorota Witrowa-Rajchert, Artur Wiktor, <i>Warsaw University of Life Sciences, Poland</i>
P6.0.22	Impact of Cold Plasma treatment on lipid oxidation and microbial inactivation in Mussels (<i>Mytilus galloprovincialis</i>) Lama Ismaiel ^{1*} , Cinzia Mannozi ¹ , Roberta Foligni ¹ , Silvia Tappi ² , Romolo Laurita ² , Luca Belleggia ¹ , Cristiana Cesaro ¹ , Andrea Osimani ¹ , Massimo Mozzon ¹ , ¹ <i>Università Politecnica Delle Marche, Italy</i> , ² <i>University of Bologna, Italy</i>	P6.0.44	The use of different non-thermal technologies to control biofilms on food industrial surfaces Paula Fernández-Gómez ¹ , Arturo B. Soro ² , Brijesh K. Tiwari ² , Mercedes López ¹ , Márcia Oliveira ^{1*} , ¹ <i>University Of León, Spain</i> , ² <i>Teagasc Food Research Centre, Ireland</i>
P6.0.24	Effect of HPP and temperature on the antioxidant activity of wheat and oat bran ingredients Iván Jesús Jiménez-Pulido ^{1*} , Daniel Rico ¹ , Daniel de Luis ² , Cristina Martínez-Villaluenga ³ , Ana Belén Martín-Diana ¹ , ¹ <i>Agricultural Technological Institute of Castile and Leon (ITACyL), Spain</i> , ² <i>University of Valladolid, Spain</i> , ³ <i>Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Spain</i>	P6.0.46	Biorefinery cascade of microalgae <i>A. platensis</i> and <i>C.vulgaris</i> Carullo Daniele ¹ , Francesco Donsi ¹ , Giovanna Ferrari ^{1,2} , Gianpiero Pataro ^{1*} , ¹ <i>University of Salerno, Italy</i> , ² <i>ProdAI scarl, Italy</i>
P6.0.26	Effect of High Pressure and pH-value on polysaccharides extraction from <i>Arthrospira platensis</i> (Spirulina) fresh biomass George Katsaros*, Marianna Giannoglou, Eleni Kougia, Varvara Andreou, Ioanna Thanou, Giorgos Markou, <i>Institute of Technology of Agricultural Products Elgo-Demeter, Greece</i>	P6.0.48	Influence of ultrasonication in plant-based proteins and nanoemulsions made thereof Rui C. Pereira ^{1*} , Arlete M. Marques ^{1,2} , Marta V. Vieira ¹ , Ana I. Bourbon ¹ , Kamila Calderón ¹ , Pablo Fuciños ¹ , Diogo Castelo-Branco ³ , Ana Tasso ³ , Diogo Figueira ³ , Lorenzo M. Pastrana ¹ , Miguel A. Cerqueira ¹ , ¹ <i>International Iberian Nanotechnology Laboratory (INL), Portugal</i> , ² <i>University of Minho, Portugal</i> , ³ <i>Mendes Gonçalves, S.A., Portugal</i>
		P6.0.50	Effect of Non-thermal plasma exposure on the functional and dough properties of protein-enriched cereal flours Lokeswari Ramireddy ^{1*} , Sonal Chapple ¹ , John Jones ² , Ed Carey ² , Paula Bourke ¹ , ¹ <i>University College Dublin, Ireland</i> , ² <i>Technological University Dublin, Ireland</i>

P6.0.52	Valorisation of fruit and vegetable surplus into soup and juice treated by high hydrostatic pressure Albert Ribas-Agustí*, Anna Jofré, Sara Bover-Cid, IRTA, <i>Food Safety and Functionality Programme, Spain</i>
P6.0.54	Microstructural changes of <i>Vanilla planifolia</i> induced by high hydrostatic pressure applied during the curing process Katia Rivero ^{1*} , Darío Téllez ¹ , Zamantha Escobedo ² , ¹ <i>Instituto Politécnico Nacional, México</i> , ² <i>Tecnológico de Monterrey, México</i>
P6.0.56	Plasma Treated Water: Scaling Efficacy from Bench to Pilot to Industry for Fresh Produce Uta Schnabel ^{1*} , Andreas Ell ² , Clemens Morath ³ , Oliver Schlüter ⁴ , Paula Bourke ⁵ , Jörg Ehlbeck ¹ , ¹ <i>Leibniz Institute for Plasma Science and Technology, Germany</i> , ² <i>KRONEN GmbH, Germany</i> , ³ <i>GARTENFRISCH Jung GmbH, Germany</i> , ⁴ <i>Leibniz Institute for Agricultural Engineering and Bioeconomy, Germany</i> , ⁵ <i>University College Dublin, Ireland</i>
P6.0.58	Reaction kinetics at elevated pressures: The structure-dependent manifestation of elevated pressure on polyphenol degradation Avi Shpigelman*, Or Shapira, Zoya Okun, <i>Faculty of biotechnology and food engineering, Technion, Israel</i> ,
P6.0.60	Applying ultraviolet light-emitting diode technology for reducing <i>Campylobacter</i> and <i>Salmonella</i> in chicken meat Arturo B. Soro ^{1,2*} , Sajad Shokri ¹ , Ming Ming Yem ¹ , Rui Chao ¹ , Soukaina Barroug ¹ , Paul Whyte ¹ , Declan J. Bolton ² , Paula Bourke ¹ , Brijesh K. Tiwari ² , ¹ <i>University College Dublin, Ireland</i> , ² <i>Teagasc Ashtown Food Research Centre, Ireland</i>
P6.0.62	Impact of Pulsed Electric Field (PEF) on Vegetable Processing: Case Study on Carrot Processing Arisa Thamsuaidee*, Alica Lammerskitten, Claudia Siemer, Stefan Töpfl, <i>Elea Technology GmbH, Germany</i>
P6.0.64	Optimization and upscaling of non-thermal atmospheric plasma for decontamination of (a) biotic surfaces Yijiao Yao*, Jörg Ehlbeck, <i>Leibniz Institute For Plasma Science And Technology (INP), Germany</i>
P6.0.66	Optimization of bioactive compounds from marigold flower using ultrasound-assisted extraction by response surface methodology Kitipong Assatarakul*, Nilar Oo, <i>Chulalongkorn University, Thailand</i>

Presenting author index

A			
Abad, Inés	P2.4.01	Ben David, Maayan	O23.3
Abakah, Agnes Aba	P2.4.02	Bessadok, Boutheina	O9.4
Aghababaei, Fatemeh	P2.3.01, O11.3	Bhati, Dolly	P2.4.04
Agirrezabala, Ziortza	P5.2.01	Biant, Lucas	O17.4
Aguiar, Etiene	P2.2.01, P2.2.02, P2.2.03	Bickel Haase, Thomas	P4.1.03
Ahrné, Lilia	P6.0.01	Bilek, Jaromir	N6.1
Ajibade, Betty	P2.1.01, P3.1.01	Böck, Theresa	S01.5
Al-Shemmeri, Mark	O7.2	Bou Habib, Michèle	O13.2
Alba-Elías, Fernando	P1.1.01	Bourke, Bríd	O24.5
Albrecht, Antonia	P4.3.01	Boyko, Nadiya	S04.2
Alinovi, Marcello	O1.4, P2.5.01, P2.6.01	Brandão, Teresa	P4.1.04
Andersen, Jonas	P2.2.04	Brenes, Manuel	P2.2.07
Angarita-Zapata, Juan S.	S10.6	Briand-Decré, Gwenaëlle	O10.4
Anjos, Liliana	P1.1.02	Brouwer, Rutger	P2.1.02
Anso Blanco, Raul	P1.4.01	Brown, Fran	P2.1.03
Anyasi, Tonna Ashim	P2.4.03	Bruins, Marieke	O26.2
Artusio, Fiora	O9.6	Brunton, Nigel	P2.2.08
Asamoah, Eugenia Ayebea	P1.1.03	Brütsch, Linda	P2.6.03
Ashkar, Areen	P2.3.02	Budelli, Eliana	P1.3.02
Aspevik, Tone	O22.2, P4.1.01, P4.1.02	Buecking, Mark	O5.3
Assatarakul, Kitipong	N4.5, P6.0.66	Burgess, Kaye	S09.6
Augustyniak, Aleksandra	S03.3	Burke, Róisín	P2.6.04
Austrich Comas, Anna	P3.3.01	Burzaco, Patricia	P4.5.01
Axon, Robert	N6.1	Butler, Ian	P4.1.05
Ayoub, Hawraa	O15.3	C	
B		Caballero, Victoria	O13.6
Bai, Yeming	P2.2.05	Camacho, María del Mar	P2.2.09, P2.2.10, P2.4.05
Bánáti, Diána	N5.1, N9.1, S04.4	Candoğan, Kezban	O18.5, P2.2.11, P2.2.12
Banta, Russell	O22.5	Canelli, Greta	P1.1.07
Baranda Gonzalez, Ana	O1.3	Carballido, Laura	O2.5
Barańska, Alicja	P1.1.04	Cárcel, Juan A.	S02.2, P1.1.08, P6.0.03
Barroug, Soukaina	P1.1.05, P6.0.02	Carini, Eleonora	P2.2.13
Bartakova, Klara	P2.2.06, P3.2.01	Carlóni, Elisa	S10.5
Bashir, Khawaja Muhammad Imran	O8.4	Carvalho, Gisandro	O11.2, P6.0.04
Bay Wirenfeltdt, Cecilie	P2.6.02	Carvalho, Loic G.	N4.3, P4.1.06
Beck, Tobias	O19.4	Carvalho, Lucia Maria Jaeger	P1.1.09
Becker, Deborah	P1.3.01	Casey, John	N5.1
Bedane, Tesfaye	S02.1, P1.1.06	Cassuriaga Dias, Beatriz	S05.6
Bedre-dine, Safia	O7.3	Castanha, Nanci	P2.3.03
		Cera, Silvia	P.01

Chan, Sherry Stephanie	P1.1.10	Dhenge, Rohini	N2.3, P6.0.09
Chapela, María-José	P2.2.14, P2.6.05	Díaz-Martínez, Cristina	O9.3
Chaple, Sonal	N2.2, P6.0.06	Dimakopoulou-Papazoglou, Dafni	O21.5
Charisis, Christos	P1.3.03	Dimopoulos, George	N4.2, P4.1.10, P6.0.10, P6.0.11
Chen, Linyun	P4.3.02	Donsì, Francesco	P6.0.12
Chen, Tai Yuan	P4.1.07, P6.0.06	Dorotíková, Kateřina	P2.2.18
Chen, Yao	P2.3.04	Doshi, Nirzar	P2.2.19
Cheng, Yue	O13.5	Drudi, Federico	P6.0.13
Chiriac, Irina-elena	P1.1.11, P2.5.02	Duconseille, Anne	P2.3.05
Choi, Jae-Suk	P1.1.12, P2.4.06, P2.4.07	Dunne, Joe	N5.2
Choi, Sunghak	P2.6.06	Duta, Denisa E.	S09.5
Choi, Yoonseok	O7.5	Dutoit, Agathe	P2.2.20
Ciccione, Marianna	P4.1.08	E	
Civera, Alba	O17.3	Ebrahimzadeh Mousavi, Zeinabossadat	O13.3, P2.2.21, P4.3.04
Clement, Heliciane	O12.5	Echeverría, Inés	S10.3
Cna'ani, Alon	P2.4.08	Elamine, Youssef	P3.3.02
Conway, Marie	O24.3	Er, Gamze	O6.2
Cortesi, Adeline	P2.6.07	Eran Nagar, Eden	P2.3.06
Costantini, Alice	P2.2.15	Erdem, Naz	P.03
Cummins, Enda	S08.1	Erdogdu, Ferruh	O25.1, N8.2, P1.1.14, P1.1.15, P1.1.16, P1.4.02, P1.4.03
Cunha, Luís M.	O14.2	F	
Cutroneo, Sara	P.02	Esmaelian, Sara	O7.4
D		Espinosa, Hugo	P2.3.07
D'Alessandro, Margherita	P2.6.08	Estrada, Olaia	P4.1.11, P4.1.12
D'Costa, Adrian Samuel	P2.2.16	Evans, Rhodri	N5.2
Da Quinta, Noelia	O16.3, S06.4	Exarhopoulos, Stylianos	P2.6.10, P2.6.11
Dadan, Magdalena	P6.0.07	F	
Dahl, Julie Frost	O20.4	Fagan, Colette Catherine	P2.6.12
Danaher, Jessica	O16.6	Fahrner, Lisa	P2.5.03
Daoud, Natacha	P4.3.03	Faieta, Marco	P6.0.14
Das, Rahel Suchintita	P6.0.08	Fanari, Fabio	S01.3
Davidovich-Pinhas, Maya	O27.5	Feichtinger, Annika	O18.3
De Angelis, Davide	O14.4, P4.1.09	Feliciano, Rodney	S08.4
de Santa Pau, Enrique Carillo	S07.5	Feng, Ran	O18.4, P.04
de Vries, Hugo	S09.2	Fernández Gómez, Paula	O13.4
Debonne, Els	P2.6.09	Fernandez-lopez, Juana	P2.6.13
Del Casale, Antonio	S06.3	Finglas, Paul	S07.1
Delbaere, Sophie	P2.1.04	Fiorile, Giovanni	P3.2.02
Delgado, Amélia	P2.2.17, P2.4.09	Fox, Shelley	O28.4
Deng, Boxin	P1.1.13		
Dermiki, Maria	O28.3		
Deutsch, Stéphanie	O27.3		

Frank, Jennifer	P1.2.01
Fraqueza, Maria João	O9.2, P1.1.17
Frias Celayeta, Jesus	P2.3.08
Frias, Ana	O10.3
Fryer, Peter	O19.2
G	
Gabler, Anna Maria	O1.2
Galea, Russell	O2.3
Garavand, Farhad	P2.4.10
Garbers, Philipp	P1.1.18
García Rodríguez, Sandra	P4.1.13
García-García, Pedro	P3.4.01
García-Moreno, Pedro J.	P2.4.11
Garcia-Perez, Jose Vicente	N3.2, S02.3, P6.0.16
Garcia, Adrien	P6.0.15
Gaspari, Sotiria	P5.5.01
Gasparini, Alessandra	P4.1.14
Georgiou, Zoi	S05.5
Giancaterino, Marianna	N9.2, P1.1.19, P6.0.17
Gianotti, Andrea	O12.3
Giavasis, Ioannis	P2.4.12, P4.3.05
Gibney, Eileen	S07.3
Gillespie, James	O2.4
Gimenez, Begoña	P2.3.09, P2.3.10
Giroto, Francesca	P2.2.22, P4.1.15
Gkavrou, Marianna	S10.4
Glennon, Chloe	P3.4.02
Godefroidt, Thibault	P2.2.23
Goldbeck, Rosana	P1.1.20, P2.2.24
Golodnizky, Daniel	P15
Gomes, Ana	P2.2.25, P2.6.14
Gomes, Rachel Louise	P3.2.03
Gómez-Estaca, Joaquín	P2.4.13, P4.1.16, P4.1.17, P4.3.06
Gonzalez, Mario	N6.2, P6.0.18
Gottardi, Davide	S03.1
Graikini, Dimitra	P2.4.14
Grau-Noguer, Eduard	P3.2.04
Greene, Ellen	O24.6
Grigoriadis, Vasilis	O4.3
Grunert, Klaus	N5.1
Grygier, Anna	P2.2.26
Guénard-Lampron, Valérie	P2.1.05

Guldas, Metin	O24.2
Guneysu, Zeyneb	O4.4
Gurusamy, Revathy	P3.4.03
Guzmán-Luna, Paola	S08.7, P4.5.02
H	
Hafner, Dominic	O26.5
Hamzalioglu, Aytul	O8.5
Han, Xiaocui	O27.2
Harasym, Joanna	P2.3.11, P6.0.19
Hasanaliyeva, Gultekin	N9.5, P1.2.02
Hazal, Filiz	O25.5, S04.5
Heimbach, Julia	P2.1.06
Henchion, Maeve	N5.1
Hendrickx, Marc	N7.1
Hengevoss, Dirk	S03.5
Hetti Hewage, Anuruddika	P1.1.21
Hollestelle, Charlotte	P4.1.18, P4.1.19
Holzer, Magdalena	O8.3
Hooyberghs, Kathleen	P2.2.27
Housmans, Joelle	P2.5.04
Hovorka, Kristin	O19.5
Huc-mathis, Delphine	P4.1.20
Hunt, Kevin	O21.3, P3.3.03
I	
Idowu, Anthony	P2.5.05
Iranshahi, Kamran	O11.4
Irazoqui, Magdalena	P6.0.20
Isaías, Ricardo	O1.5
Islam, Mahbuba	P3.3.04
Islam, Md Saiful	P6.0.21
Ismaiel, Lama	P6.0.22
Iturmendi, Nerea	O22.6
Ivanov, Ivan	P2.1.07
J	
Jafarzadeh, Sepideh	O4.5, P1.4.04
Jahn, Alexander	P4.5.03
Jakobsen, Anita	O15.4
Jamshidvand, Mahrokh	P2.2.28, P2.6.15
Janiak, Michał	S09.7
Janssen, Frederik	O14.5
Jiang, Yuan	P6.0.23
Jiménez-Pulido, Iván Jesús	P1.1.22, P6.0.24
Jury, Vanessa	P2.5.06

K			
Kantanen, Katja	P2.5.07	Leungtongkum, Tanatthep	P1.4.06
Karatas, Ozan	O25.4, P1.1.23	Levy, Rachel	P5.2.02, P6.0.36
Kasiouras, Georgios	P2.6.16	Li, Qian	P4.1.26
Katsanidis, Eugenios	P2.3.12	Li, Yuchen	P4.1.25
Katsaros, George	N7.6, P2.1.08, P2.2.29, P2.2.30, P6.0.25, P6.0.26, P6.0.27, P6.0.28, P6.0.29, P6.0.30	Limnaios, Athanasios	O22.4
Katsimichas, Alexandros	P1.1.24	Liu, Dan	O23.5
Katsini, Lydia	S08.3	Llavata Cabrero, Beatriz	P6.0.37
Kearns, Michelle	P2.6.17	Loeffler, Myriam	P2.1.12
Kempkes, Mike	N6.3	Loekman, Soebiakto	P1.1.30
Kendler, Sophie	P4.1.21	Lopez Torrez, Lizeth	P2.1.13
Kenny, Ciara	P2.2.31	Lopez-Quiroga, Estefania	O2.2
Kew, Ben	P.05	Løvdal, Trond	P4.5.05
Khan, Muhammad Jehanzaib	N1.4, P6.0.31	Lucas, Tiphaine	P4.1.27
Kiani, Hossein	P4.1.22, P4.1.23	Lüth, Daniela	S09.1
Kim, Jihoon	P1.1.25	M	
Kim, Mi Jeong	P2.4.15	Maag, Patricia	P6.0.38
Kim, Sung Mi	P2.1.09	Maila, Yvonne	O20.3, P1.3.04
Kmiecik, Dominik	P2.2.32	Maldonado Rosas, Ruben	P2.6.19
Knol, Jeroen	S09.3	Malliaroudaki, Maria Ioanna	O6.4, S08.6
Kocadagli, Tolgahan	P1.4.05	Manful, Maame Ekuia	O5.5
Kolarič, Lukáš	P2.6.18	Mannott, Insa	P2.2.33
Korbel, Emilie	P2.1.10	Marques, Arlete	P2.3.14
Koseki, Shige	P6.0.32	Marra, Francesco	O25.2, N8.1, S02.5, P1.1.31
Kraljić, Klara	P6.0.33	Martinez, Olaia	P2.2.34, P2.2.35
Kremmyda, Alexandra	P1.1.26	Mashiah, Leeheh	P2.6.20
Kumar, Rahul	P6.0.34	Masijn, Quinten	O14.6
Kvangarsnes, Kristine	P2.3.13	Mastandrea, Giada	S06.2
L		Mathmann, Katrin	O3.4, P1.2.03
Labuschagne, Maryke	O12.2	Matys, Aleksandra	N2.1, P6.0.39
Lacey, Karen Louise	P1.1.27	Matysek, Julia	N9.6, P.18
Laika, Jessica	P6.0.35	McCarthy, Bozena	P4.1.28
Lazaro-Mojica, Jonas	S09.4, S10.1	McCarthy, Danielle	S06.5
Le Féon, Samuel	P4.5.04	McCarthy, Mary	O28.2, N5.1
Le Foll, Rozenn	P4.1.24	McGuinness, Lauren	P2.1.14
Lee, Hui Jeong	P2.1.11	McGurrin, Ailbhe	P2.4.16
Lee, Juno	P1.1.28	Medina Pradas, Eduardo	P2.2.36, P2.2.37
Leite, Marta	O5.2	Méndez Calderón, Erika Kamila	P1.1.32
Lerfall, Jørgen	P1.1.29	Methven, Lisa	P2.2.38
Lesme, Hanna	P2.5.08	Miao, Song	P2.5.09
		Miele, Nicoletta Antonella	P1.1.33, P2.2.39
		Mienis, Esther	P1.1.34
		Millar, Kim	P2.2.40

Miranda Mejía, Graciela Alejandra	P1.1.35
Misiou, Ourania	S08.5, P06
Mittermeier-Klessinger, Verena	P2.1.15
Mohammadlinejhad, Samira	P2.4.17
Mohibbullah, Md.	P2.4.18
Molet-Rodríguez, Anna	P2.3.15
Monasterio, Angela	P2.4.19
Monge-Morera, Margarita	P2.5.10
Mora, Cristina	O28.5
Moraru, Carmen	N9.3, P6.0.40
Morcillo-Martín, Ramón	P4.1.29
Morelle, Eric	O20.2, P1.1.36
Mozafari, Behrad	P1.3.05
Mullins, Ewen	S01.6
Murray, Rebecca	O10.6
N	
Nahar, Samsun	O15.5
Naughton, Paul	O10.2
Necidová, Lenka	P3.2.05
Neri, Lilia	N9.4
Nierop Groot, Masja	N3.1, P6.0.41
Njieukam, Joel Armando	P2.2.41
Noci, Francesco	P2.2.42
Noore, Shaba	N2.4, P.07
Noriega Fernández, Estefanía	P3.5.01
Nowacka, Małgorzata	P6.0.42
O	
O Sullivan, Roisin	P.08
O'Brien, Ronan	P2.3.16
O'Brien, Steve	N6.1
O'Mahony, Pat	N5.2
O'Reilly, Seamus	O16.2
Oikonomopoulou, Vasiliki	O6.5, P2.2.43, P2.2.44, P2.3.17
Okeudo, Mary	P2.5.11
Olaleye, Hannah	P2.2.45, P3.3.05
Oledzki, Remigiusz	P1.4.07, P2.3.18
Oliveira, Márcia	P6.0.43, P6.0.44
Oliveira, Ricardo	O17.5
Oluwole-ojo, Oluwaloba	S02.4, P1.3.06
Oni, Eniola	S04.3, P3.1.02
Opaluwa, Christina	P2.6.21

Oresanya, Tolulope	P2.1.16, P2.2.46
Orhotohwo, Oghenetega Lois	P2.2.47
Orkusz, Agnieszka	P2.6.22, P2.6.23
Oruna-Concha, Maria Jose	P2.6.24
Osorio, Fernando	P2.3.19, P2.3.21
Østbye, Tone-Kari	S05.2
Oterhals, Åge	P4.1.30
Oyewole, Ade	P2.2.48
P	
Pakdel, Mahsa	O9.5
Pampoukis, George	P6.0.45
Pandey, Shipra	P4.3.07
Pap, Nora	P4.1.31
Papadopoulou, Olga	P2.2.49
Papageorgiou, Christos	P2.2.50
Park, Inwoo	O11.5
Park, Sewon	P2.4.20
Parker, Jane	P2.2.51
Patarata, Luis	P2.1.17, P2.2.52
Pataro, Gianpiero	O19.3, N7.5, P4.5.06, P6.0.46, P6.0.47
Pavon-Vargas, Dario Javier	P1.4.08
Pegiou, Eirini	O26.3, P.09
Penland, Marine	P4.1.32
Pereira, Rui C.	P6.0.48
Perera, Kalpani	P4.3.08, P4.3.10
Pérez Gálvez, Raúl	P2.4.21, P2.4.22
Perez Simba, Byron	P.19
Pérez Vila, Sara	P2.5.12
Perez-Alvarez, José Angel	P2.2.53, P2.2.54
Piasecka-Kwiatkowska, Dorota	P3.5.02
Pieters, Michiel	O20.5
Pintado, Manuela	S09.8
Pinto, Carlos	P.10, P6.0.49
Pirozzi, Annachiara	O27.1, P.11, P1.1.37
Pittia, Paola	P2.2.55
Points, John	S04.1
Popescu, Paul Alexandru	P4.3.09
Pradhan, Dileswar	P4.1.33
Pravst, Igor	S07.2
Psarianos, Marios	O26.1
Putri, Novita Ika	P4.1.34

Q		Sanjiv Chhaya, Rhea	S08.1
Quintriqueo, Alejandra	P2.3.22	Saraiva, Jorge	N7.3, P1.1.40
R		Sarghini, Fabrizio	O25.3, P2.3.25
Rabasco-Vílchez, Laura	P1.4.09	Schenck, Sylvia	P1.4.12
Rady, Ahmed	O3.5, P3.3.06	Schnabel, Uta	N7.2, P6.0.56
Ramezani, Mohsen	O23.4	Schottroff, Felix	O21.4, N4.4
Ramireddy, Lokeswari	P6.0.50	Semenoglou, Ioanna	P2.2.80, P4.1.44
Ramirez, Cristian	P2.6.25, P4.1.35	Sevenich, Robert	O11.6, P1.1.41, P2.6.28, P6.0.57
Ramos, Marina	P2.2.56	Shah, Hitika	P4.1.38
Ranganathan, Yamuna Devi	P6.0.51	Sharif, Niloufar	O15.2
Rapisarda, Samuel	P2.2.57	Sharma, Shubham	O15.6, P4.3.12
Rasaq, Semiu Abolore	P4.1.36	Sharmin, Nusrat	P4.3.13, P4.3.14
Rashed, Mahmoud	P2.2.58	Shlush, Eden	P4.3.15
Ratnawati, Susana Endah	P4.3.11	Shpigelman, Avi	O27.4, P6.0.58
Refael, Gil	P2.3.23	Shrestha, Marie	S01.2
Reiner, Jasmin	P2.2.59	Sicard, Jason	P1.4.13, P2.1.18, P4.4.01
Reißner, Anne-Marie	P2.2.60	Siitonen, Aino	P2.5.14
Renard, Catherine	P2.2.61	Silva, Cristina L.M.	P2.2.66, P4.3.16, P6.0.59
Režek Jambrak, Anet	N1.2	Siroli, Lorenzo	S03.2
Ribas-Agustí, Albert	P2.2.62, P6.0.52	Skåra, Torstein	P1.1.42
Ribeiro, José Carlos	O26.4	Skočková, Alena	P3.2.07
Rico, Daniel	P2.3.24, P6.0.53	Skoufos, Ioannis	P2.6.29, P3.2.08
Rinaldi, Massimiliano	P1.1.38	Sliwinski, Edward	S06.1, S03.4, Workshop
Rivero, Katia	P6.0.54	Smith, Rachel	P2.6.30
Ródenas, Pedro Fernando	P1.2.04	Snel, Silvia J.E.	P2.5.15
Rolim Alves Da Silva, Aline	P2.6.26	Soliva Fortuny, Robert	P2.2.67, P4.1.39
Romano, Giulia	P1.4.10	Soltanahmadi, Siavash	O23.2
Romero-Tapiador, Sergio	O24.4	Sone, Izumi	P2.6.31
Romo, María	P4.1.37	Soro, Arturo B.	P6.0.60
Rosnes, Jan Thomas	P2.2.63, P2.2.64, P2.4.23, P3.4.04	Sosa-Morales, Maria Elena	N7.4, P6.0.61
Rossi, Samantha	P2.6.27	Sousa, Pedro Manuel	P5.2.03
Rouaud, Olivier	P1.4.11, P4.5.07	Staccioli, Léo	S05.6
Roufou, Styliani	S08.2	Stathas, Leonardos	P3.3.07
Rudzinska, Magdalena	P2.2.65	Steinsholm, Silje	S05.1
Rybak, Katarzyna	P6.0.55	Stemler, Charlotte Dorothea	P2.1.19
S		Stephan, Alexander	P2.2.68
Saar, Helen	O16.4	Stribitcaia, Ecaterina	P.16
Sainz-García, Ana	P1.1.39	Sutter, Robyn Megan	P1.1.43
Sampers, Imca	S10.2	T	
Samuelson, Tor Andreas	O22.3	Talari, Gopaiah	S08.8
Sánchez Jiménez, Virginia	O3.2, P.12, P2.5.13	Talens, Clara	O16.5, P2.2.69
Sánchez, Lourdes	P3.2.06	Tanner, Sean	O4.2

Teixé-Roig, Júlia	P.13
Tenorio Garcia, Elizabeth	P2.1.20
Thamsuaidee, Arisa	N1.3, P6.0.62
Thielemans, Karel	O12.6
Tikekar, Rohan	P1.1.44, P3.4.05
Timlin, Mark	P1.1.45
Tiong, Alice	P2.5.16
Toepfl, Stefan	N6.3
Toledo E Silva, Sérgio Henrique	P4.1.40
Tonti, Maria	P1.1.46
Torley, Peter	O10.5, P2.6.32
Traka, Maria	S07.4
Troadec, Romane	P2.1.21
Tsatsanis, Christos	S05.4
Tsochatzis, Emmanouil	O6.3
Tsoukalas, Dionysios	P2.6.33
Turitich, Libni	P2.2.70
Tzora, Athina	O21.6, P3.2.09
U	
Umego, Ekene	P4.1.41
Uribe-Alvarez, Ricardo	P2.6.34
V	
Valentino, Marika	P6.0.63
Van Audenhove, Jelle	P.14
van Bokhorst-van de Veen, Hermien	P2.6.35
Van De Vondel, Julie	P2.2.71
Van Impe, Jan	N4.1
Vanleenhove, Baptiste	P4.1.42, P4.1.43
Vega-Galvez, Antonio	P2.4.24
Velasquez Barillas, Alejandra	P2.2.72
Veldkamp, Teun	S01.4
Verbeke, Celeste	P2.2.73
Verma, Ujjwal	O23.6
Vitsou Anastasiou, Stamatia	P2.2.74
Vittadini, Elena	P2.2.75
Vos, Paul	S01.1
W	
Wagner, Karin	P2.2.76
Waldhans, Claudia	P4.3.17
Wang , Min	S05.3
Wang, Xin	O5.4
Wang, Xiyao	P3.4.06
Wiedenmann, Verena	P2.2.77

Wijngaard, Hilde	S04.6
X	
Xia, Wenjie	P2.5.17
Y	
Yang, Jack	O12.4
Yang, Kai	P1.2.05
Yao, Yijiao	P6.0.64
Yuan, Bo	P2.3.26
Z	
Zampouni, Konstantina	P2.2.78
Zand, Elena	P.17
Zettel, Viktoria	O3.3, P2.2.79
Zhang, Yi	O14.3
Zhang, Yifan	P2.1.23
Zhang, Yuqi	P1.4.14
Zhu, Li	P3.2.10
Zia, Hassan	P6.0.65

EFFoST2022 Conference - Oral Programme

Monday 7 November 2022

Registration in the Atrium of AVIVA Stadium

Room	Lansdowne Room Level 2	Vavasour Suite Level 2
08:30 - 18:00	Young EFFoST Day 2022	NTP Session 1: Opening Session EFFoST / IFT-NPD & Sustainability of Food Supply for the future through innovative Non-thermal Technologies Chairs: James Lyng and Dolores O'Riordan
09:00 - 10:30	08:45 - 09:00 Welcome & Introduction of Young EFFoST Day programme	(N1.1) Opening Address J. Antonio Torres, 2021-22 Chair of Nonthermal Processing Division & School of Engineering and Sciences, Tecnológico de Monterrey, México
09:00 - 09:25	09:00 - 10:00 Opening session: Shaping the Production of Sustainable, Healthy Foods for the Future Chair: Prof. Kevin O'Connor Dr Pamela Byrne, Chief Executive Officer at Food Safety Authority Ireland	(N1.2) Sustainability of Food Supply for the future through innovative Non-thermal Technologies Anet Režek Jambak, University of Zagreb, Croatia
09:25 - 09:50		(N1.3) Impact of Pulsed Electric Field (PEF) on Vegetable Processing: Case Study on Carrot Processing Arisa Thamsuaidee, Elea Technology GmbH, Germany
09:50 - 10:10		(N1.4) Enhancement of wheat dough functional properties by non-thermal plasma treatment of wheat flour Muhammad Jehanzaib Khan, LTSM, Germany
10:10 - 10:30	10:00 - 10:30 Networking activity: "Speed dating" to get to know other researchers	

In this programme, only the presenters of the abstracts are mentioned.
The online book of abstracts acknowledges all authors.



SCAN ME

10:30 - 11:00								
11:00 - 12:00			10:30-10:45 Refreshment Break	Refreshment Break				
11:00 - 11:15			Young EFFoST Day 2022, continued					
11:15 - 11:30			10:45 - 11:30 Job reality & career path insights: Talks by representatives from industry, academia and non-profit organizations on their career path and advice to young researchers. Chair: Tara Hughes Speakers: - Aoife Marie Murphy, Kerry, Ireland - Nessa Noronha, Food for Health Ireland, Ireland - Alan Kelly, University College Cork, Ireland - Ciarán Forde, Wageningen University & Research, the Netherlands					
11:30 - 11:45			11:30 - 12:00 Panel discussion with representatives from industry, academia and non-profit organisations					
11:45 - 12:00			12:00 - 12:10 Close of Young EFFoST Day 2022					
12:00 - 13:00			12:10-13:00 Lunch	Lunch				

EFFoST2022 Conference - Oral Programme

Monday 7 November 2022

Room	President Suite Level 2	Vavasour Suite Level 2
13:00 - 14:00	EFFoST Welcome & Opening Session Chairs: Dolores O'Riordan and James Lyng	NTP Special Session 3: Emerging Non-thermal Processing Technology - Case Studies Chair: Paula Bourke and Juan A. Cárcel
13:00 - 13:15	Welcome to the 36th EFFoST International Conference <ul style="list-style-type: none"> Hugo de Vries, President of the EFFoST Board Dolores O'Riordan and James Lyng, Conference Chairs, <i>University College Dublin, Ireland</i> Orla Feely, Vice-President for Research, Innovation and Impact, <i>University College Dublin, Ireland</i> 	13:00 - 13:30 (N3.1) Plasma Masja Nierop Groot, <i>Wageningen Food & Biobased Research, the Netherlands</i> Uta Schnabel, <i>Leibniz Institute Plasma Science and Technology, Germany</i>
13:15 - 13:30	Welcome to Dublin, Ireland Minister Martin Heydon, <i>Minister of State with responsibility for Research and Development, Farm Safety, and New Market Development</i>	
13:30 - 14:00	Plenary Session 1: Future proofing the agri-food industry Chairs: Dolores O'Riordan and James Lyng	
13:30 - 14:00	(PL1.1) Food Vision 2030: its development, conclusions and implementation in a fast changing world Tom Arnold, <i>Irish Government's Special Envoy for Food Systems, Ireland</i>	13:30 - 14:00 (N3.2) Ultrasound Gállego-Juarez, <i>Pussonics, Spain</i> Jose Garcia Perez, <i>Universitat Politècnica de València, Spain</i>

Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special session room 442 Level 4
14:00 - 15:45	<p>Session 1: Enhancing the sensory appeal of food Chairs: Verena Mittermeier-Klessinger and Clarán Forde</p>	<p>Session 2: The role of the Internet of Things in the food chain Chairs: Peter Fryer and Gianpiero Pataro</p>	<p>Session 3: Sensor technology to enhance food quality Chairs: Nora O'Shea and Colm O'Donnell</p>	<p>Session 4: Supporting consumer choices and preferences: technologies to help consumers make informed decisions Chairs: Klaus Grunert and Maeve Henchion</p>	<p>NTP Session 4: Role of non-thermal technologies in future foods from alternative sources for an increasing global population Chairs: Marco Faieta and Lilla Neri</p>	<p>Workshop: Upload your scientific work to an open repository Chair: Edward Sliwinski</p>
14:00 - 14:25	<p>(KN1.1) The role of sensory consumer and community research in designing foods for healthy sustainable diets Lisa Methven, <i>University of Reading, United Kingdom</i></p>	<p>(KN2.1) The Internet of Things for Food Sjaak Wolfert, <i>Wageningen University, Netherlands</i></p>	<p>(KN3.1) Development of process analytical technology (PAT) tools for enhanced quality and safety in food processing Colm O'Donnell, <i>University College Dublin, Ireland</i></p>	<p>(KN4.1) Consumer interest in healthy sustainable diets and the role of tools supporting food choice Wim Verbeke, <i>Universiteit Gent, Belgium</i></p>	<p>(N4.1) Role of non-thermal technologies in future foods from alternative sources for an increasing global population Jan Van Impe, <i>KU Leuven, Belgium</i></p>	<p>During this 2-hour hands-on and interactive workshop, we will guide you through the world of Open Science and, specifically, how to upload your research to an open repository (Zenodo). The work shop will cover: - the basics of Open and FAIR principles - how to upload your work on Zenodo, step by step - how to publicize, advertise and raise awareness about your work.</p>
14:25 - 14:45	<p>(O1.2) High Molecular Weight Polymers as Natural Aroma Modulators in Red Wine Anna Maria Gabler, <i>Technical University of Munich, Germany</i></p>	<p>(O2.2) A first approach to the modelling of Cleaning-in-Place processes using Machine Learning Estefania Lopez-Quiroga, <i>University of Birmingham, United Kingdom</i></p>	<p>(O3.2) Contactless characterization of potato drying by using air-coupled ultrasound Virginia Sánchez Jiménez, <i>Universitat Politècnica de València, Spain</i></p>	<p>(O4.2) Social Media and Social Amplification of Risk – Consumer Reactions to Food Recall Reporting Sean Tanner, <i>University College Cork, Ireland</i></p>	<p>(N4.2) Nonthermal processes for the valorisation of yeast biomass George Dimopoulos, <i>National Technical University Of Athens, Greece</i></p>	<p>Presentations by Edward Sliwinski, Katherine Flynn, Emilie Weynants, and Luis Mayor</p>
14:45 - 15:05	<p>(O1.3) Neuroscience tools to predict more appealing forms for senior population Ana Baranda Gonzalez, <i>Basque Research and Technological Alliance, Spain</i></p>	<p>(O2.3) Simulating a part of the industrial chain in VR Russell Galea, <i>University of Malta, Malta</i></p>	<p>(O3.3) Chemometric models for rice sourdough fermentations based on fluorescence spectroscopy Viktoria Zettel, <i>University Of Hohenheim, Germany</i></p>	<p>(O4.3) Transformative change towards more sustainable and healthy diets for all-An outline of the SusHealth project Vasilis Grigoriadis, <i>Queen's University Belfast, United Kingdom</i></p>	<p>(N4.3) Recovery of bioactive compounds from fruit juice waste streams by industrial Ultrasound Assisted Extraction Loic Carvalho, <i>Abertay University, United Kingdom</i></p>	
15:05 - 15:25	<p>(O1.4) Lactic acid bacteria fermentation of chickpeas flour for gluten-free breadmaking: sensory and physico-chemical modifications Marcello Alinovi, <i>Università di Parma, Italy</i></p>	<p>(O2.4) Real Time Anomaly Detection in Cold Chain Transportation using IoT James Gillespie, <i>Ulster University, United Kingdom</i></p>	<p>(O3.4) Evaluation of sensor performance for smart home applications to analyze bakery products Katrin Mathmann, <i>University of Applied Sciences, Austria</i></p>	<p>(O4.4) Using Near Infrared Spectroscopy (NIRs) to Help Consumer's Food Choices Zeyneb Guneyusu, <i>Hacettepe University, Turkey</i></p>	<p>(N4.4) Continuous recovery of valuable ingredients from microbial production systems by pulsed electric fields Felix Schottroff, <i>University of Natural Resources and Life Sciences (BOKU), Austria</i></p>	
15:25 - 15:45	<p>(O1.5) Dynamic sensory, emotional and rheological characterization of a functional vanilla ice cream Ricardo Isaias, <i>University of Porto, Portugal</i></p>	<p>(O2.5) Development of intelligent packaging to monitor food degradation and reduce food waste. Laura Carballido, <i>Institut Agro, France</i></p>	<p>(O3.5) Quality evaluation of processed meats using rapid and/or non-invasive sensors and machine learning algorithms Ahmed Rady, <i>Teagasc, Ireland</i></p>	<p>(O4.5) Decarbonisation in food supply chain: a review of current European initiatives Sepideh Jafarzadeh, <i>Sintef Ocean, Norway</i></p>	<p>(N4.5) Optimization of bioactive compounds from marigold flower using ultrasound-assisted extraction by response surface methodology Kitipong Assatarakul, <i>Chulalongkorn University, Thailand</i></p>	

Refreshment Break Atrium and Presidents Terrace					
15:45 - 16:15	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2
Room					
16:15 - 18:00	<p>Session 5: Food toxicology and allergenicity Chairs: Gemma Kinsella and Kim Miller</p>	<p>Session 6: Techniques to enhance energy efficiency & minimise environmental impact Chairs: Brijesh Tiwari and Ajay Menon</p>	<p>Session 7: Modelling, its role in quality by design Chairs: Ferruh Eroglu and Catherine Renard</p>	<p>Session 8: Bioactives and secondary metabolites: generation and characterisation Chairs: Nessa Noronha and Jesus Frias</p>	<p>NTP Special Session 5: Consumer perception and regulatory considerations in relation to non-thermal technologies Chair: Alan Kelly and Fiona Lalor</p>
16:15 - 16:40	<p>(KN5.1) From mice to mouse: Developments in toxicological and allergenicity risk assessments Rhodri Evans, Exponent, United Kingdom</p>	<p>(KN6.1) Defining what type of industry will provide sustainable and healthy future foods Wayne Martindale, University of Lincoln, United Kingdom</p>	<p>(KN7.1) The role of digital tools in quality food design and sustainability Francesco Marra, Università Degli Studi Di Salerno, Italy</p>	<p>(KN8.1) The potential of protein hydrolysates to support immune health Christine Loscher, Dublin City University, Ireland</p>	<p>16:15 - 17:15 (N5.1) Consumer perception of non thermal technologies • Mary McCarthy, University College Cork, Ireland • Maeve Henchion, Teagasc, Ireland • Klaus Grunert, Aarhus University, Denmark • Diána Bánáti, University of Szeged, Hungary • John Casey, Donworth Capital Foods</p>
16:40 - 17:00	<p>(O5.2) Occurrence of regulated and emerging mycotoxins in raw milk: a Portuguese case-study Marta Leite, University Of Coimbra, Portugal</p>	<p>(O6.2) Process Development for Biofilm-Based Production of Nutraceuticals from Microalgae Gamze Er, LSTME Busan, South Korea</p>	<p>(O7.2) A multidimensional heat and mass transfer study of coffee roasting in spouted bed roasters Mark Al-Shemmeri, University Of Birmingham, United Kingdom</p>	<p>(KN8.2) Metabolomics – how it can contribute to developments to underpin a healthy, sustainable diet Lorraine Brennan, University College Dublin, Ireland</p>	
17:00 - 17:20	<p>(O5.3) Tracing radiolabeled pesticides to investigate their fate during food processing Mark Buecking, Fraunhofer IME, Germany</p>	<p>(O6.3) Eat the box too... insects biomass growth and plastic biodegradation Emmanuel Tsochatzis, Aarhus University, Denmark</p>	<p>(O7.3) Bread baking modeling: towards the development of new baking strategies Safia Bedre-dine, Inrae, Ur Opale, France</p>	<p>(O8.3) Enrichment of DPP-IV inhibitory peptides in quinoa for the treatment of type II diabetes mellitus Magdalena Holzer, Technical University of Munich, Germany</p>	
17:20 - 17:40	<p>(O5.4) Comparative risk assessment study on bisphenol A (BPA) through meat products Xin Wang, University College Dublin, Ireland</p>	<p>(O6.4) Driving towards net-zero carbon under climate change: Modelling energy use for dairy manufacturing and distribution Maria Ioanna Malliaroudaki, University of Nottingham, United Kingdom</p>	<p>(O7.4) Numerical modelling of soluble gas stabilization process as a tool toward full-scale industrialization Sara Esmaelian, NTNU, Norway</p>	<p>(O8.4) Fish processing byproducts: A sustainable source of bioactive peptides Khawaja Muhammad Imran Bashir, German Engineering Research and Development Center, South Korea</p>	<p>17:15 - 18:00 (N5.2) Regulatory considerations of non thermal technologies Pat O'Mahony, FSAI, Ireland Rhodri Evans, Exponent, Ireland Joe Dunne, Food Safety Consultant, Ireland Liam Murphy, HPP Tolling, Ireland</p>

17:40 - 18:00	(O5.5) Safety Assessment of Novel Foods from the Biorefinery of Olive, Grape, and Nut By-products Maame Ekua Manful, Technological University Dublin, Ireland	(O6.5) Evaluation of meat industry's environmental impact via LCA: Current state and future/alternative perspectives for sustainability Vasiliki Oikonomopoulou, National Technical University Of Athens, Greece	(O7.5) Investigation of integral stereoselectivity of lipase on triacylglycerol of varying fatty acids Yoonseok Choi, Seoul National University, South Korea	(O8.5) How do phenolic compounds affect bioactive peptide formation from casein digestion in vitro? Aytil Hamzalioglu, Hacettepe University, Turkey		
18:00 - 20:00	Welcome Reception Atrium and the Mezzanine					

Tuesday 8 November 2022

Room	President Suite Level 2					
08:30 - 10:00	Plenary Session 2: Meeting the future challenges of the food industry Chairs: Dolores O'Riordan and James Lyng					
08:30 - 09:00	(PL2.1) Meeting the future challenges of the food industry Mark Christal, Enterprise Ireland, Ireland					
09:00 - 09:30	(PL2.2) 'Better Living through Sensory': Using Sensory Cues to Moderate Eating Behaviour, Food Intake and Health Ciarrán Forde, Wageningen University, the Netherlands					
09:30 - 10:00	(PL2.3) Future of healthy, environmentally sustainable and desirable diets: guidelines, industry and consumers Jennie Macdiarmid, University of Aberdeen, United Kingdom					
Room	Refreshment Break Poster Session 1 Atrium and Presidents Terrace					
Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special session room 442 Level 4
10:30 - 12:35	(KN9.1) Identifying and preparing for emerging food safety risks Chairs: Enda Cummins and Elena Zand	(KN10.1) Consumer inferences from production and processing characteristics: A barrier to a more sustainable food production? Klaus Grunert, Aarhus University, Denmark	(KN11.1) Innovative and Novel Sustainable Food Processing and Challenges Ferruh Erdogan, Ankara University, Turkey	(KN12.1) Food design challenges: balancing sustainability, nutrition and circularity Milena Corredig, Aarhus University, Denmark	(N6.1) Ultraviolet Robert Axon, UVTGLOBAL, United Kingdom Steve O'Brien, UVTGLOBAL, United Kingdom Jaromir Bilek, Jenion International, United Kingdom	(S02.1) Evaluation of Moderate Electric Field (MEF) for pasteurization of pork sausages in a conductive casing Tesfaye Bedane, University College Dublin, Ireland
10:30 - 10:55	(KN9.1) Identifying and preparing for emerging food safety risks Patrick Wall University College Dublin, Ireland	(KN10.1) Consumer inferences from production and processing characteristics: A barrier to a more sustainable food production? Klaus Grunert, Aarhus University, Denmark	(KN11.1) Innovative and Novel Sustainable Food Processing and Challenges Ferruh Erdogan, Ankara University, Turkey	(KN12.1) Food design challenges: balancing sustainability, nutrition and circularity Milena Corredig, Aarhus University, Denmark	(S01.1) GIANT LEAPS towards healthy and sustainable future diets by filling knowledge gaps on alternative proteins Paul Vos, Wageningen the Netherlands	(S02.1) Evaluation of Moderate Electric Field (MEF) for pasteurization of pork sausages in a conductive casing Tesfaye Bedane, University College Dublin, Ireland

10:55 - 11:15	(O9.2) Coagulase Negative Staphylococci: a Potential Reservoir of Antibiotic Resistant Genes in the Pork Meat Chain Maria João Fraqueza, Centre for Interdisciplinary Research in Animal Health, Portugal	(O10.2) The Interplay of Food Labels & Dietary Motivation on Product Health Ratings and Purchase Intentions Paul Naughton, Edinburgh Napier University, United Kingdom	(O11.2) Rotary drum heat pump drying as alternative to malt processing Gisandro Carvalho, Esalq-usp/oniris, France	(O12.2) Incorporating zinc into provitamin A, quality protein maize and normal maize hybrids Maryke Labuschagne, University of the Free State, South Africa	(S01.2) NextGenProteins: Bioconversion of Underutilized Resources into Next Generation of Proteins for Food and Feed Marie Shrestha, ttz Bremerhaven, Germany	10:50 - 11:10 (S02.2) Moderate Electric Fields (MEF) application during the extraction of oleuropein from olive leaves Juan A. Cárcel, Universitat Politècnica De València, Spain
11:15 - 11:35	(O9.3) A prospective study of antibiotic resistance in the food chain Cristina Díaz-Martínez, University Of Cordoba, Spain	(O10.3) Consumer perception and willingness to try new food products produced by new food technologies Ana Frias, University Of Port, Portugal	(O11.3) Ultra-high-pressure homogenization (UHPH) in the preparation of spray-dried functional emulsion: application in dairy-based products Fatemeh Aghababaei, Universitat Autònoma de Barcelona (UAB), Spain	(O12.3) In vitro digestion/fermentation of olive oil by-products debittered with lactobacilli and functionalized with Lactiplantibacillus plantarum Andrea Gianotti, Università di Bologna, Italy	(S01.3) PROFUTURE Project - Microalgae Protein Ingredients for the Food and Feed of the Future Fabio Fanari, Institute of Agrifood Research and Technology (IRTA), Spain	11:10 - 11:30 (S02.3) Improvement of ferrocyclase activity by using power ultrasound Jose Vicente Garcia Perez, Universitat Politècnica De València, Spain
11:35 - 11:55	(O9.4) Enhancing the safety and quality of marinated small pelagic fish Bouthaina Bessadok, Institut National Des Sciences Et Technologies De La Mer, Tunisia	(O10.4) Impact of organic apple puree processing on consumer's perceived value and purchase intentions University Angers, Itab / Granem, France	(O11.4) Exploiting the potential of electrohydrodynamic drying as a green alternative for batch-mode drying of foods Kamran Iranshahi, ETH Zurich, Empa, Switzerland	(O12.4) Oleosomes: natural oil droplets for dairy alternatives - studied by lubrication behaviour (tribology) Jack Yang, Wageningen University & Research, the Netherlands	(S01.4) SUSINCHAIN: Sustainable Large-Scale Production and Consumption of Insect Proteins in Europe Teun Veidkamp, Wageningen University & Research, the Netherlands	11:30 - 11:50 (S02.4) Model validation, design, implementation and real-time process control of a continuous flow ohmic heater Oluwaloba Oluwale-ojo, Sheffield Hallam University, United Kingdom
11:55 - 12:15	(O9.5) A factory layout and associated food hazards in open food processing facilities, a review Mahsa Pakdel, Norwegian University of Science and Technology, Norway	(O10.5) Microbial cultures to extend the shelf-life of packaged fresh meat: the attitude of Australian consumers Peter Torley, RMIT University, Australia	(O11.5) Lipase-catalyzed synthesis of multi-functional erythorbil ricinoleate with high emulsifying activity Inwoo Park, Seoul National University, South Korea	(O12.5) How does starch affect wheat bread crumb structure during baking and cooling? Heliciane Clement, Inrae, France	(S01.5) Smart Protein for a Changing World. Emerging outcomes from an H2020 EU project Theresa Böck, University College Cork, Ireland	11:50 - 12:10 (S02.5) Assessment of MEF processing potentiality in vegetable based dressing sauce Francesco Marra, University of Salerno, Italy
12:15 - 12:35	(O9.6) Broad-spectrum antimicrobial coatings for food safety Fiara Artusio, École Polytechnique Fédérale de Lausanne, Switzerland	(O10.6) A consumer exploration of the awareness, understanding and perception of plant-based meat alternatives (PBMA) Rebecca Murray, Queen's University Belfast, United Kingdom	(O11.6) High-pressure-intensified pasteurization of orange juice to inactivate Alicyclobacillus acidoterrestris spores and investigation of quality changes. Robert Sevenich, Technische Universität Berlin, Germany	(O12.6) Increasing the fermentable dietary fibre content of bread by addition of accessible cellulose Karel Thielemans, KU Leuven, Belgium	(S01.6) U-Protein and ValPro Path Ewen Mullins, Teagasc Food Research Centre, Ireland	12:10 - 12:30 Panel Discussion
12:35 - 13:45	Lunch Poster Session 1 Atrium and Presidents Terrace				12:50 - 13:15 Special session room 442 Scientist careers in industry - How to be a subject matter expert in corporate organizations Christoph Hartmann, Nestlé, Switzerland Session sponsored by Nestlé	
Pop-up session: Are you aware of what you are eating? Atrium By the EFOST Working group on Sustainable Food Systems						

Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special-session room 442 Level 4	Special-session room 441 Level 4
13:45 - 15:50	<p>Session 13: Bioinformatics and its role in food safety, hygienic design & contamination control Chairs: Hermien van Bokhorst-van de Veen and Aoife Gowan</p>	<p>Session 14: Advances and challenges in alternative proteins Chairs: Mark Fenlon and Jo Gould</p>	<p>Session 15: Advances in food packaging to safeguard food and the environment Chairs: Sharma Shubam and Song Miao</p>	<p>Session 16: Consumer trends and responses to emerging and future foods Chairs: Mary McCarthy and Roisin Burke or Lubna Ahmed</p>	<p>NTP Session 7: How will nonthermal technologies play a part in future local and global food safety and security Chairs: Maria Elena Sosa-Morales and Gustavo Barbosa Canovas</p>	<p>Special session: The INGREEN Journey from agrifood sidestream to sustainable biobased products Chair: Narinder Bains</p>	<p>Special Session: Global Harmonization Initiative - available, sustainable, healthy food for the future through networking sound science Chair: Nicola Stanley and Hilde Wjngaard</p>
13:45 - 14:10	<p>(KN13.1) Precision food safety - using DNA sequences to inform risk assessment Seamus Fanning, <i>University College Dublin, Ireland</i></p>	<p>(KN14.1) Microalgae based production of single-cell protein Maria Barbosa, <i>Wageningen University, the Netherlands</i></p>	<p>(KN15.1) Sustainable food systems: Role of food packaging Begonya Marcos Muntal, <i>IRTA, Spain</i></p>	<p>(KN16.1) Understanding the individual in the food system, a science of consumers or citizens? Monique Raats, <i>University of Surrey, United Kingdom</i></p>	<p>(N7.1) The past and future history of nonthermal processing of foods: fruit and vegetable based food systems Marc Hendrickx, <i>KU Leuven, Belgium</i></p>	<p>13:45 - 13:50 Introduction to the Global Harmonization Initiative Nicola Stanley, <i>Global Harmonization Initiative, Austria</i></p> <p>13:50 - 14:10 (S04.1) The complexity of regulations for human milk John Points, <i>John Points Consulting Ltd., United Kingdom</i></p>	<p>13:45 - 13:50 Introduction to the Global Harmonization Initiative Nicola Stanley, <i>Global Harmonization Initiative, Austria</i></p>
14:10 - 14:30	<p>(O13.2) Mechanistic modeling of the dynamics of phage attack in milk acidification for the cheese-making process Michèle Bou Habib, <i>Inrae, France</i></p>	<p>(O14.2) Protein concentrates from edible insect Tenebrio molitor – development of extraction methods and techno-functional characterization Luís M. Cunha, <i>University of Porto, Portugal</i></p>	<p>(O15.2) Carbon nanotube-based sensors for intelligent packaging Niloufar Sharif <i>École Polytechnique Fédérale de Lausanne, Switzerland</i></p>	<p>(O16.2) Plant-based protein: the road to sustainability? Says who? Seamus O'Reilly, <i>University College Cork, Ireland</i></p>	<p>(N7.2) Non-thermal Plasma for Fresh Produce: Scaling Efficacy from Bench to Prototype/ Industry for gaseous/ liquid applications Uta Schnabel, <i>Leibniz Institute for Plasma Science and Technology, Germany</i></p>	<p>(S03.2) Bio-based innovative bread obtained with pre-fermented ingredients from milling by-products Lorenzo Siroli, <i>University of Bologna, Italy</i></p>	<p>(S04.2) Healthy nutrition based on food-omics data and meeting 3P (predictive, preventive and personalized) medicine expectations Nadiya Boyko, <i>Uzhhorod National University, Ukraine</i></p>
14:30 - 14:50	<p>(O13.3) Characterization of Cronobacter sakazakii isolates from powdered infant formula manufacturing plants by Whole Genome Sequencing Zeinabossadat Ebrahimzadeh Mousavi, <i>University College Dublin, Ireland</i></p>	<p>(O14.3) Effect of Salt Extraction on Structure and Functionality of Concentrate Pea Protein Yi Zhang, <i>Aarhus University, Denmark</i></p>	<p>(O15.3) The systemic risk of contamination of recycled packaged food in circular economy Hawraa Ayoub, <i>Université Paris-Saclay, France</i></p>	<p>(O16.3) Conscious and unconscious emotional perception of senior consumers towards dysphagia liquids Noelia Da Quinta, <i>AZTI, Spain</i></p>	<p>(N7.3) Sublethal moderated pressure and ultrasound pre-treatments for improved whole egg pasteurization Jorge Saraiva, <i>University Of Aveiro, Portugal</i></p>	<p>(S03.3) Impact of dairy by-product, cheese whey, on skin health Aleksandra Augustyniak, <i>Munster Technological University, Ireland</i></p>	<p>(S04.3) Aflatoxin assessment in blood serum of rural households consuming mouldy grains in Ogun State, Nigeria Eniola Oni, <i>Federal University of Agriculture, Nigeria</i></p>

14:50 - 15:10	(O13.4) Transcriptomic response of <i>Listeria monocytogenes</i> planktonic and sessile cells to plasma-activated water Paula Fernández Gómez, <i>Universidad De León, Spain</i>	(O14.4) Comparing the technological properties of plant-based proteins obtained by dry fractionation and wet extraction Davide De Angelis, <i>University of Bari, Italy</i>	(O15.4) Improving the quality of ready-to-eat Atlantic salmon fillets using soluble gas stabilization (SGS) technology Anita Jakobsen, <i>Norwegian University Of Science And Technology, Norway</i>	(O16.4) Consumer perception of plant-based cheese and yogurt alternatives: Estonian consumers' perspective Helen Saar, <i>Center of Food and Fermentation Technologies, Estonia</i>	(N7.4) Ultrasound effect on the bioactive compounds and physicochemical properties of almond beverages Maria Elena Sosa-Morales, <i>Universidad De Guanajuato, Mexico</i>	(S03.4) Regulatory Aspects of Novel Bio-Based Ingredients for Use in Food, Feed, Pharma, Cosmetics and Packaging Edward Sliwinski, <i>European Federation of Food Science and Technology, the Netherlands</i>	(S04.4) Edible insects for human consumption Diána Bánáti, <i>University of Szeged, Hungary</i>	
15:10 - 15:30	(O13.5) The investigation of sanitizer resistance genes in <i>Listeria monocytogenes</i> isolated from different food processing facilities Yue Cheng, <i>University College Dublin, Ireland</i>	(O14.5) Ball milling as a tool to alter the extractability and colloidal state of oat proteins Frederik Janssen, <i>KU Leuven, Belgium</i>	(O15.5) Optical Cleaning Assurance for Reusable PET (re-PET) Food Packaging Samsun Nahar, <i>Loughborough University, United Kingdom</i>	(O16.5) Nutrient-dense, texture-modified and portion-sized hybrid meat designed for senior consumers: perception and behaviour. Clara Talens, <i>AZTI, Food Research, Basque Research and Technology Alliance (BRTA), Spain</i>	(N7.5) Application of pulsed light in a hurdle approach in winemaking process Gianpiero Pataro, <i>University of Salerno, Italy</i>	(S03.5) Life cycle perspectives of bio-based products using biomass residues as feedstock Dirk Hengevooss, <i>University of Applied Sciences and Arts Northwestern Switzerland, Switzerland</i>	(S04.5) Food Waste Recovery: Microwave Assisted Extraction Filiz Hazal, <i>University of Gaziantep, Turkey</i>	
15:30 - 15:50	(O13.6) Simulation of Microbial Survival During Fermented Sausages Production to Assess Alternative Formulation Victoria Caballero, <i>Technological University Of Dublin, Ireland</i>	(O14.6) Contribution of plant proteins to structure and physical stability of lean meat analogue model systems Quinten Masijn, <i>KU Leuven, Belgium</i>	(O15.6) Development and characterization of active packaging containing TiO2 bio-nano-composite - cinnamon oil for cheese preservation Shubham Sharma, <i>Technological University, Ireland</i>	(O16.6) Australians perceptions towards edible insects as a future food Jessica Danaher, <i>RMIT University, Australia</i>	(N7.6) Application of cold plasma technology for the shelf-life extension of fish fillets: industrial scale validation George Katsaros, <i>Institute Of Technology Of Agricultural, Greece</i>	(S04.6) Challenges in valorising food waste for small and medium-sized enterprises Hilde, Wijnngaard, <i>The Hague University of Applied Sciences, the Netherlands</i>		
15:50 - 16:20	Refreshment Break Poster Session 1 Atrium and Presidents Terrace GNT Young Scientist Competition Nominees present their posters Presidents Terrace							15:55 - 16:15 Special session room 442 High-pressure technologies for sustainable food production Jasna Ivanovic, <i>Uhde High Pressure Technologies, Germany</i> Session sponsored by Uhde High Pressure Technologies

Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special-session room 442 Level 4	Special-session room 441 Level 4
16:20 - 18:05	<p>Session 17: Emerging technologies for the rapid detection of food safety issues Chairs: Shea Fanning and Anet Rezek Iambrak</p>	<p>Session 18: Designing and producing foods to meet future challenges Chair: Maria Barbosa and Felix Schottroff</p>	<p>Session 19: Approaches to minimise water use and water waste Chairs: Rachel Louise Gomes and Vasilis Valdramidis</p>	<p>Session 20: Robotics, automation and control of food processes Chairs: Nora O'Shea and Verena Wiedenmann</p>	<p>NTP Special Session 8: Scaleup, Digital Twins and Modelling of Non-thermal Processing Technologies Chair: Jesus Frias and Brijesh Tiwari</p>	<p>Special Session: Aquaculture and Fisheries sidestream proteins and bioactives as ingredients for nutritional supplements: the AQUABIOPRO-FIT project Chair: Tone Aspevik</p>	<p>Special Session: Creating transparency from farm to fork to strengthen trust and create a healthier food system Chair: Edward Sliwinski</p>
16:20 - 16:45	<p>(KN17.1) The Evolution of Food Fraud Vulnerabilities: Beyond Melamine to Infidity John Spink, <i>Michigan State University, United States of America</i></p>	<p>(KN18.1) Sustainable, healthy foods - an industry perspective on their production Aoife Murphy, <i>Kerry, Ireland</i></p>	<p>(KN19.1) How can the wastewater treatment sector contribute for the sustainability of the agro-food industries? Catarina Leite Amorim, <i>Universidade Catalica Portuguesa, Portugal</i></p>	<p>(KN20.1) Robots of the future – Collaborative Robotics & 3D Printing for Food Quality & Design Norah O'Shea, <i>Teagasc, Ireland</i></p>	<p>16:20 - 16:40 Introduction to Session and Ice breaker Brijesh Tiwari <i>Teagasc, Ireland</i> Jesus Frias, <i>Technological University Dublin, Ireland</i></p>	<p>16:20 - 16:25 INTRODUCTION TO THE AQUABIOPRO-FIT PROJECT Tone Aspevik, <i>Nofima, Norway</i> 16:25 - 16:40 (S05.1) Challenges related to the production of nutritional supplements from fish side streams Silje Steinsholm, <i>Nofima, Norway</i></p>	<p>(S06.1) TITAN Transparency solutions for transforming the food system Edward Sliwinski, <i>European Federation of Food Science and Technology, the Netherlands</i></p>
16:45 - 17:05	<p>(KN17.2) Spectral imaging in Food Safety: background, opportunities and limitations Aoife Gowen, <i>University College Dublin, Ireland</i></p>	<p>(KN18.2) Lorraine Moran, <i>Tirlán, Ireland</i></p>	<p>(O19.2) Mapping water use in food manufacture: trends and reduction opportunities Peter Fryer, <i>University of Birmingham, United Kingdom</i></p>	<p>(O20.2) Towards Autonomous Bioprocess Control: Model-based Reinforcement Learning for the Determination of Control Policies Eric Morelle, <i>Technische Universität Berlin, Germany</i></p>	<p>16:40 - 17:00 (N8.1) Open Science and Modelling Francesco Marra, <i>Università degli Studi di Salerno, Italy</i></p>	<p>16:40 - 16:55 (S05.2) Fish side stream materials stimulate growth of in vitro cultured Atlantic salmon muscle cells Tone-Kari K Østbye, <i>Nofima AS, Norway</i></p>	<p>(S06.2) Making Agritech sustainable – Agricolus for precision farming Giada Mastandrea, <i>Agricolus s.r.l., Italy</i></p>
17:05 - 17:25	<p>(O17.3) Detection of almond traces in processed foods using electrochemical immunoplatforms Alba Civera, <i>Universidad De Zaragoza, Spain</i></p>	<p>(O18.3) Designing plant-based protein oleogels as potential solid fat replacers in food products Annika Feichtinger, <i>Wageningen University & Research, the Netherlands</i></p>	<p>(O19.3) On improving the sustainability tomato processing industry by minimization of water and energy consumption Gianpiero Pataro, <i>University of Salerno, Italy</i></p>	<p>(O20.3) Development of antioxidant-rich sweet potato yoghurt using the orange-fleshed 'Bophelo' sweet potato (<i>Impomea batatas</i>) Yvonne Maila, <i>University Of Limpopo, South Africa</i></p>	<p>17:00 - 17:20 (N8.2) Digital Twins Ferruh Eroğdu, <i>Ankara University, Turkey</i></p>	<p>16:55 - 17:10 (S05.3) Evaluation of biological properties of extracts obtained from fish side streams by innovative non-thermal techniques Min Wang, <i>University of Valencia, Spain</i></p>	<p>(S06.3) Food safety and transparency through cutting edge DNA-based analysis methods Antonio Del Casale, <i>MicroBion s.r.l., Italy</i></p>

17:25 - 17:45	(O17.4) From microscopic to macroscopic descriptions of the contamination of food by recycled papers and boards Lucas Biant, INRAE, France	(O18.4) Future cheeses produced by extrusion of renneted curds Ran Feng, University Of Copenhagen, Denmark	(O19.4) Artificial Intelligence (AI) based optimization of tank cleaning in food production Tobias Beck, Friedrich-Alexander-Universität, Germany	(O20.4) New methodological approaches to study anisotropic structures in foods using rheological and Raman spectroscopic fingerprints Julie Frost Dahl, Aarhus University, Denmark	17:20 - 18:00 Discussion Table <ul style="list-style-type: none"> Mario Gonzalez Angulo, Hiperbaric, Spain Mike Kempkes, Diversified Technologies Inc., United States of America Jamomir Blek, Jenton International Ltd, UK Francesco Marra, Università degli Studi di Salerno, Italy Colm O'Donnell, University College Dublin, Ireland Ferruh Erdoğan, Ankara University, Turkey 	17:10 - 17:25 (S05.4) Fish-side stream-derived protein hydrolysates exert anti-inflammatory actions in mouse models of human diseases Christos Tsatsanis, University of Crete, Greece	(S06.4) Helping children make better dietary choices by widening their knowledge on nutrition and food science Noelia da Quinta, AZTI, Basque Research and Technological Alliance (BRTA), Spain
17:45 - 18:05	(O17.5) Selection of DNA aptamers for the detection of foodborne toxins Ricardo Oliveira, Instituto Nacional de Investigação Agrária e Veterinária, I.P. (INIAV,I.P.), Portugal	(O18.5) Cooking Methods Affect Quality of 3D-Printed Vegan Burger Patties Containing Chia Mucilage-based Emulsion Gels Kezban Candoğan, Ankara University, Turkey	(O19.5) Influence of the cleaning fluid on changes in the chemical composition of food-based soils Kristin Hovorka, Technische Universität Dresden, Germany	(O20.5) Inverse graphics: from X-ray to 3D pork shoulder models Michiel Pieters, KU Leuven, Belgium	17:25 - 17:40 (S05.5) Effectiveness of AQUABIOPRO-FIT innovative nutritional supplement against depression, anxiety, and stress on healthy adult volunteers Zoi Georgiou, Biognosis, Greece	(S06.5) Food Possibilities: A framework for an integrated approach to healthy, sustainable food behaviours across schools, communities, business and government Danielle McCarthy, Queen's University Belfast, Northern Ireland	
					17:40 - 17:55 (S05.6) Environmental and socio-economic considerations within the AQUABIOPRO-FIT project Léo Staccioli and Beatriz Cassuriaga Dias, ARDITEC Association, France	17:55 - 18:05 Q&A	
19:00 - 22:00	Conference Dinner Guinness Storehouse Conference dinner guests are welcome to visit the Guinness Experience between 19:00 - 20:00						

Wednesday 9 November 2022

Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special session room 442 Level 4	Special session room 441 Level 4
08:30 - 10:35	<p>Session 21: Protecting the food chain, biosecurity, food fraud and food authenticity Chairs: John Spink and Julie Dunne</p>	<p>Session 22: Emerging technologies for valorising side streams, food waste & by products Chairs: Nigel Brunton and Cristina L.M Silva</p>	<p>Session 23: Engineering food structures to enhance nutrient quality and bioavailability Chairs: Peter Fryer and Tara Grawet</p>	<p>Session 24: Dietary recommendations consistent with a sustainable healthy diet, current & future policies Chairs: Anne Nugent and Steven Mulrooney</p>	<p>NTP Session 9: Meeting future consumer demands for quality, nutritious and healthy foods with non-thermal processing technologies Chairs: Yuan Jiang and Robert Sevenich</p>	<p>Special Session: How to make food nutrition security data FAIRer: an introduction to FNS-Cloud Chair: Paul Finglas</p>	<p>Special Session: Predictive modelling tools to evaluate the effects of climate change on food safety (PROTECT) Chair: Enda Cummins</p>
08:30 - 08:55	<p>(KN21.1) Latest developments in food authenticity: An overview Paul Brereton, QUB, United Kingdom</p>	<p>(KN22.1) Next Gen Meat and Dairy Products and Production Roman Buckow, University of Sydney, Australia</p>	<p>(KN23.1) Alternative proteins Hadrien Delemazure, Clextrol, France</p>	<p>(KN24.1) Personalised food-based dietary guidelines to support transition to a more sustainable healthy diet. Aifric O'Sullivan, University College Dublin, Ireland</p>	<p>(N9.1) Meeting future consumer demands for quality, nutritious and healthy foods with non-thermal processing technologies Diána Bánáti, University of Szeged, Hungary</p>	<p>(S07.1) Food Nutrition Security Cloud (FNS-Cloud) Paul Finglas, Quadram Institute Bioscience, UK</p>	<p>08:30 - 08:35 Introduction of the PROTECT project Enda Cummins, University College Dublin, Ireland</p>
08:55 - 09:15	<p>(KN21.2) Crisis Management. What the egg scare can teach us about food crisis management? Sterling Crew, The Food Authenticity Network, United Kingdom</p>	<p>(O22.2) Sensory properties of whitefish protein solubles – can it be broth? Tone Aspevik, Nofima AS, Norway</p>	<p>(O23.2) Towards the use of protein microgels as multifunction additives Siavash Soltanahmadi, University Of Leeds, United Kingdom</p>	<p>(O24.4) AI4Food: Bringing Artificial Intelligence and Mobile Device Sensors to Health Diets Sergio Romero-Tapiador, Universidad Autónoma De Madrid, Spain</p>	<p>(N9.2) Effect of PEF pretreatment on physical and chemical properties of freeze-dried strawberries and bell peppers Mariana Giancaterino, University of Natural Resources and Life Sciences, Austria</p>	<p>(S08.1) Quantifying human exposure to Aflatoxin M1 through raw milk under climate change scenarios Rhea Sanjiv Chhaya, University College Dublin, Ireland</p>	<p>08:35 - 08:50 (S08.1) Quantifying human exposure to Aflatoxin M1 through raw milk under climate change scenarios Rhea Sanjiv Chhaya, University College Dublin, Ireland</p>
09:15 - 09:35	<p>(O21.3) A model for consumer exposure to norovirus from oysters, based on ISO 15216-1:2017 detection. Kevin Hunt, University College Dublin, Ireland</p>	<p>(O22.3) New process for improved sensory properties of marine powders based on cod filleting residues Silje Steinsholm, Nofima AS, Norway</p>	<p>(O23.3) Does carrageenan hinder meat proteolysis? Proteomic analyses of in vitro digestions Maayan Ben David, Technion- Israel Institute of Technology, Israel</p>	<p>(O24.3) Dietary guidelines for health and sustainability in Europe: Guidelines vs reality Marie Conway, Teagasc, Ireland</p>	<p>(N9.3) Using High Pressure Processing to create novel protein based structures and textures Carmen Moraru, Cornell University, United States of America</p>	<p>(S07.3) Making Food data FAIR – The FNS-Cloud Nutrition & Lifestyle Demonstrator Eileen Gibney, University College Dublin, Ireland</p>	<p>08:50 - 09:05 (S08.2) Assessing the impact of climatic factors on the quality and safety of raw milk Styliani Roufou, University Of Malta, Malta</p>
09:35 - 09:55	<p>(O21.4) Evaluation of different strategies to reduce the microbial load of fresh fruits and vegetables Felix Schottroff, University of Natural Resources and Life Sciences (BOKU), Austria</p>	<p>(O22.4) Innovative production of prebiotics from acid whey with a hyperthermophilic β-glucosidase from Thermotoga neopolitana Athanasios Limnaios, National Technical University of Athens, Greece</p>	<p>(O23.4) Formulation of Glycerol stearate-based oleogels as carriers of β-carotene: formation, characterization and in vitro digestion Mohsen Ramezani, University Of Lleida, Spain</p>	<p>(O24.2) The Adherence and Significance of Mediterranean Diet as Sustainable Healthy Dietary Pattern Metin Guldas, Bursa Uludag University, Turkey</p>	<p>(N9.4) Role of sugars on the inactivation of polyphenoloxidase induced by cold atmospheric plasma Lilia Neri, University of Teramo, Italy</p>	<p>(S07.4) Making Diet & Microbiome data FAIR – The FNS-Cloud Diet & Microbiome Demonstrator Maria H. Traka, Quadram Institute Bioscience, United Kingdom</p>	<p>09:05 - 09:20 (S08.3) Predicting milk contamination under climate change scenarios Lydia Katsini, KU Leuven, Belgium</p>

09:55 - 10:15	(O21.5) Identification of botanical origin of Greek honeys using UV-vis and FT-NIR spectroscopy Dafni Dimakopoulou-Papazoglou, Aristotle University Of Thessaloniki, Greece	(O22.5) Metamorphosis of Crab Shell into Butterfly Wings: Advanced Patterned Films from Food Waste Russell Banta, University College Cork, Ireland	(O23.5) How microstructure, mechanical properties and macrostructure breakdown affect gastric digestion of whey protein gels Dan Liu, Wageningen University & Research, the Netherlands	(O24.5) Findings from a systematic review of behavioural determinants relating to healthy sustainable diets. Brid Bourke, University College Cork, Ireland	(N9.5) Phenolic compound profiles and antioxidant concentrations in lettuce grown under AI developed LED light recipes Gultekin Hasanaliyeva, Nottingham Trent University, United Kingdom	(S07.5) FOODRUGS, integrating public data repositories to explore food-drug interactions Enrique Carillo de Santa Paul, IMDEA Food Institute, Spain	09:20 - 09:35 (S08.4) Multi-criteria framework to evaluate safety and environmental impacts: Application to a large dairy farm Rodney Feliciano, Secalim, INRAE, Oniris, France
10:15 - 10:35	(O21.6) White brined and hard cheeses from Epirus region in Greece: Discovering the terroir secrets Athina Tzora, University Of Ioannina, Greece	(O22.6) Functional compounds extracted from yeast lees Nerea Iturmendi, Universidad Publica de Navarra, Spain	(O23.6) Development of 3D microstructure in fried starch-water mixtures for property estimation Ujjwal Verma, KU Leuven, Belgium	(O24.6) Milk consumption among schoolchildren in Ireland Ellen Greene, University College Dublin, Ireland	(N9.6) Effects of ultrasound on off-flavour-related aroma compounds in a pea protein-based yoghurt alternative Julia Matysek, Technische Universität Berlin, Germany	(S08.5) Mathematical models for predicting spoilage of non-refrigerated food products due to thermophilic spore-forming bacteria Ourania Misiou, Aristotle University Of Thessaloniki, Greece	09:35 - 09:50 (S08.5) Mathematical models for predicting spoilage of non-refrigerated food products due to thermophilic spore-forming bacteria Ourania Misiou, Aristotle University Of Thessaloniki, Greece
							09:50 - 10:05 (S08.6) Towards resource sustainability: Modelling fouling and cleaning in milk pasteurisation processes Maria Ioanna Malliaroudaki University of Nottingham, United Kingdom
							10:05 - 10:20 (S08.7) Climate change challenges in the transition to an environmentally sustainable European dairy sector by 2050 Paola Guzmán Luna, Universidade de Santiago de Compostela, Spain
							10:20 - 10:35 (S08.8) Microbial risk ranking as “a web-based decision support system” tool Gopaiah Talari, Creme Global, Ireland
10:35 - 11:05	Refreshment break Poster Session 2 Atrium and Presidents Terrace						

Room	President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 2	Special session room 442 Level 4	Special session room 441 Level 4
11:05 - 12:50	<p>Session 25: Novel Thermal Technologies Chair: Ferruh Erdogdu</p>	<p>Session 26: Emerging technologies for valorising side streams, food waste & by products Chairs: Robert Sevenich and Paola Pittia</p>	<p>Session 27: Formulation of foods to enhance their sustainability and/or nutritional value Chairs: Avi Shpigelman and Delphine Huc-Mathis</p>	<p>Session 28: Towards a food environment to satisfy sustainable healthy diets Chairs: Monique Raats and Kees de Gooijer</p>	<p>NTP Special Session 10: Panel Discussion on the Future of non-thermal technologies & Closing Address Moderator: Henry Jaeger</p>	<p>Special Session: Shaping our Future Sustainable Food Systems Chair: Hugo de Vries</p>	<p>Special Session: Innovations for food producers and food SMEs: How to encourage putting innovations into practice Chair: Geneviève Gésan-Guizliou</p>
11:05 - 11:30	<p>(O25.1) Electro-heating technologies for innovation in industrial applications for process safety and efficiency Ferruh Erdogdu, Ankara University, Turkey</p>	<p>(O26.1) Application of innovative technologies for valorization of biomass from house crickets Marios Psarianos, Leibniz Institute For Agricultural Engineering And Bioeconomy (ATB), Germany</p>	<p>(O27.1) Capillary suspensions for oil structuring with agri-food residues microinized via high-pressure homogenization in oil Annachiara Pirozzi, University of Salerno, Italy</p>	<p>(KN28.1) Consumer attitude toward innovative and sustainable food processing Diána Bánáti, University of Szeged, Hungary</p>	<p>11:05 - 12:10 (N10.1) Gustavo Barbosa-Canovas, Washington State University, United States of America Carmen Moraru, Cornell University, United States of America Oliver Schlüter, ATB-Potsdam, Germany Stefan Toepfl, ELEA Technologies, Germany Jasna Ivanovic, Unde High Pressure Technologies, Germany Christoph Hartmann, Nestlé, Switzerland</p>	<p>11:05 - 11:25 (S09.1) Introduction to the Session Geneviève Gésan-Guizliou, National Research Institute for Agriculture, Food and the Environment (INRAE), France</p>	<p>11:05 - 11:10 (S10.1) Agrifood Innovation: New Needs in the FOOD 2030 Scenario Jonas Lazaro-Mojica, FoodDrinkEurope, Belgium</p>
11:30 - 11:50	<p>(O25.2) Digital Tools for Knowledge Transfer in MW/RF Heating of Foods Francesco Marra, University Of Salerno, Italy</p>	<p>(O26.2) Protein extraction from tomato leaves Marieke Bruins, Wageningen University & Research, the Netherlands</p>	<p>(O27.2) Processing improves physical and oxidative stability of cricket protein emulsions Xiaocui Han, University Of Helsinki, Finland</p>	<p>(O28.2) Online Food Shoppers: Pattern of behaviour and sustainability practices Claire O'Neill, University College Cork, Ireland</p>	<p>11:25 - 11:40 (S09.2) FOODPaths leading to the future Partnership Sustainable Food Systems Hugo de Vries, INRAE, France</p>	<p>11:10 - 11:25 (S10.1) Agrifood Innovation: New Needs in the FOOD 2030 Scenario Jonas Lazaro-Mojica, FoodDrinkEurope, Belgium</p>	<p>11:10 - 11:45 (S10.2) Innovative upgrades to value and packaging of small quantities of liquid food products Imca Sampeers, Ghent University, Belgium and Geneviève Gésan-Guizliou, INRAE, France</p>
11:50 - 12:10	<p>(O25.3) Modeling and design of Ohmic heating chambers: a computational approach Fabrizio Sarghini, University Of Naples, Italy</p>	<p>(O26.3) Split-stream processing of asparagus side-streams improves the flavour of dried asparagus food ingredients Eirini Pegiou, Wageningen University & Research, the Netherlands</p>	<p>(O27.3) Soy juice fermentation for yogurt production: how a relevant starter selection can improve it? Stéphanie Deutsch, Inrae - Umr Stlo, France</p>	<p>(O28.3) Are sustainable and healthy foods also affordable? A multivariate analysis in the Irish market Maria Dermiki, Atlantic Technological University, Ireland</p>	<p>11:40 - 11:55 (S09.3) Towards an EU network of university-driven local food ecosystems Jeroen Knol, European Federation of Food Science and Technology, the Netherlands</p>	<p>11:25 - 11:45 (S10.2) Innovative upgrades to value and packaging of small quantities of liquid food products Imca Sampeers, Ghent University, Belgium and Geneviève Gésan-Guizliou, INRAE, France</p>	

12:10 - 12:30	(O25.4) Development of an innovative-novel process approach for reduced oil fried products Ozan Karatas, Ankara University, Turkey	(O26.4) Chitin and chitosan extraction from edible insects: characterization and comparison between different species and by-products José Carlos Ribeiro, GreenUPorto/FCUP, Portugal	(O27.4) Processing-dependent nature of plant-protein polyphenol interactions: Are the interactions responsible for protein protection of polyphenols? Avi Shpigelman, Faculty of Engineering, Echnion, Israel	(O28.4) Exploring food choice motives of Irish consumers and their potential to drive sustainable consumption Shelley Fox, Atlantic Technological University, Ireland	12:10 - 12:40 (N10.2) Closing address Bala Balasubramaniam, Ohio State University, United States of America Closing Remarks James Lyng and Dolores O' Riordan, University College Dublin, Ireland	11:55 - 12:10 (S09.4) FOODPaths Exploring collaboration between diverse actors in a network of Food System Labs Jonas Lazaro-Mojica, FoodDrinkEurope, Belgium	11:45 - 11:55 (S10.3) Biotechnology tools for clean label plant-based new foods Inés Echeverría, Centro Nacional de Tecnología y Seguridad Alimentaria (CNTA), Spain
12:30 - 12:50	(O25.5) Conversion of Xylan to Xylose from Pistachio Shell by Microwave/CO ₂ Assisted Hydrolysis Filiz Hazal, Gaziantep University, Turkey	(O26.5) Showing the opportunities of fruits by-products valorization through carbon removal technology in Central Wallis Dominic Hafner, dss+, Switzerland	(O27.5) Structuring biphasic systems for improved nutritional and textural properties Maya Davidovich-Pinhas, Technion, Israel Institute Of Technology, Israel	(O28.5) Nudging as a tool to help students make sustainable and healthy decisions at university canteen Cristina Mora, Università Di Parma, Italy	12:10 - 12:20 (S09.5) Stimulating short food supply chains (fruit, vegetables, traditional foods)-case study Romania Denisa E. Duta, National Institute of Research and Development for Food Bioresources IBA, Romania	11:55 - 12:05 (S10.4) Supporting a frozen fruit value chain of small farmers for optimizing production, reducing environmental footprint and re-using data for certification and subsidies Marianna Gkavrou, NEUROPUBLIC SA, Greece	
12:50 - 13:00	12:50 - 13:00 Microwave and Radio frequency systems for the food industry Alisa Doroshenko, SAIREM, France				12:20 - 12:30 (S09.6) Embedding food safety considerations for water usage in food production systems Kaye Burgess, Teagasc, Ireland	12:05 - 12:15 (S10.5) A second chance for food surplus: a digital marketplace to promote circular economy and avoid food waste Elisa Carloni, University of Bologna, Italy	
					12:30 - 12:40 (S09.7) 'Soup-action' as an example of local campaign against the challenges of food systems during the pandemic. Michał Janiak, Institute of Animal Reproduction and Food Research, Poland	12:15 - 12:25 (S10.6) Collaborative Artificial Intelligence for Sustainable Manufacturing in the Food Industry Juan S. Angarita-Zapata, University of Deusto, Spain	
					12:40 - 12:50 (S09.8) Synergies and value creation from losses and waste and efficient use of resources in the agri-food chain Manuela Pintado, Universidade Católica Portuguesa, Portugal	12:25 - 12:50 Round table discussion Moderator: Katherine Flynn, IFA – ISEKI-Food Association, Austria	
Lunch Poster Session 2 Atrium and Presidents Terrace							
12:50 - 14:00							

Room	President Suite Level 2
14:00 - 14:30	Plenary Session 3: The role of ohmics in food safety Chair: Dolores O'Riordan and James Lyng
14:00 - 14:30	(PL3.1) Bringing molecular methods to bear on food safety Colin Hill, <i>University College Cork, Ireland</i>
14:30 - 15:10	Plenary Session 4: Awards and announcing EFFoST2023 Chair: Hugo de Vries
14:30 - 15:00	Awards <ul style="list-style-type: none"> • Lifetime Achievement Award and Science to Society Award, Hugo de Vries, President of EFFoST Board • EFFoST Student of the Year Awards, Hugo de Vries, President of EFFoST Board and Ralf Jakobi, <i>Cargill, Belgium</i> • GNT Young Scientist Award, Kai Rieneke, <i>GNT Group, Germany</i> Announcement of EFFoST2023
15:10 - 15:50	Big Afternoon Break Poster Session 2 Atrium and Presidents Terrace Sponsored by Nestlé
Room	President Suite Level 2
15:50 - 17:20	Plenary Session 5: The role of food processing in achieving healthy and sustainable diets Chair: Dolores O'Riordan
15:50 - 16:00	(PL5.1) Gert Meijer, <i>Nestle, Switzerland</i>
16:00 - 16:10	(PL5.2) Giarán Forde, <i>Wageningen University, the Netherlands</i>
16:10 - 16:20	(PL5.3) Liisa Lahteenmaki, <i>Aarhus University, Denmark</i>
16:20 - 16:30	(PL5.4) Eileen Gibney, <i>University College Dublin, Ireland</i>
16:30 - 16:40	(PL5.5) Lilia Ahrné, <i>University of Copenhagen, Denmark</i>
16:40 - 17:20	Plenary Discussion
17.20 - 17:30	Conference Closing Remarks
17:20 - 17:30	Hugo de Vries, <i>President of the EFFoST Board</i> Dolores O'Riordan and James Lyng, <i>Conference Chairs, University College Dublin, Ireland</i>

EFFOST

The European Federation of
Food Science and Technology

Food for all in a changing world



www.effost.org

Follow us on



EFFoST2022 Conference Programme

President Suite Level 2	1872 Room Level 3	Lansdowne Room Level 2	Havelock Suite Level 4	Vavasour Suite Level 0	Special session room 442 Level 4	Special session room 441 Level 4
Day 1: Monday 7 November 2022						
Registration in the Atrium of AVIVA Stadium						
08:30-18:00		08:45-12:10 Young EFFoST Day 2022		Opening NTP2022 & Sustainability of Food Supply for the future through Innovative NTP		
13:00-14:00	EFFoST Welcome & Opening Session Presidents Suite			Emerging Non-thermal Processing Technology - Case Studies		
13:30-14:00	Plenary Session 1: Future proofing the agri-food industry Presidents Suite			Role of NTP in future foods from alternative sources for an increasing global population	Workshop: Upload your scientific work to an open repository	
14:00-15:45	Enhancing the sensory appeal of food	The internet of Things for Food	Sensor technology to enhance food quality	Supporting consumer choices and preferences: technologies to help consumer decisions		
15:45-16:15	Refreshment Break Atrium and Presidents Terrace			Consumer perception and regulatory considerations in relation to NTP		
16:15-18:00	Food toxicology and allergenicity	Techniques to enhance energy efficiency & minimise environmental impact	Modelling, its role in quality by design	Bioactives and secondary metabolites: generation and characterisation		
18:00-20:00	Welcome Reception Atrium and the Mezzanine					
Day 2: Tuesday 8 November 2022						
08:30-10:00	Plenary Session 2: Meeting the future challenges of the food industry Presidents Suite					
10:00-10:30	Refreshment Break Poster Session 1 Atrium and Presidents Terrace					
10:30-12:35	Identifying and preparing for emerging food safety risks	Consumers' attitudes to processed foods and desire for clean labels	Innovative and novel sustainable food processes	Formulation of foods to enhance their sustainability and/or nutritional value	Emerging Non-thermal Processing Technology - Commercial Case studies	Filling knowledge gaps on alternative proteins to accelerate the dietary shift
12:35-13:45	Lunch Poster Session 1 Atrium and Presidents Terrace					12:50-13:15 Special session room 442 Scientist careers in industry - How to be a subject matter expert in corporate organizations Christoph Hartmann, Nestlé, Switzerland <i>Session sponsored by Nestlé</i>
13:45-15:50	Bioinformatics and its role in food safety, hygienic design & contamination control	Advances and challenges in alternative proteins	Advances in food packaging to safeguard food and the environment	Consumer trends and responses to emerging and future foods	How will nonthermal technologies play a part in future local and global food safety and security	The INGREEN journey from agrifood sidestream to bio-based products
15:50-16:20	Refreshment Break Poster Session 1 Atrium and Presidents Terrace					
16:20-18:05	Session 17: Emerging technologies for the rapid detection of food safety issues	Session 18: Designing and producing foods to meet future challenges	Approaches to minimise water use and waste	Robotics, automation and control of food processes	Scaleup, Digital Twins and Modelling of Non-thermal Processing Technologies	Aquaculture and Fisheries sidestream proteins and bioactives as ingredients
19:00-22:00	Conference Dinner Guinness Storehouse					
Day 3: Wednesday 9 November 2022						
08:30-10:35	Protecting the food chain, biosecurity, food fraud and authenticity	Emerging technologies for valorising side streams, food waste & by products	Engineering food structures to enhance nutrient quality and bioavailability	Dietary recommendations - sustainable healthy diet, current & future policies	Meeting future consumer demands for quality, nutritious and healthy foods with NTP	How to make food nutrition security data FAIRer: an introduction to FNS-Cloud
10:35-11:05	Refreshment break Poster Session 2 Atrium and Presidents Terrace					
11:05-12:50	Novel Thermal Technologies	Emerging technologies for valorising side streams, food waste & by products	Formulation of foods to enhance their sustainability and/or nutritional value	The role of foodservice & food retailers in satisfying sustainable healthy diets	Panel Discussion on Future of non-thermal technologies & Closing Address	Innovations for food producers and food SMEs
12:50-14:00	Lunch Poster Session 2 Atrium and Presidents Terrace					
14:00-14:30	Plenary Session 3: The role of ohmics in food safety Presidents Suite					
14:30-15:10	Plenary Session 4: Awards and announcing EFFoST2023 Presidents Suite					
15:10-15:50	Big Afternoon Break Poster Session 2 Atrium and Presidents Terrace					
15:50-17:20	Plenary Session 5: The role of food processing in achieving healthy and sustainable diets Presidents Suite					