



**14TH EUROPEAN NUTRITION CONFERENCE  
FENS 2023, Belgrade, Serbia**

Sava Center  
14-17th November 2023



**14<sup>th</sup> European Nutrition Conference**  
**Daily Programme**  
**for Poster Presentations**

Tuesday 14<sup>th</sup> November 2023

Poster presentations

15:00 – 16:00

Hall A

Track: New technologies in nutrition research

Chair: Janet Cade, University of Leeds, Leeds, United Kingdom

- NTNR8** In silico 3D/4D QSAR prediction of 5-O-caffeoylquinic acid, cyanidin-3-O-galactoside chloride and L-epicatechin anti-inflammatory activity, cytotoxicity and metabolism  
Yoana Kiselova-Kaneva, Irina Potoroko, Diana Ivanova
- NTNR9** Multisensory augmentation does not affect ad libitum food intake or improve satiety sensations but is associated with liking and more suppressed appetite  
Jenni Lappi, Saara Vanhatalo, Jussi Rantala, Antti Sand, Ahmed Farooq, Roope Raisamo, Nesli Sözer
- NTNR10** Photovoicing versus protein FFQ: differences and similarities in measuring protein intake of community dwelling older adults  
Joost Linschooten, Marije Verwijs, Marian de van der Schueren, Annet Roodenburg
- NTNR11** Method Development to Measure a Biomarker Panel Reflecting Dietary Exposure  
Stefania Noerman, Marina Armeni, Otto Savolainen, Rikard Landberg
- NTNR12** Dietary assessment of plant food intake using multi-biomarker panels  
Victor Schmalle, Julia Renz, Stephanie Seifert, Selina Busch, Benedikt Merz, Achim Bub, Manuela Rist
- NTNR13** A quantitative GC×GC-qMS method for sugar profiling in human urine samples  
Elisa Streitenberger, Björn Egert, Sabine Kulling, Carina Mack
- NTNR14** Public perceptions of what provides the greatest public benefit from the use of consumer food data: Results from COMFOCUS public engagement across 6 European countries  
Lada Timotijevic, Lisa Mohebati, Charo Hodgkins, Liisa Lahtemaki, Javier de la Cueva, Elisa Lori, Eric Jansto
- NTNR15** Glycemic Matrix and Segmentation: A new metabolic visualisation and analysis tool  
Nere Arroniz, Alberto Conde, Leire Francés
- NTNR16** Stable isotope ratios of nitrogen  
Jutta Dierkes, Stefan Dietrich, Klaus Abraham,

and carbon as biomarkers of a vegan diet	Bernhard Monien, Adrian McCann, Katrine Borga, Cornelia Weikert
<b>NTNR17</b> Social Network and Sentiment Analysis of the #Nutrition Discourse on Twitter	Cassandra Ellis, Charlotte Evans, Bernadette Moore
<b>NTNR18</b> Postprandial composite biomarkers of low-grade inflammation to evaluate nutritional intervention effects	Suzan Wopereis, Willem van den Brink, Tim van den Broek , Wilrike Pasman, Femke Hoevenaars, Suzan Wopereis
<b>NTNR19</b> Utilisation of technological tools for weight management by Maltese nutrition and dietetic professionals	Hollie Zammit, Claire Copperstone
<b>NTNR20</b> Cancer Risk Reduction with dietary Guidelines Adherence: A Prioritization Approach with a web app	Ruidong Zhang, Pricivel Carrera, Odile Elias, Tobias Norajitra
<b>NTNR21</b> Potential of PLASMA oxylipin signature to better understand the relationships between diet, fatty acids and oxylipins in healthy individuals: new insights from two independent cohort studies	Cécile Gladine, Nils Schebb, Mathilde Touvier, Arne Astrup, Philip Calder, Andrzej Szuba, John Newman
<b>NTNR22</b> Development of an electrical pulse stimulation system for examining in vitro models of exercise	Grzegorz Nikrandt, Anna Radziejewska, Agata Chmurzynska
<b>NTNR23</b> Digital health technologies for coeliac disease: a realist approach	Rosie Cooper, Matthew Kurien, Steve Ariss, Geoff Wong
<b>NTNR24</b> Evaluation of the quality protein and the effect on muscle health of a new ingredient based on hydrolyzed white-egg	Elena Diez-Sánchez, Lidia Tomás-Cobos, Elisa Gallego, Laura Soriano-Romaní, Eugenia Juncal, Raul da Pereira, María Pérez
<b>NTNR25</b> Ophthalmic acebuche oil nanoemulsions against ocular oxidative stress induced by arterial hypertension	Carmen María Vázquez, Álvaro Santana-Garrido, Matilde Durán-Lobato Affiliation , Alfonso Mate, Lucía Martín-Banderas
<b>NTNR26</b> Effects of new lipid supplements during pregnancy on offspring's brain gene expression	Valentina Origüela, Antonio Gázquez, María José López-Andreo, María Pilar Bueno, Mustafa Vurma, Jia Pei Chan, Elvira Larqué

## Hall B

Track: Nutrition, metabolism and chronic disease

Chair: Marialaura Bonaccio, IRCCS Neuromed, Pozzilli, Italy

<b>NMCD56</b> Short term effects of a nutritional assessment program on	Maialen Vázquez-Polo, Gesala Perez-Junkera, Idoia Larretxi, Zuriñe Garcia Casales,
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<p>dietary habits of newly diagnosed celiac children</p> <p><b>NMCD57</b> Is it possible to accomplish a Healthy Breakfast on a Gluten-free Diet? A Study in Children and Adolescents with Celiac Disease in Spain</p>	<p>Pablo Oliver-Goicolea, Estela De La Calle, Arrate Lasa</p> <p>Natalia Úbeda, Maria Purificación Gonzalez, María Achón, Ángela García-González, Catalina Ballester-Fernández, Violeta Fajardo, Elena Alonso–Aperte</p>
<p><b>NMCD58</b> The Dietary Inflammatory Index (DII®) and its correlations with metabolic parameters in a group of patients with type 2 diabetes mellitus</p>	<p>Lidia Iuliana Arhire, Raluca Soimaru, Andreea Gherasim, Otilia Nita, Alina Delia Popa, Laura Mihalache, Mariana Graur</p>
<p><b>NMCD59</b> Spirulina effect on paraoxonase activity</p>	<p>Maja Milanović, Danijela Kojić, Nataša Milošević, Jovana Drljača Lero, Anamarija Mandić, Nataša Milić</p>
<p><b>NMCD60</b> Dietary polyphenol intake in relation to UPF consumption in a Mediterranean population-based cohort: findings from the Moli-sani Study</p>	<p>Emilia Ruggiero, Augusto Di Castelnuovo, Simona Costanzo, Simona Esposito, Giovanni De Gaetano, Licia Iacoviello, Marialaura Bonaccio</p>
<p><b>NMCD61</b> The impact of replacing sugar in sweets by isomalt on blood glucose management: Evidence from recent randomized, controlled trials</p>	<p>Lisa Schweitzer, Stephan Theis</p>
<p><b>NMCD62</b> The intake of sucrose but not of the intense sweetener sucralose is associated with postprandial endotoxemia in healthy young adults</p>	<p>Raphaela Staltner, Anja Baumann, Ina Bergheim</p>
<p><b>NMCD63</b> The combined effect of Cr(III) supplementation and diversified Fe(III) levels in diet on the Ca status in Wistar female rats</p>	<p>Halina Staniek, Daria Rządowska, Ewelina Król, Zbigniew Krejpcio</p>
<p><b>NMCD64</b> High-protein medical nutrition therapy via enteral and/or parenteral nutrition and loss of muscle mass in adult critically ill patients: A single-center randomized controlled trial.</p>	<p>Rayna Stoyanova, Daniela Popova</p>
<p><b>NMCD65</b> Iron and folate intake in pregnant and non-pregnant women</p>	<p>Joanna Suliburska, Rafsan Cholik</p>
<p><b>NMCD66</b> Salicylates intake in pregnant and non-pregnant women</p>	<p>Joanna Suliburska, Rafsan Cholik</p>
<p><b>NMCD67</b> Meal glycemic load, meal frequency, and alertness: Mediation effect of glucose concentration</p>	<p>Perdana Suyoto, Mariëlle DE Rijk, Jeanne De Vries, Edith Feskens</p>
<p><b>NMCD68</b> Iron Chelates but not Iron Salts</p>	<p>Agata Tarczykowska, Niklas Engström, Darja</p>

induce Pro-Oncogenic Amphiregulin in Human Intestinal Cell Lines

Dobermann, Jonathan Powell, Nathalie Scheers

**NMCD69** The importance of better characterising carbohydrate-rich foods to anticipate their health impact

Sophie Vinoy, Agnès Demangeat, Aurélie Goux, Alexandra Meynier

**NMCD70** Environmental Factors Determining Body Mass Index (BMI) within 9 Months of Therapy Post Bariatric Surgery—Sleeve Gastrectomy (SG)

Agata Wawrzyniak, Monika Krotki

## Hall C

Track: Nutrition across the lifecourse

Chairs: Marjolein Visser, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands and Dorothy Meyer, Technical University of Munich, Munich, Germany

**NALC35** The relative validity of a semi-quantitative food frequency questionnaire among pregnant women in the United Arab Emirates: The Mutaba'ah Study

Aisha Almulla, Luai Ahmed, André Hesselink, Hanna Augustin, Linnea Bärebring

**NALC36** The separate and combined associations of physical activity, diet quality and their changes over time with mortality: findings from the EPIC-Norfolk prospective cohort study

Shayan Aryannezhad, Alexander Mok, Fumiaki Imamura, Soren Brage, Nita Forouhi

**NALC37** Sport nutrition knowledge among athletes and recreational people

Snezana Barjaktarovic Labovic, Ines Banjari, Ivana Joksimovic, Zorica Djordjevic, Jelena Balkić Widmann, Dijana Djurovic

**NALC38** Halo Effect of the PENZA multimodal lifestyle intervention on the family members of participants

Anna Boronat, Iris Piera-Molina, Joana Clivillé-Pérez, Oriol Grau-Rivera, Laura Forcano, Rafael de la Torre

**NALC39** Single center observational study of impact of regular consumption of fish oil supplements alongside weight loss medicines on metabolic profile of patients with metabolic syndrome

Ashwinkumar Dabhi

**NALC40** Assessing prevention priorities in French family caregivers of the elderly at risk of loss of autonomy: results from a community intervention on diet

Claire Duga, Alexia Trottier, Narcisse Niamba, Carine Delayre-Orthez, Véronique Vincent, Julie Thomassin Branchu, Anne-Kathrin Illner

**NALC41** Fruits and dairy intake are associated with a lower risk of elevated blood pressure in adults of Sao Paulo,

Paula Felix, Jaqueline Pereira, Flavia Sarti, Marcelo Rogero, Regina Fisberg

Brazil

**NALC42** Dietary intake of female aesthetic athletes

Heather Galea, Petra Jones

**NALC43** Energy drink consumption, sleep, and food choices of adolescents

Arna Osp Gunnarsdottir, Erlingur Sigurdur Johannsson, Bjorn Johannes Hjalmarsson, Ingibjorg Gunnarsdottir

**NALC44** Plasma carotenoids and Metabolic Syndrome severity and cardiometabolic indices among Polish adults with metabolic disorders

Jadwiga Hamułka, Agnieszka Białkowska, Magdalena Górnicka, Monika Zielinska-Pukos

**NALC45** Knowledge of athletes about proper hydration

Ivana Joksimovic, Snezana Bajraktarovic Labovic, Dijana Djurovic, Zorica Djordjevic, Enisa Kujundzic, Magdalena Vujovic, Marina Stamatovic

**NALC46** Salty taste perception in the elderly is an important determinant of sodium intake

Irena Keser, Helena Tomić-Obrdalj, Jasmina Ranilović, Davorka Gajari

**NALC47** Validation and Reproducibility of a web based dietary assessment tool – MyFood24- in Danish Population- The cross-sectional VALID study

Sadime Basak Kisi Kaki, Sidse Ida Ingemann Rasmussen, Caroline Filskov Petersen, Mette Friberg Hitz, Inge Tetens

**NALC48** How parents perceive their children`s weight status – comparison from two COSI rounds in Montenegro

Enisa Kujundzic, Boban Mugosa, Zorica Djordjevic, Ena Grbovic, Sabina Catic, Borko Bajic, Ivana Joksimovic

**NALC49** Self-perceived Parental Dietary Behavior Relates to Diet Quality and Weight Status of Children

Kirsi Laitinen, Irene Mäkelä, Tero Vahlberg, Monique Raats, Ella Koivuniemi

## Room 9

Track: Nutrition and the environment, sustainability and diversity

Chair: Christian Schader, FIBL Switzerland, Frick, Switzerland and Dragan Milicevic, Institute of Meat Hygiene and Technology, Belgrade, Serbia

**NESD29** Analysis of the innovation process in the organic apple production system (CO-FRESH)

Maria Rembiałkowska, Renata Kazimierczak, Hubert Dobrowolski, Justyna Obidzińska

**NESD30** Territorially embedded food systems as a response to the challenges of globalization – students understanding, current status, needs and expectations of university education in this subject area. Case from Poland

Klaudia Kopczyńska, Rita Góralaska-Walczak, Renata Kazimierczak, Carola Strassner, Alexander Wezel, Paola Migliorini, Dominika Średnicka-Tober

<b>NESD31</b> Good teaching practices in experiential learning for effective education in embedded food systems – GOODFOOD project	Klaudia Kopczyńska, Paola Migliorini, Alexander Wezel , Carola Strassner, Ivan Manolov, Adrian Timar, Dominika Średnicka-Tober
<b>NESD32</b> Food biodiversity and diet quality in Dutch adults	Rosalie Bakker, Booij Vera, Mary Nicolaou, Corné van Dooren, Ingeborg Brouwer, Margreet Olthof
<b>NESD33</b> The association between diet quality and diet-related environmental impacts in Chinese adults: heterogeneity across regions	Hongyi Cai, Sander Biesbroek , Zhiyao Chang, Xin Wen, Shenggen Fan, Pieter van 't Veer, Elise Talsma
<b>NESD34</b> Nutritional Adequacy and Environmental Sustainability of Dietary Protein Patterns in Europe	Merel Daas, Pieter van 't Veer, Sander Biesbroek, Elisabeth Temme
<b>NESD35</b> Environmental analysis (LCA) of the association EKOOWOC – CO-FRESH	Justyna Obidzińska, Renata Kazimierczak, Hubert Dobrowolski, Ewa Rembiałkowska
<b>NESD36</b> Perception and consumption of organic food in a group of organic and conventional fruit growers – a pilot study (CO-FRESH project)	Hubert Dobrowolski, Justyna Obidzińska, Ewa Rembiałkowska, Renata Kazimierczak, Dariusz Włodarek
<b>NESD37</b> A workshop on Food Consciousness and Traditional Japanese Culinary Practice increases awareness of sensory food properties, mindful eating, and food waste reduction actions	Ada Lizbeth Garcia, Megan Breheny, Saeko Yazaki
<b>NESD38</b> Organic agro-food systems as models for sustainable food systems in Europe and Northern Africa	Rita Góralaska-Walczak, Klaudia Kopczyńska, Renata Kazimierczak, Carola Strassner, Susanne Bügel, Lilliana Stefanovic, Dominika Średnicka-Tober
<b>NESD39</b> Is organic food consumption associated with other sustainable dietary choices and behaviours? Study based on a survey carried out in capital city of Poland	Rita Góralaska-Walczak, Renata Kazimierczak, Klaudia Kopczyńska, Lea Ellen Matthiessen, Susanne Bügel, Lilliana Stefanovic, Dominika Średnicka-Tober
<b>NESD40</b> The feasibility of reducing the environmental impact and costs of the Dutch diet of young adults through single-item substitutions	Reina Vellinga, Elisabeth Temme
<b>NESD41</b> The effect of nature-based solutions on human nutrition and food security in urban settings	Aliki Kalmpourtzidou, Rachele De Giuseppe, Alessandra Vincenti, Ghanya Al-Naqeb, Hellas Cena
<b>NESD42</b> Environmental impact and food consumption among current diets and	Aliki Kalmpourtzidou, Beatrice Biasini, Alice Rosi, Francesca Scazzina

alternative dietary scenarios worldwide: a systematic review

## Room 11

Track: Dietary studies, guides and recommendations

Chairs: Jyrki Virtanen, University of Eastern Finland, Kuopio, Finland and Kurt Gedrich, Technical University of Munich, Munich, Germany

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| <b>DSGR37</b> Utility of a qualitative, dietary diary 'Self-monitorYourDiet®' to improve diet quality and compliance with dietary recommendations  | Lidia Wadolowska   |
| <b>DSGR38</b> VEGANScreener for a quick (self-) assessment of diet quality of vegans in Europe: the tool development procedure   | Selma Kronsteiner Gicevic, Maira Bes-Rastrollo, Jan Gojda, Stefaan De Henauw, Markus Keller, Marek Kuzma, Eva Schernhammer |
| <b>DSGR39</b> Survey of Nutrition and Health Claims on New Zealand foods and beverages   | Donnell Alexander, Julie North, Sara Collie, Kelsey Patterson, Libby Hattersley, Evelyn Mete                               |
| <b>DSGR40</b> The nutritional benefit of UV-treated mushrooms for the Dutch population: Modelling the addition of UV treated mushrooms to the diet   | Ellen Van Den Heuvel, Lydia Bechraki, Inge Groenendijk, Lisette De Groot   |
| <b>DSGR41</b> Trends in sweetness of the diet in the United Kingdom: 2008/9 through 2018/19  | Inga Kutepova, Alison Kamil, Alissa Wilson, Colin Rehm   |
| <b>DSGR42</b> Development of a 3-component Breakfast Quality Score (BQS) to evaluate nutrient density of breakfast meals   | Romane Poinot, Matthieu Maillot, Sinead Hopkins, Diane Zimmermann, Adam Drewnowski, Gabriel Masset                         |
| <b>DSGR43</b> Assessment of the relationship between eating habits and the risk of depression in women with polycystic ovary syndrome  | Karolina Łagowska, Joanna Bajerska, Joanna Pieczyńska, Kamila Fludra   |
| <b>DSGR44</b> The front-of pack label Nutri-Score does not lead to increased purchases of healthier foods  | Hans Verhagen, Stephan Peters  |
| <b>DSGR45</b> The updated algorithm of front-of-pack label Nutri-Score is not in line with Dutch food-based dietary guidelines. Results of calculations with Dutch food composition database | Jacco Gerritsen, Hans Verhagen, Stephan Peters   |
| <b>DSGR46</b> Negative dietary practices   | Vesselka Duleva, Ekaterina Chikova-Iscener,  |



among 7-years-old schoolchildren in Bulgaria	Lalka Rangelova, Plamen Dimitrov
<b>DSGR47</b> Sugar replacers in confectionary beyond sugar-free chewing-gums: oral health benefits of polyols in tablets, demonstration using a customized-reversed pH-telemetry test	Florian Wegehaupt , Daniel Wils, Caroline Perreau, Clémentine Thabuis
<b>DSGR48</b> Simple model for estimating dietary intake of dietary fibre	Blaž Ferjančič, Mojca Korošec, Jasna Bertoncej
<b>DSGR49</b> Assessment of vitamin D intake and status in Slovenian premenopausal and postmenopausal women	Vid Vičić, Petra Pavlič, Valentina Rok, Saša Kugler, Andreja Kukec, Ruža Pandel Mikuš
<b>DSGR50</b> Limited nutrient deficiency risks and significant modelled health benefits in French adults following a more plant-based diet	Pauline Mombert, Jean-François Huneau, Juhui Wang, Jeanne-Marie Membré, François Mariotti
<b>DSGR51</b> Adherence to the World Cancer Research Fund/American Institute for Cancer Research (WCRF/AICR) and Mortality risk: A Prospective Cohort Study from the Health Examinees study	Jeeyoo Lee, Aesun Shin, Woo-Kyoung Shin, Ji-Yeob Choi, Daehee Kang, Jong-Koo Lee
<b>DSGR52</b> Breakfast consumption indicate a higher adherence to the food-based dietary guidelines and a healthier lifestyle	Torunn Holm Totland, Marianne Hope Abel

### Room 13

Track: Nutrition, metabolism and chronic disease

Chair: Nevena Dabetic, University of Belgrade, Belgrade, Serbia

<b>NMCD71</b> Systematic review and meta-analysis of chicory inulin-type fructans supplementation on weight management aspects	Yoghatama Cindya Zanzer, Stephan Thies
<b>NMCD72</b> Dietary patterns and colorectal cancer risk: a case-control study among Chinese population	Caixia Zhang, Ting Ma
<b>NMCD73</b> Assessment of lifestyle patterns in patients with type 2 diabetes	Andreea Gherasim, Lidia Iuliana Arhire, Otilia Niță, Alina Delia Popa, Mariana Graur, Laura Mihalache
<b>NMCD74</b> True ileal amino acid and protein digestibility of faba bean in healthy humans	Suvi Itkonen, Juliane Calvez, Gheorge Airinei, Martin Chapelais, Asko Simojoki, Anne-Maria Pajari, Claire Gaudichon

- NMCD75** Can planetary health mean population health? Higher adherence to the EAT-Lancet reference diet is inversely associated with mortality in a UK population of cancer survivors  
Nena Karavasiloglou, Giulia Pestoni, Anika Knuppel, Keren Papier, Aedín Cassidy, Tilman Kühn, Sabine Rohrmann
- NMCD76** Association of unhealthy lifestyle score on the risk of hypertension, dyslipidemia, and their comorbidity in Korea: A cross-sectional study  
Ji-Sook Kong, Mi Kyung Kim
- NMCD77** Nutrigenomic effects of a high-fat diet and a dietary change to a low-fat diet in the pancreas in a mouse model of pancreatic carcinogenesis  
Irena Krga, Joanna Wirkus, Aya Ead, Gerardo Mackenzie
- NMCD78** The effect of Adzuki bean extract on antioxidant and anti-inflammatory indices in diabetic rats  
Ewelina Król, Halina Staniek, Zbigniew Krejpcio, Dawid Szczepankiewicz, Małgorzata Gumienna, Barbara Górna
- NMCD79** The effect of Gingko biloba extract and zinc supplementation on iron status in diabetic rats  
Ewelina Król, Halina Staniek, Joanna Mikołajczyk-Stecyna, Zbigniew Krejpcio
- NMCD80** Shotgun metagenomic profiling sheds light on the interplay between dietary substrates and functional gut microbiome variations in chronic kidney disease: a focus on uraemic toxins and short chain fatty acids  
Hubert Krukowski, Sophie Valkenburg, Geert Huys, Ann Gregory, Marie Joossens, Griet Glorieux, Jeroen Raes
- NMCD81** The association between body fluid rate with plasma lipid profile independent of adiposity in young adults  
Xin Liu, Junqi Li, Jiawen Xie, Guoqing Ma, Kun Xu, Jiaomei Yang
- NMCD82** Fruit and vegetable intake and cardiovascular disease in the UK Biobank: the role of confounding  
Fiona Maclean, Eirini Trichia, Timothy Key, Jennifer Carter
- NMCD83** Association of inflammatory biomarkers with the gut microbiota and short-chain fatty acids in prediabetic subjects.  
Ascensión Marcos, Ligia Esperanza Diaz Prieto, Sonia Gomez-Martínez, Iván Vicente Castro, María Carmen Martín Ridaura, Nerea Iturmendi, Esther Nova
- NMCD84** Effect of isoenergetic replacement of cheese with other dairy products on fasting blood lipid markers: A systematic review and meta-analysis of randomized controlled trials among disease-free adults  
Oonagh Markey, Thomas Norris, Laury Sellem, Rebecca Pradeilles
- NMCD85** Modulation of gut microbiota through nutritional interventions in Behçet's syndrome patients: preliminary  
Giuditta Pagliai, Silvia Turrone, Federica D'Amico, Irene Mattioli, Marta Tristan Asensi,

**Room 14**

## Track: Dietary bioactives

Chairs: Ana Rodriguez-Mateos, Kings College London, London, UK and Dejan Jancic, Center for Ecotoxicological Research Podgorica, Podgorica, Montenegro

**DB15** The effect of probiotics on response to vaccination in older adults: a systematic review of randomised

Hediye Arioiz Tunc, Philip Calder

**DB16** From the literature to our cells: a critical appraisal of the bioactivity and role of Vitamin C, Folate and Riboflavin in Nutrition and Health Claims

Belen Beltramo, Miriam Urlings, Carmen M. Padilla-Díaz, Aalt Bast, Hanne Diliën, Alie de Boer

**DB17** Health Beneficial Effects of Carotenoids Related to their Interactions with Gut Microbiota

Torsten Bohn, Abdulkerim Eroglu, Ibrahim Al'Abri, Rachel Kopec, Nathan Crook

**DB18** Effect of digestion on health-beneficially properties of yogurt enriched with micellar casein concentrate and milk serum proteins mixed with buttermilk concentrate

Małgorzata Darewicz, Anna Iwaniak, Justyna Borawska-Dziadkiewicz, Damir Mogut, Piotr Minkiewicz, Maria Baranowska, Justyna Tarapata

**DB20** Ligustroside derived from *Ligustrum japonicum* inhibits melanogenesis through the downregulation of MAPK and PKA/CREB signaling pathways

Xianrong Zhou, Jung Hwan Oh, Fatih Karadeniz, Hyo Eun Kim, Migeon Jo, Youngwan Seo, Chang-Suk Kong

**DB21** The contribution of short-chain fatty acids to health benefits may depend on the site of absorption: a mechanistic study design

Riet Rosseel, Kristin Verbeke

**DB22** Anti-/prooxidant activity of small phenolic metabolites of quercetin in relation to their interaction with copper

Zuzana Lomozová, Jana Karlíčková, Přemysl Mladěnka

**DB23** Antioxidant, anti-inflammatory and DNA protecting effects of some natural extracts against acute hepatotoxicity in rats

Yara Mohamed Taha, Mohamed Ali El Desouky, Heba Kamal Abdel Hakim, Maha Hanafy Mahmoud

**DB24** Avenanthramides, Avenacosides and  $\beta$ -Glucans in oat-based milk alternatives - How oats nutritional compounds are being affected by various stages of processing

Roisin McCarron, Lisa Methven, Stephanie Grahl, Ruan Elliot, Stella Ligno

**DB25** Short-term feeding of a berries-enriched diet affects the microbiome and metabolome across the mammalian intestine

Catarina Pinto, María Ángeles Ávila-Glvez, Pakavarin Louphrasitthiphol, David Berry, Pedro Moura-Alves, Cláudia Nunes dos Santos

**DB26** Green approach for isolation of phytochemicals from Lamiaceae plants

Branislava Teofilović, Nevena Grujić-Letić, Emilia Gligorić, Snežana Papović, Žarko Gagić, Biljana Tubić, Milan Vraneš

**DB27** Antioxidant properties of wine produced by innovative winemaking techniques from new grape variety Vožd

Uroš Čakar, Ivana Plavšić Janjatović, Nikolina Živković, Aleksandar Petrović, Ljiljana Gojković-Bukarica

**DB28** Hydroxytyrosol from the diet: food sources and dietary intake

Ana Troncoso, Marta Gallardo-Fernandez, Marina Gonzalez-Ramirez, Ana Cerezo, Carmen Garcia-Parrilla

**DB29** Study of bioactives and other nutritional components in a jaggery production process

Nisha Pujari, Nirali Dedhia, Sanjay Mahajani, Narendra Shah, Amit Arora

## Room 16

Track: Nutrition across the lifecourse

Chairs: Sian Robinson, Newcastle University, Newcastle, United Kingdom and Budimka Novakovic, University of Novi Sad, Novi Sad, Serbia

**NALC50** Our experience in testing potential prebiotics

Nikoleta Lugonja, Miroslav M. Vrvic

**NALC51** Contribution of energy, protein intake and the interaction with physical activity to transitions between frailty states: prospective analysis of the UK Biobank

Nuno Mendonça, Ana Rodrgiues, Ana Henriques, Helena Canhão, Armando Raimundo

**NALC52** Socio-economic variables are associated with mean adequacy ratio in Nigerian children

Lynda O'Neill, Li-Tang Tsai, Dantong Wang, Rasaki Sanusi, Marie Tassy, Myriam Afeiche Zehil

**NALC53** High adherence to Mediterranean Diet and fish intake are inversely associated with depressive symptoms in older women: findings from the cross-sectional NutBrain Study

Federica Prinelli, Silvia Conti, Nithiya Jesuthasan, Elena Perdixi, Matteo Cotta Ramusino, Alfredo Costa, Sara Bernini

**NALC54** The relationship between diet and selected anthropometric measurements of pregnantwomen in Jersey, UK, and the birth status of the newborn. Crosscultural study

Urszula Sliwka, Neil MacLachlan, Anna Danielewicz, Justyna Borawska-Dziadkiewicz, Katarzyna Przybylowicz

- NALC55** Preliminary prevalence of vitamin D and iron deficiency in healthy primary school children  
Emily Royle, Kirsty Pourshahidi, Emeir McSorley, Pamela Magee
- NALC56** Nutritional relevance and guidelines defining a vitamin A5/X as a critical factor for mental health  
Ralph Rühl, Torsten Bohn, Isabelle Mack, Diana Banati, Volker Böhm, Angel de Lera, Wojciech Krezel
- NALC57** Dietary phytochemical index in school-age children: sociodemographic and lifestyle related factors  
Ivana Rumbak, Ana Ilić, Petra Škorvaga, Ružica Brečić, Irena Colić Barić, Martina Bituh
- NALC58** Oral Nutritional Supplementation supports achievement of developmental skills, temperament traits and parent reported toddler quality of life in toddlers experiencing growth concerns  
Tinu Samuel, Dominik Grathwohl, Jodi Bettler, Purva Rajhans, Jowena Lebumfacil, Rachel Lawenko, Elvira Estorninos
- NALC59** Oral Nutritional Supplementation combined with dietary counselling promotes growth, nutritional adequacy and is well accepted in toddlers experiencing growth concerns  
Tinu Samuel, Dominik Grathwohl, Jodi Bettler, Jowena Lebumfacil, Rachel Lawenko, Imelda Angeles-Agdeppa, Elvira Estorninos
- NALC60** Landscape of nutrition or diet-related randomised controlled trials: data from protocols published between 2012 and 2022  
Michael Schlüssel, Flavia Moraes, Simone Bernardes, Solange Durão
- NALC61** Effect of Mediterranean diet adherence and its interaction with genetic susceptibility to obesity on adiposity in European children: the IDEFICS/I.Family study  
Miguel Seral-Cortes, Gabin Drouard, Guiomar Masip, Leonie Bogl, Michael Tornaritis, Ronja Foraita, Luis Moreno
- NALC62** Dietary Intakes of Sugar in the Student Population from Fruits and Beverages  
Margarita Dodevska, Jelena Kukic-Markovic, Nevena Ivanovic, Tamara Perisic, Verica Jovanovic
- NALC63** The effect of protein and protein source on appetite in older adults: Preliminary findings from the FortiPhy Study  
Ezgi Ozen, Katherine Roberts-Thomson, Rachel Smith, Claire Sulmont-Rosse, Lisa Methven, Miriam Clegg
- NALC64** Crosstalk between fatty acid intake, biomarker status, and cardiovascular disease risk assessment by an atherogenic plasma index in postmenopausal women  
Danijela Ristic-Medic, Vesna Vucic, Aleksandra Skoczek-Rubińska, Lidia Małczak, Aleksandra Arsic, Milica Kojadinovic, Joanna Bajerska

Chairs: Małgorzata Maraj, Jagiellonian University Medical College, Krakow, Poland and Milica Zrnica Ciric, University of Belgrade, Belgrade, Serbia

**NMCD86** Short-term effects of crackers on glycemic index and glycemic responses. A randomized clinical trial in healthy adults

Emilia Papakonstantinou, Vasilis Alsab, Foteini Lympaki, Sofia Chanioti, Marianna Giannoglou, George Katsaros

**NMCD87** Effect of the gluten-free diet on folate status and body composition in a sample of Spanish women with celiac disease

Nuria Martinez-Saez, María Purificación Gonzalez, Rocío De La Iglesia, Julia Almazan, María Achon, Natalia Úbeda, Elena Alonso-Aperte

**NMCD88** Associations of early childhood body mass index trajectories with body composition and cardiometabolic markers at age 10 years: the Ethiopian iABC birth cohort study

Bikila Soboka Megersa, Henrik Friis, Tsinuel Girma, Suzanne Filteau, Dorothea Nitsch, Jonathan Wells, Rasmus Wibaek

**NMCD89** Impact of nutrition intervention on mental health outcomes in adults: preliminary evidence from a systematic review and meta-analysis

Lynsey Montgomery, Helene McNulty, Mary Ward, Shane Gordon, Michelle Clements, Leane Hoey, Catherine Hughes

**NMCD90** Markers of inflammation in healthy men partly replacing dietary red and processed meat with legume products in RCT

Tuulia Pietilä, Elisabetta Cantini, Tiina Pellinen, Anne Salonen, Anne-Maria Pajari

**NMCD91** Relationship Between Time Restricted Fasting and the Human Gut Microbiota: a scoping review

Alina Delia Popa, Otilia Nita, Andreea Gherasim, Laura Mihalache, Lidia Iuliana Arhire

**NMCD92** The effect of a maternal cafeteria diet on adipose tissue browning and body composition of mothers and offspring in the rat

Anna Radziejewska, Julia Matuszewska, Joanna Śliwowska, Agata Chmurzynska

**NMCD93** Association of omega-3 index and blood cell count-derived systemic inflammatory indexes among testicular germ cell tumor survivors

Milica Zeković, Marko Živković, Marija Takić, Sanja Stanković, Nebojša Bojanić, Aleksandar Janičić, Uroš Bumbaširević

**NMCD94** Gut inflammation markers, diet, and risk of type 1 diabetes related autoimmunity in Finnish children

Tuuli Salo, Leena Hakola, Sari Niinistö, Hanna-Mari Takkinen, Mikael Knip, Suvi Virtanen, The DIPP Steering Committee

**NMCD95** Diurnal differences in glycemic response to meals containing different bread types among persons at risk for type 2 diabetes - Preliminary results from

Alena Marie Schadow, Marc Gartner, Bianca Stutz, Bettina Krueger, Jutta Dierkes, Anette Buyken

a CarbHealth sub-study

**NMCD96** The effect of Cr(III) supplementation in combination with diversified Zn content in the diet on the Cr status in Wistar rats

Halina Staniek, Ewelina Król, Zbigniew Krejpcio

**NMCD97** Effects of Time-restricted Hypocaloric Mediterranean Diet in Patients with Non-alcoholic Fatty Liver Disease: Preliminary Data of the CHRONO-NAFLD Project

Sofia Tsitsou, Evangelos Cholongitas, Triada Bali, Antonia Neonaki, Kalliopi Anna Poulia, Emilia Papakonstantinou

**NMCD98** Risk Characterization of Aflatoxin M1 Exposure of Children and Adolescents in Serbia

Bozidar Udovički, Tanja Keskić, Andreja Rajković

**NMCD99** Fatty acid profile and health lipid quality indices of daily meals provided in kindergartens in Novi Sad, Serbia

Radmila Velicki, Milka Popović, Sanja Bijelović, Ljilja Torović

**NMCD100** Assessment of Adherence to the Mediterranean Diet and Physical Activity Levels in a group of Italian Celiac Disease patients

Giorgia Vici, Laura Malandrino, Debora Giustozzi, Dalia Camilletti, Silvia Zufolino, Valeria Polzonetti

## Room 2

Track: Food science

Chairs: Rosica Popova, Medical Faculty Sofia University, Sofia, Bulgaria

**FS15** Analysis of lactate content in selected commercial plain and fruit-strawberry yogurts from the Serbian market

Gordana Oggiano, Biljana Pokimica, Tamara Popović, Jasmina Debeljak-Martačić, Jelena Milešević, Marija Takić

**FS16** Total polyphenols and antioxidant activity of commercial yogurts with strawberry preparations from the Serbian market

Biljana Pokimica, Gordana Oggiano, Jasmina Debeljak-Martačić, Tamara Popović, Ivana Šarac, Marija Takić

**FS17** The efficacy of inulin as a cryoprotectant agent on the nutritional and quality characteristics of frozen sour cherry subjected to different freezing treatments

Ahmet Görgüç, Fatih Mehmet Yilmaz

**FS18** Potencies of Green Extraction Techniques in the Production of High-Yield Inulin Powder from Jerusalem

Kardelen Demirci, Ahmet Görgüç, Beyzanur Bayraktar, Fatih Mehmet Yilmaz

## Artichoke

- FS19** The Effect of Sodium Metabisulfite Dipping Pretreatment on the Selected Quality Parameters of Apple Snacks  
Fatih Mehmet Yilmaz, Semra Bozkurt, Ahmet Görgüç, Özlem Erdoğan, Hülya Yaman, Simge Kurumaz
- FS20** The effect of storage temperature on chocolate texture  
Sanja Oručević Žuljević, Lejla Muhović, Amila Oras
- FS21** Impact of malted grains on human intestinal microbiota composition in an in vitro model  
Carlos Gómez Gallego, Rosa-Maria Willman, Kati Martikainen, Marjukka Kolehmainen
- FS22** The use of unconventional feedings from the industrial waste of oilseeds in dairy goat nutrition: effects on the nutritional quality of milk and dairy products and on human health  
Marta Tristan Asensi, Giuditta Pagliai, Monica Dinu, Antonia Napoletano, Guido Invernizzi, Arianna Buccioni, Francesco Sofi
- FS23** Evaluation of the possibility of using buckwheat hulls as an addition to bread  
Joanna Maria Klepacka, Marta Czarnowska-Kujawska
- FS24** Nutritional and bioactive properties of plant-based sausages containing potato protein, ferritin and a blend of cold-pressed oils  
Krzysztof Smarzyński, Wojciech Cichocki, Hanna Maria Baranowska, Anna Olejnik, Paweł Jeżowski, Przemysław Łukasz Kowalczewski
- FS25** Mycobiota and mycotoxin content of cereal flours from Serbian market  
Ferenc Bagi, Olja Todorić, Miona Belović, Miloš Radosavljević, Goran Barać, Renata Iličić, Aleksandra Torbica

## Room 3

Track: Food science

Chairs: Hanna Tuomisto, University of Helsinki, Helsinki, Finland and Mirjana Pesic, University of Belgrade, Belgrade, Serbia

- FS26** Gluten content of gluten free products marketed in Serbia  
Gordana Milojević Miodragović, Ljilja Torović, Sanja Bijelović
- FS27** Long-chain polyunsaturated fatty acids intake through fish oil food supplements  
Ljilja Torović, Jelena Banović Fuentes, Sanja Bijelović
- FS28** Fatty acid profile of vegan omega-3 food supplements  
Gordana Milojević Miodragović, Jelena Banović Fuentes, Ljilja Torović
- FS29** Comparative advantages of fatty acid composition and nutritional indices of specific edible plant oils  
Milka Popović, Jelena Banović Fuentes, Nevena Papović, Nina Okuka, Relja Suručić, Ljilja Torović
- FS30** Prediction of the potential of food  
Anna Iwaniak, Małgorzata Darewicz, Piotr



proteins as the sources of biopeptides using BIOPEP-UWM database

Minkiewicz

**FS31** In-depth analysis of edible yeast-based proteins digestion in human using the dynamic in vitro TIM-1 model

Ccori Martinez Tuppia, Juliette Caron, Elyse Parent, Sothany Gastel, Sabrina Telki-Bayens, Pauline Spolaore, Isabelle Mouly, Rudy Menin, Eric Oriol and Nabil Bosco

**FS32** Nutrient profile of packaged foods according to the degree of processing

Carla Almeida, Patrícia Padrão, Catarina Vale

**FS33** Availability of special diets for children in public nurseries and kindergartens in Krakow (Southern Poland)

Beata Piórecka, Agnieszka Koziół-Kozakowska, Przemysław Holko, Iwona Kowalska-Bobko, Paweł Kawalec

**FS34** In search for biological activity of orange wines: polyphenolic profile and in vitro inhibition of digestive enzymes

Ivana Beara, Tatjana Majkić, Ljiljana Milovanović, Ljilja Torović

**FS35** Total SO<sub>2</sub> content and health risk associated to Serbian orange wines

Ivana Beara, Saša Popov, Tatjana Majkić, Ljiljana Milovanović, Ljilja Torović

Wednesday 15<sup>th</sup> November 2023

Poster presentations  
15:00 – 16:00

Hall A

Track: Food science

Chairs: Sladjana Sobajic, University of Belgrade, Belgrade, Serbia

**FS36** A review of the potential health benefits of a new red-coloured kiwifruit variant

Simone Bayer, Dominic Lomiwes, Tony McGhie, Tamlin Conner, Margreet Visser, Carolyn Lister, Richard Geary

**FS37** Assessment of acrylamide and 5-hydroxymethylfurfural content in corn-based snack products marketed in Serbia

Sladana Žilić, Beka Sarić, Burçe Ataç Mogol, Natalija Kravić, Aytül Hamzalıoğlu, Marijana Simić, Valentina Nikolić, Vural Gökmen

**FS38** Medical health hazards in the production of meat and meat products

Tsvetelina Vitkova, Vanya Boycheva (Birdanova), Rositsa Enikova

**FS39** Every drop counts – The current methods for determining the quality of human milk

Nikoleta Lugonja, Dalibor Stankovic, Vesna Marinkovic, Jelena Avdalovic, Snezana Spasic, Miroslav Vrvic

**FS40** Mercury content in fish oil food supplements and associated health risk

Ljilja Torović, Jelena Banović Fuentes, Nataša Stanojković, Danijela Lukić, Mirjana Djermanović

**FS41** Gluten in beers: Evaluation of reproducibility of the R5-based competitive ELISA method using real samples

Maria del Pilar Fernandez-Gil, Marian Bustamante, Jon Esparta, Olaia Martinez, Jonatan Miranda, Edurne Simón

**FS42** Characteristics of sports supplements on the Serbian market

Natalija Kurmazović, Bojana Vidović, Sladana Šobajić

**FS43** Grape pomace seed and skin powder as a source of dietary fibre

Danijel Milinčić, Bojana Vidović, Sladjana Stanojević, Mirjana Pešić

**FS44** Phenolics and flavonoid content in selected seeds from the Serbian market

Margarita Dodevska, Nevena Ivanovic, Jelena Kukic-Markovic, Verica Jovanovic

**FS45** Sensory evaluation of prototypes of novel dishes and recipes based on underutilized foods

Marija Ranic, Marija Knez, Jelena Milesevic, Nevena Vidovic, Vuk Stevanovic, Agi Kadvan, Mirjana Gurinovic

**FS46** Higher vitamin D2 and 25(OH)D2,

Erika Rosbotham, Colin McRoberts, Ruth

but not vitamin D3 metabolites, in bovine plasma and muscle from grass-based finishing system, compared to concentrate	Price, Sean Strain, Michael McWhinney, Kirsty Pourshahidi
<b>FS47</b> Impact of dry-heat treatment temperature on the bioactive compounds and techno-functional properties of maize flour	Marijana Simić, Valentina Nikolić, Slađana Žilić, Marko Vasić, Beka Sarić
<b>FS48</b> The effect of various thermal processes on the antioxidant status of sprats and sardines	Aneta Kopeć, Joanna Skoczylas, Ewa Piątkowska, Teresa Leszczyńska, Ivo Daskocil
<b>FS49</b> Concentration of iodine and selenium in fish depends on the type of thermal process	Aneta Kopeć, Joanna Skoczylas, Ewa Piątkowska, Teresa Leszczyńska, Sylwester Smoleń, Joanna Pitala, Ivo Daskocil
<b>FS50</b> Fruit wine and its biologically active compounds ability in the health prevention	Uroš Čakar, Maria Čebela, Aleksandar Petrović, Ivan Stanković, Brižita Đorđević
<b>FS51</b> Examination of the NK-mediated Anti-Cancer and Immunomodulatory Activities of an Aqueous Extract of Sesamum indicum Seeds	Amin Majdalawieh, Jenna Farraj, Ronald Carr
<b>FS52</b> Grape seed powders as a source of phenolic compounds: UHPLC Orbitrap MS4 characterization	Danijel Milinčić, Uroš Gašić, Aleksandar Kostić, Slađana Stanojević, Živoslav Tešić, Mirjana Pešić

## Hall B

Track: Nutrition, metabolism and chronic disease

Chairs: Monica Dinu, University of Florence, Florence, Italy and Maja Milanovic, University of Novi Sad, Novi Sad, Serbia

<b>NMCD101</b> Dietary supplementation with acebuche oil prevents retinal dysfunction and fibrotic events in L-NAME-induced hypertensive mice	Álvaro Santana-Garrido, Claudia Reyes-Goya, Helder André, Alfonso Mate, Carmen María Vázquez
<b>NMCD102</b> Effect of gastric bypass on digestibility and postprandial metabolic fate of 15N dietary protein in rats	Soukaina Benhaddou, Lara Ribeiro-Parenti, Nadezda Khodorova, Alexandra Willemetz, Martin Chapelais, Maude Le Gall, Claire Gaudichon
<b>NMCD103</b> Cluster profiles of health metabolic markers and vitamin D.	Ángela Alcalá-Santiago, Miguel Rodríguez-Barranco, Celia Rodríguez-Pérez, María José Sánchez, Esther Molina-Montes
<b>NMCD104</b> Is the generation of active	Ryan Barlow, Helene McNulty, Catherine

- vitamin B6 dependent upon riboflavin status? New analysis of data from RCTs of riboflavin supplementation
- NMCD105** The sweeteners saccharin, sucralose, and stevia rebaudioside A differentially affect the gut microbiota in a validated in vitro model of the human colon, a SWEET substudy
- NMCD106** Can we use extracellular water to total body water ratio as a predictor of nutritional status of patients with colorectal cancer at the time of diagnosis
- NMCD107** The Importance of Nutritional Status Assessment in Preoperative Bariatric Patients: Correlations Between BIA, CRP and vitamin status
- NMCD108** Impact of plant-based diets on weight management and cardiometabolic health: a systematic review of European intervention studies in populations with overweight and obesity
- NMCD109** Comparative Analysis of Fatty Acid Profiles in Erythrocyte Membranes in Vegetarians Compared to Omnivores
- NMCD110** Dietary intakes of polycyclic aromatic hydrocarbons (PAHs) and breast cancer risk: EPIC cohort study in 9 European countries
- NMCD111** Dietary intake of acrylamide is associated with an increased risk of mortality in women: evidence from the E3N prospective cohort
- NMCD112** Disentangling the Immunomodulatory Effects of Vitamin D on the SARS-CoV-2 virus by in vitro approaches.
- NMCD113** Bile acids and the gut microbiome: an emerging therapeutic
- NMCD114** Paraoxonase in early stage breast cancer women: link with diet intakes and survival parameters
- Hughes, Kristina Pentieva, Geraldine Horigan, Yvonne Lamers, Mary Ward
- Jacco Bastings, Mônica Maurer Sost, Michelle Pang, Anne Raben, Jason Halford, Koen Venema, Ellen Blaak
- Martina Bituh, Mirna Šporčić, Irena Martinis, Jelena Pugelnik, Toni Kolak, Josip Baković, Božica Jerak
- Martina Bituh, Mirjana Kardum Pejić, Irena Martinis, Domagoj Vergles, Mirna Šporčić, Jelena Pugelnik, Dora Canjuga
- Emilie Combet, Martha Redway, Mayra Vergelin Soler, Kwanruethai Suejang, Chaitong Churuangsuk, Frederick Ho, Stuart Gray
- Marta Despotović, Jasmina Debeljak Martačić, Ivana Šarac, Gordana Petrović Oggiano, Slavica Ranković, Marija Takić
- Thibault Fiolet, Corinne Casagrande, Geneviève Nicolas, EPIC consortium, Marina Kvaskoff, Inge Huybrechts, Francesca-Romana Mancini
- Chloé Marques, Pauline Frenoy, Alexis Elbaz, Nasser Laouali, Sanam Shah, Gianluca Severi, Francesca Romana Mancini
- Ángela Alcalá-Santiago, Noelia Rodriguez-Martin, Esther Molina-Montes, Justo Pedroche
- Abigail Basson, Kimberly Watson, Glenn Gibson
- Christine Bobin-Dubigeon, Loic Campion, Clemence Bossard, Elsa Rossignol, Jean Sebastien Frenel, Mario Campone, Jean Marie

Bard

**NMCD115** More thorough mastication of bread may stimulate the production of an early phase insulin release: Preliminary associative results from a double-blind randomized controlled trial

Georgia Chatonidi, Boushra Dalile, Kristin Verbeke

## Hall C

Track: Dietary studies, guides and recommendations

Chairs: Vesselka Duleva, National Center of Public Health and Analyses, Sofia, Bulgaria and Mélanie Deschasaux-Tanguy, Paric Cite University, Paris, France

**DSGR53** Exploring Solutions to Folate Deficiency in the United Kingdom: Parsnips as a Case Study for Dietary Intervention

Annabelle Somers, Jenny Baverstock, Philip Calder, Frances Gawthrop, Eleftheria Stavridou, Guy Poppy

**DSGR54** Gender differences in Adherence to Dietary Recommendations and Guidelines among community-dwelling older Italian adults

Silvia Conti, Sara Bernini, Elena Perdixi, Nithiya Jesuthasan, Alfredo Costa, Matteo Cotta Ramusino, Federica Prinelli

**DSGR55** Food additive emulsifiers and risk of type 2 diabetes: results from the French prospective NutriNet-Santé cohort

Clara Salame, Bernard Srouf, Serge Herberg Melanie Mélanie Deschasaux-Tanguy, Emmanuel Cosson, Mathilde Touvier

**DSGR56** Walnut consumption improves sleep quality: A randomized-controlled trial

Maria Izquierdo-Pulido, Maria Fernanda Zerón-Rugério, Aradeisy Ibarra-Picón, María Díez-Hernández, Francisco Pérez-Cano, Trinitat Cambras

**DSGR57** Dietary patterns of Serbian adults 10-74 years old: Serbian national food consumption survey following EU Menu methodology

Jelena Milešević, Milica Zeković, Ivana Šarac, Marija Knez, Irena Krga, Vuk Stevanović, Mirjana Gurinović

**DSGR58** Walnut consumption reduces perceived stress and improves mood states in a sample of young adults: A randomized cross-over trial

Maria Fernanda Zerón-Rugério, Maria Izquierdo-Pulido, Aradeisy Ibarra-Picon, Francisco Pérez-Cano

**DSGR59** Exposure to dietary salt through nutrition in public preschools in Belgrade

Dunja Koprivica, Vesna Pantić - Palibrk, Maja Ristić, Stefanija Nikolić, Danica Stošić

**DSGR60** Estimating usual intakes affecting the macronutrient and micronutrient distribution among adolescent population: Study of Slovenian National Dietary Survey SI.

Hristo Hristov, Igor Pravst, Poličnik Rok, Matej Gregorič, Masa Hribar

## Menu 2017/18

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|---|---|
| <b>DSGR61</b> A mini review on the effects of experimental design, including variations in participant baseline performance, when testing the efficacy of polyphenol consumption to enhance mood and cognitive function in humans from a new researcher perspective | Duaa Altuwairki, Kirsten Brandt   |
| <b>DSGR62</b> Evaluation of the Emergency Meal Kitchen Menu's Meeting the Daily Nutritional Requirements  | Osman Güldemir  |
| <b>DSGR63</b> Contribution of plant-based dairy and fish alternatives to iodine nutrition in the Swiss diet – A Swiss Market Survey   | Isabelle Herter-Aeberli, Zulekha Khalili  |
| <b>DSGR64</b> Dietary and supplement intake of lutein and zeaxanthin: how much do we get and how much do we need?   | Susan Mitmesser, Qian Ye, Prasad Devarshi, Ryan Grant   |
| <b>DSGR65</b> An Evaluation of Thailand's Healthier Choices Nutrient Scoring Algorithm for The Composite Meal Category  | Hung Nguyen Ngoc, Wantanee Kriengsinyos   |
| <b>DSGR66</b> Results of longitudinal cohort NutriD study: Factors linked with vitamin D status in adult Caucasian population   | Katja Žmitek, Igor Pravst, Maša Hribar  |
| <b>DSGR67</b> Genetic risk factors modulate the association between physical activity and colorectal cancer   | Mireia Obón-Santacana, Anita Peoples, Eric Kawaguchi, Cornelia Ulrich, Ulrike Peters, W. James Gauderman, Victor Moreno |
| <b>DSGR74 Feasibility of implementing reporting standards in primary care dietetic practice</b>   | Peter Clark, Lauren Williams, Marie-Claire O'Shea, Lauren Ball  |

### Room 9

Track: Nutrition education, consumers and practitioners

Track: Precision nutrition

Chair: Marietta Kiss, University of Debrecen, Debrecen, Hungary and Stephanie Kullmann, University of Tübingen, Tübingen, Germany

- |  |  |
|--|--|
| <b>NECP8</b> Vitamin D supplementation practices in Slovenian adults in context of COVID-19 pandemic | Maša Hribar, Katja Žmitek, Igor Pravst |
|--|--|

<b>NECP9</b> Promotion of fruit consumption using nutrition and health claims: sufficiency of available data on nutrition composition	Anita Kušar, Kerstin Pasch, Igor Pravst
<b>NECP10</b> “Health to go”: Implementing health behavior in daily chores through a social-ecologic approach?	Antje Risius, Tabea Thomas
<b>NECP11</b> How can we encourage primary school children to choose and consume high fibre breakfast products?	Nicholas Wilkinson, Katie Adolphus, Shiniqua Cootes, Olivia Goldman, Neil Boyle, Louise Dye
<b>NECP12</b> Knowledge and views of UK nutrition professionals on health claims regulations	Carrie Ruxton, Margaret Ashwell
<b>NECP13</b> Meeting diabetes and hypertension targets of the national cardiovascular program’s in the most rural region of Chile (2018-2020)	Solange Parra, Yannara Maureira-Bustos, Julio Parra-Flores, Eduard Maury-Sintjago, Alejandra Rodriguez-Fernandez, Carlos Celis-Morales, Natalia Bello-Escamilla
<b>PN8</b> Short Chain Fatty Acid Metabolism in Relation to Gut Microbiota and Genetic Variability	Guilherme Ramos Meyers, Torsten Bohn, Hanen Samouda
<b>PN9</b> The Genetics of Sweet Taste: Perception, Feeding Behaviours, and Health	Harry Stevens, Francesco Piluso, Paolo Gasparini, Yiannis Mavrommatis, Leta Pilic, Catherine Anna-Marie Graham, Maria Pina Concas
<b>PN10</b> Investigating the role of genetics in fatty acids oral perception and related traits in two European cohorts	Francesco Piluso, Harry Stevens, Catherine Anna-Marie Graham, Alexandra King, Leta Pilic, Paolo Gasparini, Maria Pina Concas
<b>PN11</b> Liking milk chocolate, dairy food and eating behavior (impulsivity) are linked to a specific genomic region	Silvia Camarda, Alessandro Pecori, Paolo Gasparini, Maria Pina Concas
<b>PN12</b> The Impact of Nutritional Status on Gastrointestinal Symptoms, Hyperactivity Disorders, and Sleep Problems in Children with Autism Spectrum Disorder	Fatma Özsel Özcan Araç, Irem Özcan
<b>PN13</b> Microbial Enterotypes in Personalized Nutrition for Improving Metabolic Health: A Proof-of-Concept Study	Mattea Müller, Madeline Bartsch, Shoma Berkemeyer, Sabrina Woltemate, Marius Vital, Andreas Hahn
<b>PN14</b> The Insights gained during the development of a personalised nutrition mobile app	Barbara Koroušić Seljak, Matevž Ogrinc, Andraž Simčič, Eva Valenčič, Robert Modic, Gordana Ispirova, Tome Eftimov
<b>PN15</b> Leveraging machine learning and genetic risk scores for the prediction of metabolic syndrome in children with	Concepción Aguilera, Mireia Bustos-Aibar Affiliation, Augusto Anguita-Ruiz Affiliation, Álvaro Torres-Martos, Gloria Bueno, Rosaura

obesity

**PN16** Relationships between meat and fish consumption, N-acetyltransferase 2 genotypes, and colorectal cancer risk: a case-control study in the Basque Country

Leis, Jesús Alcalá-Fernández

Naiara Martinez-Perez, Olatz Echezarreta-Ruiz, Iker Alegria-Lertxundi, Marian de Pancorbo, Felix Olasagasti Affiliation, Harkaitz Eguiraun, Marta Arroyo-Izaga

## Room 11

Track: Nutrition across the lifecourse

Chairs: Snezana Barjaktarovic Labovic, Institute of Public Health, Podgorica, Montenegro

**NALC65** NUTRALYS® pea protein and NUTRALYS® S85 Plus: a range of high nutritional quality Pea Proteins with characteristic digestion profiles

Catherine Lefranc-Millot, Laetitia Guerin-Deremaux, Caroline Perreau, Saskia de Jong

**NALC66** Can milk-derived calcium permeate attenuate loss of bone mineral density in postmenopausal women? The 12 mo RENEW randomized intervention study

Inge Tetens, Sidse Ida Ingemann Rasmussen, Mai Østerø Cramon, Caroline Filskov Petersen, Sadime Basak Kisi Kaki, Mette Friberg Hitz

**NALC67** Half of Poland's adult population (aged 18-64) has excess body weight – results of representative cross-sectional studies conducted in 2017-2020

Iwona Traczyk, Alicja Kucharska, Beata Sińska, Mariusz Panczyk, Filip Raciborski, Dorota Szostak-Węgierek, Bolesław Samoliński

**NALC68** Frequency of consumption of fast-food products and good food and the nutritional state of junior school students in the Myślenice Powiat in the years 2016-2017

Jaśmina Żwirska, Ewa Błaszczuk-Bębenek, Paweł Jagielski, Paweł Kawalec

**NALC69** Targeted initiatives to help bridge the fibre gap in lower socioeconomic groups: Healthy soil, Healthy food, and Healthy people (H3)

Katie Adolphus, Louise Dye, Neil Boyle, Nicholas Wilkinson, Fiona Croden, Samantha Caton

**NALC70** Exploration of perceptions and attitudes of couples in the preconception period in relation to healthy eating and healthy body weight: a qualitative study

Eirini-Iro Arvanitidou, Fotini Tsofliou, Juliet Wood

**NALC71** Is the urinary concentration of taurine a significant indicator of fish consumption among Polish postmenopausal women? Data from pilot study

Joanna Bajerska, Aleksandra Skoczek-Rubińska, Aleksandra Bykowska-Derda, Joanna Pieczyńska-Zajęc, Shigeru Murakami, Takashi Ito, Yukio Yamori



<b>NALC72</b> Short-chain fatty acids (SCFA) in infants' plasma – relation to SCFA levels in mother's milk and plasma and the risk of subsequent atopic disease and sensitization	Malin Barman, Monica Gio-Batta, Léna Andrieux, Mia Stråvik, Rikard Fristedt, Agnes Wold, Ann-Sofie Sandberg
<b>NALC73</b> The relationship between mushroom intake and cognitive performance: An epidemiological study in the European Investigation of Cancer-Norfolk cohort (EPIC-Norfolk)	Sara Cha, Lynne Bell, Claire Williams
<b>NALC74</b> Dietary intake and nutritional status of B12, iron and iodine in young vegans, lacto-ovo-vegetarians, pescatarians, flexitarians and omnivores	Synne Groufh-Jacobsen, Christel Larsson, Claire Margerison, Isabelle Mulkerrins, Anine Christine Medin
<b>NALC75</b> Nutrient Intake from Fortified Foods and Supplements in Vegan, Vegetarian, and Omnivorous Participants aged 6 to 18 years in Germany: Results from the VeChi Youth Study	Joelina Dietrich, Vanessa Keller, Morwenna Fischer, Stine Weder, Ute Alexy, Andreas Michalsen, Alfred Längler, Markus Keller
<b>NALC76</b> Is bigger better? A novel quasi-RCT method to assess the impact of high vs low-energy feeds on short & long-term outcomes after severe malnutrition	Marko Kerac, Sophie Budge, CHANGE study collaborators group
<b>NALC77</b> Back to the good old things: Unused and underutilized plants could meet multiple nutrition and food security goals!	Marija Knez, Marija Ranic, Jelena Milesevic, Nevena Vidovic, Milica Zekovic, Irena Krga, Mirjana Gurinovic
<b>NALC78</b> Cue-based feeding of hospitalized pre-term infants using video monitoring: A systematic review and implications for infant care	Marlou Lasschuijt, Eline Chin, Joris Stab, Ronald Poppe, Eline de Groot, Jeroen Dudink, Ciarán Forde
<b>NALC79</b> Influence of school environment on obesity in children	Katerina Mihajlova, Aleksandra Stamenova, Igor Spiroski

### Room 13

Track: Nutrition education, consumers and practitioners

Chair: Christine Yung Hung, Ghent University, Ghent, Belgium and Nevena Dabetic, University of Belgrade, Belgrade, Serbia

<b>NECP14</b> Community pharmacy-delivered interventions for nutrition and diet-related health promotion	Gizem Acar, Michael Heinrich, Rachael Frost, Sukvinder Bhamra
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<b>NECP15</b> Implementing nutrient recommendations for breakfast in Europe through dietetic practice. The EFAD Breakfast Toolkit survey	Elena Alonso-Apperte, Angela García-González, Marta Maroto-Novalbos, Klaus Nigl, Elisabeth Farmer, Eva Hoelzl, Ezgi Kolay
<b>NECP16</b> Food safety knowledge, attitudes and practices among Bulgarian young people	Vanya Boycheva (Birdanova), Ivelina Ruseva, Tsvetelina Vitkova, Irena Stoilova
<b>NECP17</b> The use of dietary supplements in cancer patients	Nevena Ćorić, Ana Vukoja, Ines Banjari
<b>NECP18</b> Joint implementation of salt reduction and salt iodization strategies in Montenegro – challenges and opportunities, Montenegrin experience	Zorica Đorđević, Enisa Kujundžić, Dijana Đurović, Borko Bajić, Sanja Medenica, Ivana Joksimović, Ivana Živković
<b>NECP19</b> Misconceptions around commercial Infant Food: Beliefs and usage amongst German Parents	Alenica Hässig, Christina Hartmann, Luisma Sanchez-Siles, Michael Siegrist
<b>NECP20</b> Dietetic educators' perspectives on the ways in which leadership is demonstrated by dietetic students and interns: Insights from a Canadian study	Billie Jane Herмосura
<b>NECP21</b> Nutrition-competency and attitude towards nutrition counseling among graduating medical students	Ludmila Ivanova, Rosica Popova, Vania Birdanova
<b>NECP22</b> Predictive value of ankle fracture for osteoporosis at the Fracture Liaison Service is dependent on gender and may be related to alcohol use	James McMullan, Emeir McSorley, Rhonda Hunter, Denise Pattison, David Armstrong
<b>NECP23</b> The analysis of environmental awareness of a selected group of farmers from Łyse community (ostrołęcki district, Mazovian Voivodeship)	Maria Rembiałkowska, Łucja Samorajczyk
<b>NECP24</b> SAIBi educa, a novel Nutrition app supports healthy eating habits in nutrition counselling in primary healthcare	Ana M Trocoso, Marina Gonzalez-Ramirez, Angela Cejudo-Lopez, Mercedes Barroso-Vazquez, Maria J Sanchez-Cordero, Carmen Garcia-Parrilla, Ana B Cerezo
<b>NECP25</b> Holistic approach to celiac patient support: nutritional education of the social environment of people with celiac disease	Maialen Vázquez-Polo, Virginia Navarro, Gesala Perez-Junkera, Idoia Larretxi, Arrate Lasa, Jonatan Miranda, Itziar Txurruka
<b>NECP26</b> Knowledge, attitudes and practices of pharmacy professionals in the provision of nutrition counselling and diet-related advice	Gizem Acar, Michael Heinrich, Rachael Frost, Sukvinder Bhamra
<b>NECP27</b> Parents and social media:	Emanuel Cazzaniga, Francesca Brivio,

nutritional education is online!

Francesca Orgiu, Paolo Corbetta, Elena Lonati, Alessandra Bulbarelli, Andrea Greco

**NECP28** First edition of the Albanian food composition tables

Luziana Hoxha, Anna Giertlová, Lenka Bartošová, Renata Kongoli, Erinda Lika, Romina Koto, Mamica Ruci

**NECP29** Preliminary findings regarding nutrition information needs among Family Physicians in Turkey

F. Nur Baran Aksakal, Özge Dinç, Begüm Mutuş, Özlem Üliç Çatar, H. Tanju Besler, Serhat Ünal, Orhan Aydoğdu

**NECP30** Hands-on interaction with food as a means of increasing vegetable intake in preschool children

Aoibhín Moore Heslin, Hannah Furlong, Aoife McDunphy, Kirstie McAdoo

**NECP31** Food policy and facilitators and barriers to adoption and implementation of nutrition interventions in higher education settings in Flanders: findings from a qualitative study

Evelyn Fonderie, Wendy Van Lippevelde, Benedicte Deforche, Maïté Verloigne, Tom Deliens

#### Room 14

Track: Dietary bioactives

Chairs: Claudine Manach, INRAE, Clermont-Ferrand, France and Branislava Teofilović, University of Novi Sad, Novi Sad, Serbia

**DB30** The comparison of the bioactive compounds content in selected Japanese quince fruit preserves made using various sweeteners

Renata Kazimierczak, Ewelina Hallmann, Dominika Średnicka-Tober, Weronika Wnęk

**DB31** Total Phenolic Content and Antioxidant Properties of Citrus Peel and Pulp

Ivana Đuričić, Tijana Ilic

**DB32** Green Approach In Obtaining Grape Extracts Manifesting Cytotoxic Activity

Nevena Dabetić, Vanja Todorovic, Jelena Antic Stankovic, Dragana Bozic, Ivana Djuricic, Sladjana Sobajic

**DB33** Volatile organic profile of Pinus nigra Arnold bark

Maja Milanović, Ljilja Torović, Jovana Drljača Lero, Nataša Milošević, Nataša Milić

**DB34** (Poly)phenol – gut microbiome interactions and human health: a systematic review

Letizia Bresciani, Kieran Tuohy, Van Harselaar, Naomi Venlet

**DB35** Nutritional composition, biologically active substances and antioxidant activity of selected edible wild

Dejan Jancic, Danijela Sukovic, Jelena Resetar, Marko Nikolic

plants from Montenegro

**DB36** Evaluation of the effect of elderberry (*Sambucus nigra*) fruit extracts on calcium and magnesium status in STZ-induced diabetic rats

Zbigniew Krejpcio, Ewelina Król, Halina Staniek, Jebutu Molayooluwa Oluwatobi, Silvia Rocha, Angelo Salvador, Jakub Kurek

**DB37** The effect of bitter melon and chromium(III) supplementation on mineral status of rats fed high-fat diet

Zbigniew Krejpcio, Ewelina Król, Jakub Kurek, Halina Staniek, Szymon Ziemak

**DB38** Amelioration of nutritional status biomarker in malnourished-induced low protein diet rats by fermented green algae *Caulerpa racemosa* via upregulation of protein/hemoglobin/IGF-1 pathway

Rudy Kurniawan, Nurpudji Astuti Taslim, Yasmin Syauki, Fahrul Nurkolis, Andi Dwi Bahagia Febriani, Moon Nyeo Park, Bonglee Kim

**DB39** The anti-inflammatory action of artichoke, fenugreek and caihua (AFC) original blend in IBD in vitro model

Paola Palestini, Elena Lonati, Paolo Corbetta, Stefania Pagliari, Emanuela Cazzaniga, Luca Campone, Alessandra Bulbarelli

**DB40** Effect of higenamine supplementation on fatty acid profile of serum phospholipids

Jelena Rasic Ozegovic, Marija Takic, Nevena Ivanovic, Danijela Ristic Medic, Milica Vuksanovic Vesic, Brizita Djordjevic

**DB41** The importance of rutin in nutrition

Adna Salkic, Lejla Mujezin, Amela Džafić, Zumreta Bihorac Kućuk, Sanja Oručević Žuljević

**DB42** Acute aronia juice consumption affect HSA thiol group content in recreational runners after simulation of half-marathon race

Marija Takić, Tamara Uzelac, Vuk Stevanovic, Nevena Vidovic, Ana Pantovic, Maria Glibetic, Vesna Jovanovic

**DB43** Acute aronia juice consumption prior to half-marathon race affects proteinuria induced changes of serum protein profiles

Marija Takić, Tamara Uzelac, Nevena Vidovic, Vuk Stevanovic, Ana Pantovic, Marija Glibetic, Vesna Jovanovic

**DB44** ILSI Europe Prebiotic Task force: Investigating the potential of prebiotics to rebalance and maintain health

Elaine Vaughan, Naomi Venlet, Paul de Vos, Kristin Verbeke

## Room 16

Track: Nutrition, metabolism and chronic disease

Chairs: Lidia Iuliana Arhire, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania and Bernard Srour, INRAE, Bobigny, France

**NMCD116** Nutrition and Movement to improve quality of life with knee osteoarthritis (NUMOQUA): a

Sabine Chmelar, Elisabeth Höld, Gabriele Leitner, Stefan Nehrer, Oliver Neubauer, Karl-

randomized controlled trial

**NMCD117** A 2-year randomised controlled trial to investigate the effect of combined B-vitamin intervention on bone mineral density in older adults: the OptiAge study

**NMCD118** Synergistic effect of oat polar lipids and oat beta-glucans on postprandial blood glucose: a randomized controlled cross-over study in healthy subjects

**NMCD119** Understanding the effect of food structures on ileal environment and appetite regulation

**NMCD120** The association of lifestyle and environmental exposures with appetite hormone levels in childhood and adolescence

**NMCD121** Effect of fermented food products as a Vitamin K dietary sources on the development of atherosclerotic lesions in ApoE/LDLR-/- mice

**NMCD122** Can flexitarian, time-restricted eating reduce cardiometabolic risks in young men with normal body weight? A factorial randomised controlled trial protocol

**NMCD123** The role of chronotype on body composition, eating habits and cardiometabolic risk parameters in a sample of overweight/obese subjects

**NMCD124** Nutrition-related factors and the progression of metabolic syndrome characteristics over time in older adults: analysis of the TUDA cohort

**NMCD125** Quality of plant-based food patterns and risk of cancer risk among Italians from the Moli-sani Study cohort

**NMCD126** Adherence to WCRF/AICR Cancer Prevention Recommendations and all-cause mortality among cancer survivors from the Moli-sani Study cohort

**NMCD127** Selecting the type of grains

Heinz Wagner, Barbara Wondrasch

Michelle Clements, Maria Heffernan, Mary Ward, Leane Hoey, Roberta Hack Mendes, Lorraine Brennan, Helene McNulty

Lieselotte Cloetens, Mohammad Mukul Hossain, Wanussavee Deenissai, Juscelino Tovar, Anne Nilsson

Aygul Dagbasi, Gary Frost, Kevin Murphy, Dominic Blunt, Jose Ivan Serrano Contreras, Isabel Garcia Perez, Yue Ma

Thaïs De Ruyter, Nathalie Michels, Dries Martens, Tim Nawrot, Stefaan De Henauw

Magdalena Franczyk-Żarow, Barbara Czosnowska, Hayat Aragaw Hassen, Agata Strojewska, Izabela Czyzyska-Cichon, Agnieszka Kij, Renata Kostogryś

Marta Lonnie, Lidia Wadolowska, Graham Horgan, Alexandra Johnstone

Sofia Lotti, Monica Dinu, Marta Tristan Asensi, Giuditta Pagliai, Antonia Napoletano, Barbara Colombini, Francesco Sofi

Oonagh Lyons, Maeve Kerr, Mary Flynn, Leane Hoey, Catherine Hughes, Mary Ward, Helene McNulty

Claudia Martinez, Augusto Di Castelnuovo, Simona Costanzo, Emilia Ruggiero, Giovanni De Gaetano, Licia Iacoviello, Marialaura Bonaccio

Claudia Martinez, Augusto Di Castelnuovo, Simona Costanzo, Emilia Ruggiero, Giovanni De Gaetano, Licia Iacoviello, Marialaura Bonaccio

Alexandra Meynier, Isabel Moreira De

and bigger particle size to modulate starch digestibility and glycemic response	Almeida, Sophie Vinoy
<b>NMCD128</b> Novel drug and nutraceutical delivery system for the treatment of inflammatory bowel disease	Aoife Murtagh, Clement Higginbotham, Patricia Heavey
<b>NMCD129</b> A randomised controlled trial to determine the effect of unique grain fibre fortified bread on gastrointestinal symptoms, general wellbeing and mental health of healthy adults	Hwei Min Ng, Jasjot Maggo, Catherine Wall, Simone Bayer, Nicole Roy, Richard Gearry
<b>NMCD130</b> Diet-specific multi-omics markers associated with metabolic health benefits can be determined in vegan population	Anna Ouradova, Monika Cahova, Jan Gojda, Alessio Naccarati, Giulio Ferrero, Marina Henikova, Tooba Asif

## Room 1

Track: Nutrition and the environment, sustainability and diversity

Chairs: Klaudia Kopczyńska, Warsaw University of Life Sciences, Warsaw, Poland and Jasmina Djidjibegovic, University of Sarajevo, Sarajevo, Bosna and Herzegovina

<b>NESD43</b> Micronutrient content of plant-based meat alternatives available in the UK and Ireland: product audits (2021 and 2023)	Leona Lindberg, Jayne Woodside, Hannah Vogan, Niamh Campbell, Hannah Fitzgerald, Janette Walton, Anne Nugent
<b>NESD44</b> Knowledge Mobilisation in Co-produced Foods Systems Research: Early Career Researchers' Perspectives	Marta Lonnie, Emma Hunter, Rebecca Stone, Mariana Dineva, Hannah Greatwood, Alexandra Johnstone
<b>NESD45</b> Analysis of pesticide residues in apples in the Institute of public health of Belgrade for 2022	Stefanija Nikolić, Vesna Pantić-Palibrk, Maja Ristić, Dunja Koprivica, Danica Stošić, Vladimir Nikolić
<b>NESD46</b> Micronutrient intakes and status in the protein transition: A systematic review	Ursula Leonard, Clarissa Leydon, Elena Arranz, Mairead Kiely
<b>NESD47</b> Optimizing the Dutch adult diet for 2030 and 2050 on health and sustainability, based on EAT-Lancet environmental planetary boundaries	Corné van Dooren, Judith Groen, Carolina Carrillo Diaz, Alessandra Grasso, Lana Liem
<b>NESD48</b> Sustainability of food purchases according to sociodemographic factors: The Mont'panier crosssectional study in Southern France	Maria Somaraki, Daisy Recchia, Pascaline Rollet, Simon Vonthron, Hélène Charreire, Marlène Perignon, Caroline Méjean

<b>NESD50</b> Representation of non-meat proteins in food-based dietary guidelines: a review of national guidelines in Europe	Hannah Theobald, Veronica Moran
<b>NESD51</b> Composition of Nguni Goat Meat – An Underutilised Indigenous Food	Zani Veldsman, Beulah Pretorius, Hettie Schonfeldt
<b>NESD52</b> Greenhouse Gas Emissions from Food Consumption; Results from the Icelandic National Dietary Survey 2019-2021	Ragnhildur Guðmannsdóttir, Ingibjörg Gunnarsdóttir, Ólöf Guðný Geirsdóttir, María Guðjónsdóttir, Bryndís Eva Birgisdóttir, Ólafur Ögmundarson, Þórhallur Ingi Halldórsson
<b>NESD53</b> Students and healthy eating: the behavior-intention gap in an unhealthy food environment	Amely Verreijen, Annick de Leeuw, Herman Peppelenbos
<b>NESD54</b> Developing ecological sustainable recipes for older adults with obesity during a period of weight loss: The first step in the 2EAT project	Amely Verreijen, Pietsje van der Leeuw, Annelies Rotteveel, Annet Roodenburg, Michael Tieland, Marije Verwijs, Peter Weijs
<b>NESD55</b> Assessing the nutritional quality of the plant-based component of the adult diet in Ireland	Gráinne Kent, Laura Kehoe, Breige McNulty, Anne Nugent, Albert Flynn, Janette Walton
<b>NESD56</b> Which messages about healthy & sustainable eating resonate best with consumers with low socio economic status	Aikaterini Palascha, Betty Chang, Nina McGrath
<b>NESD57</b> A north south comparison of commercially produced foods sold in European public universities	Naiara Martinez-Perez, Liv Elin Torheim, Miriam Baeta, Iñigo Olalde, Marta Arroyo-Izaga

## Room 2

Track: Cultural, societal and behavioural aspects of diet and nutrition

Chair: Louise Dye, University of Leeds, Leeds, United Kingdom

<b>CSBADN15</b> Identifying the most cost-effective contributors to fruit intake in online retailers in the UK	Mary Brauchla, Colin Rehm, Mark Dekker
<b>CSBADN16</b> Dietary behaviour and mental health in food insecure adolescents – 2022 HBSC survey in Frenchspeaking schools in Belgium	Katia Castetbon, Emma Holmberg, Morgane Eggen, Wassila Assakali, Caroline Mertens
<b>CSBADN17</b> Pros and cons of Nutri-	Hubert Dobrowolski, Dariusz Włodarek,

Score system, as a potential common system in the member states of the European Union	Mariusz Panczyk
<b>CSBADN18</b> Why young adults (18-30 years old) consume dairy foods: a qualitative study to explore and identify reasons for dairy consumption in the UK and France	Caterina Franzon, Anestis Dougkas, Juliet Memery, Katherine M. Appleton
<b>CSBADN19</b> Dietary and sleep related changes during the COVID-19 pandemic in children and adolescents – Results of the DONALD Study	Nicole Jankovic, Ines Perrar, PD Ute Alexy
<b>CSBADN20</b> Validation of the Chilean version of the Yale food addiction scale 2.0 in a clinical and non-clinical sample	Carina Valenzuela, Ximena Díaz-Torrente, Ana Palacio, Catalina Cuello, Alvaro Vergés, Marcela Reyes
<b>CSBADN21</b> Comparison of eating habits among students of different genders	Branislava Teofilović, Nevena Grujić-Letić, Emilia Gligorić, Daniela Čačić-Kenjerić
<b>CSBADN22</b> The potentially misleading effect of meat terminology on plant-based meat alternative labels	Linsay Ketelings, Stef Kremers, Remco Havermans, Alie de Boer
<b>CSBADN23</b> Food neophobia is associated with food texture pickiness and lower liking of foods with spongy texture among Finnish consumers	Ella Koivuniemi, Terhi Pohjanheimo, Anu Hopia
<b>CSBADN24</b> Estimating dietary micronutrient supply analyzing moderate-cost food basket in Serbia	Vanja Todorovic, Nevena Dabetic, Nikoleta Dubovac, Marina Jordanovic, Milica Zrnic Ciric, Sladjana Sobajic
<b>CSBADN25</b> What can food consumptions and dietary patterns of adult migrants from the French West Indies indicate about the Caribbean nutrition transition?	Caroline Mejean, Benjamin Allès, Zoé Colombet, Nathalie Arnault, Mathilde Touvier
<b>CSBADN26</b> A study into chefs' smoking behavior and the effect thereof on the amount of salt in restaurant dishes	Annet Roodenburg, Nadja Hanssen, Johannes Van Lieverloo



Thursday 16<sup>th</sup> November 2023

Poster presentations  
15:00 – 16:00

Hall A

Track: Nutrition, metabolism and chronic disease

Chairs: Emeir McSorley, Ulster University, Coleraine, United Kingdom and Martina Bituh, University of Zagreb, Zagreb, Croatia

**NMCD131** The consumption of NUTRALYS® pea protein moderates blood glucose response when co-ingested with a high-carbohydrate beverage

Caroline Perreau, Pariyarath Sangeetha Thondre, Helen Lightowler, Isabel Butler, Jonathan Tammam, Catherine Lefranc-Millot, Laetitia Guérin-Deremaux

**NMCD132** Diet quality assessment and lipid profile of younger adult men with hypercholesterolemia

Irena Keser, Sanja Trivunović, Martina Delač

**NMCD133** Vitamin E and cardiovascular disease risk factors in adults: results from the Health Survey of São Paulo with Focus on Nutrition (ISA-Nutrition)

Marcela Larissa Costa, Cristiane Hermes Sales, Paula Victoria Felix, Jaqueline Lopes Pereira, Marcelo Macedo Rogero, Flavia Mori Sarti, Regina Mara Fisberg

**NMCD134** Variant of snp 1799930 identifies the protective character of high metabolising of xenobiotics in individuals with overweight and obesity

Marcela Pinhel, Ligia Watanabe, Natalia Noronha, Guilherme Rodrigues, Fernando Barbosa Junior, Carolina Nicoletti, Carla Nonino

**NMCD135** Replacing part of maltodextrin (MDX) with galactose in early life diet results in an improved body composition and energy metabolism in a mouse model

Maryam Rakhshandehroo, Peixin Sun, Melissa Bekkenkamp-Grovenstein, Lidewij Schipper, Evert Van Schothorst

**NMCD136** Effects of long-term sunflower vs linseed oil diet on fatty acids phospholipids and desaturases in hepatocytes

Slavica Rankovic, Tamara Popovic, Aleksandra Nenadovic, Anica Stankovic, Jasmina Debeljak Martacic, Andjelija Ilić, Alexander Trbovich

**NMCD137** Long term Sunflower oil diet effects on mice brain lipid metabolism

Slavica Rankovic, Aleksandra Nenadovic, Jasmina Debeljak Martacic, Sanjin Kovacevic, Jelena Milasin, Tamara Popovic, Alexander Trbovich

**NMCD138** Association between the

Anna Reik, Gunther Schauburger, Meike

postprandial glucose and insulin response and changes of anthropometric parameters after an 8-week formula diet - data from the LION study

Wiechert, Hans Hauner, Christina Holzapfel

**NMCD139** Isorhamnetin and tamarixetin, components of Hawthorn, exert ex vivo vasodilatory effects in porcine coronary artery which are mediated by L-type calcium channels.

Saina Saadat, Patricia Dias, Marie Vopršalová, Jana Pourová, Přemysl Mladěnka

**NMCD140** Nutrition as a part of lifestyle medicine interventions

Jelena Helene Cvejic

**NMCD141** Investigation of postprandial glycaemic response to white bread and wholemeal bread consumption among healthy young adults

Honglin Dong, Diana Galindo Pineda, Ni Li, Yizhi Xu

**NMCD142** Gut microbiome composition associates with body weight in people with type 1 diabetes and relates to dietary factors

Giuseppe Scidà, Alessandra Corrado, Jumana Abuqwider, Giuseppina Costabile, Francesca De Filippis, Danilo Ercolini, Lutgarda Bozzetto

**NMCD143** Gut Microbiome Composition is Associated with Blood Glucose Control and Dietary Intake in people with Type 1 Diabetes

Jumana Abuqwider, Giuseppe Scida, Alessandra Corrado, Giuseppina Costabile, Francesca De Filippis, Danilo Ercolini, Lutgarda Bozzetto

**NMCD144** Effects of omega-3 fatty acids supplementation on revascularization and major cardiovascular events: a systematic review and meta-analysis

Monica Dinu, Sofia Lotti, Anna Vittoria Mattioli, Gian Franco Gensini, Giuseppe Ambrosio, Francesco Sofi

**NMCD145** Influence of biotic interventions on the immune response to vaccines in young and older adults

Morten Georg Jensen, Irina Spacova, Rachael Patusco, Sarah Lebeer

## Hall B

Track: Nutrition and the environment, sustainability and diversity

Chairs: Hubert Dobrowolski, Warsaw University of Life Sciences, Warsaw, Poland and Ujué Fresán, Instituto de Salud Global de Barcelona, Barcelona, Spain

**NESD58** Newtools - Developing new tools for a sustainable food system, including two scoring systems for foods on nutritional quality and for environmental- and social sustainability

Marianne Hope Abel, Kaja Lund-Iversen, Hanne Ferdingby Olsen, Helle Margrete Meltzer, Marianne Morseth, Trond Arild Ydersbond, Knut Inge Klepp

**NESD59** An integrated approach to the challenge of sustainable food systems:

Habtamu Alem

insights from the SYSTEMIC network

- |   |   |
|---|---|
| <b>NESD60</b> Association of fermented milk consumption with gut microbiome in Finnish adults   | Mirkka Maukonen, Kari Koponen, Aki Havulinna, Niina Kaartinen, Teemu Niiranen, Veikko Salomaa, Satu Männistö                        |
| <b>NESD61</b> A qualitative investigation into perceived barriers experienced by European female agri-food entrepreneurs situated in rural regions for sustaining the food sector | Maria McDonagh, Tansy Ryan, Aisling Moran, Lisa Ryan  |
| <b>NESD62</b> Food choices relevant in the transition to sustainable diets are related with lower risk of ischemic heart disease and death – a cohort study from Finland          | Laura Paalanen, Tommi Härkönen, Laura Sares-Jäske, Niina Kaartinen, Heli Tapanainen   |
| <b>NESD63</b> Partial substitution of processed meat with plant-based foods and the risk of cardiovascular disease  | Meri Simojoki, Niina Kaartinen, Mirkka Maukonen, Kennet Harald1, Heli Tapanainen, Anne-Maria Pajari, Satu Männistö                  |
| <b>NESD64</b> Qualitative exploration of local authority officers' perspectives on the landmark Food (Promotion and Placement) (England) Regulations 2021                         | Preeti Dhuria, Sarah Muir, Sarah Jenner, Emma Roe, Wendy Lawrence, Janis Baird, Christina Vogel                                     |
| <b>NESD65</b> How is the promotion of sustainable diets addressed in Austrian policies?   | Ursula Trübswasser, Theres Rathmanner, Barbara Wondrasch  |
| <b>NESD66</b> Challenges and Short to Long-term Strategies on Food and Nutrition Security in and post Covid-19 Pandemic   | Majid Hajifaraji  |
| <b>NESD67</b> Antibiotic Resistance and Probiotics: Knowledge Gaps, Market Overview and Preliminary Screening   | Aleksandra Jovanovic Galovic, Gordana Zavišić, Milka Popović, Svetlana Stojkov, Deana Medić, Vera Gusman, Nataša Jovanović Lješević |
| <b>NESD68</b> How will chemistry help solve world hunger?   | Miroslav Vrvic, Srdjan Miletic, Nikoleta Lugonja  |
| <b>NESD69</b> A Brief Bibliometric Analysis of Microplastic and Nanoplastic Particles in Food   | Miroslav Vrvic, Nikoleta Lugonja, Srđan Miletic, Mira Pucarevic, Dragana-Linda Mitic, Vesna Teofilovic, Nataša Stojic               |
| <b>NESD70</b> The Environmental Impacts of Omnivorous, Vegetarian, and Vegan Children and Adolescents in Germany: Results of the VeChi Diet and VeChi Youth Studies               | Laureen Kuhl, Vanessa Keller, Stine Weder, Ute Alexy, Morwenna Fischer, Markus Keller, Wencke Gwozdz                                |
| <b>NESD71</b> Legumes and Nuts/Seeds Consumption of Adults Living in Türkiye: A Cross-Sectional Study   | Hilal Hizli-Guldemir, Fatma Elif Sezer, Merve Pehlivan, Fatmanur Özyürek-Arpa, Neda   |

Saleki, Büşranur Delice

**NESD72** Development and testing of a short scale to estimate the importance of economic, social and environmental sustainability of fermented plant-based foods

Jean-Paul Charles Garin, Armando Perez-Cueto, Inês Magalhães

## Hall C

Track: Nutrition across the lifecourse

Chairs: Markus Keller, Research Institute for Plant-Based Nutrition, Biebental, Germany and Milica Zekovic, Institute for Medical Research, Belgrade, Serbia

**NALC80** Factors associated with daily consumption of fruits and vegetables in Serbia

Maja Miloradović, Jovana Todorović, Jelena Dotlić

**NALC81** Over 35 years of research in the Dortmund Nutritional and Anthropometric Longitudinally Designed Study – A study update of the DONALD Study

Ines Perrar, Ute Alexy, Ute Nöthlings

**NALC82** Herbal medicines and dietary supplements' usage and beliefs among UK adults: a cross-sectional study

Kyriaki Myrissa, Lauren Gayle, Magali Chohan, Eirini Kelaiditi

**NALC83** B-vitamin biomarkers in relation to immune function in older adults: preliminary analysis from the TUDA study

Umair Shabbir, Helene McNulty, Catherine Hughes, Aoife McCaffrey, Michelle Clements, James Dooley, Leane Hoey

**NALC84** Experience Sampling as dietary assessment method: a rapid scoping review towards design recommendations

Joke Verbeke, Christophe Matthys

**NALC85** A scoping review on the serum biomarkers of osteosarcopenic obesity

Vesna Vucic, Danijela Ristic-Medic, Aleksandra Arsic, Snjezana Petrovic, Marija Paunovic, Jasminka Ilich Ernst

**NALC86** The association of oral processing and salivary flow rate on food intake and appetite in older adults (aged ≥65 years)

Dimitra Zannidi, Lisa Methven, Gerry McKenna, Jayne Woodside, Ciarán Forde, Martin Schimmel, Miriam Clegg

**NALC87** How much do pregnant women adhere to a healthy dietary pattern? Dietary changes throughout last trimester of pregnancy, the Dastatuz trial

Pilar Fernández-Gil, Olaia Martínez González, Jone Guenetxea-Gorostiza, Leire Mazquiarán-Bergera, Diego Rada-Fernández de Jáuregui, Edurne Maiz Aldalur, Iratxe Urkia-Susín

**NALC88** Beyond food safety: How public and private policies can guide the design

Ana Ines Estevez Magnasco, Dominic Lemken

of healthier supermarket environments

**NALC89** Food choices, physical activity, and prevention of cardiovascular diseases in young adult Albanians: Assessment of nutritional status in university students and the risk of chronic degenerative diseases

Angela Andreoli, Denisa Eskiu Eskiu, Fabian Cenko, Erida Milaqi – Teliti, Suela Kellici, Ermira Pajaj

**NALC90** Assessment of body weight, body height and body fatness in Albanian children aged 7-15 years and comparison with international standards, and follow-up at one year

Angela Andreoli, Denisa Eskiu Eskiu, Fabian Cenko, Erida Milaqi – Teliti, Dorina Ylli, Natale Capodocasa, Fabian Cenko, Ersilia Buonomo

**NALC91** The relationship between serum polyunsaturated fatty acids and dietary inflammatory index in children with recurrent respiratory infections

Natalia Związek, Anna Prescha, Daiva Gorczyca, Mariola Paściak, Bogumiła Szponar, James Hebert

**NALC92** Healthy diet is associated with better quality of life – the population-based FinHealth 2017 Study

Niina Kaartinen, Tuija Jääskeläinen, Satu Männistö, Kennet Harald, Niina Kaartinen

**NALC93** The effect of gestational weight gain on short and long term postpartum weight retention: An updated systematic review and meta analysis

Dorothy Meyer, Ejona Gjika, Roxana Raab1, Sophie Michel, Hans Hauner

**NALC94** Pregnancy as a teachable moment to change diet and lifestyle behaviors

Jessica Kiefe-de Jong, Michelle Brust, Linda Uzan, Joyce Molenaar, Eva Leistra, Klarke Boor

## Room 9

Track: Nutrition, metabolism and chronic diseases

Chair: Elena Alonso – Aperte, University Foundation San Pablo CEU, Madrid, Spain and Nathalie Delzenne, University Catholique de Louvain, Brussels, Belgium

**NMCD146** Plant dominant low-protein diet, nutritional status (phase angle) and progression of renal failure: Case-report study

Danijela Ristic-Medic, Snjezana Petrovic, Biljana Pokimica, Marija Paunovic, Vesna Vucic

**NMCD147** Protocol for the systematic review of the biologic pathways linking diet, nutrition, and physical activity with cancer: World Cancer Research Fund Global Cancer Update Project

Esther Gonzalez-Gil, Sarah Lewis, Helen Crocker, Vanessa Gordon-Dseagu, Beatrice Lauby-Secretan, Marc Gunter, Laure Dossus

**NMCD148** Effect of nutrition type on liver, kidney steatosis and metabolic

Begüm Güler Şentürk, Bengi Gürses, Murat

parameters	Akyildiz, Mehmet Kanbay
<b>NMCD149</b> Effect of high carbohydrate, low or high glycemic index meals consumed during breakfast or dinner on subsequent 24-hour glycemic variability measured using continuous glucose monitoring	Sumanto Haldar, Yi Ning Yong, Darel Toh, Shalini Ponnalagu, Christiani Jeyakumar Henry
<b>NMCD150</b> Association between hand grip strength and lipoprotein levels in the overweight and obese population: a cross-sectional study	Ana Jovanovic, Nadja Vasiljevic, Dragana Davidovic, Katarina Djurdjevic
<b>NMCD151</b> Predictors of Reduced Bone Mineral Density in Children and Adolescents with Anorexia Nervosa	Esmā Karahmet Farhat, Orjena Žaja, Ines Banjari, Ivana Smolić
<b>NMCD152</b> Dietary habits as acne trigger	Esmā Karahmet Farhat, Ines Banjari, Tamara Jovović Sadiković
<b>NMCD153</b> Association between dietary choline and the incidence of type 2 diabetes: results from a large Swedish cohort	Therese Karlsson, Áine Ryan, Batsheba Tobin, Ingegerd Johansson, Anna Winkvist
<b>NMCD154</b> Relevance of high glycemic index breakfast for heart rate variability among young students with early and late chronotypes	Bettina Krueger, Bianca Stutz, Rasmus Jakobsmeier, Claus Reinsberger, Anette Buyken
<b>NMCD155</b> In vitro evaluation of the effects of plant-based proteins digestates on the biology and metabolism of human pre-adipocytes and adipocytes	Catherine Lefranc-Millot, Caroline Perreau, Marion Bourdens, Noémie Juin, Mayoura Keophiphath
<b>NMCD156</b> Association between whole grain consumption, tryptophan metabolism, and psychological distress	Vilma Liikonen, Mari Nääätänen, Anna Kårlund, Leila Karhunen, Marjukka Kolehmainen
<b>NMCD157</b> Engineered Escherichia Coli Nissle expressing IGF1 and FGF19 reduce liver fat accumulation and restore microbial equilibrium in a non-alcoholic fatty liver disease mice model	Johnson Lok, Valeria Iannone, Carlos Gómez-Gallego, Ruben Vazquez-Urbe, Morten Sommer, Marjukka Kolehmainen, Hani El-Nezami
<b>NMCD158</b> Effects of curcumin, resveratrol and quercetin on endometriosis and polycystic ovaries syndrome - A review	Lejla Mujezin, Adna Salkić, Milka Popović
<b>NMCD159</b> Selected anthropometrics parameters are inversely associated with hydrogen production in Hydrogen-Methane SIBO	Małgorzata Drywień, Justyna Wielgosz-Grochowska

**NMCD160** Relevance of  $\omega$ -6 GLA Added to  $\omega$ -3 PUFAs Supplements for ADHD: A Narrative Review  
Jelle D'Helft, Riccardo Caccialanza, Emma Derbyshire, Michael Maes

**NMCD178** Changes in gut microbiota and serum metabolites in patients with extreme obesity  
Libuša Kubanova, Adela Penesova, Ivan Hric, Jana Babjakova, Eva Baramovičova, Marián Grendar, Viktor Bielik

**NMCD179** Scoping review of clinical evidence for the health benefits of culinary doses of herbs and spices for prevention and treatment of metabolic syndrome  
Marion MACKONCHIE, Vivien ROLFE

## Room 11

Track: Dietary studies, guides and recommendations

Chair: Lorenzo Maria Donini, University of Rome, Rome, Italy

**DSGR68** Meeting UK fibre intake recommendations in food insecure households: The availability of fibre from redistributed surplus food  
Neil Boyle, Flora Larcombe, Louise Dye, Katie Adolphus, Nick Wilkinson, Fiona Croden, Neil Boyle

**DSGR69** The effects of a daily steviol glycoside beverage for 4 weeks on anthropometric, cardiometabolic and glucoregulatory measures in healthy adults  
Corey Scott, Tom Hutton, Noah Strom, Fei Au-Yeung, Anirikh Chakrabarti, Tom Wolever

**DSGR70** A review of food-based dietary guidelines: Are iconographies representing sustainability?  
Ornella Tiboni, Beatrice Biasini, Alice Rosi, Francesca Merloni, Benedetta Merloni, Francesca Scazzina

**DSGR71** Nutritional Adequacy and Protein Intake in Older Adults at Risk of Undernutrition with Subjective Memory Decline enrolled in the PROMED-EX Trial  
Nicola Ann Ward, Lorraine Brennan, Lisette CPGM De Groot, Federica Prinelli, Dorothee Volkert, Jayne Woodside, Claire McEvoy

**DSGR72** Concept for preventive strategy through optimizing the nutrition of pregnant women in Bulgaria  
Peter Markov, Irina Markova, Donka Baykova

**DSGR73** Portion size recommendations in food-based dietary guidelines: a global review of the methods  
Fanny Salesse, Eileen Gibney, Alison Eldridge, Tsz Ning Mak

**DSGR75** Feeding the future study (FEED): What are UK adults eating, and why?  
Izabella Lawson, Timothy Key, Keren Papier

<b>DSGR76</b> Feeding the future (FEED): an online study investigating contemporary plant-based diets in the UK	Izabella Lawson, Keren Papier, Timothy Key
<b>DSGR77</b> VEGANScreener Project: Protocol of the clinical observational study	Tooba Asif, Stefaan De Henauw, Jan Godja, Anna Ouradova, Selma Kronsteiner Gicevic, Willem De Keyzer, Ainara Martinez Tabar
<b>DSGR78</b> Development and Implementation of Food-Based Dietary Guidelines in the Slovak Republic	Jana Babjakova, Adela Penesova, Peter Minarik, Daniela Minarikova, Jozef Golian
<b>DSGR79</b> Daily mean beverage intakes by primary school children using an age-adapted 4-day diary at baseline in the DRINK trial (Belgium)	Lucille Desbouys, Wassila Assakali, Isabelle Thiébaud, Katia Castetbon
<b>DSGR80</b> Do statin users adhere to dietary recommendations for cardiovascular disease prevention?	Milica Zrnica Ciric, Jelena Kotur-Stevuljevic, Brizita Djordjevic, Vanja Todorovic, Ivana Baralic, Miodrag Ostojic, Ivan Stankovic
<b>DSGR81</b> Role of the new probiotic concept in the regulation of mRNA expression	Nina Okuka, Nevena Ivanović, Neda Milinković, Ksenija Veličković, Snežana Polovina, Mirjana Šumarac-Dumanović, Brižita Đorđević
<b>DSGR82</b> Participant Characteristics in the Health in Vegetarians Consortium: a cross-sectional analysis across 11 prospective studies	Yashvee Dunneram
<b>DSGR83</b> Reformulation of food products on the Italian market within the ONFOODS project: the EFFORT study	Daniela Martini, Massimiliano Tucci, Cristian Del Bo', Daniele Del Rio, Patrizia Riso
<b>DSGR84</b> Public procurement of food products in educational institutions in Slovenia	Neža Fras, Evgen Benedik, Matej Gregorič
<b>DSGR85</b> Assessment of the salt content in breads in Slovenia	Saša KUGLER, Hristo HRISTOV, Urška BLAZNIK, Igor PRAVST

### Room 13

Track: Cultural, societal and behavioural aspects of diet and nutrition

Chairs: Osman Guldemir, Anadolu University, Eskişehir, Turkey and Ivana Rumbak, University of Zagreb, Croatia

<b>CSBADN27</b> Behaviours of Polish consumer purchasing and consumption of organic fruits	Renata Kazimierczak, Justyna Obidzińska, Hubert Dobrowolski, Bartosz Szumigaj, Ewa
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	Rembiałkowska
<b>CSBADN28</b> Relationships between childhood food experiences and the use of food restrictions in young adulthood – a cross-sectional study	Marzena Jeżewska-Zychowicz, Aleksandra Małachowska
<b>CSBADN29</b> Development and validation of a questionnaire on mindful eating in a general French population: the Mind-Eat scale	Marion Van Beekum, Rebecca Shankland, Angélique Rodhain, Roxane Turgon, Antoine Avignon, Christophe Leys, Sandrine Péneau
<b>CSBADN30</b> Associations between eating behavior and dietary intake in a sample of type 2 diabetes patients	Lidia Iuliana Arhire, Ana Maria Gal, Andreea Gherasim, Otilia Nita, Alina Delia, Laura Mihalache, Mariana Graur
<b>CSBADN31</b> Hygienic assessment of proper nutrition of secondary school students	Akmaral Baspakova
<b>CSBADN32</b> Gender-specific dietary patterns of energy drink consumption among adolescents from southern Poland	Ewa Błaszczyk-Bębenek, Małgorzata Schlegel-Zawadzka, Paweł Jagielski, Jaśmina Żwirska, Paweł Kawalec
<b>CSBADN33</b> Food information is mostly not well accessible to consumers with a visual impairment – an exploratory phenomenological study	Alie de Boer, Alissa Schrijnemaekers
<b>CSBADN34</b> Meal Replacement and Metabolic Fitness in obesity treatment	Nenad Dikic, Marija Andjelkovic, Tamara Stojmenovic, Ivan Nikolic, Vera Blazencic Mladenovic, Jelena Bekic
<b>CSBADN35</b> Food insecurity and poverty has profound impact on psychological wellbeing of children and young people in post-covid UK	Louise Dye, Katie Adolphus, Zoe Whitehead, Fiona Croden, Neil Boyle
<b>CSBADN36</b> Individual resilience – recent elaborations on the impact of diet, physical activity and sleep	Friederike Elsner, Carola Strassner
<b>CSBADN37</b> Food security and nutritional status across two generations: Evidence from Indonesia	Isnawati Hidayah, Flaviana Palmisano, J.C. Kieft-de Jong
<b>CSBADN38</b> Exploring the Link between Hedonic Hunger and Obesity among Psychology Students	Fatma Özsel Özcan Araç, Rozerin Özperçin

**Room 14**

Track: Precision nutrition

Chairs: Barbara Stewart Knox, University of Bradford, Bradford, United Kingdom and  
Giorgia Vici, University of Camerino, Camerino, Italy

**PN17** The effects of various dietary and exercise interventions on continuously measured glucose levels in people with type 2 diabetes, and potential for personalized treatment

Iris de Hoogh, Tim Snel, Regina Kamstra, Tanja Krone, Hannah Eggink, Hanno Pijl, Albert de Graaf

**PN18** AI4Food project: application of personalised nutrition integrating artificial intelligence in nutritional interventions focused on weight loss

Isabel Espinosa-Salinas, Gala Freixer, Sergio Romero-Tapiador, Blanca Lacruz Pleguezuelos, Ruben Tolosana, Javier Ortega-Garcia, Enrique Carrillo-De Santa Pau

**PN19** Categorized Dietotypes emergence by exploratory factorial analyses with axial nutrition-health precision potential

Edwin Fernández-Cruz, Víctor de la O, Cristina Fernández, Alfonso Calle-Pascual, Angélica Larrad, José Luis Espadas, J. Alfredo Martínez

**PN20** The role of baseline serum 25(OH)D concentration for a potential personalized vitamin D supplementation

Paola R Ferrario, Bernhard Watzl, Christian Ritz

**PN21** The Effectiveness of specific pieces of advice in personalized nutrition – An example from the German Food4Me sub-cohort

Kurt Gedrich, Silvia Kolossa, Kai Hartwig

**PN22** Post hoc subgroup analysis and identification - learning more from existing data

Elizabeth Mannion, Paola Ferrario, Christian Ritz

**PN23** Machine learning and biological networks shed light on the effects of highly processed foods and diet quality on gut microbiome

Laura Judith Marcos-Zambrano, Victor López-Molina, Silvia Garcia, Sheyla Ordoñez, Blanca Lacruz-Pleguezuelos, Lidia Daimiel, Enrique Carrillo de Santa Pau

**PN24** Exploration of differential responses to FODMAPs and gluten in people with irritable bowel syndrome- a double-blind randomized cross-over intervention study

Elise Nordin, Rikard Landberg, Per Hellström, Carl Brunius

**PN25** Phenomics and genomics of food selection in instinctive nutrition

Rosica Popova, Konstanza Angelova, Bojidar Popov

**PN26** Somatosensation and oral comfort in cancer patients: neglected aspects of tailored food solutions?

Reisya Riantiningtyas, Anestis Dougkas, Camille Kwiecien, Wender Bredie, Amandine Bruyas, Agnès Giboreau, Florence Carrouel

**PN27** Harnessing artificial intelligence for the provision of personalised nutrition advice to population groups across the UK

Saskia Wilson-Barnes, Lazaros Gymnopoulos, Kiriakos Stefanidis, Dorothea Tsatsou, Riccardo Leoni, Jose Maria Botana, Kathryn

	Hart
<b>PN28</b> Comparative evaluation of a dietary fiber mixture in an intestinal screening platform and a crossover intervention study	Femke Hoevenaars, Tim van den Broek, Boukje Eveleens Maarse, Matthijs Moerland, Ines Warnke, Hannah Eggink, Frank Schuren
<b>PN29</b> Nutritional epidemiology and external validity	Conor Macdonald
<b>PN30</b> Effect of alpha-galactooligosaccharide removal on symptom severity in patients with functional gastrointestinal disorders	Anne-Maria Pajari, Maj Lundberg, Lyyra Simpura, Ching Jian, Sini Kuosmanen, Anne Salonen, Reijo Laatikainen
<b>PN31</b> Food-allergen specific substitutive diet as a proposal tool for adverse reactions to foodstuffs management. The ALASKA study	Lisset Pantoja-Arévalo, Eva Gesteiro, Jaime López-Seoane, Asmaa Nehari, Torsten Matthias, Rafael Urrialde, Marcela González-Gross
<b>PN32</b> Mapping the effects of plant-based proteins on human metabolic profiling	Samira Prado, Annalena Kamm, Tatiana Marques, Samira Salihovic, Victor Castro-Alves, Tuulia Hyötyläinen, Robert Jan Brumme
<b>PN33</b> Exploring the inter-individual variability in response to food in seniors living at home: The MetabotypAGE project	Claudine Manach, Cécile Gladine, Christine Morand, Laurent Mosoni, Estelle Pujos-Guillot, Didier Rémond, Sergio Polakof

## Room 16

Track: Cultural, societal and behavioural aspects of diet and nutrition

Chairs: Cécile Gladine, INRAE, Saint Genes Champanelle, France and Edith Feskens, Wageningen University and Research, Wageningen, The Netherlands

<b>CSBADN39</b> Prevalence and determinants of childhood obesity after Covid-19 in Spanish and immigrant children. The ASOMAD study	Asmaa Nehari, Alicia Portals-Riomao, Jaime López-Seoane, Marcela González-Gross, Carlos Quesada-González, Augusto García Zapico, Eva Gestiero Alejos
<b>CSBADN40</b> Assessing Awareness on the Role of Diet in Colorectal Cancer Prevention: A Pilot Study	Thea Schembri, Petra Jones
<b>CSBADN41</b> Evaluating health-related values and preferences about saturated fat consumption: a pooled analysis from six countries	Małgorzata Maraj, Anna Prokop-Dorner, Claudia Valli, Qi Wang, Marija Franka Žuljević, Bradley Johnston, Małgorzata Bała
<b>CSBADN42</b> How to nudge a modern consumer towards healthier food choices?	Eva Valenčič, Barbara Koroušič Seljak, Tamara Bucher, Clare Collins, Emma Beckett

<b>CSBADN43</b> Weight management challenges and facilitators in adult Maltese women	Nicole Zammit, Claire Copperstone
<b>CSBADN44</b> Validation and comparison of DEBQ and TEMS in assessing eating behaviour in romanian adult population	Ana Maria Gal, Oana Dumitrascu, Andreea Gherasim, Otilia Nita, Alina Delia Popa, Laura Mihalache, Lidia Iuliana Arhire
<b>CSBADN45</b> Stakeholder acceptance of policy measures to reduce meat consumption in Switzerland	Sebastian Richter, Adrian Muller, Mathias Stolze, Isabelle Schneider, Christian Schader
<b>CSBADN46</b> Cultural adaptation of a text message library designed to support diet, activity and weight management behaviour in the postpartum period in the UK: the Supporting MumS (SMS) Study	Eleni Spyreli, Lizzie Caperon, Emma Ansell, Sara Ahern, Sally Bridges, Pat Hoddinott, Michelle McKinley, on behalf of the Supporting MumS (SMS) team
<b>CSBADN47</b> Cross-sectional associations between general parenting and preschool children's vegetable and fruit consumption	Reetta Lehto, Jenna Rahkola, Carola Ray, Ester van der Borgh-Sleddens, Jessica Gubbels, Henna Vepsäläinen, Alissa Burnett
<b>CSBADN48</b> The impact of adolescents' food purchasing on overall dietary quality differs by socioeconomic status	Sarah Shaw, Sarah Crozier, Cyrus Cooper, Dianna Smith, Mary Barker, Christina Vogel
<b>CSBADN49</b> Socioeconomic inequalities in food habits among children living in North Macedonia	Aleksandra Stamenova, Katerina Mihajlova, Lorraine Wallace, Igor Spiroski
<b>CSBADN51</b> Local Food Systems under Global Influence: how to holistically assess evolving food systems?	Rapinski Michael, Richard Raymond, Damien Davy, Jean-Philippe Bedell, Thora Herrmann, Priscilla Duboz
<b>CSBADN52</b> Switching Mediterranean Consumers to Mediterranean Sustainable Healthy Dietary Patterns (SWITCHtoHEALTHY): study protocol of a multicentric and multi-cultural family-based nutritional intervention study	Lorena Calderón-Pérez, Djamel Rahmani, Metin GÜldaş, Asmaa El Hamdouchi, Simona Mincione, Noemí Boqué

## Room 1

Track: Nutrition, metabolism and chronic diseases

Chairs: Maria Somaraki, *INRAE*, Montpellier, Occitanie, France and Uros Cakar, University of Belgrade, Belgrade, Serbia

<b>NMCD161</b> Development and validation of Nutri S-Can, a short screener to	Alice Chaplin, Mar Nafría, Albert Sesé, Elena Rayó, Marga Morey, Lara Prohens, Dora
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evaluate adherence to the 2018 WCRF/AICR cancer prevention recommendations	Romaguera
<b>NMCD162</b> Association of sugar intake from different sources with incident dementia in the prospective cohort of UK Biobank participants	Sylva Mareike Schaefer, Anna Kaiser, Gerrit Eichner, Mathias Fasshauer
<b>NMCD163</b> Effect of an energy-restricted Mediterranean diet, physical activity and behavioural support lifestyle intervention on body composition in older adults with metabolic syndrome: three-year results in the Predimed-Plus Trial	Dora Romaguera, Miguel Ruiz-Canela, J.Alfredo Martínez, Vicente Martín, Ramón Estruch, Jordi Salas-Salvadó, Jadwiga Konieczna
<b>NMCD164</b> Effects of dietary sulfur amino acid restriction in humans: evidence from a double-blind, randomized controlled dietary intervention study	Emma Stolt, Thomas Olsen, Kathrine Vinknes, Amany Elshorbagy, Kjetil Retterstøl, Helga Refsum
<b>NMCD165</b> Markers of Dysmetabolism Revealed Using a Dietary Challenge and Dry Blood Spots in a Remotely Executed Clinical Trial	Jarlei Fiamoncini, Stephany Gonçalves Duarte, Tushar More, Carlos Mario Donado-Pestana, Rosa Maria Cerdeira Barros, Elias Da Silva Araújo, Karsten Hiller
<b>NMCD166</b> An Animal Model to Investigate Postprandial Metabolism	Larissa Rodrigues, Tushar More, Carlos Mario Donado-Pestana, Amanda Domingos Vasconcelos, Vinicius Bonfietti Mantovam, Karsten Hiller, Jarlei Fiamoncini
<b>NMCD167</b> Investigation to Isolate the Acute Metabolic Effects of Carbohydrate Restriction on Postprandial Substrate Metabolism with or without Energy Restriction	Hayriye Biyikoglu, Adam Collins, Denise Robertson
<b>NMCD168</b> Consumption of ultra-processed food is independently associated with premature mortality in cancer survivors: a prospective analysis from the Moli-sani Study in Italy	Marialaura Bonaccio, Augusto Di Castelnuovo, Simona Costanzo, Emilia Ruggiero, Maria Benedetta Donati, Giovanni De Gaetano, Licia Iacoviello
<b>NMCD169</b> Effects of a diabetes-specific formula on glycemic control and cardiometabolic risk factors in overweight and obese adults with type 2 diabetes: Results from a randomized controlled trial	Siew Ling Tey, Winnie Siew Swee Chee, Yatin Berde, Geraldine Baggs, Dieu Huynh
<b>NMCD170</b> Association between macro mineral nutrients and metabolic syndrome in Korean adults: cross-sectional results from the Health Examinees-Gem (HEXA-G) study	Jiae Shin, Ji-Yoon Kim, Sang-Ah Lee

**NMCD171** Are There Differences in Cytokine Profiles between Vegetarians and Omnivores?

Marta Despotović, Slavko Mojsilović, Ivana Šarac, Jasmina Debeljak Martačić, Petar Jovanović, Marija Takić

**NMCD172** Effect of yoga based lifestyle and dietary modification in overweight individuals with obstructive sleep apnea: A randomized controlled trial

Jasmin Kaur, Garima Shukla, Gautam Sharma, Anupama Gupta, Achal Kumar Srivastava, Aman Aggarwal, Pasang Lamo

**NMCD173** The intake of ultra-processed foods, all-cause, cancer and cardiovascular mortality in the Korean Genome and Epidemiology Study-Health Examinees (KoGES-HEXA) cohort

Sang-Ah Lee, Anthony Kityo

**NMCD174** Characterising diurnal and Irregularity eating patterns and their relationship with obesity in the Italian population in the INRAI-SCAI 2005-2006 nutrition survey

Luigi PALLA, Laura LOPEZ SANCHEZ

**NMCD175** Development and validation of a food frequency questionnaire to assess polyphenol intake and associate with inflammation in the Portuguese Population: study plan

Lizaveta Himan, Cláudia Nunes Santos, Nuno Mendonça

**NMCD176** N-3 polyunsaturated fatty acids profile is altered in pregnant women with different allergic diseases

Antonio Gázquez, Antonia Egea-Marín, Maya Sánchez-Martínez, Valentina Origüela, María Molina-Ruano, Luís García-Marcos, Elvira Larqué

**NMCD177** Dietary intake of pregnant women and its association with cardio-metabolic risk in their children

André Oelfose, Juley de Smidt, Hein Odendall Daan Nel, Lucy Brink, Heidi Nolan

**NTNR26** Effects of new lipid supplements during pregnancy on offspring's brain gene expression

Valentina Origüela, Antonio Gázquez, María José López-Andreo, María Pilar Bueno, Mustafa Vurma, Jia Pei Chan, Elvira Larqué

## Room 2

Track: Dietary bioactives

Chair: Dragan Milicevic, Institute of Meat Hygiene and Technology, Belgrade, Serbia and Margarita Dodevska, National Public Health Institute, Belgrade, Serbia

**DB45** The antidiabetic effect and potential mechanisms of *Pediococcus acidilactici* (pA1c®) alone and combined

Fermin Milagro, Deyan Yavorov-Dayliev, Josune Ayo Affiliation, María Oneca, Paula

with normoglycemic ingredients	Aranaz
<b>DB46</b> Study concerning the potential use of vegetable waste during the weaning stress in order to improve the gut health of weaned piglets	Daniela Marin, Cristina Bulgaru, Iulian Grosu, Andrei Anghel, Gina Pistol, Ana Cismileanu, Ionelia Taranu
<b>DB47</b> Antioxidant activity of culinary-processed food	Monika Sejbuk, Anna Zinkow, Malgorzata Kuczynska, Monika Cyunczyk, Iwona Mironczuk-Chodakowska, Anna Witkowska
<b>DB48</b> The effects of fermentable dietary fibre supplementation on intestinal barrier function, intestinal microbiome, and inflammation in microscopic colitis patients – a randomised, triple-blinded, placebo-controlled trial	Richard Forsgård, Julia König, Katharina Dannenberg, Jean-Luc Tison, Tatiana Marques, Rebecca Wall, Robert Brummer
<b>DB49</b> Assessing the potential of apple by-product meal extract to protect intestinal epithelial cells against cellular damage induced by Escherichia coli lipopolysaccharide	Ionelia Taranu, Gina Cecilia Pistol, Ana-Maria Pertea, Cristina Bulagaru, Daniela Eliza Marin
<b>DB50</b> Polyphenols as novel prebiotics for mycobiota	Ana Bačić, Milica Milutinović, Mirjana Rajilić-Stojanović
<b>DB52</b> Enhancing bioactive compound extraction from pumpkin using accelerated solvent extraction	Milana Matić, Alena Stupar, Lato Pezo, Nataša Đerić Ilić, Anamarija Mandić, Milica Pojić, Aleksandra Mišan
<b>DB53</b> Bioavailability and Bioaccessibility of Pumpkin Carotenoids	Milana Matić, Nataša Đerić Ilić, Bojana Šarić, Alena Stupar, Anamarija Mandić, Milica Pojić, Aleksandra Mišan
<b>DB54</b> Fatty Acid Profile of Hemp Sprouts	Nataša Đerić Ilić, Slađana Rakita, Marina Đerić, Milana Matić, Alena Stupar, Milica Pojić, Aleksandra Mišan
<b>DB55</b> Evaluating the Preservation of Bioactive Compounds in Encapsulated Powder of Allium ursinum	Nataša Đerić Ilić, Alena Stupar, Senka Vidović, Milana Matić, Aleksandra Mišan
<b>DB56</b> Short-term effects of fruit juice enriched with vitamin D3, n-3 PUFA, and probiotics on subjective appetite and blood pressure: A randomized controlled clinical trial in healthy adults	Dionysia-LydiaBothou, Nikolaos Zacharodimos, Christina Athanasaki, Stamatia Vitsou-Anastasiou, Olga Papadopoulou, Chrysoula Tassou, Emilia Papakonstantinou
<b>DB57</b> Association between total, classes and subclasses of (poly)phenol intake and changes in anthropometric measurements in the MTC study	Astrid Jazmin Castañeda Moreno, Sabina Rinaildi, Enrique Almanza-Aguilera, Dalia Stern, Martin Lajous, Raul Zamora-Ros

**DB58** The selected nutritional properties of breads enriched with fresh kale and spinach

Marta Czarnowska-Kujawska, Małgorzata Starowicz, Joanna Klepacka

**DB59** Can the increased antioxidant capacity of snacks improve the CVD disease patients' body antioxidant defence?

Magdalena Czlapka-Matyasik, Pawel Gut