eICDAM2021 FEBRUARY 8-12, 2021

Theme: a global twenties vision

All times are Central European Times (CET)

Monday February 8	Program	
15.50 - 16.00	Access conference	
16.00 - 16.15	**Opening ceremony** **Prof. Louise Fresco, president of the Executive board of Wageningen University and Research** **Prof. Dr. Edith Feskens, Dr. Sharon Kirkpatrick, Dr. Jeanne de Vries, ICDAM International Committee**	
16.15 – 16.45	*Introduction by Prof. Edith Feskens* ***The 24-hour revolution in activity assessment*** **Prof. Dr. Tim Olds** **University of South Australia, Adelaide, Australia**	
16.45 – 16.55	Questions for Prof. Olds (responses to follow in recorded session on February 9)	
17.00 – 18.30	**S1. Symposium** **Methodological issues related to measurement error in assessing diet and physical activity** ***Chair: Sharon Kirkpatrick*** Introduction **Sharon Kirkpatrick** Integrating dietary assessments with biomarker measurements in aetiological models **Pietro Ferrari** Categorizing variables measured with error **Hendriek Boshuizen** New insights into the effects of time-varying error-prone exposure in the analysis of longitudinal studies of physical activity **Victor Kipnis** Discussion **Doug Midthune**	***S2.* Symposium** **Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES** ***Chair: Soran Brage*** Introduction Free physical activity data! The MoTrPAC story **Stephanie George** Free physical activity data! The NHANES story **Rick Troiano** Discussion **Stephanie George & Rick Troiano**
18.30 – 19.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	

19.00 – 20.30	**S3. Oral presentations** **Comparison and validation research** ***Chairs: Inge Brouwer and Inge Huybregts*** 1. Validation of the Web-Based Self-Administered 24-hour Dietary Recall myfood24-Germany: comparison with a weighed dietary record and biomarkers. **Stefanie Koch** 2. Relative validity of a food frequency questionnaire for assessing dietary patterns and food group intake in older New Zealand adults: The REACH study **Kathryn Beck** 3. Evaluation of the New Zealand Women's Food Frequency Questionnaire to assess nutrient intakes in women: the PROMIsE Study **Rozanne Kruger** **QUESTIONS AND ANSWERS** 4. Reproducibility and validity of the Cancer Prevention Study-3 Modified Food Frequency Questionnaire using multiple 24-hr recalls and biomarkers among a racially/ethnically diverse subgroup **Marjorie L. McCullough** 5. Accuracy of tablet vs. paper based 24-hour individual dietary recall compared to weighed food records in Burkina Faso and Viet Nam **Winnie Bell** 6. The dynamic food metabolome: implications for dietary assessment and nutrition research **Gunter G Kuhnle** **QUESTIONS AND ANSWERS**	**S4. Oral presentations** **Usual intake analysis** ***Chairs: Marga Ocké and Eileen Gibney*** *1.* Within-person variation in nutrient intakes across populations and settings: implications for the use of external estimates in modeling usual nutrient intake distributions **Caitlin French** 2. Estimation of habitual dietary consumption with a multiple-source method and validation of its utility against nutritional biomarkers: the United Kingdom National Diet and Nutrition Survey **Fumiaki Imamura** 3. A new statistical method for estimating usual intakes of nearly-daily consumed foods and nutrients using only one 24-h dietary recall H**anqi Luo** **QUESTIONS AND ANSWERS** 4. Reducing measurement error and strengthening diet-disease associations by combining baseline and repeated dietary intake data: a case-study of fruit intake and IHD risk in UK Biobank **Keren Papier** 5. Correcting the effects of salt and alcohol intake on blood pressure using simulation extrapolation for 24-hour dietary recall data **Timm Intemann** 6. Comparing different latent transition models to estimate the usual prevalence of dietary patterns **Milton Severo** **QUESTIONS AND ANSWERS**

Tuesday February 9		
12.50 – 13.00	Access conference	
13.00 – 14.30	Questions and Answers **Tim Olds** (recorded follow up to February 8 keynote)	**S6. Symposium** **Innovative advances in dietary patterns that can help inform population guidelines** ***Chair: Jill Reedy*** Introduction **Jill Reedy** Innovative advances in dietary patterns that can help inform population guidelines **Angela Liese** Temporal dietary patterns identified by a two-stage hierarchical clustering method **Yikyung Park** Reproducibility of diet-disease associations for exploratory dietary patterns **Franziska Jannasch** Discussion **Sharon Kirkpatrick**
14.30 – 15.30	*Choice: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
15.30 – 16.00	Introduction by Dr. Jeanne de Vries ***Wija's will: reflections and perspectives inspired by Wija van Staveren*** **Prof. dr. Lisette de Groot & Prof. Dr. Edith Feskens Wageningen University & Research Center, The Netherlands**	
16.00 – 16.15	Questions and answers (live)	
16.15 – 17.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
17.00 – 18.30	**S7. Oral presentations** **Combining methods** ***Chairs: Jeanne de Vries and Carla Lopes*** 1. Activity tracking smartphone apps: characterising temporal patterns in app usage and physical activity behaviour **Francesca Pontin** 2. Evaluation of a photographic food record to assess evening meal intake of 18-month-old children in the Baby's First Bites Study **Janneke Schultink**	**S8. Oral presentations** **Technological advances** ***Chairs: Sharon Kirkpatrick and Alison Eldridge*** 1.Ten years of research on the feasibility and validity of the Automated Self-Administered 24-hour Dietary Assessment Tool: Lessons for the implementation of technology-enabled assessment **Sharon Kirkpatrick** 2. Recent and upcoming enhancements to the Automated Self-Administered 24-hour Dietary

	3. Combination of assessment methods for intake of fatty fish and fruit/vegetables and validation against objective biomarkers. **Sophie Hellstrand** **QUESTIONS AND ANSWERS** 4. Associations between estimated dietary pesticide residue exposure and mortality in a population-based prospective cohort of men and women **Agneta Åkesson** 5. Potential calcium biomarkers - a systematic review and meta-analysis **Suvi Itkonen** **QUESTIONS AND ANSWERS**	Assessment Tool (ASA24) **Kirstin Herrick** 3. A comparison of food portion size estimation methods: 3D food models vs an online tool using food portion photos (Intake24) **Jennifer Bradley** **QUESTIONS AND ANSWERS** 4. Relative validity of The Eetmeter - a food diary app to provide healthy diet advice **Marga Ocke** 5. Selection of an automated dietary assessment tool for use in the UK National Diet and Nutrition Survey (NDNS) Rolling Programme (RP) **Toni Steer** 6. Validity of an innovative 2-hour recall smartphone app **Desiree Lucassen** **QUESTIONS AND ANSWERS**
18.30 – 19.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
19.00 – 20.30	***S9. Symposium*** **Understanding and adjusting for the impact of Berkson error arising from prediction equations in nutritional and physical activity epidemiology** **Chair: Pamela Shaw** Methods of analysis when an outcome variable is a prediction with Berkson error **Laurence Freedman** Estimating the distribution of usual nutrient intake using predicted values from a calibration equation in a complex survey design **Daniela Sotres-Alvarez** Berkson error with outcome model misspecification: Bias when using predicted values in place of observed covariates **Gregory Haber** Discussion **Grace Yi**	**S10. *Symposium*** **Conducting dietary surveys in low- and middle-income Countries: Challenges, experiences and strategies for improvement** **Chair: Edwige Landais** Introduction **Edwige Landais** INDDEX24: A new global dietary assessment platform to scale up the availability, access, and use of dietary data **Jennifer Coates** Technical assistance for dietary surveys in low- and middle-income countries: Intake – Center for Dietary Assessment **Megan Deitchler** Towards FAIR food and nutritional data **Carl Lachat** Panel discussion **Panel**

Wednesday February 10		
12.50 – 13.00	Access conference	
13.00 – 14.30	**S11. Oral presentations** **Diet quality and patterns** ***Chairs: Liisa Valsta*** 1 .A systematic review of dietary pattern assessment methods **Sarah McNaughton** 2. Identifying dietary patterns using novel supermarket transaction data **Michelle Morris** 3. Socioeconomic inequities in diet quality among Canadian adults: A nationally representative analysis of change between 2004 and 2015 **Dana Olstad** **QUESTIONS AND ANSWERS** 4. Secular trends in diet-related greenhouse gas emission estimates in Sweden since 2000 – evidence of a shift towards more sustainable food patterns **Lauren Lissner** 5. Multidimensional characterization of alcohol consumption in the Framingham Offspring Study (FOS) – Longitudinal trends 1971-2014 and association with diet quality **Niyati Parekh** 6. The development of a short food frequency questionnaire to assess diet quality in UK adolescents **Sarah Shaw** **QUESTIONS AND ANSWERS**	**S12.Oral presentations** **Machine learning** ***Chairs: Jason Morgenstern and Guido Camps*** 1. Development of a machine-readable knowledge base for nutritional and dietary assessment data **Chen Yang** 2. Development of machine learning prediction models to explore nutrients predictive of cardiovascular disease using Canadian linked population-based data **Jason Morgenstern** 3. Addressing truncation in diet quality index scoring **Glenn Ricart** **QUESTIONS AND ANSWERS** 4. Feasibility and validity of the Consumer Price Index to measure diet costs in Canada. **Gabriella Luongo** 5. Joint temporal dietary and physical activity patterns associate with health status indicators **Heather Eicher-Miller** **QUESTIONS AND ANSWERS**
14.30 – 15.30	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
15.30 – 16.00	Introduction by Dr. Sharon Kirkpatrick ***Scaling up dietary assessment globally: challenges, inroads, and future opportunities*** **Dr. Jennifer Coates , Tufts University, Boston, USA**	
16.00 – 16.15	Questions and answers (live)	
16.15 - 17.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	

17.00 – 18.30	**S13.** ***Symposium*** **Novel approaches to assessing dietary quality in the food system: combining methods to enhance measurement for dietary surveillance and interventions** ***Chairs: Niyati Parekh & Maya Vadiveloo*** Introduction **Niaty Parekh** Evaluating the effect of targeted food incentives on grocery purchases: The Smart Cart Study protocol for a randomized controlled cross-over trial **Maya Vadiveloo** Application of the NOVA framework to enhance assessment of diet quality in US nationally representative surveys of dietary intake and grocery purchase **Filippa Juul** Assessing Validity of Self-Reported Dietary Intake within a Mediterranean Diet Clinical Trial Intervention **Mercedes Sotos-Pietro** Discussion **Niyati Parekh**	**S14**. ***Symposium*** **Measures of dietary patterns and food environments for diverse populations and settings** ***Chair: Sharon Kirkpatrick*** Introduction **Sharon Kirkpatrick** Validity of a novel food-based index for measuring diet quality in low- and middle-income countries **Sabri Bromage** Application and refinement of the Prime Diet Quality Score for different contexts **Selma Gicevic** A comprehensive approach for adapting and evaluating a Home Food Inventory to meet the cultural needs of diverse populations **Jayne Fulkerson** Adapting a home food inventory for an urban Minnesota Somali and Latina population **Mary Hearst** Discussion **Leslie Lytle**
18.30 – 19.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
19.00 – 20.30	**S15. Oral presentation** **Methods on diet quality** ***Chairs: Sandra Crispim and Elise Talsma*** 1. Dietary diversity indicators and their associations with nutritional adequacy of the diet and health outcomes – a systematic review **Eric Verger** 2. The Healthy and Sustainable Diet Index: a novel theoretically derived index, applied and evaluated using images collected with the mobile food record **Amelia Harray** 3. Associations between eating behaviours according to Canada's Food Guide, diet quality score and cardiometabolic risk markers: insights from the PREDISE study	**S16. Oral presentation** **Biomarkers** ***Chairs: Lisette de Groot and Taymara Abreu*** 1. Twenty-four hour urinary sucrose and fructose is a good measure of total sugars but not added sugars intake in US participants **Natasha Tasevska** 2. Validity coefficient of urinary marker of sugar intake is comparable to urinary nitrogen as marker of protein intake in free-living individuals **Taymara Abreu** 3. Continuous glucose variations as biomarker for the relation between food intake, glucose health status, and wellbeing. Lessons learned and preliminary results from a real-world

	Didier Brassard QUESTIONS AND ANSWERS 4. Designing food databases for Indigenous Populations: lessons learned from South-Western Uganda. **Giulia Scarpa** 5. VALIDA project: Validating the use of photos for food portion quantification **Sandra Crispim** 6. Validation of 24-h dietary recall for estimating nutrient intakes and adequacy in adolescents 10-11 and 12-14 y of age in Burkina Faso **Joanne Arsenault** QUESTIONS AND ANSWERS	study **Willem van den Brink** QUESTIONS AND ANSWERS 4. Measuring micronutrient intake in children: comparison of 24-hour diet records, 24-hour urine, and duplicate diets for estimating potassium, sodium, and iodine **Rachael McLean** 5. Can skin colour spectrophotometry be used as an objective biomarker for fruit and vegetable intake in Kenyan adults? **Karin Borgonjen - van den Berg** 6. The carbon isotope ratio of serum alanine predicts added sugar intake in a controlled feeding study of US postmenopausal women **Diane O'Brien** QUESTIONS AND ANSWERS

Thursday February 11		
12.50 – 13.00	Access conference	
13.00 – 14.30	**S17.** ***Symposium*** **Closing the gap with digital dietary assessment** ***Chair: Alison Eldridge*** Introduction **Alison Eldridge** Current reality and gaps in digital dietary assessment tools **Anne-Kathrin Illner** Closing the gap on 24-h recalls **Sai Krupa Das** Closing the gap on individualised feedback **Eileen Gibney** The future of digital dietary assessment **Damian Mehers** Discussion	**S18.** ***Symposium*** **Biomarkers for food and beverage intake – results from the FoodBall project** ***Chair: Edith Feskens*** Introduction Foodball project **Edith Feskens** Finding and Validating Biomarkers of Food and Beverage Intake by Metabolomics **Lars Dragsted** Biomarkers for Cola beverage consumption identified by untargeted GC-MS-based metabolomics approaches **Carina Mack** Non-targeted and targeted metabolomics to identify and validate biomarkers of fermented dairy intake **Katherine Li** Metabolomics-based dietary biomarkers in nutritional epidemiology - current status and future opportunities **Lorraine Brennan**
14.30 – 15.30	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
15.30 – 16.00	Introduction by prof. Edith Feskens ***Measuring the quantity and quality of physical activity, where's the balance?*** **Prof. Dr Gareth Stratton** **Swansea University, Swansea, UK**	
16.00 – 16.15	Questions and answers (live)	
16.15 – 17.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	
17.00 – 18.30	**S19.** **Oral presentation** **Statistical methods** ***Chairs: Edith Feskens and Pamela Shaw*** 1. What do Australian adults eat for snacks? A latent variable mixture modelling approach **Rebecca Leech** 2. Are predictive equations for estimating total energy intake reliable in older adults? **Lais Duarte Batista**	**S20.** **Oral presentations** **Development of methods** ***Chairs: Janet Cade and Rick Troiano*** 1. Nutritools: an interactive guided website including validated dietary assessment tools and a food questionnaire creator **Janet Cade** 2. Development of the Dutch food consumption application DitEetIk! **Ceciel Dinnissen** 3. Environmental sustainability of diet

	3. Comparison of several energy intake misreport identification methods on the accuracy of nutrient intake estimations using urinary biomarkers **Vânia Magalhães** QUESTIONS AND ANSWERS 4. Improving the Healthy Eating Index: Application of two novel methods to empirically reweight a composite diet score. **Eli Kravitz** 5. Predicting mortality in the National Health and Nutrition Examination Survey using a lasso-weighted and 6-component Healthy Eating Index-2015 **Haley Parker** 6. Substitution analyses of diet-related greenhouse gas emissions: How to reduce emissions by switching to plant-based meals for lunch **Katarina Bälter** QUESTIONS AND ANSWERS	– feasibility of linkage to automated online dietary assessment tools **Holly Rippin** QUESTIONS AND ANSWERS 4. Comparison of large-scale grocery purchases and individual-level food consumption: results from the LoCard-study **Henna Vepsäläinen** 5. The Development of a Total Nutrient Index Using Nationally Representative Data from Adults in the United States. **Alexandra Cowan** 6. The relationship between adults' dietary intakes and food insecurity status in Canada: implications for future population assessment **Joy Hutchinson** QUESTIONS AND ANSWERS
18.30 – 19.00	*GET INVOLVED: Networking, posters, sponsors, workout*	
19.00 – 20.30	**S21.** ***Symposium*** **Statistical considerations for the use of biomarkers to assess dietary intake** ***Chair: Lorraine Brennan*** Introduction **Lorraine Brennan** Calibration of amino acid stable carbon isotope ratios as biomarkers of human diet **Pamela Shaw** Estimating habitual salt intake distribution from 24-h urinary sodium excretion and the potential of the use of external within-person variance **Janneke Verkaik- Kloosterman** Prediction equations for blood concentration markers for carotenoids, tocopherols, retinol, vitamin B12 and folate in the HCHS/SOL Nutrition and Physical Activity Assessment Study **Lillian Boe** Spot urine biomarkers and 24-hour	**Presentations of 10 nominees for the poster prize** ***Chairs: Sandra Crispim and Jeanne de Vries***

	dietary recalls: validation and measurement error correction **Iris Pigeot** Discussion **Lorraine Brennan**	

Friday February 12		
12.50 – 13.00	Access conference	
13.00 – 14.30	**S23. Oral presentations** **Contextual factors** ***Chairs: Christophe Matthys and Maijaliisa Erkkola*** 1. Development of a Dutch Diet History Questionnaire to assess the dietary intake of low SES pregnant women **Yvette Beulen** 2. Ranking barriers to healthy eating in young adults: application of a discrete choice experiment **Katherine Livingstone** 3. The impact of sugar-sweetened beverages consumption on healthy food markers: National Dietary Survey 2008-2009 **Maria Eliza de Mattos or Tobler Mastrangelo** **QUESTIONS AND ANSWERS** 4. Examining the effect of voluntary fortification on usual nutrient intakes in the Canadian population **Valerie Tarasuk** 5. Restricting promotions of unhealthy foods and beverages by price and location: applying UK Nutrient Profiling Models to a retail product dataset. **Michelle Morris** 6. Investigating eating architecture: how precise does time of eating have to be? **Laura Johnson** **QUESTIONS AND ANSWERS**	**S24. Oral presentations** **Databases** ***Chairs: Anne-Kathrin Illner and Karin Borgonjen*** 1. Stage 1- Rationalisation of the UK Nutrient Databank to enable the UK National Diet and Nutrition Survey to move to a web-based 24hr recall (Intake24) **Birdem Amoutzopoulos** 2. Enhancing qualitative assessment of complex food behaviors through free-listing informed mind-mapping: development and feasibility analysis **Shahmir H. Ali** 3. NOVA food classification: how specific does survey data need to be collected? **Vanessa Cardozo Mendes Elias** **QUESTIONS AND ANSWERS** **4.** FAO/WHO Global Individual Food consumption data Tool (FAO/WHO GIFT): increasing the availability, harmonization and use of individual quantitative food consumption data worldwide **Rita Ferreira de Sousa or VP de Quadros** 5. EU Menu project harmonised food consumption data collection and challenges to face **Sofia Ioannidou** 6. Methodology for estimating the intake of free sugars: a food disaggregation approach in the context of the Finnish food composition database **Niina Kaartinen** **QUESTIONS AND ANSWERS**
14.30 – 15.00	*GET INVOLVED: Workout video, Networking, Poster session, Sponsors, Tour Campus*	

15.00 – 15.30	**Poster awards** ***Sandra Crispim and Jeanne de Vries***
15.30 – 16.30	***Discussion: setting the research agenda*** ***A global twenties vision*** **Prof. Dr. Edith Feskens and Prof. Dr. Mikael Fogelholm** ***Moderator: Dr. Guido Camps***
!6.30 – 17.00	**Closing of the conference** **Prof. Edith Feskens and Dr. Jeanne de Vries** **The future of ICDAM - Dr. Sharon Kirkpatrick**