# ICDAM 2020, May 17-20, 2020, Ede, The Netherlands
# TENTATIVE PROGRAM

## Saturday 16 May 2020

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| 9:00 - 16:00 | Pre-conference workshops |

## Sunday 17 May 2020

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| 9:00 - 16:00 | Pre-conference workshops |
| 17:00 - 19:00 | Welcome reception |

## Day 1: Monday 18 May 2020

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| 9:00 - 9:40 | **ICDAM 2020 opening and welcome** | **THEATRE** |
| 9:40 - 10:30 | **Plenary**<br>*The 24-hour revolution in activity assessment*<br>**Dr. Tim Olds, University of South Australia** | **THEATRE** |
| 10:30 - 11:00 | **Networking break** | **NEW YORK FOYER** |

| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
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| 11:00 - 12:30 | S1.Symposium: *Methodological issues related to measurement error in assessing diet and physical activity*<br>**Chair: Sharon Kirkpatrick** | S2. Symposium: *Assessing contextual factors to assist understanding of eating and activity behaviours*<br>**Chair: Rebecca Leech** | *S3. Symposium: Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES*<br>**Chair: Stewart Trost** |
| | Integrating dietary assessments with biomarker measurements in aetiological models<br>**Pietro Ferrari** | Introduction<br>**Rebecca Leech** | Introduction<br>**Stewart Trost** |
| | Categorizing variables measured with error<br>**Hendriek Boshuizen** | Assessing contextual factors to assist understanding of eating and activity behaviours<br>**Laura Johnson** | Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES<br>**Stephanie George** |

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| | New insights into the effects of time-varying error-prone exposure in the analysis of longitudinal studies of physical activity<br>**Victor Kipnis** | Understanding situational factors associated with sugar-sweetened beverage intake in young adults using real-time assessment of eating occasions<br>**Rebecca Leech** | Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES<br>**Rick Troiano** |
| | | Seeing is believing – using wearable cameras to capture diet and activity behaviours in people living with heart failure<br>**Ralph Maddison** | Panel discussion<br>**Stephanie George & Rick Troiano** |
| | | Panel discussion<br>**Carol Boushey** | |
| 12:30 - 14:00 | **Lunch and poster session** | | **NEW YORK FOYER** |
| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
| 14:00 - 15:30 | S4. Oral presentations: C*omparison and validation research*<br>**Chair: Inge Brouwer** | S5. Oral presentations: *Usual intake analysis*<br>**Chair: Marga Ocke** | S6. Oral presentations: *Combining methods*<br>**Chair: Janet Cade** |
| | Physical activity intensity and energy expenditure by different estimates of selected daily activities<br>**Luiz Antonio dos Anjos** | Within-person variation in nutrient intakes across populations and settings: implications for the use of external estimates in modeling usual nutrient intake distributions<br>**Caitlin French** | Measurement of transport modes in young adults using wearable cameras and the global physical activity questionnaire<br>**Alyse Davies** |
| | Comparison of the Oxford WebQ – a web-based 24-hour dietary questionnaire – with 4-day diet diaries and biomarkers<br>**Kathryn Bradbury** | Using the NCI method to estimate usual dietary intake distributions from repeated 3-day weighed food records – a comparison of two approaches<br>**Linda Hierath** | The use of automated wearable cameras with 24-hour recalls in adolescents<br>**Claire Smith** |

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| | Evaluation of the New Zealand Women's Food Frequency Questionnaire to assess nutrient intakes in women: the PROMIsE Study<br>**Rozanne Kruger** | 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<br>**Fumiaki Imamura** | Evaluation of a photographic food record to assess evening meal intake of 18-month-old children in the Baby's First Bites Study<br>**Janneke Schultink** |
| | 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<br>**Marjorie L. McCullough** | A new statistical method for estimating usual intakes of nearly-daily consumed foods and nutrients using only one 24-h dietary recall<br>**Hanqi Luo** | Development of quality index to classify meal healthiness through photos: first step for app of meal assessment using machine learning<br>**Josiane Steluti** |
| | Accuracy of tablet vs. paper based 24-Hour individual dietary recall compared to weighed food records in Burkina Faso and Viet Nam<br>**Winnie Bell** | 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<br>**Keren Papier** | Improvement of fatty fish intake data by combining assessment methods and validation against the objective biomarker 3-carboxy-4-methyl-5-propyl-2-furanpropanoic acid<br>**Ulrika Ericson** |
| | The dynamic food metabolome: implications for dietary assessment and nutrition research<br>**Gunter G. Kuhnle** | Correcting the effects of salt and alcohol intake on blood pressure using simulation extrapolation for 24-hour dietary recall data<br>**Timm Intemann** | Associations between estimated dietary pesticide residue exposure and mortality in a population-based prospective cohort of men and women<br>**Agneta Åkesson** |
| 15:30 - 16:00 | **Networking break** | | **NEW YORK FOYER** |
| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
| 16:00 -17:30 | S7. Symposium: *Innovative advances in dietary patterns that can help inform population guidelines*<br>**Chair: Jill Reedy** | S8. Symposium: *Biomarkers for food and beverage intake – results from the FoodBall project*<br>**Chair: Edith Feskens** | S9. Symposium: *Conducting dietary surveys in Low-and Middle-Income Countries: Challenges, experiences and*<br>**Chair: Edwige Landais** |

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| Introduction<br>**Jill Reedy** | Introduction to the Foodball project<br>**Edith Feskens** | Introduction<br>**Edwige Landais** |
| Innovative advances in dietary patterns that can help inform population guidelines<br>**Angela Liese** | Finding and validating biomarkers of food and beverage intake by metabolomics<br>**Lars Dragsted** | INDDEX24: A new global dietary assessment platform to scale up the availability, access, and use of dietary data<br>**Jennifer Coates** |
| Temporal dietary patterns Identified by a two-stage hierarchical clustering method<br>**Yikyung Park** | Biomarkers for Cola beverage consumption identified by untargeted GC-MS-based metabolomics approaches<br>**Carina Mack** | Technical assistance for dietary surveys in low- and middle-income countries: Intake – Center for Dietary Assessment<br>**Megan Deitchler** |
| Reproducibility of diet-disease associations for exploratory dietary patterns<br>**Matthias Schulze** | Non-targeted and targeted metabolomics to identify and validate biomarkers of fermented dairy intake<br>**Katherine Li** | Towards FAIR food and nutritional data<br>**Carl Lachat** |
| Panel discussion<br>**Sarah McNaughton & Sharon Kirkpatrick** | Metabolomics-based dietary biomarkers in nutritional epidemiology - current status and future opportunities<br>**Lorraine Brennan** | Panel discussion |

## Day 2: Tuesday 19 May 2020

| ROOMS | THEATRE | CERISE | KERNHEM |
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| 8:30 -10:00 | S10. Symposium: *Novel approaches to assessing dietary quality in the food system: combining methods to enhance measurement for dietary surveillance and interventions*<br>**Chairs: Niyati Parekh & Maya Vadiveloo** | S11. Symposium: *Statistical considerations for the use of biomarkers to assess dietary intake*<br>**Chair: Lorraine Brennan** | S12. Symposium: *Addressing reactivity bias with food recording: can mobile methods advance the field?*<br>**Chair: Carol Boushey** |

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| | Introduction<br>**Niaty Parekh** | Calibration of amino acid stable carbon isotope ratios as biomarkers of human diet<br>**Pamela Shaw** | Introduction<br>**Carol Boushey** |
| | Evaluating the effect of targeted food incentives on grocery purchases: The Smart Cart Study protocol for a randomized controlled cross-over trial<br>**Maya Vadiveloo** | Estimating habitual salt intake distribution from 24-h urinary sodium excretion and the potential of the use of external within-person variance<br>**Janneke Verkaik-Kloosterman** | Addressing reactivity bias with food recording: can mobile methods advance the field?<br>**Deborah Kerr** |
| | Application of the NOVA framework to enhance assessment of diet quality in US nationally representative surveys of dietary intake and grocery purchase<br>**Filippa Juul** | Prediction equations for blood concentration markers for carotenoids, tocopherols, retinol, vitamin B12 and folate in the HCHS/SOL Nutrition and Physical Activity Assessment Study<br>**Lillian Boe** | A smartphone app for the collection of individual dietary intake data in settings where shared plate eating is common: design and development process<br>**Megan Rollo** |
| | Assessing validity of self-reported dietary intake within a Mediterranean Diet clinical trial intervention<br>**Mercedes Sotos-Pietro** | Spot urine biomarkers and 24-hour dietary recalls: validation and measurement error correction<br>**Iris Pigeot** | Examining reactivity and the use of image-based food records to monitor dietary intake<br>**Carol Boushey** |
| | Discussion<br>**Niyati Parekh** | | |
| 10:10 - 11:00 | **Plenary** **THEATRE**<br>*Wija's Will: Reflections and perspectives inspired by Wija van Staveren*<br>**Prof. Lisette de Groot and Prof. Edith Feskens, Wageningen University & Research Center** | | |
| 11:00 - 11:30 | Networking break **NEW YORK FOYER** | | |
| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
| 11:30-13:00 | S13. Oral presentations: *Technological advances*<br>**Chair: Kate Lyden** | S14. Oral presentations: *Diet quality and patterns*<br>**Chair: Carol Boushey** | S15. Oral presentations: *Machine learning*<br>**Chair: Rick Troiano** |

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| 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<br>**Sharon Kirkpatrick** | A systematic review of dietary pattern assessment methods<br>**Sarah McNaughton** | Development of a machine-readable knowledge base for nutritional and dietary assessment data<br>**Chen Yang** |
| Recent and upcoming enhancements to the Automated Self-Administered 24-hour Dietary Assessment Tool (ASA24)<br>**Kirstin Herrick** | Identifying dietary patterns using novel supermarket transaction data<br>**Michelle Morris** | Applying machine learning to derive sex-specific nutrition risk profiles for predicting cardiovascular cisease using Canadian linked population-based data<br>**Jason Morgenstern** |
| A comparison of food portion size estimation methods: 3D food models vs an online tool using food portion photos (Intake24)<br>**Jennifer Bradley** | Socioeconomic inequities in diet quality among Canadian adults: A nationally representative analysis of change between 2004 and 2015<br>**Dana Olstad** | Can machine learning activity classification models developed in children with Cerebral Palsy (CP) be used in children with an Acquired Brain Injury?<br>**Stewart Trost** |
| Relative validity of The Eetmeter - a food diary app to provide healthy diet advice<br>**Marga Ocke** | Multidimensional characterization of alcohol consumption in the Framingham Offspring Study (FOS) – Longitudinal trends 1971-2014 and association with diet quality<br>**Lauren Lissner** | Eating behaviour assessed using upper limb mounted motion sensors: A systematic review<br>**Megan Rollo** |
| Selection of an automated dietary assessment tool for use in the UK National Diet and Nutrition Survey (NDNS) Rolling Programme (RP)<br>**Toni Steer** | Multidimensional characterization of alcohol consumption in the Framingham Offspring Study (FOS) – Longitudinal trends 1971-2014 and association with diet quality<br>**Filippa Juul** | Improving the Healthy Eating Index: Application of two novel methods to empirically reweight a composite diet score<br>**Eli Kravitz** |

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| | The FoodTrack study: A combined GPS and ecological momentary smartphone assessment study to track individuals' food environment exposure, food purchases, and food consumption<br>**Maartje Poelman** | The development of a short food frequency questionnaire to assess diet quality in UK adolescents<br>**Sarah Shaw** | Joint temporal dietary and physical activity patterns associate with health status indicators<br>**Heather Eicher-Miller** |
| 13:00 - 14:30 | **Lunch and poster session** | | **NEW YORK FOYER** |
| 14:30 - 15:20 | **Plenary**<br>*Scaling up dietary assessment globally challenges, inroads, and future opportunities*<br>**Dr. Jennifer Coates, Tufts University** | | **THEATRE** |
| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
| 15:30 - 17:00 | S16. Oral presentation: *Methods on diet quality*<br>**Chair: Sandra Crispim** | S17. Oral presentation: *Biomarkers*<br>**Chair: Lisette de Groot** | S18. Oral presentation: *Statistical methods*<br>**Chair: Edith Feskens** |
| | Dietary diversity indicators and their associations with nutritional adequacy of the diet and health outcomes – a systematic review<br>**Eric Verger** | Twenty-four hour urinary sucrose and fructose is a good measure of total sugars but not added sugars intake in US participants<br>**Natasha Tasevska** | What do Australian adults eat for snacks? A latent variable mixture modelling approach<br>**Rebecca Leech** |
| | The Healthy and Sustainable Diet Index: a novel theoretically derived index, applied and evaluated using images collected with the mobile food record<br>**Amelia Harray** | Validity coefficient of urinary marker of sugar intake is comparable to urinary nitrogen as marker of protein intake in free-living individuals<br>**Taymara Abreu** | Are predictive equations for estimating total energy intake reliable in older adults?<br>**Lais Duarte Batista** |
| | Associations between eating behaviors according to Canada's Food Guide, diet quality score and cardiometabolic risk markers: insights from the PREDISE study<br>**Didier Brassard** | 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 study<br>**Willem van den Brink** | Comparison of several energy intake misreport identification methods on the accuracy of nutrient intake estimations using urinary biomarkers<br>**Vânia Magalhães** |

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| | Designing food databases for Indigenous Populations: lessons learned from South-Western Uganda<br>**Giulia Scarpa** | Measuring micronutrient intake in children: comparison of 24-hour diet records, 24-hour urine, and duplicate diets for estimating potassium, sodium, and iodine<br>**Rachael McLean** | Stability of dietary patterns in cross-sectional and longitudinal samples of Brazilian schoolchildren between 2013 and 2015: a latent profile analysis<br>**Maria Alice Assis** |
| | VALIDA project: Validating the use of photos for food portion quantification<br>**Sandra Crispim** | Can skin colour spectrophotometry be used as an objective biomarker for fruit and vegetable intake in Kenyan adults?<br>**Karin Borgonjen - van den Berg** | Predicting mortality in the National Health and Nutrition Examination Survey using a lasso-weighted and 6-component Healthy Eating Index-2015<br>**Haley Parker** |
| | 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<br>**Joanne Arsenault** | The carbon isotope ratio of serum alanine predicts added sugar intake in a controlled feeding study of US postmenopausal women<br>**Diane O'Brien** | Substitution analyses of diet-related greenhouse gas emissions: How to reduce emissions by switching to plant-based meals for lunch<br>**Katarine Bälter** |
| 18:00 | Buses depart | | |
| 18:30 - 22:00 | **Conference dinner** | | |

**Day 3: Wednesday 20 May 2020**

| **ROOMS** | **THEATRE** | **CERISE** | **KERNHEM** |
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| 8:30 - 10:00 | S19. Symposium: C*losing the gap with digital dietary assessment*<br>**Chair: Alison Eldridge** | S20. Symposium: *Measures of dietary patterns and food environments for diverse populations and settings*<br>**Chair: Sharon Kirkpatrick** | S21. Symposium: *Understanding and adjusting for the impact of Berkson error arising from prediction equations in nutritional and physical activity epidemiology*<br>**Chair: Pamela Shaw** |
| | Current reality and gaps in digital dietary assessment tools<br>**Anne-Kathrin Illner** | Introduction<br>**Sharon Kirkpatrick** | Estimating the distribution of usual nutrient intake using predicted values from a calibration equation in a complex survey design<br>**Daniela Sotres-Alvarez** |

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| Closing the gap on 24-h recalls<br>**Sai Krupa Das** | Development and adaptation of dietary assessment tools and technologies for use in low-income contexts<br>**Gary Frost** | Methods of analysis when an outcome variable is a prediction with Berkson error<br>**Laurence Freedman** |
| Closing the gap on individualised feedback<br>**Eileen Gibney** | Validity of a novel food-based index for measuring diet quality in low- and middle-income countries<br>**Sabri Bromage** | Berkson error with outcome model misspecification: Bias when using predicted values in place of observed covariates<br>**Gregory Haber** |
| The future of digital dietary assessment<br>**Damian Mehers** | Application and refinement of the Prime Diet Quality Score for different contexts<br>**Selma Gicevic** | Discussion<br>**Grace Yi** |
| | A comprehensive approach for adapting and evaluating a home food inventory to meet the cultural needs of diverse populations<br>**Jayne Fulkerson** | |
| | Adapting a home food inventory for an urban Minnesota Somali and Latina population<br>**Mary Hearst** | |
| | Discussion<br>**Leslie Lytle** | |

10:10 - 11:00 **Plenary** **THEATRE**
*Measuring physical activity and sedentary behavior in large underserved populations*
**Dr. Job Godino, UC San Diego**

11:00 - 11:30 **Networking break** **NEW YORK FOYER**

| ROOMS | THEATRE | CERISE | KERNHEM |
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| 11:30 - 13:00 | S22. Oral presentations: *Development of methods*<br>**Chair: Jeanne de Vries** | S23. Oral presentations: *Contextual factors*<br>**Chair: Rick Troiano** | S24. Oral presentations: *Databases*<br>**Chair: Elske Brouwer** |
| | Nutritools: an interactive guided website including validated dietary assessment tools and a food questionnaire creator<br>**Janet Cade** | Development of a Dutch Diet History Questionnaire to assess the dietary intake of low SES pregnant women<br>**Yvette Beulen** | Rationalisation of the UK Nutrient Databank to enable the UK National Diet and Nutrition Survey to move to a web-based 24hr recall (Intake24)<br>**Birdem Amoutzopoulos** |
| | Development of the Dutch food consumption application DitEetIk!<br>**Ceciel Dinnissen** | Ranking barriers to healthy eating in young adults: application of a discrete choice experiment<br>**Katherine Livingstone** | Obtaining nutrient contents for commercial food items - comparison of two approaches<br>**Johanna Conrad** |
| | Environmental sustainability of diet – feasibility of linkage to automated online dietary assessment tools<br>**Holly Rippin** | The impact of sugar-sweetened beverages consumption on healthy food markers: National Dietary Survey 2008-2009<br>**Maria Eliza de Mattos Tobler Mastrangelo** | Nova food classification: how specific do survey data need to be?<br>**Vanessa Cardozo Mendes** |
| | Comparison of large-scale grocery purchases and individual-level food consumption: Results from the LoCard-study<br>**Henna Vepsäläinen** | The relationship between adults' dietary intakes and food insecurity status in Canada: implications for future population assessment<br>**Joy Hutchinson** | FAO/WHO Global Individual Food consumption data Tool (FAO/WHO GIFT): increasing the availability, harmonization and use of individual quantitative food consumption data worldwide<br>**Rita Ferreira de Sousa** |
| | Validation of dietary supplement use reported by food frequency questionnaire with repeated 24-hour recall data in the Cancer Prevention Study-3 Diet Assessment Sub-study<br>**Terry Hartman** | Restricting promotions of unhealthy foods and beverages by price and location: applying UK Nutrient Profiling Models to a retail product dataset.<br>**Victoria Jenneson** | EU Menu project harmonised food consumption data collection and challenges to face<br>**Sofia Ioannidou** |

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| | Examining the effect of voluntary fortification on usual nutrient intakes in the Canadian population<br>**Valerie Tarasuk** | Investigating eating architecture: how precise does time of eating have to be?<br>**Laura Johnson** | Methodology for estimating the intake of free sugars: a food disaggregation approach in the context of the Finnish food composition database<br>**Niina Kaartinen** |
| 13:00 - 14:00 | **Lunch** | | |
| 14:00 - 15:30 | **Plenary & ICDAM 2020 Closing** **THEATRE**<br>*Facilitated discussion: A global 2020 vision for diet and activity methods* | | |