

## Draft program eICDAM2021

Monday February 8	Program	
15.50 - 16.00	Access conference	
16.00 - 16.10	Opening ceremony (live + video)	
16.10 - 16.40	<i>The 24-hour revolution in activity assessment.</i> <b>Dr. Tim Olds, University of South Australia</b>	
16.40 - 16.55	Questions and answers (live)	
17.00 - 18.30	<b>S1. Symposium</b> <i>Methodological issues related to measurement error in assessing diet and physical activity.</i> <b>Chair: Sharon Kirkpatrick</b> Integrate dietary assessments with biomarker measurements in aetiological models <b>Pietro Ferrari</b> Categorizing variables measured with error <b>Hendriek Boshuizen</b> New insights into the effects of time-varying error-prone exposure in the analysis of longitudinal studies of physical activity <b>Victor Kipnis</b>	<b>S2. Symposium</b> <i>Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES.</i> <b>Chair: Soran Brage</b> Introduction Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES <b>Stephanie George</b> Free data! NIH-sponsored physical activity measures: MoTrPAC and NHANES. <b>Rick Troiano</b> Panel discussion <b>Stephanie George &amp; Rick Troiano</b>
18.30 - 19.00	<i>Choice: Workout video, networking, poster session, Sponsors, tour Campus</i>	
19.00 - 20.30	<b>S3. Oral presentations:</b> <i>Comparison and validation research</i> <b>Chair:</b> 1. Validation of the Web-Based Self-Administered 24-hour Dietary Recall myfood24-Germany: comparison with a weighed dietary record and biomarkers. <b>Stefanie Koch</b> 2. Relative validity of a food frequency questionnaire for assessing dietary patterns and food group intake in older New Zealand adults: The REACH study <b>K. Beck</b>	<b>S4. Oral presentations:</b> <i>Usual intake analysis</i> <b>Chair:</b> 1. Within-person variation in nutrient intakes across populations and settings: implications for the use of external estimates in modeling usual nutrient intake distributions <b>Caitlin French</b> 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 <b>Fumiaki Imamura</b>

	<p><b>3.</b> Evaluation of the New Zealand Women's Food Frequency Questionnaire to assess nutrient intakes in women: the PROMISE Study <b>Rozanne Kruger</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p><b>4.</b> 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 <b>-Marjorie L. McCullough</b></p> <p><b>5.</b> Accuracy of Tablet vs. Paper Based 24-Hour Individual Dietary Recall Compared to Weighed Food Records in Burkina Faso and Viet Nam <b>Winnie Bell</b></p> <p><b>6.</b> The dynamic food metabolome: implications for dietary assessment and nutrition research <b>Gunter G Kuhnle</b></p>	<p><b>QUESTIONS AND ANSWERS</b></p> <p><b>3.</b> A new statistical method for estimating usual intakes of nearly-daily consumed foods and nutrients using only one 24-h dietary recall <b>Hanqi Luo</b></p> <p><b>4.</b> 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 <b>Keren Papier</b></p> <p><b>5.</b> Correcting the effects of salt and alcohol intake on blood pressure using simulation extrapolation for 24-hour dietary recall data <b>Timm Intemann</b></p> <p><b>6.</b> Combination of assessment methods for intake of fatty fish and fruit/vegetables and validation against objective biomarkers. <b>Sophie Hellstrand</b></p>
<b>Tuesday February 9</b>		
12.50 – 13.00	Access conference	
13.00 – 14.30	<p><b>S5. Symposium</b> <i>Assessing contextual factors to assist understanding of eating and activity behaviours</i> <b>Chair: Rebecca Leech</b> Introduction <b>Rebecca Leech</b> Assessing contextual factors to assist understanding of eating and activity behaviours <b>Laura Johnson</b> Understanding situational factors associated with sugar-sweetened beverage intake in young adults using real-time assessment of eating occasions <b>Rebecca Leech</b> Seeing is believing – using</p>	<p><b>S6. Symposium</b> <i>Innovative advances in dietary patterns that can help inform population guidelines</i> <b>Chair: Jill Reedy</b> Introduction <b>Jill Reedy</b> Innovative advances in dietary patterns that can help inform population guidelines <b>Angela Liese</b> Temporal Dietary Patterns Identified by a Two-stage Hierarchical Clustering Method <b>Yikyung Park</b> Reproducibility of diet-disease associations for exploratory dietary patterns <b>Matthias Schulze</b></p>

	wearable cameras to capture diet and activity behaviours in people living with heart failure <b>Ralph Maddison</b> Panel discussion <b>Carol Boushey</b>	Panel discussion <b>Sarah Mc Naughton &amp; Sharon Kirkpatrick</b>
14.30 – 15.30	<i>Networking, posters, sponsors, workout</i>	
15.30 – 16.00	Wija's Will: reflections and perspectives by Wija van Staveren  <b>Prof. Lisette de Groot, Prof. Edith Feskens, Wageningen university &amp; Research center</b>	
16.00 – 16.15	Questions and answers (live)	
16.15 – 17.00	<i>Networking, posters, sponsors, workout</i>	
17.00 – 18.30	<p>S7. Oral presentations: <i>Combining methods</i></p> <p>1. Activity tracking smartphone apps: characterising temporal patterns in app usage and physical activity behaviour <b>Francesca Pontin</b></p> <p>2. Evaluation of a photographic food record to assess evening meal intake of 18-month-old children in the Baby's First Bites Study <b>Janneke Schultink</b></p> <p>3. Development of quality index to classify meal healthiness through photos: first step for app of meal assessment using Machine Learning <b>D. Marchioni</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. 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 <b>Ulrika Ericson</b></p> <p>5. Associations between estimated dietary pesticide residue exposure and mortality in a population-based prospective cohort of</p>	<p>S8. Oral presentations: <i>Technological advances</i></p> <p>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 <b>Sharon Kirkpatrick</b></p> <p>2. Recent and upcoming enhancements to the Automated Self-Administered 24-hour Dietary Assessment Tool (ASA24) <b>Kirstin Herrick</b></p> <p>3. A comparison of food portion size estimation methods: 3D food models vs an online tool using food portion photos (Intake24) <b>Jennifer Bradley</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Relative validity of The Eetmeter - a food diary app to provide healthy diet advice <b>Marga Ocke</b></p> <p>5. Selection of an automated dietary assessment tool for use in the UK National Diet and Nutrition Survey (NDNS) Rolling Programme (RP) <b>Toni Steer</b></p> <p>6. The FoodTrack study: A</p>

	men and women <b>Agneta Åkesson</b> 6. Potential calcium biomarkers - a systematic review and meta-analysis <b>Suvi Itkonen</b>	combined GPS and ecological momentary smartphone assessment study to track individuals' food environment exposure, food purchases, and food consumption <b>Maartje Poelman</b>
18.30 – 19.00	<i>Networking, posters, sponsors, workout</i>	
19.00 – 20.30	<b>S9. Symposium</b> <i>Understanding and adjusting for the impact of Berkson error arising from prediction equations in nutritional and physical activity epidemiology</i> <b>Chair: Pamela Shaw</b> Estimating the distribution of usual nutrient intake using predicted values from a calibration equation in a complex survey design <b>Daniela Sotres-Alvarez</b> Methods of analysis when an outcome variable is a prediction with Berkson error <b>Laurence Freedman</b> Berkson error with outcome model misspecification: Bias when using predicted values in place of observed covariates <b>Gregory Haber</b> Discussion <b>Grace Yi</b>	<b>S10. Symposium</b> <i>Conducting dietary surveys in Low-and Middle-Income Countries: Challenges, experiences and ways for improvement.</i> <b>Chair: Edwige Landais</b> Introduction <b>Edwige Landais</b> INDDX24: A new global dietary assessment platform to scale up the availability, access, and use of dietary data <b>Jennifer Coates</b> Technical assistance for dietary surveys in low- and middle-income countries: Intake – Center for Dietary Assessment <b>Megan Deitchler</b> Towards FAIR food and nutritional data <b>Carl Lachat</b> Panel discussion <b>Panel</b>
<b>Wednesday February 10</b>		
12.50 – 13.00	Access conference	
13.00 – 14.30	<b>S11. Oral presentations:</b> <i>Diet quality and patterns</i> 1. A systematic review of dietary pattern assessment methods <b>Sarah McNaughton</b> 2. Identifying dietary patterns using novel supermarket transaction data <b>Michelle Morris</b> 3. Socioeconomic inequities in diet quality among Canadian adults: A nationally	<b>S12. Oral presentations:</b> <i>Machine learning</i> 1. Development of a machine-readable knowledge base for nutritional and dietary assessment data <b>Chen Yang</b> 2. Development of Machine Learning Prediction Models to Explore Nutrients Predictive of Cardiovascular Disease Using Canadian Linked Population-Based Data

	<p>representative analysis of change between 2004 and 2015</p> <p><b>Dana Olstad</b> <b>QUESTIONS AND ANSWERS</b></p> <p><b>4.</b> Secular trends in diet-related greenhouse gas emission estimates in Sweden since 2000 – evidence of a shift towards more sustainable food patterns</p> <p><b>Lauren Lissner</b> <b>5.</b> Multidimensional characterization of alcohol consumption in the Framingham Offspring Study (FOS) – Longitudinal trends 1971-2014 and association with diet quality</p> <p><b>Niyati Parekh</b> <b>6.</b> The development of a short food frequency questionnaire to assess diet quality in UK adolescents</p> <p><b>Sarah Shaw</b></p>	<p><b>Jason Morgenstern</b> 3. Addressing Truncation in Diet Quality Index Scoring</p> <p><b>G. Ricart</b> <b>QUESTIONS AND ANSWERS</b></p> <p><b>4</b> Eating Behaviour Assessed Using Upper Limb Mounted Motion Sensors: A Systematic Review</p> <p><b>Megan Rollo</b> 5. Feasibility and validity of the Consumer Price Index to measure diet costs in Canada.</p> <p><b>Gabriella Luongo</b> 6. Joint Temporal Dietary and Physical Activity Patterns Associate with Health Status Indicators</p> <p><b>Heather Eicher-Miller</b></p>
14.30 – 15.30	<i>Networking, posters, sponsors, workout</i>	
15.30 – 16.00	<p>Scaling up dietary assessment globally challenges, inroads, and future opportunities</p> <p><b>Dr. Jennifer Coates, Tufts University</b></p>	
16.00 – 16.15	Questions and answers (live)	
16.15 - 17.00	<i>Workout video</i>	
17.00 – 18.30	<p><b>S13. Symposium</b> <i>Novel approaches to assessing dietary quality in the food system: combining methods to enhance measurement for dietary surveillance and interventions</i></p> <p><b>Chairs: Niyati Parekh &amp; Maya Vadiveloo</b> Introduction</p> <p><b>Niyati Parekh</b> Evaluating the effect of targeted food incentives on grocery purchases: The Smart Cart Study protocol for a randomized controlled cross-over trial</p>	<p><b>S14. Symposium</b> <i>Measures of dietary patterns and food environments for diverse populations and settings.</i></p> <p><b>Chair: Sharon Kirkpatrick</b> Introduction</p> <p><b>Sharon Kirkpatrick</b> Validity of a novel food-based index for measuring diet quality in low- and middle-income countries</p> <p><b>Sabri Bromage</b> Application and refinement of the Prime Diet Quality Score for different contexts</p> <p><b>Selma Gicevic</b></p>

	<p><b>Maya Vadiveloo</b> Application of the NOVA framework to enhance assessment of diet quality in US nationally representative surveys of dietary intake and grocery purchase</p> <p><b>Filippa Juul</b> Assessing Validity of Self-Reported Dietary Intake within a Mediterranean Diet Clinical Trial Intervention</p> <p><b>Mercedes Sotos-Pietro</b> Discussion</p> <p><b>Niyati Parekh</b></p>	<p>A comprehensive approach for adapting and evaluating a Home Food Inventory to meet the cultural needs of diverse populations</p> <p><b>Jayne Fulkerson</b> Adapting a home food inventory for an urban Minnesota Somali and Latina population</p> <p><b>Mary Hearst</b> Discussion</p> <p><b>Leslie Lytle</b></p>
18.30 – 19.00	<i>Networking, posters, sponsors, workout</i>	
19.00 – 20.30	<p>S15. Oral presentation: <i>Methods on diet quality</i></p> <p>1. Dietary diversity indicators and their associations with nutritional adequacy of the diet and health outcomes – a systematic review</p> <p><b>Eric Verger</b></p> <p>2. The Healthy and Sustainable Diet Index: a novel theoretically derived index, applied and evaluated using images collected with the mobile food record</p> <p><b>Amelia Harray</b></p> <p>3. Associations between eating behaviors according to Canada’s Food Guide, diet quality score and cardiometabolic risk markers: insights from the PREDISE study</p> <p><b>Didier Brassard</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Designing food databases for Indigenous Populations: lessons learned from South-Western Uganda.</p> <p><b>Giulia Scarpa</b></p> <p>5. VALIDA project: Validating the use of photos for food portion quantification</p> <p><b>Sandra Crispim</b></p> <p>6. Validation of 24-h dietary recall for estimating nutrient</p>	<p>S16. Oral presentation: <i>Biomarkers</i></p> <p>1. Twenty-four hour urinary sucrose and fructose is a good measure of total sugars but not added sugars intake in US participants</p> <p><b>Natasha Tasevska</b></p> <p>2. Validity coefficient of urinary marker of sugar intake is comparable to urinary nitrogen as marker of protein intake in free-living individuals</p> <p><b>Taymara Abreu</b></p> <p>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 study</p> <p><b>Willem van den Brink</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Measuring micronutrient intake in children: comparison of 24-hour diet records, 24-hour urine, and duplicate diets for estimating potassium, sodium, and iodine</p> <p><b>Rachael McLean</b></p> <p>5. Can skin colour spectrophotometry be used</p>

	<p>intakes and adequacy in adolescents 10-11 and 12-14 y of age in Burkina Faso  <b>Joanne Arsenault</b></p>	<p>as an objective biomarker for fruit and vegetable intake in Kenyan adults?  <b>Karin Borgonjen - van den Berg</b>          6. The carbon isotope ratio of serum alanine predicts added sugar intake in a controlled feeding study of US postmenopausal women  <b>Diane O'Brien</b></p>
<b>Thursday February 11</b>		
12.50 – 13.00	Access conference	
13.00 – 14.30	<p><b>S17: Symposium</b>  <i>Closing the Gap with Digital Dietary Assessment</i>  <b>Chair: Alison Eldridge</b>          Current reality and gaps in digital dietary assessment tools  <b>Anne-Kathrin Illner</b>          Closing the gap on 24-h recalls  <b>Sai Krupa Das</b>          Closing the gap on individualised feedback  <b>Eileen Gibney</b>          The future of digital dietary assessment  <b>Damian Mehers</b></p>	<p><b>S18 Symposium</b>  <i>Biomarkers for food and beverage intake – results from the FoodBall project</i>  <b>Chair: Edith Feskens</b>          Introduction Foodball project  <b>Edith Feskens</b>          Finding and Validating Biomarkers of Food and Beverage Intake by Metabolomics  <b>Lars Dragsted</b>          Biomarkers for Cola beverage consumption identified by untargeted GC-MS-based metabolomics approaches  <b>Carina Mack</b>          Non-targeted and targeted metabolomics to identify and validate biomarkers of fermented dairy intake  <b>Katherine Li</b>          Metabolomics-based dietary biomarkers in nutritional epidemiology - current status and future opportunities  <b>Lorraine Brennan</b></p>
14.30 – 15.30	<i>Networking, posters, sponsors, workout</i>	
15.30 – 16.00	Measuring physical activity and sedentary behavior in large underserved populations  <b>(needs to be confirmed)</b>	
16.00 – 16.15	Questions and answers (live)	
16.15 – 17.00	<i>Networking, posters, sponsors, workout</i>	
17.00 – 18.30	<p>S19 Oral presentation:  <i>Statistical methods</i></p>	<p>S20. Oral presentations:  <i>Development of methods</i></p>

	<p>1.What do Australian adults eat for snacks? A latent variable mixture modelling approach <b>Rebecca Leech</b></p> <p>2.Are predictive equations for estimating total energy intake reliable in older adults? <b>Lais Duarte Batista</b></p> <p>3.Comparison of several energy intake misreport identification methods on the accuracy of nutrient intake estimations using urinary biomarkers <b>Vânia Magalhães</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Improving the Health Eating Index: Application of two novel methods to empirically reweight a composite diet score. <b>Eli Kravitz</b></p> <p>5.Predicting mortality in the National Health and Nutrition Examination Survey using a lasso-weighted and 6-component Healthy Eating Index-2015 <b>Haley Parker</b></p> <p>6.Substitution analyses of diet-related greenhouse gas emissions: How to reduce emissions by switching to plant-based meals for lunch <b>Katarina Bälter</b></p>	<p>1.Nutritools: an interactive guided website including validated dietary assessment tools and a food questionnaire creator <b>Janet Cade</b></p> <p>2.Development of the Dutch food consumption application DitEetIk! <b>Ceciel Dinnissen</b></p> <p>3. Environmental sustainability of diet – feasibility of linkage to automated online dietary assessment tools <b>Holly Rippin</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Comparison of large-scale grocery purchases and individual-level food consumption: results from the LoCard-study <b>Henna Vepsäläinen</b></p> <p>5. The Development of a Total Nutrient Index Using Nationally Representative Data from Adults in the United States. <b>Alexandra Cowan</b></p> <p>6. The relationship between adults’ dietary intakes and food insecurity status in Canada: implications for future population assessment <b>J. Hutchinson</b></p>
18.30 – 19.00	<i>Networking, posters, sponsors, workout</i>	
19.00 – 20.30	<p><b>S21. Symposium</b> <i>Statistical considerations for the use of biomarkers to assess dietary intake.</i> <b>Chair: Lorraine Brennan</b> Calibration of Amino Acid Stable Carbon Isotope Ratios As Biomarkers of Human Diet <b>Pamela Shaw</b> Estimating habitual salt intake distribution from 24-h urinary sodium excretion and the potential of the use of</p>	<p><b>S22.Symposium</b>  <b>To be determined</b></p>

	<p>external within-person variance</p> <p><b>Janneke Verkaik-Kloosterman</b></p> <p>Prediction equations for blood concentration markers for carotenoids, tocopherols, retinol, vitamin B12 and folate in the HCHS/SOL Nutrition and Physical Activity Assessment Study</p> <p><b>Lillian Boe</b></p> <p>Spot urine biomarkers and 24-hour dietary recalls: validation and measurement error correction</p> <p><b>Iris Pigeot</b></p>	
<b>Friday February 12</b>		
12.50 – 13.00	Access conference	
13.00 – 14.30	<p>S23. Oral presentations:</p> <p><i>Contextual factors</i></p> <p>1. Development of a Dutch Diet History Questionnaire to assess the dietary intake of low SES pregnant women</p> <p><b>Yvette Beulen</b></p> <p>2. Ranking barriers to healthy eating in young adults: application of a discrete choice experiment</p> <p><b>Katherine Livingstone</b></p> <p>3. The impact of sugar-sweetened beverages consumption on healthy food markers: National Dietary Survey 2008-2009</p> <p><b>Maria Eliza de Mattos or Tobler Mastrangelo</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p>4. Examining the effect of voluntary fortification on usual nutrient intakes in the Canadian population</p> <p><b>Valerie Tarasuk</b></p> <p>5. Restricting promotions of unhealthy foods and beverages by price and location: applying UK Nutrient Profiling Models to a retail product dataset.</p> <p><b>Victoria Jennesson</b></p>	<p>S24. Oral presentations:</p> <p><i>databases</i></p> <p>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)</p> <p><b>Birdem Amoutzopoulos</b></p> <p>2. Enhancing qualitative assessment of complex food behaviors through free-listing informed mind-mapping: development and feasibility analysis</p> <p><b>Shahmir H. Ali</b></p> <p>3. Nova food classification: how specific does survey data need to be collected?</p> <p><b>Vanessa Cardozo Mendes Elias</b></p> <p><b>QUESTIONS AND ANSWERS</b></p> <p><b>4.</b> FAO/WHO Global Individual Food consumption data Tool (FAO/WHO GIFT): increasing the availability, harmonization and use of individual quantitative food consumption data worldwide</p> <p><b>Rita Ferreira de Sousa or Victoria de Quadros</b></p> <p>5. EU Menu project</p>

	<p>6. Investigating eating architecture: how precise does time of eating have to be?  <b>Laura Johnson</b></p>	<p>harmonised food consumption data collection and challenges to face  <b>Sofia Ioannidou</b>  6. Methodology for estimating the intake of free sugars: a food disaggregation approach in the context of the Finnish food composition database  <b>Niina Kaartinen</b></p>
14.30 – 15.00	<i>Networking, posters, sponsors, workout</i>	
15.00 – 15.30	Poster prize	
15.30 – 16.30	Discussion and setting research agenda (live)	
16.30 – 17.00	Closing (presentation new conference, video and live)	