

2023 National Committee for Nutrition Boden Research Conference

Advancing the science of precision and personalised nutrition

19 - 20 October 2023 | Shine Dome, Canberra and Online

Thursday 19th October (In person)

8:30 AM	Registrations Open <i>Coffee, Jaeger Room</i>	
9:00 AM	Official Opening and Acknowledgment of Country Dr Katherine Livingstone, Boden Conference Chair Professor Malcolm Sambridge, Australian Academy of Science Fellow <i>Ian Wark Theatre</i>	
9:20 AM	Implementation planning - Precision and Personalised Nutrition Pillar Professor Helen Truby, National Committee for Nutrition <i>Ian Wark Theatre</i>	
9:45 AM	Morning Tea <i>Jaeger Room</i>	
10:15 AM	Workshop 1a: Precision Nutrition Mechanisms Facilitator: Dr Aimee Dordevic, National Committee for Nutrition <i>Dorothy Hill Room</i>	Workshop 2a: Personalised Nutrition Behaviour Change Facilitator: Dr Katherine Livingstone, National Committee for Nutrition <i>Becker Room</i>
11:30 PM	Lunch <i>Jaeger Room</i>	
12:30 PM	Workshop 1b: Precision Nutrition Mechanisms <i>Dorothy Hill Room</i>	Workshop 2b: Personalised Nutrition Behaviour Change <i>Becker Room</i>
2:00 PM	Afternoon Tea <i>Jaeger Room</i>	
2:30 PM	Workshop combined 1 and 2 Dr Aimee Dordevic and Dr Katherine Livingstone, National Committee for Nutrition <i>Ian Wark Theatre</i>	
3:30 PM	Wrap up the day Professor Helen Truby, National Committee for Nutrition Chair <i>Ian Wark Theatre</i>	

A decadal plan for the science of nutrition
Realising health, environmental and economic opportunities to benefit all Australians

Friday 20th October (Hybrid)

11:30 AM	Registrations Open <i>Coffee, Jaeger Room</i>
12:00 PM	Official Opening and Acknowledgment of Country Dr Katherine Livingstone, Boden Conference Chair Professor Malcolm Sambridge, Australian Academy of Science Fellow <i>Ian Wark Theatre</i>
12:20 PM	Overview of Precision and Personalised Nutrition Implementation Planning Professor Helen Truby, Dr Katherine Livingstone, Dr Aimee Dordevic, Dr Catherine Bondonno, National Committee for Nutrition <i>Ian Wark Theatre</i>
12:45 PM	Plenary Session 1: Equitable and Strengths-based Dietary Approaches Associate Professor Annabelle Wilson , Flinders University Chair: Dr Emma Beckett, National Committee for Nutrition <i>Ian Wark Theatre</i>
1:15 PM	Short Oral Presentations 1 Chair: Dr Catherine Bondonno, National Committee for Nutrition <i>Ian Wark Theatre</i>
2:00 PM	Afternoon tea <i>Jaeger Room</i>
2:20 PM	Short Oral Presentations 2 Chair: Dr Catherine Bondonno, National Committee for Nutrition <i>Ian Wark Theatre</i>
3:15 PM	Plenary Session 2: Psychology for Targeting Behaviour Change Professor Barbara Mullan , Curtin University Chair: Dr Daniel Hwang, National Committee for Nutrition <i>Ian Wark Theatre</i>
3:45 PM	Plenary Session 3 (Virtual): Precision Nutrition Dr Sarah Berry , King's College London Chair: Dr Daniel Hwang, National Committee for Nutrition <i>Ian Wark Theatre</i>
4:15 PM	Panel Discussion Associate Professor Annabelle Wilson, Professor Barbara Mullan, Dr Sarah Berry Chair: Dr Emma Beckett, National Committee for Nutrition <i>Ian Wark Theatre</i>
5:00 PM	Wrap up and Meeting Close Professor Margaret Allman-Farinelli, National Committee for Nutrition <i>Ian Wark Theatre</i>

Workshops

10:15 AM Workshop 1a: Precision Nutrition Mechanisms

Facilitator: Dr Aimee Dordevic,
National Committee for Nutrition
Dorothy Hill Room

Workshop 2a: Personalised Nutrition Behaviour Change

Facilitator: Dr Katherine Livingstone,
National Committee for Nutrition
Becker Room

Logic model development – STEP 1

Long term outcomes
Intermediate impacts
Short-term impacts

11:30 PM Lunch

Jaeger Room

12:30 PM Workshop 1b: Precision Nutrition Mechanisms

Dorothy Hill Room

Workshop 2b: Personalised Nutrition Behaviour Change

Becker Room

Logic model development – STEP 2

Outputs
Activities
Inputs

2:00 PM Afternoon Tea

Jaeger Room

2:30 PM Workshop combined 1 and 2

Dr Aimee Dordevic and Dr Katherine Livingstone, National Committee for Nutrition
Ian Wark Theatre

Combine STEP 1 and STEP 2

Next steps

Speaker Biographies

Plenary 1: Equitable and strengths-based dietary approaches

Associate Professor Annabelle Wilson | Flinders University



Annabelle Wilson is an Associate Professor and Advanced Accredited Practising Dietitian in the discipline of population health at Flinders University. She has a variety of areas of research expertise, including Aboriginal and Torres Strait Islander health research, strengths-based approaches to working with Aboriginal and Torres Strait Islander communities, food systems, and health professional practice. Her research looks at ways in which health professionals, especially those who are non-Aboriginal, can work best with Aboriginal and Torres Strait Islander peoples.

Plenary 2: Psychology for targeting behaviour change

Professor Barbara Mullan | Curtin University



Barbara Mullan is a Professor of Health Psychology. Her research is focused on designing innovative theory-based interventions to change behaviour. She graduated in 1998 with a PhD in psychology from the Open University in the UK. Professor Mullan started her academic career in Birmingham University where she also became a Registered Practitioner Psychologist (Health Psychology) with the Health & Care Professions Council. She was then employed by the University of Sydney and moved to Curtin University in November 2013 as a research academic.

Plenary 3: Precision nutrition

Dr Sarah Berry | King's College London – virtual



Sarah Berry is a Reader in Nutritional Sciences at King's College London and Chief Scientist at ZOE Ltd. Her research interests relate to the influence of dietary components on cardiometabolic disease risk, with particular focus on personalised nutrition, postprandial lipid metabolism, and food and fat structure. As the Chief Scientist at ZOE Ltd, she leads the PREDICT program of research, assessing the genetic, metabolic, metagenomic, and meal-dependent effects on metabolic responses to food in >100,000 people. This research is at the forefront of developments in personalised nutrition.

Short Oral Presentations 1

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- 1:15 PM** **The search for genes behind anorexia and other eating disorders**
Nick Martin
-
- 1:23 PM** **Psychological predictors of symptom and quality of life response to the low FODMAP diet: A 6-month longitudinal study in adults with irritable bowel syndrome**
Lauren P Manning, Caroline J Tuck, Maaïke Van den Houte, Lukas Van Oudenhove, Jessica R Biesiekierski*
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- 1:31 PM** **Divergent effects of high-calorie high-fat feeding on large artery and muscle capillary blood flow in healthy humans**
Barbara Brayner*, Michelle A Keske, Katherine M Livingstone, Gunveen Kaur
-
- 1:39 PM** **Phenome-wide association analysis of supertaster gene TAS2R38 reveals novel relationship with bipolar disorder and kidney function**
Caroline Brito Nunes*, Amanda Wei-Yin Lim, Quimbe Dy, Jue-Sheng Ong, Liang-Dar Hwang
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- 1:47 PM** **A three-arm randomised controlled trial of a personalised intervention targeting improvement in addictive eating for Australian adults (the TRACE program)**
Janelle Skinner, Mark Leary*, Kirrilly Pursey, Antonio Verdejo-García, Megan C Whatnall, Lisa Wood, Susan Paxton, Phillipa Hay, Leanne Hides, Clare Collins, Amanda L Baker, Tracy Burrows
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Short Oral Presentations 2

-
- 2:20 PM** **Feasibility of personalized telehealth medical nutrition therapy for adults screened at moderate to high risk of cardiovascular disease in rural NSW: The HealthyRHearts randomized controlled trial**
Jaimee Herbert, Tracy L Schumacher, Leanne Brown, Erin D Clarke*, Clare E Collins
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- 2:28 PM** **Selenotranscriptome network in Alzheimer's disease**
Barbara R Cardoso*, Kaitlin Day
-
- 2:36 PM** **Temporal Patterns of Taste Sensitivity**
Andrew Costanzo
-
- 2:44 PM** **Genomic analyses on composite diet preference phenotypes reveal distinct patterns of consumption between food liking and frequency of consumption among middle-aged adults**
Jue-Sheng Ong*, Weixiong He, Xikun Han, Stuart MacGregor, Liang-Dar Hwang
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- 2:54 PM** **Reduction in systolic blood pressure following dietary fibre intervention is dependent on baseline gut microbiota composition**
Matthew Snelson*, Hamdi A Jama, Dakota Rhys-Jones, Michael Nakai, Geoffrey A Head, David M Kaye, Charles R Mackay, Jane Muir, Francine Z Marques
-
- 3:02 PM** **Review and synthesis of the dietary assessment and metabolomic methodologies in feeding studies: A scoping review**
Erin D Clarke, Jessica JA Ferguson, Jordan Stanford*, Clare E Collins
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Virtual pre-conference workshop

10 October 2023 | 11:00 AM – 12:30 PM

Virtual



Laureate Professor Clare Collins AO Guest Speaker

Professor Collins is an Accredited Practising Dietitian, NHMRC Leadership Research Fellow and Director of the Hunter Medical Research Institute Research Program in Food and Nutrition. Her research focuses on personalised nutrition technologies and programs evaluating impact on diet-related health in chronic disease and across life stages. She has been awarded \$30 million in grant funding, published 450 research papers and supervised 35 PhD candidates to completion.



Dr Katherine Livingstone Facilitator

Dr Livingstone is a Registered Nutritionist, NHMRC Emerging Leadership Fellow and Domain Coordinator for the Food Nutrition and Health domain at the Institute for Physical Activity and Nutrition, Deakin University. Her research aims to improve dietary patterns and cardiometabolic health using personalised nutrition approaches. She has been awarded >\$2 million in research funding, published 112 research papers and supervised 7 PhD students to completion. She is Precision and Personalised Nutrition Implementation lead on of the National Committee for Nutrition.

Boden Research Conference Organising Committee

Chair: Dr Katherine Livingstone | Deakin University

Members:

- Professor Helen Truby | University of Queensland
- Dr Aimee Dordevic | Monash University
- Dr Catherine Bondonno | Edith Cowan University
- Dr Daniel Hwang | University of Queensland
- Professor Margaret Allman-Farinelli | University of Sydney
- Penny Brew | Australian Academy of Science

National Committee for Nutrition

- **Chair: Professor Helen Truby**
 - The University of Queensland, Professor and Chair in Human Nutrition
 - Research expertise: Dietetics, nutrition
- **Ex-officio: Mr Marco Xuereb**
 - Dietitians Association of Australia, CEO
- **Ex-officio: Dr Welma Stonehouse**
 - Nutrition Society of Australia, President
 - CSIRO, Principal Research Scientist and Research Group Leader, Health and Biosecurity
 - Research expertise: Development and scientific evaluation of nutrition interventions
- **Ex-officio: Associate Professor Therese O'Sullivan**
 - Council of Deans of Nutrition and Dietetics Australia and New Zealand, Chair
 - Edith Cowan University, Nutrition and Dietetics
 - Research expertise: The Milky Way Study, child-centred research
- **Ex-officio: Dr Tom Wycherley**
 - Oceanic Nutrition Leadership Platform, Advisory Board member
 - Research expertise: Nutrition, dietetics, human movement and sports science
- **EMCR representative: Dr Aimee Dordevic**
 - Monash University, Department of Nutrition Dietetics and Food
 - Research expertise: Nutrigenomics, postprandial metabolism, metabolism
- **Committee member: Dr Katherine Livingstone**
 - Deakin University, NHMRC Emerging Leadership Fellow and Senior Research Fellow, Institute for Physical Activity and Nutrition (IPAN)
 - Research expertise: Dietary patterns, personalised nutrition, cardiovascular disease

- **Committee member: Dr Catherine Bondonno**
 - Edith Cowan University, Research Fellow, Nutrition and Health Innovation Research Institute (NHIRI)
 - Research expertise: Nitric oxide, cardiovascular health, dietary nitrate, polyphenols
- **Committee member: Associate Professor Melinda Coughlan**
 - Monash University, Head of the Glycation, Nutrition and Metabolism Laboratory, Department of Diabetes
 - Research expertise: Diet, nutrition, mitochondria, advanced glycation end products
- **Committee member: Professor Eugeni Roura**
 - University of Queensland, Director of Higher Degree Research, Queensland Alliance for Agriculture and Food Innovation
 - Research expertise: Nutritional chemosensing
- **Committee member: Dr Anneline Padayachee**
 - The Food and Nutrition Doctor, Nutritional Food Science
 - Research expertise: Processing technology, food composition, digestive processes
- **Committee member: Dr Emma Louise Beckett**
 - University of Newcastle, School of Environmental and Life Sciences
 - Research expertise: Immunology, microbiology, reproductive health, food behaviours
- **Committee member: Professor Sarah McNaughton**
 - Deakin University, Faculty of Health Department Nutritional epidemiologist, School of Exercise and Nutrition Sciences
 - Research expertise: Foods, eating patterns, dietary patterns and health and wellbeing
- **Committee member: Dr Daniel Hwang**
 - University of Queensland, Institute for Molecular Bioscience
 - Research expertise: Sensory nutrition and genetic epidemiology
- **Committee member: Professor Margaret Allman-Farinelli**
 - University of Sydney, Faculty of Medicine and Health
 - Research expertise: Dietetics, nutrition science, prevention of chronic disease
- **Committee member: Dr Katherine Kent**
 - Western Sydney University, School of Health Sciences
 - Research expertise: Clinical Trials, dementia, food security
- **Observer: Professor Stephen Simpson**
 - The University of Sydney, Academic Director of the Charles Perkins Centre, and Professor in the School of Life and Environmental Sciences
 - Research expertise: Integrative modelling framework

Further information

Conference venue

The Shine Dome

15 Gordon St, Acton ACT 2601

Canberra

Accommodation options

Peppers Gallery Hotel | www.peppers.com.au | 350 m to conference venue

QT Canberra | www.qthotels.com/canberra | 450 m to conference venue

Social media

Use #PrecisionNutritionBoden23

Twitter: @Science_Academy | LinkedIn: The Australian Academy of Science

LinkedIn: Nourishing Australia – National Committee for Nutrition

Contact details

Dr Katherine Livingstone

k.livingstone@deakin.edu.au