

---

# PHN

## PUBLIC HEALTH NUTRITION

---

Volume 17

---

Number 8

---

August 2014

---

Available online at  
[www.journals.cambridge.org/phn](http://www.journals.cambridge.org/phn)

# Public Health Nutrition

Volume 17, 2014 ISSN: 1368-9800

Twelve issues per year

## Aims and Scope

*Public Health Nutrition* provides an international forum for the publication and dissemination of research and scholarship in the form of peer-reviewed original papers and reviews, and for discussion in the form of editorials, commentaries, and correspondence, with a specific focus on nutrition-related public health.

The scope of *Public Health Nutrition* includes food systems and supplies, patterns of diet, foods and drinks, nutrients, body composition, physical activity, and associated factors, and their effects on disease, health and well-being, and the whole living and physical world. We welcome papers that:

- Address nutritional status **assessment, monitoring, and surveillance**
- Identify and analyse social, cultural, biological, environmental, economic and political **determinants of nutrition-related public health**
- Build intelligence about the development and evaluation of environmental and settings-based **interventions** focused on the availability of foods including interventions in the out of home eating environment.

- Describe, discuss, debate and influence **food and nutrition policy**
- Focus on improving food and nutrition-related public health, particularly in **populations that are most vulnerable and at risk**.
- Discuss and **build capacity** for effective public health nutrition action, including workforce development and educational issues
- Develop and test **innovative and emerging models, methods and approaches** to public health nutrition practice and research.

We prefer papers that are innovative and contribute new knowledge to the literature. Papers should be succinct (ie, usually well under 5,000 words including references). Short communications are welcome. We publish research, scholarship, and discussions that take a population and preventive approach. In addition to original contributions, ideas and suggestions for topics for debate are also welcome. We publish special issues.

*Public Health Nutrition* is available on the Internet at: [journals.cambridge.org/phn](http://journals.cambridge.org/phn)

## International Editorial Board

### Editor-in-Chief

**Research Professor Marilyn Tseng**  
California Polytechnic State University  
San Luis Obispo, USA  
Email: [phn@nutsoc.org.uk](mailto:phn@nutsoc.org.uk)

### Deputy Editors

**Dr Irja Haapala**  
University of Eastern Finland, Finland

**Dr Allison Hodge**  
University of Melbourne, Australia

**Dr Carl Lachat**  
Gent University, Belgium

### Advisory Board

**Professor Barbara Ainsworth**, Arizona State University, USA

**Professor Janet Cade**, University of Leeds, UK

**Professor Emeritus Leif Hambraeus**, Karolinska Institutet, Sweden

**Professor Carlos A Monteiro**, University of São Paulo, Brazil

**Professor Kerin O'Dea**, University of South Australia, Australia

**Professor Heizo Tanaka**, Kanagawa Institute of Technology, Japan

**Professor Hester Vorster**, North-West University, South Africa

### Editorial Board

**Professor Denise Gigante**

**Statistical Editor**  
**Dr Grietje Holtrop**, University of Aberdeen, UK

### First Editors

**Professor Kylie Ball**, Deakin University, Australia

**Dr Maxine Bonham**, Monash University, Australia

**Dr Maree Brinkman**, University of Melbourne, Australia

**Dr Victoria Burley**, University of Leeds, UK

**Associate Professor Marly A. Cardoso**, University of Sao Paulo, Brazil

**Dr Junshi Chen**, Institute of Nutrition and Food Hygiene, China

**Professor Karen Cullen**, Baylor College of Medicine, USA

**Dr Colleen Doak**, VU University, Amsterdam

**Associate Professor Eva-Charlotte Ekström**, Uppsala University, Sweden

**Associate Professor Lia Fernald**, University of California, Berkeley, USA

**Dr Jayne A. Fulkerson**, University of Minnesota

**Dr Oliver Gillie**, Health Research Forum, UK

**Dr. Anouk Geelen**, Wageningen University, The Netherlands

**Professor Ted Greiner**, Hanyang University, Republic of Korea

**Associate Professor Ingibjorg Gunnarsdottir**, University of Iceland, Iceland

**Dr Jennifer L Harris**, Yale University, USA

**Dr Alexis Hure**, University of Newcastle, Australia

**Dr Cécile Knai**, London School of Hygiene & Tropical Medicine, University of London, UK

**Professor Salome H Kruger**, North-West University, Potchefstroom, South Africa

**Dr Pagona Lagiou**, University of Athens Medical School, Greece

**Professor Christel Lamberg-Allardt**, University of Helsinki, Finland

**Associate Professor Mark Lawrence**, Deakin University, Australia

**Associate Professor Geoffrey Marks**, University of Queensland, Australia

**Ms Kaye Mehta**, Flinders University, Australia

**Professor Bent Egberg Mikkelsen**, Aalborg University, Denmark

**Dr Parvin Mirmiran**, Research Institute for Endocrine Sciences, Iran

**Assistant Professor Androniki Naska**, University of Athens Medical School, Greece

**Assistant Professor Aydin Nazmi**, California Polytechnic State University, USA

**Dr Punam Ohri-Vachaspati**, Arizona State University, USA

**Dr Mohammadreza Pakseresht**, University of Alberta, Canada

**Professor Lisa Pawloski**, George Mason University, USA

**Dr Natalie Pearson**, Loughborough University, UK

**Dr Carmen Perez-Rodrigo**, Unidad de Nutrición Comunitaria, Spain

**Dr Kelley Pettee Gabriel**, University of Texas Health Science Center, USA

**Dr David Roberts**, Independent Consultant, Australia

**Associate Professor Eva Roos**, Folkhälsan Research Institute, Finland

**Professor Satoshi Sasaki**, University of Tokyo, Japan

**Professor Jaap Seidell**, VU University, The Netherlands

**Professor Sangita Sharma**, University of Alberta, Canada

**Professor Rosely Sichieri**, State University of Rio de Janeiro, Brazil

**Dr Nelia Steyn**, Human Sciences Research Council, RSA

**Professor Boyd J G Strauss**, Monash University, Australia

**Professor Janice Thompson**, University of Birmingham, UK

**Dr Anne Marie Thow**, University of Sydney, Australia

**Dr Anna Timperio**, Deakin University, Australia

**Dr Katherine Tucker**, Northeastern University, Boston, USA

**Dr Stefanie Vandevijvere**, Scientific Institute of Public Health, Belgium

**Professor Maria Daniel Vaz de Almeida**, Porto University, Portugal

**Dr Eduardo Villamor**, University of Michigan School of Public Health, USA

**Dr Jesus Vioque**, Universidad Miguel Hernandez, Spain

**Dr Wilma E. Waterlander**, University of Auckland, New Zealand

**Assistant Professor Wen You**, Virginia Polytechnic University, USA

**Dr Shannon Zenk**, University of Illinois at Chicago, USA

## The Nutrition Society

The society has as its objective the advancement of the scientific study of nutrition and its application to the maintenance of human and animal health.

Particulars of The Nutrition Society and application forms for membership are available from the Honorary Secretary,

The Nutrition Society, 10 Cambridge Court, 210 Shepherds Bush Road, London W6 7NJ, UK.

Telephone +44 (0)20 7602 0228, Fax +44 (0)20 7602 1756

The Nutrition Society home page is at: <http://www.nutritionssociety.org>