



Annual Report 2017

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Foreword

It is my pleasure to introduce the 17th annual report of the Scientific Advisory Committee on Nutrition (SACN) which covers the work of the committee in 2017.

Following a public consultation, the committee published its report *Update on Folic Acid and Health* in July 2017. The report was a review of evidence published since the committee's previous reports (in 2006 and 2009) and focused on potential adverse effects of folate and folic acid. The report concluded that the evidence considered did not provide a substantial basis for changing SACN's previous recommendation for mandatory folic acid fortification of flour. SACN worked closely with Food Standards Scotland, who had requested that the work be undertaken and who conducted a parallel piece of work on modelling fortification options. This report was the product of hard work over a short time period and on behalf of SACN I would like to thank all those involved.

In July the Committee also published for consultation a review of the evidence on *Feeding in the First Year of Life*. There was an excellent response to the consultation and we aim to publish the final version of this report in 2018. I wish to thank the Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) for working with us on an important element of this work – the timing of the introduction of allergenic foods into the infant diet. As well as working hard on developing this report, the Subgroup on Maternal and Child Nutrition began to scope its next major report on feeding children from 12 to 60 months of age. The work will start in earnest in 2018. On behalf of SACN I would like to thank SMCN members for all their work. In particular, I would like to thank Dr Tony Williams, who stood down as the Chair of SMCN in 2017, for his invaluable expertise and dedication for over 15 years.

SACN published its position statement on *Potassium Based Sodium Replacers: Assessment of the Benefits of Increased Potassium Intakes to Health* in November 2017. SACN worked closely with COT to also produce a position statement on *Potassium Based Sodium Replacers: Assessment of the Health Benefits and Risks of Using Potassium Based Sodium Replacers in Foods in the UK*. I wish to thank COT for working with us on this statement and other deliberations through the year.

The Saturated Fat Working Group is continuing to make good progress in drafting its report on *Saturated Fat and Health* which we are aiming to publish for consultation in 2018. SACN also made good progress with its position statement on *Nutrition, cognitive impairment and dementias* which we also aim to publish in 2018.

This year a joint working group was established with NHS England and Diabetes UK to review evidence on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes. I look forward to seeing this work progress in 2018.

Finally, I would like to thank members of the main committee, its Working groups and subgroup, and the secretariat, for their commitment to the work of SACN in 2017.



Professor Ann Prentice

Chair

About the committee

SACN is a UK wide advisory committee providing advice to Public Health England (PHE) as well as other government agencies and departments. Its remit includes matters concerning nutrient content of individual foods, advice on diet and the nutritional status of people.

Members are appointed as independent scientific experts on the basis of their specific skills and knowledge. There is also a lay member and a member to represent consumers.

SACN is supported in its work by a secretariat provided by Public Health England. The secretariat members have scientific expertise that enables them to provide SACN members with comprehensive background information and briefing papers to inform the decision-making processes of the committee.

SACN's terms of reference are shown at Annex 1.

Openness

SACN is committed to a policy of openness and engagement. Papers for the committee's meetings, agendas and minutes are posted on the [committee website](#), subject to certain exceptions on grounds of commercial or other sensitive information. As part of the policy of openness, all of the committee's three main meetings are held in open session by default.

Membership

Details of membership of the committee, its working groups and subgroup can be found in Annex 2. Biographies of all members are provided in Annex 3.

Remuneration and committee finance

Remuneration and committee finances are shown in Annex 4.

Declaration of interests

Members must declare all their interests at the time of their appointment and must promptly notify the secretariat of any changes. Before, or at the start of every meeting, members are asked to declare any changes to their interests, which are recorded in the minutes. It is the responsibility of each member to indicate if they have an interest in any item of business on the agenda of a meeting of SACN or its subgroup or working groups. SACN's policy on identifying and declaring interests and handling any potential or actual conflict of interests is set out in SACN's [SACN Code of Practice](#).

A [register of members' interests](#) is maintained on SACN's website; the register is updated as soon as possible after an interest is declared. A snapshot of the register of interests is included in Annex 5.

Procedures

Meeting agendas are compiled from a number of sources including outstanding items from previous meetings, items suggested by the committee, outside bodies including other Scientific Advisory Committees as well as items brought forward from the committee's work programme. Updates from SACN working group, its subgroup and from colleagues in Scotland, Wales and Northern Ireland are regular features on the agenda.

SACN's work in 2017

This is the seventeenth annual report of SACN and covers the calendar year 2017.

The main committee met three times in 2017, on 16 March, 19 June and 10 October. Professor Ann Prentice chaired all SACN main meetings in 2017.

The Subgroup on Maternal and Child Nutrition (SMCN) met three times in 2017, on 28 February, 22 May and 31 October, and held two additional drafting meetings.

The Saturated Fats Working Group met five times in 2017, on 27 January, 10 March, 12 May, 20 July and 9 November, and held one teleconference meeting.

The joint SACN/COT Working Group on the timing of introduction of allergenic foods into the infant diet met once in 2017, on 17 March.

The small group of SACN members involved in the review of folic acid and health briefly met to discuss the draft report pre-publication on 12 May. They also held a teleconference on the 15 May.

The Joint SACN / NHSE / Diabetes UK working group on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes met for the first time in 2017, on 30 October.

The position statements on potassium based sodium replacers were developed through the main SACN committee meetings and via email.

The position statement on diet, cognition and dementias was developed through the main SACN committee meetings and via email.

Work Programme

The following issues were on the committee's main work programme:

- complementary and young child feeding
- folic acid
- lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes
- nutrition and cognitive impairment
- potassium-based sodium replacers
- saturated fats and health.

Forward Look

The following issues were highlighted for future consideration:

- health of women of reproductive age
- dietary requirements of older people
- nutritional implications of new food technologies and processes
- nutrition and ethnicity in the UK.

Watching Brief

The committee agreed to keep a watching brief on the following items:

- iodine status of the UK population: to revisit when further evidence is available, including that from a study *Assessing iodine status and associated health outcomes in British women during pregnancy*, commissioned on behalf of SACN
- folic acid fortification
- sustainable healthy diet: to contribute to public health nutrition messages where needed
- dietary fat consumption: percentage of total fat in the diet.

SACN's working groups and subgroup

The committee has working groups and a subgroup comprising SACN members and co-opted specialists. These groups develop recommendations and advice on specific areas of public health nutrition. The following groups were active during 2017:

- Subgroup on Maternal and Child Nutrition
- Saturated Fats Working Group
- Joint SACN/COT Working Group on the timing of introduction of allergenic foods into the infant diet.
- Joint SACN / NHSE / Diabetes UK Working Group to review evidence on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes.

These groups report back on progress to the main committee at each SACN meeting.

Subgroup on Maternal and Child Nutrition

Background

The Subgroup on Maternal and Child Nutrition (SMCN) was set up as a specialist standing group to advise Government on issues relating specifically to maternal and child nutrition, an area on which Health Departments need regular scientific advice for policy-making and regulatory purposes.

Terms of reference

The terms of reference for SMCN are to advise, through SACN, on such aspects of maternal and child diet and nutrition, as are referred to it by PHE, the UK Health Departments and SACN.

Activity

In 2017, the work of SMCN focused on a major review of the scientific evidence underpinning recommendations on feeding in the first year of life. The terms of reference and scope of the work were agreed by SACN in 2011. At its meetings in February and May 2017, the subgroup discussed the draft report; a number of editorial amendments were suggested and the secretariat developed the text in line with these comments. The draft report was issued for consultation for 8 weeks between July and September 2017 and 29 responses from interested parties were received. SMCN considered the consultation responses at its meeting in October and made a series of amendments to the draft report based on the comments received. A drafting group comprising the secretariat, Chair and several SMCN members also met in December to progress revisions to the report.

To support the development of the *Feeding in the First Year of Life* report, the Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) was asked by the Department of Health to conduct a review of the risks of toxicity from chemicals in the infant diet, and examine the evidence relating to the influence of infant diet on the development of food allergy, and atopic and auto-immune disease. In 2016, a joint SACN-COT working group was established to consider the timing of the introduction of peanut and hen's egg to the infant diet. The working group met on one occasion in 2017 (in March) and a joint SACN-COT statement was published in July. The conclusions of the SACN-COT statement were reflected in SACN's draft report on *Feeding in the First Year of Life*.

SMCN started to consider the scope of its next major review on feeding children aged 12 to 60 months. Following initial consideration at its meeting in May, a scoping meeting was held in October to progress this work. The work will start in earnest in 2018.

In other work in 2017, SMCN continued to consider gaps in infant feeding data collection in the absence of the Infant Feeding Survey.

Dr Tony Williams stood down as Chair of SMCN in February 2017. He was replaced as Chair by an existing SMCN member, Professor Ken Ong.

Saturated Fats Working Group

Background

The Saturated Fats Working Group was established in 2015 to examine the evidence linking dietary fats and health outcomes following discussion by the main SACN Committee of the need to address issues that have been raised by some commentators and a direct request from Food Standards Scotland.

Terms of reference

- Review the evidence for the relationship between saturated fats and health and make recommendations.
- Review evidence on the association between saturated fats and key risk factors and health outcomes at different life stages for the general UK population.

Activity

The Saturated Fats Working Group held five meetings in 2017 and conferred by teleconference in September.

Throughout 2017 the group considered the evidence included in the review.

At their March meeting the group considered additional research identified by an interested party that met the inclusion criteria for the review.

At the meetings in January, March and May, the working group considered the approach to statistical models in meta-analyses reported in the included papers. This issue was also discussed with SACN members at their meeting in June and a way forward was agreed.

At the meetings in January, March, May and July, the working group focused on drafting the outcome chapters on the impact of saturated fat intake on cardiovascular diseases, blood lipids, blood pressure, type 2 diabetes and markers of glycaemic control, cancers, weight change, gestational weight gain, and dementias and cognitive function.

At its teleconference in September and meeting in November the group focused on comments from SACN members on the draft report and also made a number of revisions to ensure clarity and consistency as well as developing the summary, conclusions and recommendations.

Joint SACN-COT Working Group on the timing of introduction of allergenic foods into the infant diet

Background

The joint SACN-COT Working Group on the timing of introduction of allergenic foods into the infant diet was established in 2016 with a joint SACN and Food Standards Agency (FSA) secretariat.

Terms of reference

- In light of the work being undertaken as part of the SACN review on *Feeding in the First Year of Life* and COT's statement on timing of allergenic food introduction, to undertake a benefit:risk assessment on the timing of introduction of allergenic foods (hen's egg and peanut) into the infant diet.
- Based on that benefit:risk assessment, to provide integrated advice to the UK health departments.

Activity

The group held its second meeting on 17 March 2017. At this meeting, members considered background to the work to date; an analysis of the evidence being considered (including a newly available secondary analysis of data); and the benefit risk analysis. Members agreed the format and overarching content of the statement and drafted conclusions and recommendations. Further work on the statement was agreed by email and signed off by the independent Chair. The draft statement was further progressed via correspondence and signed off by the independent Chair, ahead of consideration at meetings of SMCN in May, SACN in June and COT in July. The statement was published in July 2017.

Joint SACN/COT Potassium-based Sodium Replacers Working Group

Background

This joint SACN-COT Potassium-based Sodium Replacers Working Group was set up in 2015.

Terms of reference

- COT and SACN to work together to undertake a risk-benefit analysis of the use of potassium-based sodium replacers in foods, with particular consideration of the effects in vulnerable groups.
- Based on that risk-benefit analysis, to agree integrated advice for SACN to provide to the Department of Health.

Activity

The joint working group did not meet in 2017 but finalised the text of the report at SACN meetings and by email. The assessment of the health benefits and risks of using potassium-based sodium replacers in foods in the UK was published in November 2017.

Joint SACN / NHS England / Diabetes UK Working Group to review the evidence on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes

Background

PHE asked SACN to review the evidence on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes. To take this review forward, NHS England and Diabetes UK were approached to form a joint working group with SACN. The group is jointly chaired by representatives from SACN (Professor Ian Macdonald) and Diabetes UK (Mr Douglas Twenefour) and includes other members of SACN (Professors Peter Aggett and Ian Young), representatives from Diabetes UK, a general practitioner, a physician and a person living with type 2 diabetes. The group will be observed by other government departments, NHS England and the National Institute for Health and Care Excellence (NICE).

Activity

At its first meeting in October, the joint working group received background information on SACN's approach to assessing evidence and Diabetes UK's existing position statement on low carbohydrate diets. Members considered the draft terms of reference for the group; the proposed approach for assessing the evidence; ways of working; the proposed timeline; and a suggested template for the draft report.

Annex 1

SACN's terms of reference

SACN is an advisory committee that replaced the Committee on Medical Aspects of Food and Nutrition Policy (COMA). It advises the Government and is supported by a PHE secretariat.

Its advice covers scientific aspects of nutrition and health with specific reference to:

- nutrient content of individual foods and advice on diet as a whole including the definition of a balanced diet
- nutritional status of people in the UK and how it may be monitored
- nutritional issues which affect wider public health policy issues including conditions where nutritional status is one of a number of risk factors (e.g. cardiovascular disease, cancer, osteoporosis and obesity)
- nutrition of vulnerable groups (e.g. infants and the elderly) and health inequality issues
- research requirements for the above.

All members and the secretariat regard it as part of their role to:

- examine and challenge if necessary the assumptions on which scientific advice is formulated and ask for explanations of any scientific terms and concepts which are not clear
- ensure that SACN has the opportunity to consider contrary scientific views and the concerns and values of stakeholders before a decision is take
- ensure that SACN's advice is clear and comprehensible.

SACN has a UK wide remit and observers from the devolved administrations attend SACN main meetings.

Annex 2

Membership of the committee

Chair Professor Ann Prentice
Director, MRC Elsie Widdowson Laboratory, Cambridge

Deputy Chair Professor Peter Aggett
Honorary Professor, School of Medicine and Health, Lancaster University, and
Emeritus Professor and Past Head of Lancashire School of Postgraduate Medicine
and Health, University of Central Lancashire

Other members

Ms Gill Fine
Public Health Nutritionist

Professor Paul Haggarty
Deputy Director, Rowett Institute of Nutrition and Health, University of Aberdeen

Professor Timothy Key
Professor of Epidemiology and Deputy Director of Cancer Epidemiology Unit,
University of Oxford

Professor Susan Lanham-New
Head of the Nutritional Sciences Department, University of Surrey

Professor Julie Lovegrove
Professor of Human Nutrition, Head of the Hugh Sinclair Unit of Human Nutrition and
Deputy Director for the Institute for Cardiovascular & Metabolic Research, University
of Reading

Professor Ian Macdonald
Professor of Metabolic Physiology, School of Life Sciences, University of Nottingham

Professor Harry J McArdle
Professor Emeritus of Biomedical Sciences, Rowett Institute of Nutrition and Health,
University of Aberdeen
Honorary Professor of Biological Sciences, University of Nottingham

Dr David Mela (Industry member)
Senior Scientist, Unilever R&D Vlaardingen, The Netherlands

Professor Ken Ong
Professor of Paediatric Epidemiology, MRC Epidemiology Unit and Department of
Paediatrics, University of Cambridge

Mrs Gemma Paramor (Lay member)
Finance professional in accounting and fund management

Professor Hilary Powers
Professor Emeritus of Nutritional Biochemistry, Department of Oncology and
Metabolism, University of Sheffield

Professor Monique Raats
Director of the Food, Consumer Behaviour and Health Research Centre and
Associate Dean Research and Innovation for the Faculty of Health and Medical
Sciences, University of Surrey

Professor Angus Walls
Professor of Restorative Dentistry and Director of the Edinburgh Dental Institute,
University of Edinburgh

Dr Stella Walsh (Consumer member)

Professor Charlotte Wright
Professor of Community Child Health, School of Medicine Dentistry and Nursing,
University of Glasgow

Professor Ian Young
Professor of Medicine, Queen's University Belfast

Observers

Dr Joanne Casey
Food Standards Agency Northern Ireland

Dr Naresh Chada
Department of Health, Social Services and Public Safety, Northern Ireland

Professor Louis Levy
Public Health England

Ms Anne Milne
Food Standards Agency Scotland

Ms Sarah Rowles
The Welsh Assembly, Health Promotion Division

Secretariat Public Health England

Dr Adrienne Cullum
Ms Rachel Elsom
Ms Sheila Katureebe
Ms Goda Kijauskaite
Ms Jennifer Lynas
Mr Alastair McArthur
Ms Emma Peacock
Ms Mamta Singh
Mr Heiko Stolte
Ms Gillian Swan
Ms Emily Watson

Membership of the Subgroup on Maternal and Child Nutrition (SMCN)

Chair Professor Ken Ong (SACN member and SMCN Chair from May 2017)
Professor of Paediatric Epidemiology, MRC Epidemiology Unit and Department of Paediatrics, University of Cambridge

Dr Anthony Williams (SMCN Chair until February 2017)
Formerly, Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's, University of London

Other members

Professor Peter Aggett (SACN Deputy Chair)
Honorary Professor, School of Medicine and Health, Lancaster University, and Emeritus Professor and Past Head of Lancashire School of Postgraduate Medicine and Health, University of Central Lancashire.

Professor Annie Anderson (External expert)
Professor of Food Choice, Centre for Public Health Nutrition Research, University of Dundee

Professor Alan Jackson (External expert)
National Institute for Health Research (NIHR) Director of Nutrition Research and Chair of Cancer and Nutrition Infrastructure Collaboration

Professor Mairead Kiely (External expert)
Cork Centre for Vitamin D and Nutrition Research, School of Food and Nutritional Sciences, College of Science Engineering and Food Science, Irish Centre for Fetal and Neonatal Translational Research [INFANT], College of Medicine and Health University College Cork, Ireland.

Professor Ann Prentice (SACN Chair)
Director, MRC Elsie Widdowson Laboratory, Cambridge

Professor Monique Raats (SACN member)
Director of the Food, Consumer Behaviour and Health Research Centre and Associate Dean Research and Innovation for the Faculty of Health and Medical Sciences, University of Surrey

Professor Siân Robinson (External expert)
Professor of Nutritional Epidemiology at the MRC Lifecourse Epidemiology Unit, University of Southampton

Dr Stella Walsh (SACN member)
Consumer member

Professor Angus Walls (co-opted SACN member)
Professor of Restorative Dentistry and Director of the Edinburgh Dental Institute

Professor Charlotte Wright (SACN member)
Professor of Community Child Health, School of Medicine Dentistry and Nursing, University of Glasgow

Membership of the Saturated Fats Working Group

Chair Professor Paul Haggarty (SACN member)
Deputy Director, Rowett Institute of Nutrition and Health, University of Aberdeen

Other members

Professor Jules Griffin (External expert)
University of Cambridge and Elsie Widdowson Laboratory

Professor Timothy Key (SACN member)
Professor in Epidemiology and Deputy Director of Cancer Epidemiology Unit,
University of Oxford

Professor Mairead Kiely (SMCN member)
Cork Centre for Vitamin D and Nutrition Research, School of Food and Nutritional
Sciences, College of Science Engineering and Food Science, Irish Centre for Fetal
and Neonatal Translational Research [INFANT], College of Medicine and Health
University College Cork, Ireland

Professor Julie Lovegrove (SACN Member)
Professor of Human Nutrition, Head of the Hugh Sinclair Unit of Human Nutrition and
Deputy Director for the Institute for Cardiovascular & Metabolic Research at the
University of Reading

Dr David Mela (SACN member)
Senior Scientist, Unilever R&D Vlaardingen, The Netherlands

Mrs Gemma Paramor (SACN member)
Finance professional in accounting and fund management

Professor Ian Young (SACN member)
Professor of Medicine, Queen's University Belfast

Membership of the Joint SACN/COT Working Group on the timing of introduction of allergenic foods into the infant diet

Chair Professor Mike Kelly (External expert)
Senior Visiting Fellow in the Department of Public Health and Primary Care at the
Institute of Public Health at the University of Cambridge

Other members

Dr Anthony Williams (SMCN Chair)
Formerly, Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St
George's, University of London

Professor Peter Aggett (SACN Deputy Chair)
Honorary Professor, School of Medicine and Health, Lancaster University, and
Emeritus Professor and Past Head of Lancashire School of Postgraduate Medicine
and Health, University of Central Lancashire.

Professor Ken Ong (SACN member and SMCN Chair)
Professor of Paediatric Epidemiology, MRC Epidemiology Unit and Department of
Paediatrics, University of Cambridge

Professor Alan Boobis (COT Chair)
Professor of Biochemical Pharmacology and Director of Toxicology Unit in the Faculty of Medicine, Imperial College London

Dr René Crevel (COT member)
Science Leader, Allergy & Immunology, Unilever

Dr Paul Turner (External expert)
Clinical Senior Lecturer, Faculty of Medicine, Dept. of Medicine, Imperial College London

Membership of the Joint SACN/COT Potassium-based Sodium Replacers Working Group

Chair Professor Ann Prentice (SACN Chair)
Director, MRC Elsie Widdowson Laboratory, Cambridge

Professor Alan Boobis (COT Chair)
Professor of Biochemical Pharmacology and Director of Toxicology Unit in the Faculty of Medicine, Imperial College London

Other members

Professor Peter Aggett (SACN Deputy Chair)
Honorary Professor, School of Medicine and Health, Lancaster University, and Emeritus Professor and Past Head of Lancashire School of Postgraduate Medicine and Health, University of Central Lancashire.

Professor Julie Lovegrove (SACN member)
Professor of Human Nutrition, Head of the Hugh Sinclair Unit of Human Nutrition and Deputy Director for the Institute for Cardiovascular & Metabolic Research, University of Reading

Professor Susan Lanham-New (SACN member)
Head of the Nutritional Sciences Division, University of Surrey

Dr John Thompson (COT member)
Senior Lecturer in Clinical Pharmacology, Cardiff University, Director, National Poisons Information Service, Cardiff

Professor Janet Cade (COT member)
Professor of Nutritional Epidemiology and Public Health, University of Leeds

Membership of the joint SACN / NHS England / Diabetes UK Working Group to review the evidence on lower carbohydrate diets (alongside higher fat and/or higher protein) compared to current government advice for adults with type 2 diabetes

Co-Chair Professor Ian Macdonald
Professor of Metabolic Physiology, School of Life Sciences, University of Nottingham

Co-Chair Mr Douglas Twenefour
Deputy Head of Care at Diabetes UK

Other members

Professor Peter Aggett
Honorary Professor, School of Medicine and Health, Lancaster University, and Emeritus Professor and Past Head of Lancashire School of Postgraduate Medicine and Health, University of Central Lancashire.

Dr Pamela Dyson
Research dietitian, University of Oxford and diabetes specialist dietitian at Oxford Health NHS Foundation Trust.

Professor Nita Forouhi
Programme leader, MRC Epidemiology Unit, University of Cambridge.

Dr Rachel Pryke
General Practitioner and trainer in Redditch, Worcestershire.

Professor Roy Taylor
Professor of Medicine and Metabolism, University of Newcastle and Honorary Consultant Physician in Newcastle.

Ms Ruth Waxman
Patient representative

Professor Ian Young
Professor of Medicine, Queen's University Belfast

Observers Ms Lorraine Shuker
NHS England

Dr Monica Desai
National Institute for Health and Care Excellence

Annex 3

Committee members' biographies

Professor Ann Prentice (SACN Chair)

Director, MRC Elsie Widdowson Laboratory, Cambridge. Her main research interests are nutritional aspects of bone health, rickets and osteoporosis; dietary requirements for human growth, pregnancy and lactation, and old age with particular reference to micronutrients. She has published extensive peer-reviewed articles, book chapters and reports. Professor Prentice was President of the Nutrition Society (from 2004 and 2007). She has also served on a number of national and international advisory committees, including COMA's Subgroup on Nutrition and Bone Health. She is an Honorary Professor of the University of Cambridge, University of Witwatersrand, South Africa and Shenyang Medical College, PR China, a Visiting Professor of the University of Southampton and an Honorary Doctor of the University of Surrey. She is an Honorary Fellow of the Nutrition Society, the Association for Nutrition and the Royal College of Paediatric and Child Health, and is elected as a Fellow of the International Union of Nutritional Sciences, the Academy of Medical Sciences and the Royal Society of Biology. She was appointed OBE in the Birthday Honours List of 2006.

Professor Peter Aggett (SACN Deputy Chair)

Honorary Professor, School of Medicine, Lancaster University, and Emeritus Professor and past Head of Lancashire School of Postgraduate Medicine and Health, University of Central Lancashire. Interested in trace element metabolism in health and disease. He has served on national and international advisory committees relating to clinical nutrition, public health nutrition, nutritional requirements, nutrient safety and risk assessment, such as the EC Scientific Committee on Food, the Committee on Toxicology, the Advisory Committee for Novel Foods and Processes, and the Expert Group on Vitamins and Minerals. He was a member of COMA for seven years, and is a past chair and secretary of the Committee on Nutrition of the European Society for Paediatric Gastroenterology, Hepatology and Nutrition. Past Chair of the Nutrition Committee of the Royal College of Paediatrics and Child Health, and current Chair of the Nutrition Committee of the Royal College of Physicians of London.

Ms Gill Fine

Independent Public Health Nutritionist and currently serves as a Trustee and Scientific Governor at the British Nutrition Foundation and as an Independent Board Member for AHDB Beef and Lamb Sector Board. From 2004-2010, she was the Director of Consumer Choice and Dietary Health at the Food Standards Agency and was responsible for the strategic direction and the delivery of the FSA's Eating for Health and Choice programme. This wide remit comprised nutrition, GM, supplements, organics, additives, novel foods, food standards and general food labelling. She was also responsible for agreeing the overall direction of the Agency's research portfolio across the group's remit. She has first-hand experience of a wide range of food and dietary policies and how they impact on public health. She has served on several Government committees and was previously a member of SACN from 2001-2004.

Professor Paul Haggarty

Deputy Director of the Rowett Institute of Nutrition and Health, University of Aberdeen. His research is concerned with the dietary and social determinants of health, the influence of early life events, and the individual response to diet. He works on nutrition, epigenetics and genetics relevant to pregnancy, cognition, and cancer. He edited *Nutrition in Epigenetics and Population Epigenetics*. He has served on a number of national and international advisory committees and panels including the UK Advisory Committee for Novel Foods and Processes and the EU Healthy Diet for a Healthy Life Joint Programming Initiative. He is Chair of the BBSRC Bioscience for Health Strategy Panel and a member of the BBSRC Research Advisory Panel. His research is funded by Scottish Government, ESRC/BBSRC and medical charities.

Professor Timothy Key

Professor of Epidemiology and Deputy Director of the Cancer Epidemiology Unit, University of Oxford. His research includes the interactions between nutrition and hormones, cancer and cardiovascular disease, and the long-term health of vegetarians and vegans. He is the lead investigator of the Oxford component of the European Prospective Investigation into Cancer (EPIC), which is a European-wide collaborative study, chair of the EPIC Working Group on Nutrition and Prostate Cancer, and chair of the Endogenous Hormones and Breast Cancer Collaborative Group.

Professor Susan Lanham-New

Professor of Human Nutrition and Head of the Nutritional Sciences Department at the University of Surrey. Her research focuses on nutrition and bone health with a particular focus on vitamin D. She has won a number of awards including the Nutrition Society Silver Medal for her work showing a link between acid-base homeostasis and skeletal integrity. She is editor of the first academic textbook on 'Nutritional Aspects of Bone Health. She was a member of the SACN Vitamin D Working Group and is Editor-in-Chief of the Nutrition Society Textbook Series (6 books, >65,000 copies sold). She is a member of the Nutrition Forum for the National Osteoporosis Society, a Governor and Scientific Advisory Group member of British Nutrition Foundation and the new Honorary Secretary for the Nutrition Society. She has recently been awarded Fellowship status of the Society of Biology and Fellowship status of the Association for Nutrition. She led an application for Nutritional Sciences at Surrey that has just won the 2017/2018 Queen's Anniversary Prize for Higher Education, which is the first time the Prize has been awarded to nutritional sciences.

Professor Julie Lovegrove

Professor of Human Nutrition at the University of Reading, Director of the Hugh Sinclair Unit of Human Nutrition and the Deputy Director of the Institute for Cardiovascular and Metabolic Research (ICMR). Her main areas of research interest are the investigation of nutritional influences on cardiovascular disease risk, including nutrient/gene interactions and personalised nutrition. Of particular interest are the effects of dietary fats, carbohydrates and phytochemicals on vascular reactivity, insulin resistance and lipid metabolism in different population groups. She also has experience and interest in ethical issues associated with human research and serves on a number of research ethics committees. She is Chair of the Accreditation Committee for the Association for Nutrition (AfN) and Deputy Chair of Council for AfN. She represents SACN on the project board for the National Diet and Nutritional Survey (NDNS), and is a member of the Saturated Fats Working Group and joint SACN-COT Working Group on Potassium-based Sodium Replacers. She is also a member of two ILSI working groups. She was awarded a Fellowship of the AfN in 2014.

Professor Ian Macdonald

Professor of Metabolic Physiology and completed his 4 year term as Head of the School of Life Sciences at the University of Nottingham in July 2017. His research interests are concerned with the nutritional and metabolic aspects of obesity, diabetes and cardiovascular disease, with additional interests in nutrition and metabolism in exercise. His research involves studies in healthy subjects and various patient groups, and combines whole body physiological measurements, molecular investigation of tissue samples, and dietary interventions. Editor of the International Journal of Obesity, Honorary Treasurer of the World Obesity Federation (formerly International Association for the Study of Obesity) and Honorary Treasurer of the Federation of European Nutrition Societies. He was President of the UK Nutrition Society from 2007-2010 and in 2013 was awarded a Fellowship of the Association for Nutrition and elected as a Fellow of the International Union of Nutritional Sciences. He is also a Fellow of the Royal Society of Biology. In November he was awarded the British Nutrition Foundation Prize for 2017.

Professor Harry McArdle

Deputy Director of Science and the Director of Academic Affairs at the Rowett Institute of Nutrition and Health, University of Aberdeen until January 2015. He retired in March 2016 and is currently a Professor Emeritus of Biomedical Sciences at the same Institute. Honorary Prof in Biological Sciences at University of Nottingham. His main research interests involved micronutrients and the critical role they play in growth and development and he is currently a co-applicant, with Prof Nicola Lowe of University of Central Lancashire, testing whether biofortified wheat can improve zinc status in impoverished Pakistani women. He represents SACN on the Advisory Committee on Novel Foods and Processes (ACNFP), is a member of the Minerals Working Group, Novel Foods WG and Health Claims WG for EFSA and is a member of the NDA Panel for EFSA.

Dr David Mela

Senior Scientist at Unilever R&D Vlaardingen, The Netherlands. He joined Unilever in 1998, following an academic research career in the US and UK. His main expertise is in the biological and behavioural aspects of food choice, eating behaviour and energy balance, from consumer research through energy metabolism. At Unilever, he is mainly involved with research programmes to identify and substantiate the health and nutrition benefits of product formulations and ingredients. He also provides input for the management of specific technical and regulatory issues and represents Unilever on various external academic and trade groups.

Professor Ken Ong

Professor Ong leads the Child Growth and Development programme at the MRC Epidemiology Unit, University of Cambridge and is an honorary Paediatric Endocrinologist at Cambridge University Hospitals NHS Trust. He trained in Paediatric Endocrinology in Southampton, London, Oxford and Cambridge and has a PhD in Paediatrics and MPhil in Epidemiology, both from the University of Cambridge. His MRC programme studies the genetic, epigenetic and endocrine mechanisms linking childhood growth, weight gain and pubertal timing to obesity and type 2 diabetes.

Mrs Gemma Paramor

Finance professional who has worked in both the accounting and fund management industries and is a member of the Institute of Chartered Accountants of England and Wales. In her current employment as an Investment Manager, she is focused on the healthcare sector. As a result, she is accustomed to the analysis and interpretation of scientific data, is a practiced decision-maker with a focus on risk assessment and has considerable experience of communicating complex healthcare issues to a non-expert audience. Gemma studied Biological Sciences at Oxford University and is the mother of two children.

Professor Hilary Powers

Professor Powers is Professor Emeritus in Nutritional Biochemistry, Department of Oncology and Metabolism, at the University of Sheffield. Her research has focused on the role of B vitamins in health and disease, with specific focus on methyl donor nutrients and HPV-linked cancers, and functional biomarkers of micronutrient status. She has published extensively in this field. She represents SACN on the Project Board for the National Diet and Nutrition Survey (NDNS). Her activities in the nutrition community have included membership of the Standing Committee on Nutrition for the Royal College of Paediatrics and Child Health, of the Expert Panel for the AICR/WCRF Report into Food, Nutrition, Physical Activity and Cancer and on various Grant awarding bodies for the BBSRC and WCRF. She is co-editor of the classic textbook, Human Nutrition (OUP).

Professor Monique Raats

Director of the Food, Consumer Behaviour and Health Research Centre and Associate Dean Research and Innovation for the Faculty of Health and Medical Sciences at the University of Surrey. Her portfolio of research is wide ranging in terms of topics being addressed (e.g. food choice, policy development, food labelling), and methodologies used (e.g. qualitative, quantitative, stakeholder consultation). Since her arrival at the University of Surrey in 2000, she has played a central role in securing research funding for both national and European research projects. She has published over 125 peer-reviewed papers, 20 book chapters, and co-edited two books, "The Psychology of Food Choice" (2006) and "Food for the Ag(e)ing Population" (2008; 2nd edition 2016). She is one of the founding members and was secretary of the International Society of Behavioural Nutrition and Physical Activity.

Professor Angus Walls

Professor of Restorative Dentistry and Director of the Edinburgh Dental Institute, University of Edinburgh. His research interests focus on the oral health care problems of an ageing population at a time of marked change in oral health status. The relationships are between diet and oral diseases such as tooth wear, decay and soft tissue pathology, and the number and functional capacity of the residual dentition and foods choice. His work has embraced basic epidemiology and the development of dietary interventions to address specific problems.

Dr Stella Walsh

Experienced consumer member who has served on several government and industry committees and has responded to consultations on behalf of consumers. She is a member, and previously secretary, of the National Consumer Federation (NCF). She has a long-standing interest in food, nutrition and health. She has been a consumer member on the Institute of Grocery Distributors, and on other FSA and Defra committees. Until April 2015 she was also a consumer member on the Veterinary Residues Committee.

Professor Charlotte Wright

Professor of Community Child Health, School of Medicine and Nursing at Glasgow University and honorary consultant paediatrician at the Royal Hospital for Sick Children in Glasgow. She trained as a clinical epidemiologist. Her chief research interests are feeding and growth in infancy, under-nutrition and growth screening. In her clinical and teaching roles she is involved in a range of public health nutrition issues, particularly the promotion of breast feeding and the management of childhood obesity. She recently headed the Royal College of Paediatrics and Child Health (RCPCH) group who designed the new UK growth charts.

Professor Ian Young

Professor of Medicine at Queen's University Belfast and Deputy Medical Director and Consultant Chemical Pathologist at the Belfast Health and Social Care Trust. In addition, he is Chief Scientific Advisor to the Department of Health (NI) and Director of Health and Social Care Research and Development for Northern Ireland. His main clinical and research interests are in lipid metabolism, carbohydrate metabolism and antioxidants, particularly in relation to the prevention of cardiovascular disease. He is an author of over 350 published research papers and is on the editorial boards of a number of leading international journals. He frequently speaks at national and international meetings on lipid management and topics related to laboratory medicine.

Biographies for those who are not members of SACN**Subgroup on Maternal and Child Nutrition (SMCN)****Professor Annie Anderson**

Professor of Public Health Nutrition and Co-director of the Centre for Research into Cancer Prevention and Screening at the School of Medicine, University of Dundee. Her main research interests focus on theory based, behaviourally focused dietary and obesity (population and individual) interventions with a special interest in cancer prevention, maternal nutrition and food policy. She has participated as an expert advisor for the WHO International Agency for Research on Cancer (IARC), NICE, Department of Health, Food Standards Agency and Scottish Government Advisory Committees on topics ranging from infant feeding survey design, obesity and cancer prevention to Food and Drink Policy development. She is currently Chair of the National Prevention Research Initiative (UK Medical Research Council) scientific committee.

Professor Alan Jackson

NIHR Director of Nutritional Research and Chair of the Cancer and Nutrition NIHR Infrastructure Collaboration. He was appointed to the first Chair in Human Nutrition in an undergraduate medical school in the UK in 1985. He trained in paediatrics before taking up a post caring for severely malnourished children and carrying out research to determine the adaptive mechanisms that come into play in that condition and need to be addressed for successful therapy.

Professor Mairead Kiely

Professor of Human Nutrition at the School of Food and Nutritional Sciences, University College Cork. She is Co-chair of the Cork Centre for Vitamin D and Nutrition Research and leads the Maternal and Child Nutrition Research platform at the Irish Centre for Fetal and Neonatal Translational Research (INFANT). Her research programme integrates the main themes of vitamin D and human health and the role of maternal and child nutrition in healthy growth and development. She is a member of the Public Health Nutrition Committee of the Food Safety Authority of Ireland.

Professor Siân Robinson

Professor of Nutritional Epidemiology at the MRC Lifecourse Epidemiology Unit, University of Southampton. Her main research interests are in the nutrition of women, infants and young children, and in understanding how variations in nutrition across the life course contribute to inequalities in adult health, with a particular focus on early life influences on growth and development, and effects on ageing. She has been a member of a number of advisory groups including acting as co-opted expert member of the NICE Programme Development Group to produce guidance on maternal and child nutrition in low-income families and external advisor to the Diet and Nutrition Survey of Infants and Young Children.

Dr Anthony Williams

SACN member from 2000 to 2017 and Chair of the Subgroup on Maternal and Child Nutrition from 2001 to 2017. He was formerly Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's, University of London. Chair of COMA's Panel on Child & Maternal Nutrition and a member of COMA. He was a member of the Food Standards Agency's Expert Group on Vitamins and Minerals and cross-represented SACN on the Advisory Committee on Novel Foods and Processes between 2003 and 2007. Between 2006 and 2008 he chaired the NICE Centre for Public Health Excellence producing guidance on maternal and child nutrition in low-income families. He represented SACN on the project board of the Diet and Nutrition Survey of Infants and Young Children.

Saturated Fats Working Group

Professor Jules Griffin

Head of the Lipid Profiling and Signalling group in the Department of Biochemistry at the University of Cambridge. He is also an Honorary Professor at Imperial College London, a Fellow of King's College, Cambridge and is affiliated with the Elsie Widdowson Laboratory. The work of his group focuses on the use of high resolution mass spectrometry to measure lipids in biofluids and tissue extracts in order to better understand the causes and consequences of type 2 diabetes and obesity (collectively referred to sometimes as the Metabolic Syndrome). In particular this work focuses on four areas of research: (i) understanding the role that peroxisome proliferator activated receptors (PPARs) play in regulating metabolism across the body, (ii) understanding how lipids influence the function of the cell and hence why changes in lipid intake affect how the body functions, (iii) examining how lipids influence tissue inflammation in the Metabolic syndrome and (iv) developing computer software tools for storing and processing the large quantity of data produced by these experiments.

Joint SACN/COT Working Group on the timing of introduction of allergenic foods into the infant diet

Professor Mike Kelly

Senior Visiting Fellow in the Department of Public Health and Primary Care at the Institute of Public Health at the University of Cambridge and a member of St John's College, Cambridge. Between 2005 and 2014 he was the Director of the Centre for Public Health at NICE) where he led the teams producing public health guidelines. While at NICE he appeared regularly on the Today Programme and BBC, ITV and Sky Television. He has advised the House of Commons Health Select Committee and been a witness before parliamentary committees on a number of occasions. He has chaired committees for MRC/ESRC, the Foods Standards Agency and recently visited Sydney to advise the Sax Institute there. From 2005 to 2007 he directed the methodology work stream for the World Health Organisation's (WHO) Commission on the Social Determinants of Health. This body of work was the first time that a properly evidence-based approach to dealing with health inequalities had been attempted by WHO. He has a continuing interest in health inequalities and is pursuing a programme of research in Cambridge on this topic. His research interests include the methods and philosophy of evidence-based medicine, prevention of CVD, health inequalities, health related behaviour change, the causes of non-communicable disease, end of life care, dental public health and the sociology of chronic illness.

Dr René Crevel

Science Leader (Allergy & Immunology) at Unilever's Safety and Environmental Assurance Centre. His principal responsibilities include providing scientific advice and guidance on possible adverse effects of materials and their use arising from their interaction with or modulated through the immune system. He is responsible for advice and guidance on food allergy and allergen management to Unilever Companies and for leading Unilever's food allergy research programme. Other aspects of his work include immunomodulation by different agents and the effects of diet and other agents on immune responses, including allergy.

Dr Paul Turner

Trained in Paediatric Allergy and Immunology at the Children's Hospital at Westmead, Sydney and Great Ormond Street Hospital, London. He is a graduate of Oxford University and the University of London, and undertook a PhD investigating the immunopharmacology of allergic rhinitis. Currently MRC Clinician Scientist in Paediatric Allergy & Immunology within the MRC & Asthma UK Centre in Allergic Mechanisms of Asthma at Imperial College London. He is principal investigator on a grant investigating mechanisms of food-triggered anaphylaxis. Other research interests include seafood allergy, allergic rhinitis and allergen avoidance. He teaches on the MSc in Allergy at Imperial College and has lectured at a number of national and international meetings. He has clinical commitments as an Honorary Consultant in Paediatric Allergy & Immunology at a number of specialist tertiary centres in London, including St Mary's Hospital (Paddington) and the Evelina Children's Hospital. He also holds an Honorary Lectureship at the University of Sydney where he teaches on the Masters of Medicine programme. He is a Fellow of the Royal Australasian College of Physicians. Active member of the BSACI Paediatric Allergy Group, where he has led the project to institute nationwide Allergy Action Plans for children with life-threatening allergies, alongside Dr George Du Toit (see <http://www.bsaci.org/about/pag-allergy-action-plans-for-children>). He is also a member of the Health Advisory Board for Allergy UK, a patient support charity (<http://www.allergyuk.org>).

Joint SACN/COT Potassium-based Sodium Replacers Working Group**Professor Alan Boobis**

Professor of Biochemical Pharmacology and Director of Toxicology Unit (funded by PHE & DH) in the Faculty of Medicine at Imperial College London. He has been a member of Imperial College London (initially at the Royal Postgraduate Medical School, which merged with the College in 1997) for almost 40 years. His main research interests lie in mechanistic toxicology, drug metabolism, toxicity pathway analysis and in the application of knowledge in these areas to risk assessment. He has published around 230 original research papers (H-factor 63) and for several years served as an Editor-in-Chief of Food and Chemical Toxicology.

Dr John Thompson

Senior Lecturer in Clinical Pharmacology at the Wales College of Medicine, Cardiff University. Honorary Consultant to Cardiff and Vale Local Health Board and Director of the National Poisons Information Service (Cardiff). In addition to his general medical interests, he has a particular interest in the management of acutely poisoned patients. Current academic interests include the effective use of antidotes and the effects of occupational exposure to chemicals on health. He is the theme leader for medical undergraduate education for Clinical Pharmacology and Therapeutics at the Wales College of Medicine and is course organiser for postgraduate courses in Medical Toxicology at the University.

Professor Janet Cade

Appointed to the Committee on 1 September 2010. She leads the Nutritional Epidemiology Group in the School of Food Science and Nutrition at the University of Leeds. She is a nutritional epidemiologist with particular interests in dietary assessment methodology. She runs the large UK Women's Cohort Study which is characterising dietary exposures in relation to chronic disease outcomes. Other recent work has explored approaches to improve the quality of diets in children; the impact of foods, nutrients and dietary patterns associated with adverse health outcomes including obesity and cancer risk; development and validation of a mobile phone application to support weight

loss. Chairs the registration committee of the Association for Nutrition, which is involved in the professionalisation of nutritionists.

Joint SACN / NHS England / Diabetes UK Working Group to review evidence on the impact of low carbohydrate / high fat diets for people with type 2 diabetes compared to current government advice on markers / clinical outcomes

Ms Pamela Dyson

Research dietitian at the University of Oxford and holds a sessional contract as diabetes specialist dietitian with Oxford Health NHS Foundation Trust. She holds voluntary post as CEO of the Oxford Health Alliance, a charity set up to combat the epidemic of non-communicable disease. Main research interests are dietary management of diabetes, weight management and behavioural aspects of lifestyle change. She has a particular interest in establishing the evidence base for dietary interventions, and is currently co-chairing the Diabetes UK Nutrition Working Group which is revising and updating the nutrition guidelines for the prevention and treatment of diabetes.

Professor Nita Forouhi

Programme leader, MRC Epidemiology Unit, University of Cambridge. Her research focuses on identifying dietary factors for the risk of cardiometabolic disease, systematically addressing the key challenges in nutritional research, combining scale and depth of investigation using large epidemiological cohorts. Examples include (1) establishing link between consumption of sugar-sweetened beverages and type 2 diabetes through five interlinked publications, contributing to public health impact and citations in policy documents; (2) measuring nutritional biomarkers on an unprecedented scale, including blood fatty acids, showing that saturated fat is not homogeneous and that saturated fatty acids from dairy products are related inversely with diabetes. She has over 200 scientific publications and has served on numerous advisory bodies.

Dr Rachel Pryke

Part-time GP and trainer in Redditch, Worcestershire. She was the RCGP Clinical Champion for Nutrition until 2015 and began a NICE Fellowship in April 2015. Established the RCGP Nutrition Group in 2013. She has written extensively. She runs primary care obesity training courses throughout the UK and has collaborated with WHO on a European primary care obesity training package. She is a member of the National Child Measuring Programme Board, PHE Obesity Priority Programme Board and RCGP representative for the Obesity Health Alliance.

Professor Roy Taylor

Professor of Medicine and Metabolism, University of Newcastle and Honorary Consultant Physician in Newcastle. He has run clinical services in diabetes, obstetric medicine and general medicine since appointment to present post in 1985. From 2016, he stopped providing direct clinical care. His current work is focused on understanding the aetiology and pathogenesis of type 2 diabetes. This involves development of novel magnetic resonance methodology and use of in vivo metabolic tests. The research has led directly to clinical application, and use of a robust method to achieve and maintain weight loss in Primary Care is currently under investigation.

Mr Douglas Twenefour

Deputy Head of Care at Diabetes UK and a registered dietitian. He has extensive clinical experience within the NHS as a Specialist Obesity and Diabetes dietitian. As spokesperson for Diabetes UK, he has featured on various national, regional and international media platforms. He holds a Master of Philosophy degree in Nutrition, a Postgraduate Diploma in Dietetics, and a Bachelor of Science Degree in Nutrition and Food Science.

Worked with a number of Universities, academic institutions and health organisations worldwide, and is currently co-chair of Diabetes UK's nutrition guidelines committee.

Ms Ruth Waxman

Chair of Enfield Diabetes Support Group and patient representative on Diabetes Clinical Working Group at Enfield CCG. She represented patients' views at Diabetes Retinopathy Group, Diabetes Stakeholder Group and Diabetes Reference Group prior to changes at CCG.

She meets with Diabetes UK London regional manager to provide update on diabetes care in Enfield. She works with diabetes consultant nurse and diabetes specialist nurse in Enfield & will be working with a local surgery to support their patients with diabetes. She has spoken in Parliament and given presentations to GPs, healthcare professionals, medical students and lay people about living with diabetes. As a member of Diabetes Voices, she meets MPs to inform them about diabetes care. She is a patient representative at NICE to discuss new medications for diabetes.

Annex 4

Remuneration and committee finance

The amount paid to committee members for fees in 2017 was:

- for main meetings, working group, subgroup or drafting group meetings, those who chaired a meeting received a total fee of £200 per meeting inclusive of attendance and reading fees
- members not chairing received £160 per meeting inclusive of attendance and reading fees.

Fees for taking part in teleconference meetings were calculated according to the length of the meeting.

Committee members were also paid fees for attending non-SACN meetings if they were present in their capacity as members of SACN.

Public Health England also met travel and subsistence costs for those attending main meetings and working group/subgroup meetings.

The cost of the committee fees and expenses, excluding secretariat resources, for 2017 was £34,338.71. Costs were met by Public Health England.

Annex 5 Declarations of interest

SACN Main Committee

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Peter Aggett	European Food Safety Authority	<p>Nature of interest:</p> <p>Member of Panel on Additives and Nutrient Sources added to Foods.</p> <p>Member of Working Groups on Reviewing Additives, and piloting risk assessment approaches for infants under 12 weeks of age.</p> <p>Working Group member on EFSA panels on:</p> <ul style="list-style-type: none"> • Additives and Products or Substances used in Animal Feed (FEEDAPP) (2015 to 2016); • Dietetic Products, Nutrition and Allergies (NDA) (2014 to present); <p>Financial: Yes (honoraria received, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter:</p> <ul style="list-style-type: none"> • FEEDAP : Working Group on Copper • NDA : DRVs for Minerals • ANS : Additives and Nutrient Sources <p>Dates: Please see 'Nature of interest' above.</p>	None	N/A

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Royal College of Physicians	<p>Nature of interest: Chair of Nutrition Committee</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Nutrition support, policy and practice, advancing post qualification training in Nutrition for the RCP</p> <p>Dates: 2015 to present</p>		
Ms Gill Fine	Sainsbury's	<p>Nature of interest: Ex-employee</p> <p>Financial: yes (shareholdings). <i>Amount received per annum over £5,000:</i> no</p> <p>Subject matter: N/A</p> <p>Dates: 1986 to present</p>	None	N/A

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Agriculture and Horticulture Development Board (AHDB)	<p>Nature of interest: Independent sector board member for AHDB Beef and Lamb</p> <p>Financial: yes (expenses reimbursed and honoraria received). <i>Amount received per annum over £5,000:</i> yes</p> <p>Subject matter: governance issues and providing insights from a public health nutrition perspective</p> <p>Dates: Board member: April 2014 to present</p>		
	Dementia UK Cornwall	<p>Nature of interest: Vice chair</p> <p>Financial: no</p> <p>Subject matter: voluntary fundraising</p> <p>Dates: May 2013 to June 2016</p>		
	Musgrave Group	<p>Nature of interest: Consultancy and vice chair at meeting</p> <p>Financial: yes, fee received, travel and subsistence reimbursed (<i>Amount received per annum over £5,000:</i> no);</p> <p>Subject matter: strategic issues and providing insights from a public health nutrition perspective</p> <p>Dates: May 2015 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
		<p>Nature of interest: Trustee and scientific governor</p> <p>Financial: yes, travel and subsistence reimbursed (Amount received per annum over £5,000: no);</p> <p>Subject matter: governance issues and providing insights from a public health nutrition perspective</p> <p>Dates: May 2011 to present</p>		
Professor Paul Haggarty	Café Direct	<p>Nature of interest: Shareholder</p> <p>Financial: Yes (shareholdings). <i>Value of shares over £5,000:</i> No</p> <p>Subject matter: Fairtrade coffee and tea</p> <p>Dates: 2014 to 2017</p>	Scottish Government	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research on food and health</p> <p>Dates: 2011 to 2016</p>
	Biotechnology and Biological Sciences Research Council	<p>Nature of interest: Chair</p> <p>Financial: Yes (attendance fee received, travel/subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Bioscience for Health Strategy Advisory Panel</p> <p>Dates: 2015 to 2017</p>	Scottish Government	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Scottish Government (RESAS) funded research programme on food and health</p> <p>Dates: 2016 to 2021</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Biotechnology and Biological Sciences Research Council	<p>Nature of interest: Panel Member</p> <p>Financial: Yes (travel/subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Commissioning Panel for ESRC/BBSRC Biosocial Centres for Doctoral Training</p> <p>Dates: 2016 to 2018</p>	Economic and Social Research Council and Biotechnology and Biological Sciences Research Council	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research project on early life factors, epigenetics and cognition</p> <p>Dates: 2015 to 2018</p>
	EU Joint Programming Initiative Evaluation Panel	<p>Nature of interest: Panel Chair</p> <p>Financial: Yes (travel/subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: EU Joint Programming Initiative Evaluation Panel: "A Healthy Diet for a Healthy Life: Biomarkers"</p> <p>Dates: 2016 only</p>	Aberdeen Gates Trust (medical charity)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research project on nutrition, epigenetics and breast cancer susceptibility</p> <p>Dates: 2008 to 2018</p>
	Biotechnology and Biological Sciences Research Council	<p>Nature of interest: Invited UK delegate</p> <p>Financial: Yes (travel/subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: BBSRC delegation to Nepal to discuss UK/international research collaboration on Nutrition and Global Health</p> <p>Dates: July 2017</p>	Friends of Anchor (medical charity)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Pilot study on epigenetics and breast cancer susceptibility</p> <p>Dates: 2015 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			NHS Endowments & The Pathological society	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: A Pilot Study of the Role of Carnitine Palmitoyltransferase-1 in the Progression of Breast Cancer</p> <p>Dates: 2017 to 2018</p>
			Humana Press / Springer	<p>Nature of interest: Book editor</p> <p>Financial: Yes (honorarium received paid into research funds). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Editor of 'Population Epigenetics' as part of the <i>Methods in Molecular Biology</i> series.</p> <p>Dates: 2016</p>
			Bergen Research Foundation	<p>Nature of interest: Member of grant panel.</p> <p>Financial: Yes (honoraria received paid into research funds, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Grant application review</p> <p>Dates: August 2017</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Timothy Key	Vegetarian Society	<p>Nature of interest: Member</p> <p>Financial: No</p> <p>Subject matter: None</p> <p>Dates: 1977 to present</p>	Wellcome Trust	<p>Nature of interest: Research project grant</p> <p>Financial: Yes (research funding to the University of Oxford). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Epidemiological studies of meat, dairy products and health</p> <p>Dates: June 2017 to present</p>
	Vegan Society	<p>Nature of interest: Member</p> <p>Financial: No</p> <p>Subject matter: None</p> <p>Dates: 1977 to present</p>		
Professor Susan Lanham-New	D3TEX Ltd	<p>Nature of interest: Research Director</p> <p>Financial: Yes (shareholdings). <i>Value of shares over £5,000:</i> No</p> <p>Subject matter: Develop an effective and cost-efficient textile-based solution to help combat vitamin D deficiency in veiled women</p> <p>Dates: 2007 to present</p>	Ministry of Defence	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Vitamin D research for prevention of stress fractures in the Royal Marines</p> <p>Dates: 2014 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	The National Dairy Council	<p>Nature of interest: Research Director</p> <p>Financial: Yes (shareholdings). <i>Value of shares over £5,000:</i> No</p> <p>Subject matter: Conference talk on nutrition and bone health</p> <p>Dates: 2017</p>	European Union	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Vitamin D research ODIN project</p> <p>Dates: 2014 to 2018</p>
			Ministry of Defence	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Vitamin D research for optimising health in British Submariners</p> <p>Dates: 2014 to present</p>
			Higher Education Funding Council	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Nutrition and exercise strategies for healthy ageing</p> <p>Dates: 2017 to 2018</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Julie Lovegrove	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Chair (since 2017) and Member (since 2016) of ILSI Europe Qualitative Fat Intake Expert Group on 'Update on Health Effects of Different Dietary Saturated Fats'</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Health effects of saturated fats</p> <p>Dates: Member : November 2016 to present Chair: May 2017 to present</p>	British Heart Foundation	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: The physiological importance and integration of receptor-mediated inhibitory mechanisms in platelets in health and disease</p> <p>Dates: 2015 to 2020</p>
	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Member of ILSI Europe Expert Group on 'Efficacy of dietary interventions on metabolic syndrome';</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Efficacy of dietary interventions on metabolic syndrome</p> <p>Dates: November 2014 to present</p>	Barham Benevolent Foundation	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Vitamin D enrichment of milk: acute human intervention study</p> <p>Dates: 2013 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	The Dairy Council	<p>Nature of interest: Presentations at conferences</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dairy and cardiovascular disease risk</p> <p>Dates: March/June 2017</p>	Medical Research Council	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Reducing cardiovascular disease risk through replacement of saturated fat in milk and dairy products</p> <p>Dates: 2013 to 2016</p>
			Biotechnology and Biological Sciences Research Council (BBSRC)	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research into saturated fat and lipid markers of CVD risk</p> <p>Dates: June 2017 to present</p>
			Biotechnology and Biological Sciences Research Council (BBSRC)	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research into the impact of dietary intake on bile acids as biomarkers of health and CVD risk.</p> <p>Dates: May 2017 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Biotechnology and Biological Sciences Research Council (BBSRC)	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research into circulating fatty acids as biomarkers of health and disease</p> <p>Dates: August 2017 to present</p>
			AHDB/NEXUS	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research into dietary patterns, nutrient intake and CVD risk factors</p> <p>Dates: June 2017 – June 2018</p>
Professor Ian Macdonald	Nature Publishing Group	<p>Nature of interest: Editor International Journal of Obesity</p> <p>Financial: Yes (honorary received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Editing the journal</p> <p>Dates: 2005 to present</p>	Mars Incorporated	<p>Nature of interest: Presence on Mars Scientific Advisory Council as a Waltham Centre for Pet Nutrition research advisor</p> <p>Financial: Yes (honorary received, paid to University of Nottingham). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Advice on nutrition research</p> <p>Dates: 2014 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Unilever	<p>Nature of interest: University lead in strategic link with Unilever</p> <p>Financial: Yes (University of Nottingham receives PhD student and research project funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research</p> <p>Dates: 2014 to present</p>
			Nestle Research Center	<p>Nature of interest: Consultancy for Nutrition in the Life Cycle research and Member of the Health Benefits Board to review research proposals</p> <p>Financial: Yes (travel and accommodation reimbursed. Honorarium paid to the University of Nottingham). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Advice on research plans to study Nutrition through the lifecycle, review human nutrition research protocols</p> <p>Date December 2015 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Mars Incorporated-Waltham Centre for Pet Nutrition	<p>Nature of Interest: Peer-review of pet nutrition research projects</p> <p>Financial: Yes (honorary received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Pet nutrition research</p> <p>Date: 2015 to present</p>	Unilever	<p>Nature of interest: Scientific adviser to Unilever ethical review process</p> <p>Financial: Yes (honorary will be paid to University of Nottingham). <i>Amount received per annum over £5,000:</i> no work has yet been carried out</p> <p>Subject matter: review of ethical submissions for human research</p> <p>Dates: 2015 to 2016</p>
	Mars UK/Europe	<p>Nature of Interest: Member of Nutrition Advisory Board, and Health and Wellbeing Committee</p> <p>Financial: Yes (travel and subsistence costs reimbursed. Honorary paid to the University of Nottingham). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Expert advice on human nutrition and on broader aspects of Health and Wellbeing</p> <p>Date: October 2015 to present</p>	Mars Incorporated, Technology Strategy Board (Innovate UK) and BBSRC	<p>Nature of interest: Research project grant</p> <p>Financial: Yes (BBSRC research funding to the University of Nottingham). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Dietary carbohydrates</p> <p>Dates: 2014 to 2017</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Member of Dietary Carbohydrates Task Force</p> <p>Financial: Yes (economy travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Link between dietary carbohydrates and health</p> <p>Date: July 2015 to present</p>		
	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Member of expert group on 'Efficacy Markers of Diabetes Risk'</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Markers of insulin resistance and sensitivity</p> <p>Date: Late 2015 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Member of expert group on ‘Carbohydrate-Based Recommendations as a Basis for Dietary Guidelines: A Scientific Review’</p> <p>Financial: Yes (travel and subsistence reimbursed, and a fee paid when the report was complete). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Review of scientific basis of current dietary guidelines on carbohydrates</p> <p>Date: Late 2015 to present</p>		
	Ikea	<p>Nature of interest: Member of Science and Health Committee</p> <p>Financial: Yes (travel and subsistence costs reimbursed. Honorarium paid to the University of Nottingham. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Expert advice on food, lifestyle and health</p> <p>Date: October 2015 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	World Sugar Research Organisation (WSRO)	<p>Nature of interest: Speaker at WSRO conference</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Sugars and health</p> <p>Dates: June 2016</p>		
Professor Harry McArdle	European Food Safety Authority	<p>Nature of interest: Panel member</p> <p>Financial: Yes (honoraria received, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Member of Dietetic Products, Nutrition and Allergies Panel (NDA), and working groups on Health Claims, Novel Foods, and DRVs</p> <p>Dates: June 2015 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Dr David Mela	Unilever	<p>Nature of interest: Employee</p> <p>Financial: Yes (shareholdings). <i>Value of shares over £5,000:</i> Yes</p> <p>Subject matter: N/A</p> <p>Dates: 2005 to present</p>	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Unilever representative on Eating Behavior & Energy Balance Task Force (and Task Force Chair, 2013 to 2017), and Dietary Carbohydrates Task Force (Task Force Vice-Chair, 2014-present)</p> <p>Member of ILSI Europe Expert Groups:</p> <ul style="list-style-type: none"> • “Carbohydrate-Based Recommendations as a Basis for Dietary Guidelines: A Scientific Review” (Dates: 2015 to 2017) • “Characterisation of and Criteria for Glycaemic Exposure Markers in the Non-diabetic Population” (Dates: 2014 to present) • “Physiological and Behavioural Adaptation to Dietary Enhancement of Satiety: Evidence and Timeframes” (Dates: 2015 to present) • “Physical-Chemical Properties of Dietary Fibre Relevant to Appetite-Related Mechanisms and Outcomes” (Dates: 2014 to present) <p>Financial: No</p> <p>Subject matter: see above (Nature of Interest)</p> <p>Dates: see above (Nature of interest)</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Unilever / University of Amsterdam	<p>Nature of interest: Member of project planning group for research collaboration between Unilever and the University of Amsterdam.</p> <p>Financial: No</p> <p>Subject matter: "Quantifying the impact of dietary approaches for the prevention of diabetes"</p> <p>Dates: 2015 to present</p>
Professor Ken Ong	International Life Sciences Institute, Europe	<p>Nature of interest: Chair, Expert advisory group</p> <p>Financial: Yes (honoraria received, travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Early growth velocity and risk of metabolic disorders later in life</p> <p>Dates: 2013 to 2017 (completed)</p>	Mead Johnson Nutrition	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding to the University of Cambridge). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Discovery of biomarkers for infant nutrition</p> <p>Dates: 2009 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Haymarket	<p>Nature of interest: Book editor</p> <p>Financial: Yes (honoraria received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: European Society for Paediatric Endocrinology <i>Yearbook of Paediatric Endocrinology</i></p> <p>Dates: 2015 to present</p>	<p>Biotechnology and Biological Sciences Research Council (BBSRC) with Danone Nutricia Research and Mead Johnson Nutrition as collaborating partners</p>	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding to the University of Cambridge). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Biomarkers for infant nutrition</p> <p>Dates: 2017 to present</p>
	Pfizer Ltd	<p>Nature of interest: Member, KIGS steering committee</p> <p>Financial: Yes (honoraria received – paid to University of Cambridge, travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Use of the KIGS database to monitor growth hormone treatment</p> <p>Dates: 2013 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Nestle Nutrition Institute	<p>Nature of interest: Workshop chair and presenter</p> <p>Financial: Yes (honoraria received, travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Relevance of infant feeding to long-term health outcomes</p> <p>Dates: 2016 (completed)</p>		
	Nesctec Ltd	<p>Nature of interest: Consultancy</p> <p>Financial: Yes (honoraria received, travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Composition of human milk.</p> <p>Dates: 2017 (completed)</p>		
Mrs Gemma Paramor	None	N/A	None	N/A

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Hilary Powers	World Cancer Research Fund	<p>Nature of interest: Deputy chair WCRF Continuous Update Panel</p> <p>Financial: Yes (honoraria received, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: diet and cancer</p> <p>Dates: 2012 to date</p>		
	Tropical Health Education Trust	<p>Nature of interest: Consultancy</p> <p>Financial: Yes (fee received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Human nutrition capacity building in Zambia</p> <p>Dates: January to October 2017</p>	Kellogg's	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Breakfast and energy expenditure</p> <p>Dates: 2016</p>
Professor Ann Prentice (As Director of MRC Elsie Widdowson Laboratory Prof Prentice has responsibility for institutional interests)	Shenyang Medical College, PR of China	<p>Nature of Interest: Appointment of Honorary Professor</p> <p>Financial: None</p> <p>Subject Matter: N/A</p> <p>Dates: 1995 to present</p>	HS Pharma	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: N/A</p> <p>Dates: 2013 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	University of Witwatersrand, South Africa	<p>Nature of interest: Appointment of Honorary Professor</p> <p>Financial: No</p> <p>Subject matter: N/A</p> <p>Dates: 2013 to present</p>	British Medical Association	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Dietary determinants/cardiovascular project</p> <p>Dates: 2013 to 2017</p>
	University of Surrey	<p>Nature of interest: Appointment of Honorary Doctor</p> <p>Financial: No</p> <p>Subject matter: N/A</p> <p>Dates: 2014 to present</p>	Shield Therapeutics	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Iron deficiency anaemia</p> <p>Dates: 2012 to 2016</p>
	Rank Prize Funds	<p>Nature of interest: Committee member</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Grant awards</p> <p>Dates: 2015 to present</p>	Weight Watchers International	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Pragmatic weight loss trial (NIHR)</p> <p>Dates: 2012 to 2016</p>
	Nestle Foundation	<p>Nature of interest: Council Member</p> <p>Financial: Yes (honoraria received, travel expenses reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Grant awards</p> <p>Dates: 2015 to present</p>	Bill & Melinda Gates Foundation	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Improving fetal growth rates in developing countries</p> <p>Dates: 2014 - 2017</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	University of Southampton	<p>Nature of interest: Honorary appointment of Visiting Professor</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: N/A</p> <p>Dates: 2015 to present</p>	Bill & Melinda Gates	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Nature of interest: Developing brain function-for-age curves in Gambian and UK infants</p> <p>Dates: 2015 to 2017</p>
	National Academies of Science, Engineering and Medicine, Food and Nutrition Board	<p>Nature of interest: Member of Planning Committee for Harmonization of Methodological Approaches to Nutrient Intake Recommendations</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Planning Committee for Workshop on Harmonization of Methodological Approaches to Nutrient Intake Recommendations</p> <p>Dates: March 2017 to present</p>	Public Health England	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: National Diet and Nutrition Survey Y5-Y10</p> <p>Dates: 2012 to 2018</p>
	University of Cambridge	<p>Nature of interest: Appointment of Honorary Professor</p> <p>Financial: No</p> <p>Subject matter: N/A</p> <p>Dates: 2017 to date</p>	DRINC (BBSRC)	<p>Nature of interest: Research</p> <p>Financial: yes, research funding (<i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: biomarkers and infant nutrition</p> <p>Dates: 2015 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Agilent	<p>Nature of interest: Research</p> <p>Financial: Yes, grant to purchase equipment, travel reimbursement. <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Mass spectrometry equipment</p> <p>Dates: 2015 to 2018</p>
			Soremartec	<p>Nature of interest: Research</p> <p>Financial: Yes (grant to purchase equipment, travel reimbursement). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Bioavailability of polyphenols and effects on vascular function</p> <p>Dates: 2015 to 2017</p>
			Institut d'Investigacio Sanitaria Pere Virgili	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: OBEMAT2 Clinical and metabolic efficacy of motivational approach, coordinated between primary care and the clinical health services for childhood obesity: Randomized Clinical Trial (stable isotope measures)</p> <p>Dates: 2017 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Ministry of Defence	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Stable isotope measures</p> <p>Dates: 2017 to 2018</p>
			Umea University Sweden	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: OTIS – complementary feeding study in infants (Stable isotope measures)</p> <p>Dates: 2016 to 2018</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Monique Raats	Woodhead Publishing Ltd, now Elsevier	<p>Nature of interest: Book editor</p> <p>Financial: Yes (royalties related to "Raats MM, de Groot CPGM, van Staveren WA (Eds.) (2008) Food for the ageing population. Woodhead Publishing Limited" and Raats M, De Groot L, van Asselt D Food for the Aging Population, 2nd Edition Woodhead Publishing Limited). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Food for the ageing population</p> <p>Dates: 2009 to present</p>	Medical Research Council	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Front of pack food labelling: impact on consumer choice</p> <p>Dates: 2012 to 2016</p>
	Choices International	<p>Nature of interest: Member of the European Scientific Committee for the Choices programme</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Front of pack food labelling</p> <p>Dates: 2010 to present</p>	European Commission (FP7)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Reduction of disease risk claims on food and drinks</p> <p>Dates: 2013 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Baker Street Area Neighbourhood Association	<p>Nature of interest: Member of the management committee</p> <p>Financial: No</p> <p>Subject matter: Community development in Reading, UK</p> <p>Dates: 2014 to present</p>	Food Standards Agency	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Preferences of those with food allergies and/or intolerances when eating out</p> <p>Dates: 2014 to 2016</p>
	Campden BRI (Chipping Campden) Limited	<p>Nature of interest: Speaker at the Food & Drink Labelling Update and the Sensory and Consumer MIG</p> <p>Financial: Yes (travel and subsistence reimbursed) <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Food labelling, food-related health and wellbeing across the lifespan</p> <p>Dates: 2015 and 2016</p>	European Commission (FP7)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Role of health-related claims and symbols in consumer behaviour</p> <p>Dates: 2012 to 2016</p>
	European Technology Platform on Food for Life	<p>Nature of interest: Member</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Research funding prioritisation in the area of consumer behaviour</p> <p>Dates: 2015-present</p>	European Commission (H2020)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding) <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Fostering “Responsible Research and Innovation” (RRI) uptake in current research and innovations system</p> <p>Dates: 2016 to 2018</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Food Standards Agency	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Systematic review of the relative proportion of foodborne disease caused by faults in food preparation or handling within the home</p> <p>Dates: 2016 to 2017</p>
			Optimum Health Clinic Foundation	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: The role of integrative medicine for chronic fatigue syndrome and myalgic encephalomyelitis</p> <p>Dates: 2015 to 2018</p>
			European Commission (H2020)	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research infrastructure on consumer health and food intake for e-science with linked data sharing</p> <p>Dates: 2015 to 2018</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Safefood	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding) <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: The impact of cooking and related food skills on healthiness of diets</p> <p>Dates: 2014 to 2016</p>
			Safefood	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Investigation into the balance of healthy versus less-healthy food promotions among Republic of Ireland food retailers</p> <p>Dates: 2016 to 2017</p>
			Safefood	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: 'Do nutrient and health claims have an impact on the perceived healthiness and the amount of food/meals eaten by adults on the Island of Ireland?'</p> <p>Dates: 2016 to 2017</p>

Member	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
	Organisation	Details	Organisation	Details
Professor Angus Walls	GlaxoSmithKline	<p>Nature of interest: Consultancy</p> <p>Financial: Yes (honoraria received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Oral healthcare for older people</p> <p>Dates: 2014 to present</p>	GlaxoSmithKline	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding jointly with University of Sheffield). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Attitudes of older consumers to Oral Health Care a qualitative study</p> <p>Dates: 2014 to 2016</p>
	Oral and Dental Research Trust	<p>Nature of interest: Director and Chair</p> <p>Financial: No</p> <p>Subject matter: Charity that funds oral and dental research</p> <p>Dates: 2013 to present</p>	GlaxoSmithKline	<p>Nature of interest: BBSRC CASE studentship sponsored by GlaxoSmithKline</p> <p>Financial: Yes (student funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Barriers to achieving a high standard of personal oral health care</p> <p>Dates: 2016 to 2019</p>
Dr Stella Walsh	Kraft-Heinz Company	<p>Nature of interest: Consumer member</p> <p>Financial: Yes (honoraria received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Advising on consumer trends</p> <p>Dates: 2013 to end of 2016</p>	None	N/A

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	National Federation of Consumers	<p>Nature of interest: Consumer member</p> <p>Financial: No</p> <p>Subject matter: Member of food network, responses made to government consultations on food issue</p> <p>Dates: 1980 to present</p>		
Professor Charlotte Wright	United Nations Children's Fund (UNICEF)	<p>Nature of interest: Chair of UNICEF UK group to establish learning objectives on breastfeeding and infant feeding</p> <p>Financial: No</p> <p>Subject matter: To establish learning objectives on breastfeeding and infant feeding in the first year of life for medical students and junior doctors.</p> <p>Dates: 2017 to present</p>	Medical Research Council	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: The role of weight gain in the identification of under and over nutrition</p> <p>Dates: 2012 to 2016</p>
			Chief Scientists Office, Scotland	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: The role of weight gain in the identification of under and over nutrition</p> <p>Dates: 2013 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Yorkhill Children's Charity	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: The role of weight gain in the identification of under and over nutrition</p> <p>Dates: 2013 to 2016</p>
			Glasgow Children's Hospital Charity / Scottish Government	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5000:</i> Yes</p> <p>Subject matter: Investigation Of The Incidence, Demographics And Nutritional Profile Of Childhood Vitamin D Deficiency In Greater Glasgow And Clyde</p> <p>Dates: 2016 to 2018</p>
			National Institute for Health Research	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5000:</i> Yes</p> <p>Subject matter: Evaluation of the Healthy Start Voucher Scheme in UK: a natural experiment using the Growing Up in Scotland record linkage study and the Infant Feeding Survey.</p> <p>Dates: 2015 to 2017</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Ian Young	American Association for Clinical Chemistry	<p>Nature of interest: Guest editor for special issue of Clinical Chemistry</p> <p>Financial: No</p> <p>Subject matter: Editing of a special issue on obesity, including its relationship with dietary fats intake</p> <p>Dates: March 2017 to present</p>	None	N/A

SACN Subgroup on Maternal and Child Nutrition (SMCN)

		PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member		Organisation	Details	Organisation	Details
Professor Annie Anderson		Bowel Cancer UK	<p>Nature of interest: Member, advisory board</p> <p>Financial: No</p> <p>Subject matter: Bowel cancer</p> <p>Dates: 2006 to present</p>	EU Framework 6	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Social innovation to improve physical activity and sedentary behaviour through elite European Football Clubs</p> <p>Dates: 2013 to 2018</p>
		Scottish Cancer Foundation	<p>Nature of interest: Member, Board of Directors</p> <p>Financial: No</p> <p>Subject matter: Cancer</p> <p>Dates: 2006 to present</p>	Scottish Government	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received) <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: A pilot study of the feasibility and patient-related outcomes of performing a walking intervention in patients undergoing treatment for rectal cancer</p> <p>Dates: 2014 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Scottish Cancer Prevention Network	<p>Nature of interest: Co-director</p> <p>Financial: No</p> <p>Subject matter: Cancer prevention</p> <p>Dates: 2009 to present</p>	National Institute for Health Research	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Long term weight loss trajectories in participants in a randomised controlled trial of a weight management and healthy lifestyle programme for men delivered through professional football clubs.</p> <p>Dates: 2015 to 2016</p>
	Breast Cancer Now (Scotland)	<p>Nature of interest: Breast cancer NOW policy advisor</p> <p>Financial: No</p> <p>Subject matter: Breast cancer</p> <p>Dates: 2012 to present</p>	Surgical Endowment Funds	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Lifestyle in patients at increased risk of colorectal cancer</p> <p>Dates: 2014 to 2016</p>
	First Steps Nutrition Trust	<p>Nature of interest: Patron</p> <p>Financial: No</p> <p>Subject matter: Maternal and child nutrition</p> <p>Dates: 2015 to present</p>	Scottish Government	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: A feasibility study to assess the impact of a lifestyle intervention in people attending family history clinics with an increased risk of colorectal or breast cancer</p> <p>Dates: 2015 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	MRC-NPRI Scientific Committee of National Prevention Research Initiative	<p>Nature of interest: Chair</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Nutrition research</p> <p>Dates: 2004 to present</p>	NHS Health Scotland	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Process evaluation of the implementation of universal free school meals</p> <p>Dates: 2014 to 2016</p>
	Scottish Government	<p>Nature of interest: Advisor</p> <p>Financial: No</p> <p>Subject matter: Review of infant feeding survey</p> <p>Dates: 2015 to present</p>	Scottish Government	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Stratifying risk of colorectal disease in order to direct the use of colonoscopy in symptomatic patients</p> <p>Dates: 2015 to 2017</p>
	Population Health Services research Committee	<p>Nature of interest: Member</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Research awards</p> <p>Dates: 2015 to present</p>	NHS Tayside	<p>Nature of interest: Research grant</p> <p>Financial: Yes (research funding received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Obesity and pregnancy</p> <p>Dates: 2016</p>
	Health Services and Population Health Committee, Scottish Government	<p>Nature of interest: Member</p> <p>Financial: Yes (travel reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Population health</p> <p>Dates: 2015 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Nutrition & Dietetics (Dieticians Association of Australia)	Nature of interest: Editorial Board member Financial: No Subject matter: Editorial Dates: 2014 to present		
	Health Promotion Journal of Australia	Nature of interest: Editorial Board member Financial: No Subject matter: Editorial Dates: 2013 to present		
	International Journal of Behaviour, Nutrition and Physical Activity	Nature of interest: Editorial Board member Financial: No Subject matter: Editorial Dates: 2007 to present		
	Journal of Human Nutrition and Dietetics	Nature of interest: Editorial Board member Financial: No Subject matter: Editorial Dates: 1992 to present		

		PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member		Organisation	Details	Organisation	Details
Professor Jackson	Alan	Nutrition Institute for Health Research, Department of Health: Nutrition Research	<p>Nature of interest: Director for nutrition research</p> <p>Financial: Yes (research income, salary, administrative support received). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Health research</p> <p>Dates: 2015 to 2016</p>	Gilead Sciences Ltd	<p>Nature of interest: Son in employment</p> <p>Financial: No</p> <p>Subject matter: N/A</p> <p>Dates: On-going</p>
		Association for Nutrition	<p>Nature of interest: President/Chair/Trustee</p> <p>Financial: No</p> <p>Subject matter: Professional regulator</p> <p>Dates: 2015 to present</p>	Department for International Development	<p>Nature of interest: Research</p> <p>Financial: Yes (research grant). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Research grant through PATH for development of educational tools</p> <p>Dates: 2014 to 2017</p>
		World Cancer Research Fund	<p>Nature of interest: Chair of the continuous update committee</p> <p>Financial: Yes (honoraria received, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Health research</p> <p>Dates: 2008 to 2016</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	World Health Organization	<p>Nature of interest: Nutrition Topic Advisory Group: Chair of guideline development group</p> <p>Financial: Yes (travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Obesity in childhood and adolescence</p> <p>Dates: 2015 to present</p>		
	Hugh Sinclair Trust, Reading University	<p>Nature of interest: Member of Trust Advisory Board</p> <p>Financial: No</p> <p>Subject matter: N/A</p> <p>Dates: 2015 to present</p>		
	International Malnutrition Task Force	<p>Nature of interest: Chair</p> <p>Financial: No</p> <p>Subject matter: Malnutrition</p> <p>Dates: 2015 to present</p>		

Member	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
	Organisation	Details	Organisation	Details
Professor Mairead Kiely			European Commission	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research on effects of bioactive constituents on cardiovascular health</p> <p>Dates: 2012 to 2016</p>
			European Commission	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: ODIN: develop effective, safe & sustainable food-based solutions to eradicate vitamin D deficiency & improve health across the life cycle</p> <p>Dates: 2013 to 2017</p>
			Irish Government Department of Agriculture and Food	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research on effects of polyphenols on cardiovascular disease</p> <p>Dates: 2013 to 2017</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			National Children's Research Centre, Dublin, Ireland	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Cork BASELINE Birth Cohort;</p> <p>Dates: 2008 to 2016</p>
			Science Foundation Ireland	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: PINPOINT Personalised nutrition for the preterm infant</p> <p>Dates: 2015 to 2018</p>
			Danone Early Life Nutrition	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Research on effects of iron on neurocognitive outcomes in young children</p> <p>Dates: 2012 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Danone Early Life Nutrition	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: PINPOINT Personalised nutrition for the preterm infant</p> <p>Dates: 2015 to 2018</p>
			Mead Johnson Nutrition	<p>Nature of interest: Research</p> <p>Financial: Yes (PhD student funding and research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: COMBINE Cork Nutrition and Microbiome Maternal-Infant Cohort Study</p> <p>Dates: 2015 to 2020</p>
			Fresenius Kabi	<p>Nature of interest: Research</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: PINPOINT Personalised nutrition for the preterm infant</p> <p>Dates: 2015 to 2018</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			Crème Global Nutrition	Nature of interest: Research Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes Subject matter: PINPOINT Personalised nutrition for the preterm infant Dates: 2015 to 2018
Professor Robinson	Sian	First Steps Nutrition Trust	None	N/A
	Biotechnology and Biological Sciences Research Council	Nature of interest: Panel member Financial: Yes (honoraria received). <i>Amount received per annum over £5,000:</i> No Subject matter: Grant awards Dates: 2016 onwards		

SACN Saturated Fats Working Group

Member	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
	Organisation	Details	Organisation	Details
Dr Jules Griffin	GlaxoSmithKline	<p>Nature of interest: Shareholder</p> <p>Financial: Yes (shareholdings). <i>Value of shares over £5,000:</i> No</p> <p>Subject matter: N/A</p> <p>Dates: 2015 to 2016</p>	National Institute of Health	<p>Nature of interest: Grant funding</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Investigating mitotoxicology</p> <p>Dates: 2015 to 2016</p>
			European Union	<p>Nature of interest: Grant funding</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Developing bioinformatics tools for metabolomics</p> <p>Dates: 2015 to 2016</p>
			Biotechnology and Biological Sciences Research Council	<p>Nature of interest: Grant funding</p> <p>Financial: Yes (research funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Developing bioinformatics tools for metabolomics</p> <p>Dates: 2015 to 2016</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
			GlaxoSmithKline	<p>Nature of interest: Grant funding</p> <p>Financial: Yes (PhD student funding/research funding paid to University). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: Hypoxia and mitochondrial toxicity</p> <p>Dates: March 2017 to present</p>

Joint SACN/COT¹ Working Group on the timing of introduction of allergenic foods into the infant diet

Member	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
	Organisation	Details	Organisation	Details
Professor Mike Kelly	Slimming World	<p>Nature of interest: Consultancy</p> <p>Financial: Yes (honoraria received, travel and subsistence reimbursed). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Advising on general approaches to obesity prevention</p> <p>Dates: 2015 to present</p>		
Dr Anthony Williams	None	N/A	None	N/A

¹ Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT)

Joint SACN / NHS England / Diabetes UK Working Group on low carbohydrate / high fat diets for people with type 2 diabetes

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Dr Pamela Dyson	Diabetes UK	<p>Nature of interest: Co-chair of nutrition working group</p> <p>Financial: No</p> <p>Subject matter: Revising and updating dietary guidelines for management of diabetes</p> <p>Dates: 2015 to date</p>	None	N/A
	Oxford Health Alliance	<p>Nature of interest: Voluntary CEO of registered charity</p> <p>Financial: No</p> <p>Subject matter: Preventing non-communicable disease</p> <p>Dates: 2010 to date</p>		
	Roche	<p>Nature of interest: Consultancy</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Developing an on-line carbohydrate counting module</p> <p>Dates: 2008 only</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Medicine Matter Diabetes	<p>Nature of interest: Consultancy</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Producing dietary guidelines for management of diabetes for GPs education programme</p> <p>Dates: 2017</p>		
	Novo Nordisk	<p>Nature of interest: Fee paid for speaking at conference</p> <p>Financial: Yes (honoraria and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2013-2016</p>		
	John Wiley	<p>Nature of interest: Editorial board fee for Practical Diabetes/writing and editing book/writing commissioned articles</p> <p>Financial: Yes (honoraria and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2014 to date</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Oxford University Press	<p>Nature of interest: Royalties for book</p> <p>Financial: Yes (royalties). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2014 to date</p>		
	Janssen	<p>Nature of interest: Fee paid for speaking at conference</p> <p>Financial: Yes (honoraria and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2015</p>		
	Omnia Med	<p>Nature of interest: Fee paid for speaking at conference</p> <p>Financial: Yes (honoraria and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2016 only</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Lilly	<p>Nature of interest: Fee paid for speaking at conference</p> <p>Financial: Yes (honoraria and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary management of diabetes</p> <p>Dates: 2017 only</p>		
Professor Nita Forouhi	International Life Sciences Institute (ILSI) Europe	<p>Nature of interest: Member of expert group on 'Update on health effects of different dietary saturated fats'</p> <p>Financial: No (travel and subsistence will be reimbursed if required). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: systematic review of different dietary saturated fats and risk factors for cardiometabolic health</p> <p>Date: March 2017 to present</p>	MRC Epidemiology Unit	<p>Nature of interest: Core funding for programme of research in nutritional epidemiology</p> <p>Financial: Yes (Research funding; PhD student funding). <i>Amount received per annum over £5,000:</i> Yes</p> <p>Subject matter: understanding the links between diet and health; using dietary assessment methods with greater precision, including use of objective biomarkers of nutrition, understanding causality and gene-diet interactions.</p> <p>Dates: 2005 to present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Diabetes UK	<p>Nature of interest: Recipient of Rank Nutrition Lecture Award</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: delivered keynote lecture on dietary priorities for the prevention of type 2 diabetes</p> <p>Date: March 2017</p>		
	PHE	<p>Nature of interest: Honorary Consultant Public Health Physician</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Honorary role</p> <p>Dates: 2013 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Public Health Genomic Foundation (University of Cambridge)	<p>Nature of interest: Member of the Board of Trustees</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Duties as Board of Trustees include oversight of governance structures, including financial and ethical issues</p> <p>Dates: Nov 2017 to present</p>		
	Diabetes UK	<p>Nature of interest: DUK Research Committee member</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Expert adviser on reviews of grants</p> <p>Dates: 2012 to 2016</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Diabetic Medicine - Journal	<p>Nature of interest: Associate Editor of journal</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: review of and advice on scientific articles submitted to the journal</p> <p>Dates: 2013 to present</p>		
	Diabetes UK	<p>Nature of interest: Expert adviser to Diabetes UK dietary guidelines and position statements</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Expert adviser on guidelines</p> <p>Dates: 2016 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	British Medical Journal	<p>Nature of interest: Series co-lead for 12 articles for the BMJ. The publication (open access) and launch of these articles is sponsored for the BMJ by Swiss Re.</p> <p>Financial: No for BMJ series co-lead role. Yes for travel/accommodation for 2 days for series launch meeting. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: critical review of the science and politics of food and health. Co-lead of series, and lead author of 2 papers (dietary fats; dietary management of diabetes)</p> <p>Dates: 2017 to present</p>		
	NICE	<p>Nature of interest: Expert adviser for the NICE Centre for Guidelines (CfG)</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Expert adviser on updating guidelines, participation in committees as a topic specialist member, performing peer reviews.</p> <p>Dates: 19/12/2017 to 19/12/2020</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	BBC TV	<p>Nature of interest: interview broadcast on BBC2 ‘Trust me I’m a Doctor’</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: I co-led a randomised trial comparing different types of fats and oils and cardiovascular risk, which was covered by the BBC.</p> <p>Dates: June 2017- Jan 2018</p>		
	Gloucestershire Care Services NHS Trust	<p>Nature of interest: Gloucestershire Diabetes Conference. Honorarium for talk to clinical and allied health professionals in one CCG area in England</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Dietary solutions for the prevention of diabetes.</p> <p>Dates: 13 June 2017</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Dr Rachel Pryke	Primary Care Obesity Training Ltd	<p>Nature of interest: Own limited company through which I run obesity training courses and develop training resources</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Obesity education</p> <p>Dates: 2016 to present</p>		
	NICE Fellowship 2015-2018	<p>Nature of interest: Fellowship - ambassadorial role for NICE focusing on obesity and nutrition</p> <p>Financial: No</p> <p>Subject matter: Representative role relating to obesity, nutrition and liver disease.</p> <p>Dates: 2015 to end March 2018</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	WHO Europe	<p>Nature of interest: Development and delivery of obesity training course materials</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Obesity training for primary care audiences</p> <p>Dates: 2015 to 2016</p>		
	NICE	<p>Nature of interest: Member of NICE NAFLD guideline development group and NICE Quality Standards Advisory Committee on liver disease 2016-2017</p> <p>Financial: Yes (travel and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Non-alcoholic fatty liver disease</p> <p>Dates: 2014- 2016</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Journal of Diabetes Nursing Honorarium	<p>Nature of interest: Article</p> <p>Financial: Yes (honorarium). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Article on liver disease</p> <p>Dates: 2016</p>		
	SCOPE/World Obesity	<p>Nature of interest: Clinical Care Committee member</p> <p>Financial: No. <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Educational projects and e-learning development on obesity</p> <p>Dates: 2017 to present</p>		
	Obesity E-learning - IMP	<p>Nature of interest: Authorship of 3 sessions</p> <p>Financial: Yes (honorarium). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: E learning on obesity, raising the topic of weight and child obesity.</p> <p>Dates: 2016 to 2017</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	PHE	<p>Nature of interest: Obesity Priority Prevention Board Committee member</p> <p>Financial: Yes (travel and expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Obesity strategy discussion</p> <p>Dates: 2015 to 2017</p>		
	NEC Primary Care & Public Health	<p>Nature of interest: Conference presentation</p> <p>Financial: Yes (honoraria for presentation). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: two talks on liver Disease and raising topic of weight</p> <p>Dates: 2017</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	PHE	<p>Nature of interest: National Child Measurement Programme Reference Group member (GP representative)</p> <p>Financial: Yes (travel expenses for meeting attendance). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Discussions on childhood obesity strategies and initiatives</p> <p>Dates: 2014 to present</p>		
	Novo Nordisk	<p>Nature of interest: Roundtable on Medical Education conference in Copenhagen</p> <p>Financial: Yes (travel and accommodation expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Medical education on obesity</p> <p>Dates: December 2017</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Professor Roy Taylor	ADIT Conferences Board	<p>Nature of interest: Lectures on the pathophysiology of type 2 diabetes</p> <p>Financial: Yes (expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Pathophysiology and clinical information</p> <p>Dates: 2017 to present</p>	Diabetes UK	<p>Nature of interest: Co-Chief Investigator, Research Grant: Diabetes Remission Clinical Trial.</p> <p>Financial: Yes (awarded to Newcastle University). <i>Amount received per annum over £5,000:</i> Yes (£2.4 million total)</p> <p>Subject matter: This involves study of the effectiveness and underlying mechanisms of reversal of type 2 diabetes by dietary means.</p> <p>Dates: 2014-present</p>
	Novartis	<p>Nature of interest: Non-promotional lectures to doctors</p> <p>Financial: Yes (fees and travel expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: The nature of type 2 diabetes and relationship of DPP4 inhibition to pathogenesis and progression of diabetes.</p> <p>Dates: 2014-2017</p>	Diabetes UK	<p>Nature of interest: Chief Investigator, Research Grant: Reversal of Type 2 Diabetes Upon Return to Normal Eating in Non-obese people (ReTUNE).</p> <p>Financial: Yes. <i>Amount received per annum over £5,000:</i> Yes £500,000 total awarded to Newcastle University</p> <p>Subject matter: This involves study of the personal fat threshold during reversal of type 2 diabetes in non-obese people by calorie restriction. Dates: January 2018-present</p>

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
	Lilly	<p>Nature of interest: Academic</p> <p>Nature of interest: Lectures on the nature of type 2 diabetes and chairing educational meetings</p> <p>Financial: Yes (expenses). <i>Amount received per annum over £5,000:</i> No</p> <p>Subject matter: Academic and clinical information on type 2 diabetes</p> <p>Dates: 2015 to present</p>		
	Diabetes UK	<p>Nature of interest: Chair of Trial steering Group for the DUK funding trial: 'Gestational weight gain, gestational diabetes and pregnancy outcomes. A multi-site randomised controlled interventional study'.</p> <p>Financial: No.</p> <p>Subject matter: evaluation of calorie restriction in pregnancy.</p> <p>Dates: August 2018 to present</p>		

	PERSONAL INTERESTS		NON-PERSONAL INTERESTS	
Member	Organisation	Details	Organisation	Details
Mr Douglas Twenefour	HEALTHSPAN LTD	<p>Nature of Interest: Consultancy</p> <p>Financial: Yes (honorarium). <i>Amount received per annum over £5,000:</i> No (£300).</p> <p>Subject matter: Round table discussion with other experts about dietary management of diabetes</p> <p>Date: 2017 only</p>	Diabetes UK (Current Employer)	<p>Permanent working contract with Diabetes UK as Deputy Head of Care. Diabetes UK has corporate partnerships with various companies listed here https://www.diabetes.org.uk/Get_involved/Corporate/Acknowledgements/</p>
Ms Ruth Waxman	none	n/a	none	n/a