



FOOD & THE PLANET

a symposium of the UCL
Food, Metabolism and
Society Research Domain

The UCL Food, Metabolism and Society Research Domain promotes interdisciplinary approaches addressing the biology and genetics of metabolism, metabolic disease, and the economics and history of global nutrition; and aims to further communication between academics, policy-makers, the food industry, and the public. Its 2018 international symposium, Food and the Planet explores multi-disciplinary solutions to the challenges of food security and sustainability, and the growing global burden of metabolic disease.

21 March 2018
08:30 - 17:30

Kennedy Lecture
Theatre
UCL Institute of
Child Health
30 Guilford St
London
WC1N 1EH



Under symposium themes of Sustainability and Environment; Food Science; Metabolic Disease and the Microbiome; and Metabolism and Deep Time, its speakers will consider key current challenges, including: how science and society can combat the epidemic of metabolic disease and foodborne illness, and counter antimicrobial resistance; how global food systems can move rapidly towards sustainability; and whether science can create food sources that are not land-hungry, water-thirsty, and pollution-heavy.

PROGRAMME

08:30 Registration / Coffee

09:00 WELCOME & SYMPOSIUM OBJECTIVES

Prof Frances Brodsky, Chair of the UCL Food, Metabolism and Society Research Domain and Director, UCL Division of Biosciences

SESSION 1 - SUSTAINABILITY & THE ENVIRONMENT

KEYNOTE

Sir Tim Smit, Eden Project *The vacuum that nature abhors*

Dr Riaz Bhunoo, Global Food Security Programme *Business unusual - a food systems approach for health, sustainability and resilience*

Dr Carole Dalin, UCL Institute for Sustainable Resources *Measuring the environmental sustainability of global food production and trade*

Dr Marco Springmann, Oxford Martin Programme on the Future of Food *Planetary boundaries of the food system: analysing the option space*

Chair: **Dr Richard Pearson**, UCL Centre for Biodiversity and Environment Research

Coffee break

10:55 SESSION 2 - FOOD SCIENCE

Prof Kent Kirshenbaum, NYU *Plant-Based "Meat": Innovating a bloody good burger*

Dr Yemisi Latunde-Dada, King's College London *The role of meat in iron nutrition and metabolism: can it be replaced by edible insects?*

Prof Dorian Fuller, UCL *The archaeology of cooking traditions: the baked versus the boiled at the opposite ends of Eurasia*

Chair: **Prof Barry Smith**, Centre for the Study of the Senses

Lunch break

PROGRAMME

13:15 SESSION 3 – METABOLIC DISEASE AND THE MICROBIOME I

Prof Jennie Brand-Miller, University of Sydney *Which diet for the healthiest planet?*

Prof Kelle Moley, Washington University *The obesity epidemic: could it be an oocyte issue?*

Prof Megan Vaughan, UCL Institute of Advanced Studies *Routes to metabolic disease: insights from older people in Malawi*

Dr Matteo Fumagalli, Imperial College London *Species adaptation to extreme diets*

Chair: Prof Nishi Chaturvedi, UCL MRC Unit of Lifelong Health & Ageing

Coffee break

15:30 SESSION 4 – METABOLIC DISEASE AND THE MICROBIOME II

KEYNOTE

Prof Ian Charles, Quadram Institute *Exploring the microbiome at the Quadram Institute*

Dr Andrew Smith, UCL *The human oral microbiome*

Dr Claire Steves, King's College London *The human microbiome and conditions of ageing: Insights from TwinsUK*

Dr Nick Lesica, UCL *A neuroscientist's view of obesity*

Prof Mike Murphy, University of Cambridge *Mitochondrial redox metabolism in health & disease*

Chair: Dr Celia Caulcott, UCL Innovation & Enterprise

17:00 SESSION 5 – METABOLISM & DEEP TIME

KEYNOTE

Prof Nick Lane, UCL *The Flux Capacitor: Mitochondria, metabolism and disease*

Chair: Prof Mark Thomas, UCL

17:30 Wine reception