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## HNRC Newsletter – January 2014

The latest news from the Human Nutrition Research Centre

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## Nutrition Society Summer Meeting 2013 hosted by Newcastle University



The [Nutrition Society Annual Summer Meeting for 2013](#) was hosted by Newcastle University on 15-18 July. The meeting theme was “Nutrition and Healthy Ageing” with four symposia focussing on:

- Biology of ageing
- Epidemiology of human ageing
- Nutritional modulation of the ageing trajectory
- Public health interventions to enhance healthy ageing

We were honoured to host the inaugural Waterlow Lecture established in memory of Prof John Waterlow FRS former President of the Society. The Waterlow Lecture was given by Professor Rudi Westendorp from Leiden University Medical Centre, The Netherlands on the topic “Vitality Sir, it's vitality!”

The meeting attracted over 300 delegates with talks from more than 30 international speakers. The programme also included Plenary Lectures, Original Communications, as well as a Postgraduate Symposium, the Silver Medal Lecture, a student careers session, a Training & Education workshop and a vibrant evening programme.

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## The opening of the nu-food, Food & Consumer Research Facility



The Nu-Food facility was officially opened by Lord Curry of Kirkharle on Thursday 6 June 2013. These new and improved facilities are the result of a £700,000 refurbishment and provide excellent support for teaching and research in Food, Nutrition and Food Marketing.

The facilities are available to the general public, Schools, Colleges and industry and include a reception, multi-function rooms, culinary training suite and a state-of-the-art sensory laboratory and food handling facility.

For more information please visit the [Agriculture, Food & Rural Development website](#) or contact: [Dr Kirsten Brandt](#) - Senior Lecturer and HNRC Principle Investigator

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## HNRC Research Day and Annual Lecture 2013



HNRC Staff and students presented their recent research at the HNRC Research day on Wednesday 23rd October.

This year's Annual Public Lecture was given by [Dr Ann Prentice](#) (Director at MRC Human Nutrition Research (HNR) Head of the Nutritional Physiology & Biochemistry Department and the Nutrition and Bone Health Group, Cambridge) on "Calcium and vitamin D requirements: dilemmas and uncertainties"

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## British Science Festival



This year the [British Science Festival 2013](#) took place in Newcastle from 7-12 September. The Festival is one of the largest and longest-running European public science events and Newcastle University where the hosts this year.

Members of the HNRC hosted a theatre piece and debates and ran workshops, including:

- [Do I look good in these genes? Perspectives on personalised nutritional advice](#)
- [Save our wild fish stocks](#)

- [Discover DNA](#) – Workshop for the Young People’s Programme for KS2 pupils and schools.

## Recent HNRC publications



Recent publications from the HNRC:

- [Nutritional factors and gender influence age-related DNA methylation in the human rectal mucosa.](#) *Aging Cell* 2013, **12**(1), 148-155. Tapp HS, Commane DM, Bradburn DM, Arasaradnam R, Mathers JC, Johnson IT, Belshaw NJ.
- [Comparison of Methods for Quantification of Global DNA Methylation in Human Cells and Tissues.](#) *PLoS ONE* 2013, **8**(11), e79044. Lisanti S, Omar WAW, Tomaszewski B, De Prins S, Jacobs G, Koppen G, Mathers JC, Langie SAS
- [Towards measurement of the Healthy Ageing Phenotype in lifestyle-based intervention studies.](#) *Maturitas* 2013, **76**(2), 189-199. Lara J, Godfrey A, Evans E, Heaven B, Brown LJE, Barron E, Rochester L, Meyer TD, Mathers JC.
- [School food standards in the UK: implementation and evaluation.](#) *Public Health Nutrition* 2013, **16**(6), 968-981. Adamson A, Spence S, Reed L, Conway R, Palmer A, Stewart E, McBratney J, Carter L, Beattie S, Nelson M.
- [Reducing the cost of dietary assessment: Self-Completed Recall and Analysis of Nutrition for use with children \(SCRAN24\).](#) *Journal of Human Nutrition and Dietetics* 2013, (epub ahead of print). Foster E, Hawkins A, Delve J, Adamson AJ.
- [Front of pack nutrition labelling: are multiple formats a problem for consumers?.](#) *European Journal of Public Health* 2013, (epub ahead of print). Draper AK, Adamson AJ, Clegg S, Malam S, Rigg M, Duncan S.
- [Consequences of Folate Depletion during Development and High Fat Intake from Weaning on Adiposity, Gene Expression and DNA Methylation in Adult Mice.](#) *In: Journal of Developmental Origins of Health and Disease: 7th World Congress on Developmental Origins of Health and Disease.* 2011, Portland, Oregon, USA: Cambridge University Press. Mckay JA, Adriaens M, Xie L, Manus C, Evelo CT, Ford D, Mathers JC.
- [Altered Expression of ZnT10 in Alzheimer's Disease Brain.](#) *PLoS One* 2013, **8**(5), e65475. Bosomworth HJ, Adlard PA, Ford D, Valentine RA
- [Effects of Sirt1 on DNA methylation and expression of genes affected by dietary restriction.](#) *Age* 2013, *Age* **35**:1835-49. Ions LJ, Wakeling LA, Bosomworth HJ, Hardyman JEJ, Escolme SM, Swan DC, Valentine RA, Mathers JC, Ford D.

- Compliance with school F-milk and non-F milk intake in 3 to 4 and 6 to 7 year old children.*Community Dental Health* 2012, **29**(2), 188-192. Walls R, Zohoori V, Teasdale L, Landes D, Steen IN, Moynihan P, Lloyd J, Omid N, Maguire A
- Bioinformatic selection of putative epigenetically regulated loci associated with obesity using gene expression data.*Gene* 2012, **499**(1), 99-107. Turcot V, Groom A, McConnell JC, Pearce MS, Potter C, Embleton ND, Swan DC, Relton CL
- Domestic food safety and the older consumer: A segmentation analysis.*Food Quality and Preference* 2013, **28**(1), 396-406. Kendall H, Kuznesof S, Seal CJ, Dobson S, Brennan M.
- The impact of a 16-week dietary intervention with prescribed amounts of whole-grain foods on subsequent, elective whole grain consumption.*British Journal of Nutrition* 2013, **110**(5), 943-948. Brownlee IA, Kuznesof S, Moore C, Jebb SA, Seal CJ.
- Inorganic nitrate and beetroot juice supplementation reduces blood pressure in adults: a systematic review and meta-analysis.Siervo M, Lara J, Ogbonmwan I, Mathers JC. *J Nutr.* 2013 Jun;143(6):818-26. doi: 10.3945/jn.112.170233. Epub 2013 Apr 17. Review.
- Nutrition and ageing: knowledge, gaps and research priorities. **Mathers** JC. *Proc Nutr Soc.* **2013** May;72(2):246-50. doi: 10.1017/S0029665112003023. Epub **2013** Jan 14.

You can find a full list of publications by HNRC authors on our [website](#)

#### What is the HNRC?

HNRC is a multi-disciplinary research centre investigating today's major health issues on Obesity and Ageing. Our research focus ranges from understanding the molecular and cellular mechanisms through which nutrition influences health to the development of large scale dietary interventions. Our three research themes are: Public Health Nutrition, Food Quality and Health, Molecular Nutrition. To find out more visit the [HNRC Website](#)

#### Human Nutrition Research Centre

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