



University of
Nottingham
Future Food

Future Food Beacon newsletter

December 2020



Sina Fischer is the lead author on a **new paper on arsenate reductase in plants**, co-authored by our own Paulina Flis and David Salt, among others. Please see **our recent blog** for the full story, particularly if you are a plant scientist!



Heike Bartel, a member of our Leadership team, presents us with two achievements to celebrate at the end of 2020:

1. Heike has won a **Lord Dearing Award** for a) broadening her students' experiences at theatres, cinemas, exhibitions, readings and masterclasses and b) taking her

- interdisciplinary work on illness narratives to students in Health Sciences and Medicine;
2. She is also the author of an impressive new book entitled **Men Writing Eating Disorders: Autobiographical Writing and Illness Experience in English and German Narratives**.

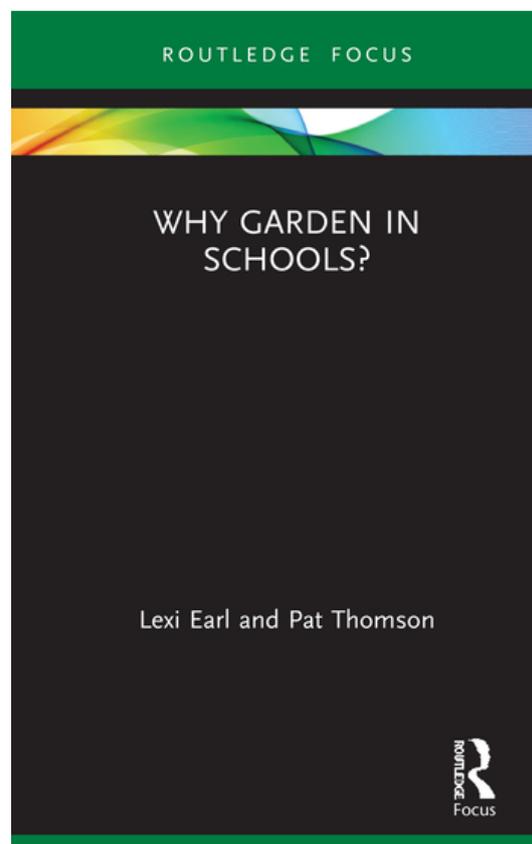
Congratulations Heike!



Tania Dottorini, who sits on our Leadership team, has won GCRF and UoN funding for her major new **CARE project**, which is supported by UNICEF and the Ministry of Science and Technology in Bangladesh among others!

Tania marked this announcement with workshops on 4 and 11 December on *"Fighting Antimicrobial Resistance, Cholera and Covid-19 with Satellite Data and Machine learning"*, which featured Prof. Rita Colwell of the University of Maryland.

Early in the new year will be an ideal time to settle down with a copy of our very own Lexi Earl's excellent new book on gardening in schools. **Pre-order** here!



Our **2019-2020 Yearbook** is a collection of all of our blogs from 1 August 2019 to 31 July 2020. Just pick and choose the articles you are interested in and treat it like a magazine!

Future Food News

Chris Bryant's **article on Singapore's approval of cell-cultured meat** arrived shortly after he delivered a stimulating Future Food seminar on 24 November entitled 'Consumer appetite for alternative proteins'. This area of food research is only going to grow!

Future Proteins Platform researchers continues to advance alternative proteins research, as evidenced in their latest paper '**Insects: A Potential Source of Protein and Other Nutrients for Feed and Food**'.

The University of Nottingham's **Food Innovation Centre** Food continues to offer free technical and scientific advice to food and drink SMEs in Nottinghamshire and Derbyshire.

Bert de Reybel's Future Food seminar on 30 November was well attended and well received. His presentation dealt with 'Vascular transcription factors guide plant epidermal responses to limiting phosphate conditions'.

This Radio 4 programme on **The Secret Life of Chocolate** will be of interest to all our cocoa researchers.

Festo Massawe has highlighted this fascinating article **The processed food revolution in African food systems and the double burden of malnutrition**: *'.....the rapidly increasing share of unhealthy ultra-processed food in Africa is linked to the rise of obesity BUT processed food is mainly produced by SMEs, creating many jobs. Policy must nurture beneficial food processing but reduce unhealthy ultra-processed intake'*

Our latest blog features Guillermina Mendiondo's fantastic **Brassica rapa project**.

The Food Climate Research Network (FCRN) is now called Table! However, their newsletter, Fodder, is ongoing and you can **sign up here**;

Table's recent blog on **the beginnings of agriculture in Europe** is an interesting read and relevant to our PalaeoRAS project;

Upcoming talks, seminars and conferences

Future Food Beacon December Briefings - 10.30 on **15 December**, **16 December** and **17 December**

UoN Virtual Town Hall for research staff - 12.00-13.30 on 15 December 2020. Let the university know how 2020 has been for you!

Westminster Food & Nutrition Forum - seminars on 20 January 2021 and 2 February 2021

University of Nottingham Sutton Bonington AMR (Anti-Microbial Resistance) Webinar Series 2020 - final session at 11.00 on Wednesday 16 December: contact **Ryan Cook**

'Coordination between the microbiota and the root endodermis is required for plant mineral

nutrient homeostasis' - Gabriel Castrillo presents his Science paper at midday on 20 January 2021 (UoN only via MS Teams, with apologies)

Black Botanists - this ground-breaking online lecture series continues deep into 2021!

Nottingham Festival of Science and Curiosity (FOSAC) - apply now to take part in February 2021!

New publications from Future Food

Men Writing Eating Disorders: Autobiographical Writing and Illness Experience in English and German Narratives book - Bartel (2020)

Why Garden in Schools? book - Earl and Thomson (2020)

Insects: a potential source of protein and other nutrients for feed and food Hawkey et al (2020)

A network of transcriptional repressors modulates auxin responses Truskina et al (2020)

Coordination between microbiota and root endodermis supports plant mineral nutrient homeostasis Salas-Gonzalez et al (2020)

Targeted expression of the arsenate reductase HAC1 identifies cell type specificity of arsenic metabolism and transport in plant roots Fischer et al (2020)

A single bacterial genus maintains root growth in a complex biome Finkel et al (2020)

Increasing zinc concentration in maize grown under contrasting soil types in Malawi through agronomic biofortification: Trial protocol for a field experiment to detect small effect sizes Botoman et al (2020)

Formation and diversification of a paradigm biosynthetic gene cluster in plants Liu et al (2020)

Cultivating elders for the UK processing industry - a Nuffield Scholar report by Alice Jones, sponsored by Thatchers Cider (2020)

Wood hemicelluloses exert distinct biomechanical contributions to cellulose fibrillar networks Berglund et al (2020)

Structural Insights into the Mechanism of Heat-Set Gel Formation of Polyisocyanopeptide Polymers Gavrilov et al (2020)

Tales from the countryside: Unpacking “passing the environmental buck” as hypocritical practice in the food supply chain Glover et al (2020)

Poetry on Eating Disorders in Men (book chapter) Bartel (2020)

Food biotechnology Foster et al (2020)

Effect of phosphorus supply on root traits of two *Brassica oleracea* L.

genotypes Pongrac et al (2020)

A nociresponsive specific area of human somatosensory cortex within BA3a: BA3c? Sanchez Panchuelo et al (2020)

Uclacyanin proteins are required for lignified nanodomain formation within Casparian strips Reyt et al (2020)

The Effect of Dissolved Gases on the Short-Range Attractive Force between Hydrophobic Surfaces in the Absence of Nanobubble Bridging [Azadi et al \(2020\)](#)

Rapid temperature responses of photosystem II efficiency forecast genotypic variation in rice vegetative heat tolerance Ferguson et al (2020)

Low-Cost Automated Vectors and Modular Environmental Sensors for Plant Phenotyping Atkinson et al (2020)

Arctic rolls and gender roles - Female and male eating disorders in Karen Duve's *Regenroman* and other texts Bartel (2020)

Barley sodium content is regulated by natural variants of the Na⁺ transporter HvHKT1;5 Houston et al. (2020).

Low cost automated vectors and modular environmental sensors for plant phenotyping Bagley et al. (2020).

Perspectives from CO+RE: How COVID-19 changed our food systems and food security paradigms Bakalis et al. (2020).

To tell us your news, share conference registrations or abstract opportunities, as well as any food-related reading please email:

[Andrew Edwards](#) (Ed), Acting Communications Officer for the Future Food Beacon

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