

Food and Farming Futures and The National Libraries for Agri-food

Alan Spedding, FRAgS, FIAgrM, Editor

Overview

1. The National Library for Agri-food is maintained by the Food & Farming Futures editorial team
2. Run by a consortium representing academia and the industry led by Lord Curry
3. Open access research and review papers
4. Other reliable sources - selected reports, press releases and advisory materials
5. Independent (Waitrose Foundation)
6. Bi-weekly e-news, Events calendar
7. New entries every day – browse regularly, search as necessary, subscribe to e-news

Quality-vetted grey literature, advisory notices and research papers for the agri-food sector

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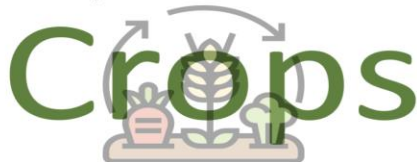
Search for (key words):

Advanced search:

All Content Types All Fields



There are currently no items in this RSS feed



[4282 How the plant with a toxic past can become a climate-smart crop of tomorrow](#)

Genomic detective work has brought researchers closer to the secret of how and why grass pea produces its notorious toxin, paving the way for this ancient and climate resilient crop to become a food o...

RuSource Briefings (2023) 15 July 2023

Forthcoming Events

[FarmED - Wildflower Meadows & Margins](#)

As well as looking appealing, wildflowers also have huge biodiversity and environmental benefits. Join us to find out how to select and establish the seed mixtures that best suit your land.

FarmED, Station Rd, Shipton-under-Wychwood, Chipping Norton, OX6 6BJ

18 July 2023

[Festival of Hunting](#)

This historic and prestigious event is the annual showcase for the world of hunting and boasts the greatest gathering of hounds in the country. It is also an important day in many social calendars ...

East of England Showground, Oundle Road, Alwalton, Peterborough, Cambridgeshire, PE2 6XE

19 July 2023

[National Youngstock Conference 2023](#)

Providing a forum for producers, vets, researchers and other dairy and beef professionals, the National Youngstock Conference aims to promote best practice and facilitate the exchange of ideas relevant...

Harper Adams University Edmond Newport TF10 8NB

20 July 2023

[Royal Lancashire Show](#)

Lancashire's Premier Summer Family event, is over for another year and what a huge success it was. Held annually at Salesbury Hall in Ribchester. The Royal Lancashire Agricultural Show was packed f...

Salesbury Hall, Ribchester, Lancashire, PR3 3XU

21 July 2023

[Yorkshire Dales Food & Drink Festival](#)

Grab your tickets for the Yorkshire Dales Food & Drink Festival! Our festival is the biggest of its kind in the UK and takes place at the

Bi-weekly enews - sign up [here](#)

National Libraries for Agri-Food: 12 July 2023



The following recently added items are now available on the [National Libraries for Agri-Food](https://www.nlaf.uk) website, www.nlaf.uk, provided by Food and Farming Futures

An assessment of potential pesticide transmission, considering the combined impact of soil texture and pesticide properties: A meta-analysis

The highest risk of pesticide transmission through soils to waterways is associated with soils containing <20% clay or >45% sand.

John McGinley, Jenny Harmon O'Driscoll, Mark G. Healy, Paraic C. Ryan, Per Eric Mellander, Liam Morrison, Oisín Callery, Alma Siggins (2022)

[Read more](#)

4280 Weeds hit crop yields by disrupting plant chatter

Direct competition for light, water and nutrients are typically considered the main causes of weed-induced yield losses. But an analysis of research from researchers at the University of Guelph suggests weeds interfere with light signals crop plants send out before they even emerge from the soil.

Farming Future Food (2023)

[Read more](#)

4279 Protecting herd health and productivity when buying cattle

Biosecurity has become an essential aspect of farming and is critical to prevent the introduction and spread of infectious disease on farms. Here we share tips for protecting your herd's health and productivity when buying cattle.

AHDB (2023)

[Read more](#)

4278 "Sticky fingers of junk food industry all over government review into ultra-processed foods"

The Soil Association is "disturbed" that a government review into the health impacts of ultra-processed foods may have been "skewed" by industry ties, conflicted financial interests, and a "narrow framing" of the science.

The Soil Association (2023)

[Read more](#)

Black Locust – Crop Information Factsheet

All the information in an easy-to-read Factsheet.

Biomass Connect (2023)

[Read more](#)

Here's how much water it takes to make a serving of beef – and why where it comes from is so important

To make informed choices about the impact of beef on the world's water, you need to know where the meat was produced. If you are eating beef from the western US, it could have a serious impact on how much water is available for everything else, whereas beef in Britain is more benign.

Tim Hess and Adrian Williams, Cranfield University (2023)

[Read more](#)

4277 Net Zero & Livestock: Bridging the Gap

The way forward to bridge the emissions gap in the livestock sector and deliver net zero goals by 2050 is through innovation. Impact-based technologies with significant potential to contribute to this target are highlighted in this report. Research has repeatedly demonstrated that greenhouse gas (GHG) emissions can be considerably reduced through better livestock management. Innovation across health and genomics, nutrition, waste, and land management provide further opportunities for sector-wide emissions reductions and sustainable food systems.

CIEL (2023)

[Read more](#)

4276 Restoring insects

Over the past century, farming practices have contributed to insect declines. Supporting farmers to provide high-quality habitats for insects will not only help to slow down – or even reverse – insect decline, but will help to secure the UK's food security.

The Conversation (2023)

[Read more](#)

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Information going back to before 2010

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Taxonomy

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 - Nutrition & fertilisers
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 - Wastes management & pollution control
 - Wildlife & biodiversity
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Arable & industrial crops Category

There are 2010 items in this category.

Technical and Business Information (1958 matches were found. 1-5 are shown.) Results are sorted by DateCreated (Newest to Oldest) sorted by Year of Publication (Highest to Lowest)

- [📄 📄 Getting down to the fine detail with digital phenotyping in the lab](#)

Professor Malcolm Hawkesford, Head of the Plant Sciences Department at Rothamsted Research, continues his series on digital phenotyping. This time examines digital phenotyping in the lab which enables us to capture precision detail, often not visible to the naked eye
Food and Farming Futures (2022) Briefing - 22 February 2022
- [📄 📄 Beginners' guide to digital phenotyping](#)

"If someone asked me what phenotyping was, I would say it was about the study of form and function: how living things appear, how they grow and what affect how they grow and function. That's really all it is." Professor Malcolm Hawkesford
Food and Farming Futures (2022) Briefing - 22 February 2022
- [📄 📄 Pasture age impacts soil fungal composition while bacteria respond to soil chemistry](#)

Soil bacteria and fungi from > 50 pastures were analysed using DNA metabarcoding. Duration of pasture since ploughing impacted fungal community composition. Bacteria were more associated with soil physicochemical properties than fungi. Plant effects on soil microbes were through interactions with chemistry. Microbial indicators of soil health were disproportionately fungal taxa.
Food and Farming Futures (2022) Research summary - 16 February 2022
- [📄 📄 Growing crops for the pharmaceutical industry](#)

Growing pharmaceutical crops could be an innovative way to diversify a farm business. As pharmaceutical crops are grown for a specialist end market,

← → ↻ 🏠 🔒 https://www.nlaf.uk/Library/content/D... 🔍 ⭐ ⌂ | 🗑️ 👤 ...

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🔍 Research Output ⏪ ⏩ ☰ ?

✉️

↓ Content details

Maxi Cover Crop: Maximising the benefits from cover crops through species selection and crop management

[Download also available from AHDB site](#)

This is the final report of a 38-month project (21140009) that started in August 2016. The work was funded by Amazone Ltd, Cousins of Emneth Ltd, Hutchinsons, RAGT seeds and a contract for £230,000 from AHDB.


Abstract

In a recent survey of UK farmers, the most cited reasons for not growing cover crops were: (i) they did not fit with the current rotation (ii) expense and (iii) difficulty of measuring their benefit to crop production. The Maxi Cover Crop project aimed to address some of these issues by characterising the performance of a range of cover crop species, both individually and in mixes of increasing complexity, under field conditions, and by performing a cost/benefit analysis on the systems used.

The project has measured, assessed and quantified the impacts of the cover crops on soil properties and the performance of the subsequent two crops in

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Statutory levy board, funded by farmers, growers and others in the supply chain and managed as an independent organisation (independent of both commercial industry and of

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Metadata

Something old, something new. Hurdle Technology – a marriage of preservation techniques.

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This item is categorised as follows:

[Subject Collection](#) [Food & drink](#) [Food development technologies](#)
[Harper Adams University Collection](#) [Food Science & Supply Chain Dept.](#)
[Harper Adams University Collection](#) [Lynn McIntyre](#)

Additional keywords/tags



Comments



Supporting the development of the national rural economy.

[Harper Adams University website](#)

PDF file (thumbnail view)

Something old, something new: Hurdle technology – a marriage of preservation techniques

L. McIntyre, PhD¹ and J. A. Hudson
Institute of Environmental Science and Research (IESR) Ltd,
Christchurch Science Centre

In 2007, we published a review in Food New Zealand on existing and new strategies for the reduction of foodborne bacteria [1]. In that article we discussed the utility of various biological approaches and the technologies and processes utilised to increase the safety and extend the shelf life of foods. In most cases, these do not in themselves offer a complete food safety solution; hence their application in combination with other preservation options. One hurdle technology concept holds greater potential. What follows here is a review of the food preservation area and an update on some of the more recent findings published in the literature.

Introduction

The food trade worldwide has been successful in extending the shelf life of various products in order to ensure a steady supply of goods. This has been achieved through the use of various preservation methods, such as the use of preservatives, modified atmosphere packaging, and the use of hurdle technology. Hurdle technology is a food safety strategy that combines different preservation methods to create a cumulative effect that is more effective than any single method. This approach is used in a wide range of food products, from fresh produce to processed meats and dairy products.

The goal of hurdle technology is to create a cumulative effect that is more effective than any single method. This approach is used in a wide range of food products, from fresh produce to processed meats and dairy products.



Figure 1: A diagram illustrating the concept of hurdle technology, showing a bacterium (red) and a hurdle (red line) that it must overcome to survive.

Download:

[Hurdles in Food New Zealand](#)

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 - b. RESEARCH OUTPUTS
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6. Clear metadata at a glance

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- Integration and exchange
 - Uniting a fragmented institutional landscape
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 - Valorising grey knowledge
 - Publicising information via website, social media and e-news

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As an independent body committed to open access information and knowledge exchange across the UK food system, NLA is a crucial element of an information environment that supports resilience and enables innovation.

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