

September 2023



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ASSOCIATION OF APPLIED BIOLOGISTS

Newsletter

President: Prof. Mike Gooding, PhD

CONTENTS

AAB Quick Links

Upcoming AAB Events

PlantEd gene-editing AAB Specialist Group

Update from Annals of Applied Biology

The British Society of Soil Science

Biopharmaceutical and Medical Biotechnology

Wheat: Environment, Food and Health Publication

The AAB NewsHub

AAB Membership

AAB Council

Our Mission

“to further the application of biology to the production of food, materials, and energy, and for the maintenance and improvement of the earth’s environment”

AAB Quick Links

[AAB Council](#)

[AAB Conference Calendar](#)

[AAB Conference Services](#)

[AAB Specialist Groups](#)

AAB Early Career Professional members (AAB ECP) eligible for FREE Online registration to *ANY* AAB-organised hybrid event, AAB ECP non-members pay a nominal fee (£5) for access and also gain free membership!



Upcoming Events



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ASSOCIATION OF APPLIED BIOLOGISTS
BIOCONTROL AND IPM GROUP


Hosted online and in Derby, UK

**IPM and Biocontrol 2023:
Increasing collaboration across the
innovation cycle**
November 15-16 2023

**IPM and Biocontrol: Increasing
collaboration across the
innovation cycle**
Nov 15-16 2023

**In-person registration closes
November 1st**

[Visit Event Website](#)



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ASSOCIATION OF APPLIED BIOLOGISTS
APPLIED TREE AND FOREST BIOLOGY

Hosted online and at the
University of Nottingham

**Creating Canopy: the biology and practice of
establishing trees and woodlands for people and nature**
November 27-29 2023

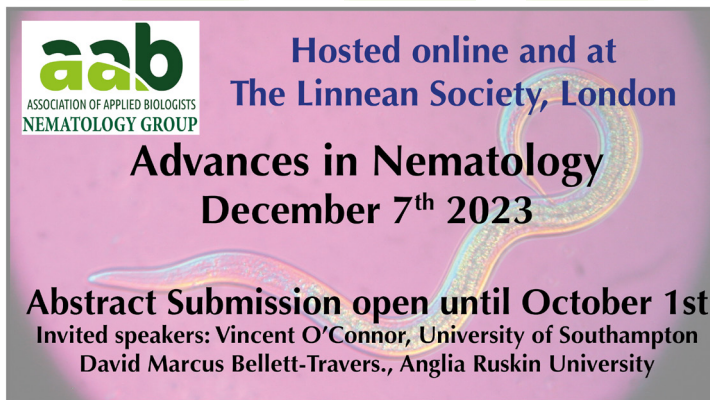
**In-person registration closes on October 31st
...includes Ash FRAXNet meeting on November 29th**

The Scottish Forestry Trust | The JABBS Foundation | BSPP | Department for Environment Food & Rural Affairs | FOREST ECOLOGY GROUP | the trees council

**Creating Canopy: the biology and
practice of establishing trees and
woodlands for people and nature**
Nov 27-29

**In-person registration closes
October 31st**

[Visit Event Website](#)



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ASSOCIATION OF APPLIED BIOLOGISTS
NEMATOLOGY GROUP

Hosted online and at
The Linnean Society, London

Advances in Nematology
December 7th 2023

Abstract Submission open until October 1st
Invited speakers: Vincent O'Connor, University of Southampton
David Marcus Bellett-Travers., Anglia Ruskin University

Advances in Nematology
December 7 2023

Abstract submission closes Oct 1st

[Visit Event Website](#)



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EARLY CAREER PROFESSIONAL NETWORK

Hosted at the
University of Leicester

**AAB Early Career Professionals
Science and Skills Workshop**
December 18-19 2023

Applications now open!

**AAB Early Career Professionals
Science and Skills Workshop**
Dec 18-19 2023

Apply before October 15th

[Visit Event Website](#)



**Hosted online and in
Brighton, UK**

**International Advances in
Pesticide Application
January 23-25 2024**

Poster abstract submission deadline is Oct 1st



**International Advances in
Pesticide Application
Jan 23-25 2024**

**Poster abstract submission deadline
is October 1st**

[Visit Event Website](#)



**Association for
Crop Protection
in Northern Britain
CONFERENCE**

**Hosted at
The Apex Hotel
Dundee**

**Crop Production in Northern Britain
February 27-28 2024**

Abstract Submission now open!
Expected sessions on Potatoes, Combinable Crops, Ag and
Environment, Others....



**Crop Production in Northern
Britain 2024
Feb 27-28 2024**

**Abstract submission deadline
is October 1st**

[Visit Event Website](#)

Launching PlantEd gene-editing AAB Specialist Group

<https://plantgenomeediting.eu/>

Over the past four years the **COST Action PlantEd** has represented researchers and policy makers involved in genome editing. This network contains over 600 members who are working in an area of huge interest and importance.

Recently the UK Government introduced new legislation to change the status of crops generated by genome editing, in the case of organisms that might have been generated by traditional breeding. This currently sets the UK part from the remainder of the European Union.

However there are promising noises coming from the EU about future regulation of GE crops, which although long-overdue, would be greatly welcomed by scientists and members of industry.

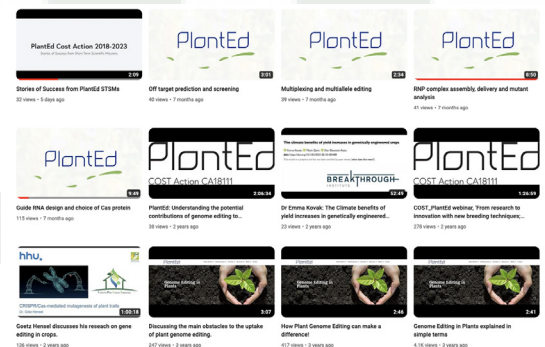
PlantEd has organised numerous training schools and conferences to promote both the technical and policy-aspects of gene editing.

In order to keep the network of scientists together PlantEd will move to the AAB where we will provide a platform for communication and organisation of future events; both workshops and large conferences.

PlantEd has developed a series of training resources that can be viewed on their YouTube Channel. The PlantEd-AAB group will add to this online content through the organisation of exciting webinars on the topic of gene-editing.

<https://www.youtube.com/channel/UCIGHBQA1PBv3d-4g9LOtOGw>

We are currently recruiting members of the specialist group committee so if you would like to be involved with this exciting new specialist group then please contact Geraint Parry (geraint@aab.org.uk).



Update from Annals of Applied Biology

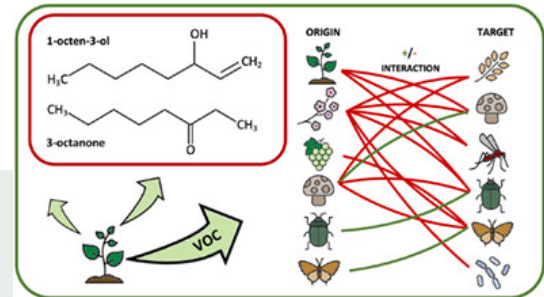
Annals is owned by the Association of Applied Biologists and as such all the journal revenue returns to the scientific community through organisation of events in relevant topic areas.

The September 2023 edition of Annals is available

<https://onlinelibrary.wiley.com/toc/17447348/2023/183/2>

Article titles

- Challenges in pea breeding for tolerance to drought: Status and prospects
- Exploiting volatile organic compounds in crop protection: A systematic review of 1-octen-3-ol and 3-octanone
- Wood distillate (pyroligneous acid) boosts nutritional traits of potato tubers
- The post-registration monitoring of glyphosate-treated plants using anecic earthworms
- Heterosis and reselection for pyrethroid resistance trait maintenance in the lady beetle *Eriopis connexa* (Germar)
- Is there a relationship between enchytraeids diversity and community with soybean (*Glycine max L.*) productivity in no-till system in subtropical soils of Brazil?
- Shedding light on a hot topic: Tuberisation in potato
- Identification of multiple symptoms of huanglongbing by electronic nose based on the variability of volatile organic compounds



Newly published papers are available on the Annals website ->
<https://onlinelibrary.wiley.com/journal/17447348>

Annals has a new twitter account so please follow for updates from recent papers ->
<https://twitter.com/AnnalsApplBio>



Annals recently launched a Special Issue in Association with the November AAB meeting on 'Creating Canopies' organised by the Applied Tree and Forest Biology' group.

We encourage submissions of papers that cover topics on any area that looks at the evidence for different strategies of tree planting or on any topic of tree health.

We invite submissions through the usual Annals submission portal mentioning the special issue in your cover letter.



WILEY

Annals of Applied Biology

Call for Papers

Special Issue
Creating Canopy: the biology and practice of establishing trees and woodlands for people and nature

Submission deadline:
30 June 2024



The British Society of Soil Science and the Soil Science Society of Ireland's Joint Annual Conference 2023 will take place from Monday 4 – Tuesday 5 December in Belfast.

The overall conference theme is Soil Management and Monitoring. The packed two-day event, set in the historic Assembly Buildings Conference Centre in the heart of Belfast, will provide delegates with a fantastic opportunity to see the latest research and developments within soil science.

The exciting and diverse programme will feature keynote speakers and experts across the 2 days. Government representatives from all UK nations and Ireland will take part in a keynote policy session, providing an overview of the key activities being undertaken in each of the nations to monitor and manage soils at a governmental level.

The conference will feature oral and poster presentations from soil scientists and early career researchers from across the UK and Ireland; tours to visit field sites in Co Down, and also a Gala Dinner at Crumlin Road Gaol.

<https://members.soils.org.uk/event-5055572>

The British Society of Soil Science have opened bookings for their Introduction to Agricultural Land Classification (ALC) Course, which is taking place at Cranfield University on Wednesday 22 - Thursday 23 November.

Agricultural Land Classification (ALC) has a formal role in the planning system in England and Wales and is designed to prevent the loss of our best and most versatile land in line with the principles of sustainable development. This training course, designed and presented by agricultural land classification (ALC) experts, offers a unique opportunity to learn about the background and technical basis of the current ALC guidelines.

This course is designed for soil scientists who wish to extend their experience to (or refresh an existing awareness of) Agricultural Land Classification, those commissioning ALC surveys from specialists, and planners reviewing ALC reports.

To book onto the course, click here - <https://members.soils.org.uk/event-5407996>

<https://members.soils.org.uk/event-5407996>



BRITISH SOCIETY OF SOIL SCIENCE

SOIL SCIENCE SOCIETY OF IRELAND

Annual Conference 2023

4 - 5 December
Belfast

Supported by **visit Belfast** **TOURISM NORTHERN IRELAND** **Belfast**



BRITISH SOCIETY OF SOIL SCIENCE

Introduction to Agricultural Land Classification (ALC)

Cranfield University
22-23 November 2023

GREEN BIOPHARMACEUTICALS

Molecular Farming in Plants, Moss, and Algae

13-15 November 2023 Barcelona, Spain



Preliminary program (*subject to changes*)

Monday, 13 November 2023

- 15:00-16:00 *Registration*
- 16:00-18:00 **Opening session**
Welcome by organizers
Opening plenary lecture: **Julian Ma**, St George's, University of London, UK
- 18:30-21:00 *Welcome reception*

Tuesday, 14 November 2023

- 9:00-10:15 **Session 1. Molecular and cellular advances for non-protein biopharmaceuticals**
Keynote lecture, short talks, and flash poster presentations
- 10:15-11:00 *Coffee and tea break*
- 11:00-12:15 **Session 2. Molecular and cellular advances for protein biopharmaceuticals**
Keynote lecture, short talks, and flash poster presentations
- 12:15-13:45 *Lunch, networking, poster viewing*
- 13:45-15:00 **Session 3. Production platforms**
Keynote lecture: **Somen Nandi**, University of California, Davis, USA
Short talks and flash poster presentations
- 15:00-15:45 *Coffee and tea break*
- 15:45-16:30 **Panel debate:**
The future of molecular farming (include ethical aspects)
- 16:30-19:00 *Poster and networking session (with refreshments)*

Wednesday, 15 November 2023

- 9:00-10:15 **Session 4. Products and applications**
Keynote lecture: **Yuri Gleba**, NOMAD Bioscience GmbH, DE
Short talks and flash poster presentations
- 10:15-11:00 *Coffee and tea break*
- 11:00-12:00 **Closing session**
Closing plenary lecture: **George Lomomosoff**, John Innes Centre, UK
Closing remarks

The conference venue is located a few steps away from Sagrada Família, in Casa Convalescència that forms part of the complex of the Hospital de la Santa Creu i Sant Pau, one of the greatest works of Catalan Art Nouveau.

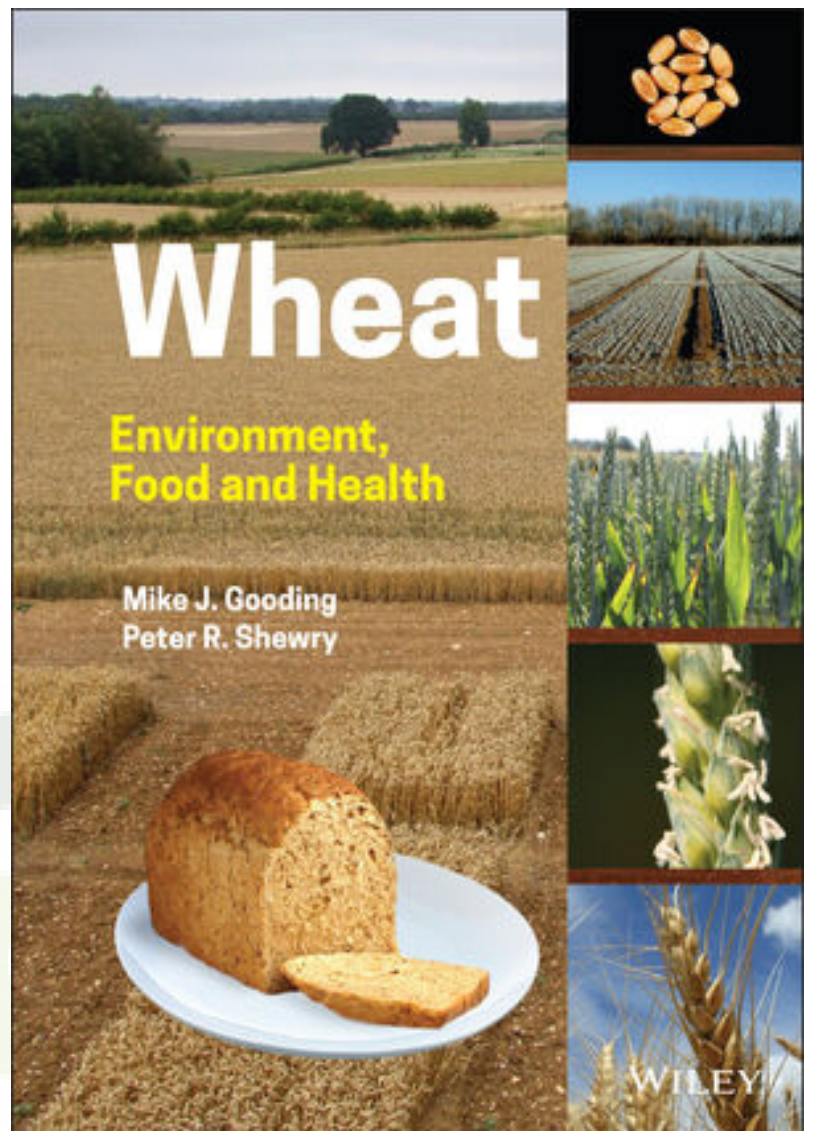
https://www.efbiotechnology.org/green_biopharma

We are delighted to promote a publication by current AAB President **Professor Mike Gooding!**

Wheat is produced on a greater area, grown over a wider geographic range, and traded internationally as a commodity more than any other arable crop.

Wheat alone provides 20% of the calories and protein in the global human diet. Understanding the interactions between wheat production, the environment, and human nutrition is essential for meeting the demands of food security as we approach the middle of the 21st century.

Wheat: Environment, Food and Health is written by two leading authorities in the field and offers insights into critical issues such as the sustainability of wheat production, the challenges of both mitigating and adapting to environmental change, and the effects of wheat consumption on human health.



Covering a broad range of topics, the authors:

- Introduce the historical development and utilization of the wheat crop.
- Describe the factors affecting the quality and acceptability of wheat for different uses.
- Discuss the soil characteristics that are required for, and changed by, wheat production.
- Examine the water, temperature, and light requirements of wheat systems.
- Explore the methods and sustainability of plant breeding and farmer approaches to improving crop yields.
- Describe the development, structure, and composition of wheat grain.
- Discuss the contribution and impacts, both positive and negative, of wheat consumption on human health.
- Discuss how modern technologies and new approaches are addressing the challenges of maintaining wheat production.

Wheat: Environment, Food and Health is an essential resource for researchers and academics in disciplines including agriculture, plant biology, applied biology, botany, food science and nutrition, crop improvement, food security, environmental sustainability, and human health.

<https://www.wiley.com/en-gb/Wheat%3A+Environment%2C+Food+and+Health-p-9781119652601>

The AAB NewsHub

A dedicated section for generic news content which may be of interest to our members and associates. These articles may range from current events, blogs, or discussion topics right the way through to some professionally published content. We are more than happy to receive additional content from our readers. If you come across an article or a newspaper column which you think would be of interest to our members please feel free to send it to

John (john@aab.org.uk)

- [Farmers turn to tech as bees struggle to pollinate](#) (BBC)
- [Climate change: UN calls for radical changes to stem warming](#) (BBC)
- [Climate change: Six young people take 32 countries to court](#) (BBC)
- [If earthworms were a country, they'd be the world's fourth largest producer of grain](#) (Science)
- [The University of Warwick celebrates the successful harvest of "GODIVA" and 'OLIVIA' – two novel dry beans inspired by local cultural history](#) (Warwick Crop Centre)
- [New tech boosts Dutch drive for sustainable farming](#) (BBC)
- [Warwick Crop Centre at the International Carrot Symposium 2023](#) (Warwick Crop Centre)
- [Our Fragile Earth: How Close Are We to Climate Catastrophe?](#) (Scientific America)
- [Combatting drought: a multi-dimensional challenge](#) (Journal of Experimental Botany)
- [Thousands of animal and plant species in decline across the UK](#) (New Scientist)

We are writing to encourage you to join AAB in 2023

Join a community of 1000+ like-minded professionals that also has significant financial benefits, especially for early career professionals (ECPs).

2023 Membership fees: **Regular members: £62**
Early Career Professional/ Retired members: £20
(anyone within 5 years of finishing full-time education; bachelor or graduate study)

Membership benefits:

- **Reduced fees for ALL AAB events.** Regular members pay £100 and ECP members pay £50 **LESS** than equivalent non-members to attend AAB in-person events. ECP members can join events as an online delegate for free.

[Download 2023 Conference Schedule here](#)

- **20% discount on Article Publishing Charges when submitting to Plant Biotechnology Journal**

- **ECPs are eligible for travel grants to any AAB event (up to £300)**

- **All members are eligible for Carer grants (up to £500)**

- **Eligibility to apply for Federation of European Society of Plant Biology short term mobility grants (up to €3000)**

- **Consideration for Fellowship of AAB (F Appl. Biol.) after seven years of continuous membership**

- **30% discount on all issues of 'Aspects of Applied Biology'**

- **Reciprocal 50% reduction in membership fees with the Royal Society of Biology**

- **Invitation to contribute events and opportunities to the monthly AAB newsletter circulated to 3500+ scientists**

- **Opportunity to join an AAB Specialist Group, which determine AAB activities.**

Applied Plant Pathology

Biocontrol and IPM

Food Systems

Nematology

Plant Physiology and Crop Improvement

Virology

Applied Tree and Forest Biology

Cropping and the Environment

Horticultural Quality and Food Loss

Pesticide Application

Soil Biology

Professor Mike Gooding, AAB President

Dr Geraint Parry, AAB Executive Officer

www.aab.org.uk/membership

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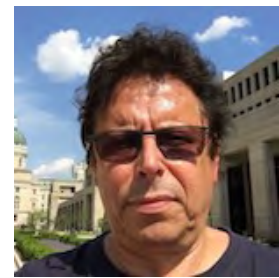
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