



Biotechnology and
Biological Sciences
Research Council



Engineering and
Physical Sciences
Research Council



Photo by Prof. David Werner from EBNet research project: Faecal pollution source tracking and quantitative microbial risk assessment methods for a suitcase laboratory (POC202101)

EBNet Newsletter - November 2023

New

[In Conversation with Environmental Biotechnologists Career Talk #2: the Road from Academia to Industry.](#)

21 November 2023, 14.00-15.15

Brought to you by the [EBNet ECR Working Group](#) this is the latest webinar to explore the careers of speakers who have moved from academia to industry roles. Hear from two accomplished environmental biotechnologists: *Dr Stephen Woodgate, Managing Director, Beacon Research Ltd* & *Dr Becky Greaves, Research Manager, Biogen UK Ltd*.

They will share their personal journeys, highlighting the academic knowledge, skills and pivotal role of education and research in nurturing critical skills, fostering innovation, and overcoming challenges in industry. The event will be moderated by Deborah Hall, a PhD Researcher from the CERC, Harper Adams University. Register [here](#).

New EBNet Working Group - [Biochars for Pollution Prevention](#)

Led by Dr Meredith Barr, LSBU, this will foster knowledge exchange and pathways to impact for academics working on state-of-the-art technologies related to the use of biochar for pollution prevention and environmental remediation – particularly as applied to microorganisms. This can be either in terms of removing, killing, or preventing release of harmful microorganisms, or in terms of seeding bioremediative microorganisms for the purpose of pollutant degradation. Contact [Meredith](#) to join the group.

Video Training - are you interested?

Social media is part of everyday life. Are you confident producing video snippets and recorded content for impact, outreach and networking? Would you be interested in hands-on training to create quality outputs that raise your professional profile and showcase your work? EBNet are considering a future workshop on this topic and would like to gauge members interest. [Email us](#) to be the first to know about developments. Do help us and share what, in particular, you would like to see covered.



Now Open

EBNet funding opportunities for academia and industry are highlighted below.

[Bioelectrochemical Systems Workshop](#)

23/24 November 2023, Newcastle University

Brought to you by the [Bioelectrochemical Development for Environmental Technology](#) Working Group. This event will strengthen your knowledge on BEC systems and give you tools to improve the impact of your research. Attendants will achieve the following: obtain a BEC Systems handbook that contains info on microbial and electrochemical analyses; engage in a lab demonstration for microbial biofilm analysis; engage in a lab demonstration for polarization and cyclic voltammetry analyses; participate in an outreach activity that provides tools to showcase BEC systems research.

This workshop is partially subsidised by EBNet as such a contribution is asked from participants to cover catering, venues and lab-consumables: Registration fee: £100 pounds. Early bird registration £80 pounds (*before 15 October*).

Limited places. Book your place now [here](#).

(Limited numbers of ECR Travel Bursaries available; email us to enquire.)

[EBNet Placement Call](#) - Always open

These are worth up to £1,500 for UK-based placements and £3,000 for overseas placements.

[ECR Conference Travel Bursary](#) - Always open

Looking to present your work at a major conference and lack funding? Given the increased cost of international flights we have raised our support to **£2,000** (max.) for full oral presentations to our listed conferences in 2023/24. Send in your application as soon as you are notified - we have a number set aside for each conference!

[EBNet: Share With A Peer \(SWAP\) Travel Bursary](#)

Always open. Available to Early Career Researchers

Proud of the work going on in your lab? Fancy a visit to another lab tackling similar topics? We have just the thing for you, We can offer **up to £250*** towards accommodation, meals, and travel per person - just make a short video clip &/or pictures suitable for our website. [Flyer](#).

Spotlight On...

Do you have any good news to share with other members? Email us details if you want a shout-out in the next newsletter.



[Bioscience Big Ideas Pipeline](#)

12 January 2024

BBSRC are looking to identify adventurous and exciting ideas that have the potential to be transformational. Between October and January they'd like to invite you to tell them about your big ideas using the survey [here](#).

[Survey: Sustainable Hydrocarbons for the UK Chemicals Industry](#)

Respond by 17 November 2023

This Innovate UK study aims to provide evidence that can support a Sustainable Hydrocarbons Vision – which sets out how the UK can position itself, in the context of a Net Zero future, to be internationally competitive and meet the growing demand for sustainable chemical products. Help gather information on (1) the UK's current status, (2) potential future scenarios for sustainable chemical production, and (3) transformation required to meet future sustainable chemical sector needs. Respond [here](#).

[Launch of the Supergen Bioenergy Hub 2023](#)

The next four-year term of the UKRI-funded Supergen Bioenergy Hub will begin in November 2023. They invite all academics, industrialists, policymakers and the third sector working or interested in biomass and bioenergy to join them at their launch event on 14 November 2023, Aston University. Register [here](#).

[ICE Publishing Call](#)

The [Institution of Civil Engineers](#) (ICE) have a Call for papers: *Net Zero Resource and Waste Management*, in their upcoming themed issue of *Waste and Resource Management*. Interested? Abstracts by 31 December 2023.

[NBIC: Biofilm Week](#)

18-24 November 2023

#BiofilmWeek aims to promote the economic and physical impact that biofilms have on our world, as well as highlight research taking place to prevent, detect, manage and engineer biofilms. Find out how to get involved [here](#).

Are you getting the latest information from us?

More people are turning to EBNet for speedy access to events, reports, jobs, PhD/Postdoc positions etc.

Join us on [LinkedIn](#) and [Twitter](#).



Forthcoming Events

Find selected upcoming events below.

For more, go to: [Events Roundup](#)

[CIWM: Festival of Circular Economy \(FOCE2023\)](#) - 15/16 November 2023

[BCB: Creating value from forestry co-products – understanding the opportunities](#) -

16 November 2023

[Sense about Science: Standing up for Science workshop](#) - 17 November 2023, University of Glasgow

[BBSRC: Food Loss & Waste and beyond: towards a Circular Economy](#) - 29 November & 14 December 2023

[Sense about Science: Standing up for Science workshop](#) - 8 December 2023

[E3B: Bio-recovery of technology-relevant metals](#) - 12-14 December 2023, Kimpton

Clocktower and Maldron Hotels Manchester

[Society of Chemical Industry \(IOM3\): Bioadhesion & Adhesives](#) - 14 December 2023,

London

[The WWT Wastewater 2024 Conference & Exhibition](#) - 30-31 January 2024, NCC,

Birmingham

[The Microbiology Society: Annual Conference](#) - 8-11 April 2024, Edinburgh International

Convention Centre (Abstracts by: 11 December 2023)

[The Biosystems Engineering Conference 2024](#) - 8-10 May 2024, Estonian University of Life

Sciences, Tartu (Abstracts by: 1 December 2023)

[10th IWA Odour and Air Emissions Conference](#) - 25-28 August 2024, Hobart, Tasmania

(Abstracts by: 30 November 2023)

Funding

Funding opportunities for academia and industry are highlighted below.

For more, go to: [Funding Roundup](#)



[NBIC: Collaborative Training Partnerships](#) - Call extended to: 15 November 2023

[JSPS Summer Programme 2024](#) - 20 November 2023

[NERC: Strategic capital funding opportunity 2023](#) - 5 December 2023

[Innovate UK: Launchpad: agritech and food tech in Eastern England](#) - 6 December 2023

[Accelerating the Green Economy Centres](#) - 12 December 2023

[UKRI: Transdisciplinary networks to tackle antimicrobial resistance](#) - 13 December 2023

[Innovate UK Launchpad: bio-based manufacturing in Scotland](#) - 13 December 2023

[BBNet: Early Stage Career Researchers Funding Call](#) - 14 December 2023

[EPSRC: Strategic infrastructure for engineering and physical sciences](#) - 20 December

2023

[BBSRC: Innovation to Commercialisation of University Research \(ICURe\)](#) - 15 January

2024

[BBSRC: New investigator award](#) - 17 January 2023

[Innovate UK: Smart Grants](#) - 17 January 2024

[NERC: Pushing the frontiers of environmental research](#) - 23 January 2024

[BBSRC: strategic Longer and Larger \(sLoLa\) grants](#) - 6 February 2023

[EC Funding: Increasing the circularity in plastics value chains](#) - 22 February 2024

[EC Funding: Programmed biodegradation capability of bio-based materials and products, validated in specific environments](#) - 22 February 2024

[Innovate UK: Canada-UK critical minerals: sustainability and circularity](#) - 3 April 2024

[BBSRC: Mid-range equipment for biosciences research: ALERT 2023](#) - tbc



Jobs, Training, Awards & PhDs

Did you know we have funds available to help members access placements in industry or academia?

Jobs (also see [FindAPostDoc](#) & [Jobs.ac.uk](#))

[Senior Research Assistant in Biosciences](#) - 13 November 2023, Northumbria University

[Research Fellow](#) - 21 November 2023, University of Warwick

[Lecturer in Bioinformatics](#) - 5 December 2023, University of Liverpool

Training

[ELIXIR: Exploring EMBL-EBI sequence analysis tools and managing bioinformatics workflows](#) - 23/24 November 2023

[CIWEM: Municipal Waste Water Treatment](#) - from 11 December 2023

[CIWEM: Anaerobic Digestion](#) - from 11 December 2023

[CIWEM: Sludge Treatment and Management](#) - from 11 December 2023

[EMBL-EBI: Introduction to multi-omics data integration and visualisation](#) - 4-8 March 2024, EBI, UK

[EBI: Mathematics of life: modelling molecular mechanisms](#) - 11-15 March 2024

[EMBL-EBI: Introduction to metabolomics analysis](#) - 13-17 May 2024, EBI, UK

Awards and Competitions

[The Microbiology Society: Outreach Prize](#)

PhDs (see [FindaPhD](#))

[How do microbes degrade oil and can we manipulate this process for bioremediation and compound production](#) - 20 November 2023, University of East Anglia

[EASTBIO - Functional understanding the rumen mycobiome via consortia of anaerobic gut fungi](#) - 27 November 2023, SRUC - Scotland's Rural College

[Research Studentship in Biotechnology and Control Engineering](#) - 1 December 2023, University of Oxford

[Developing the highly productive cyanobacterium *Synechococcus* sp. 11901 as biomanufacturing platform](#) - 17 January 2024, University of Edinburgh

Publications

[Unlocking the hidden value of industrial by-products: Optimisation of bioleaching to extract metals from basic oxygen steelmaking dust and goethite](#)

By: Ipek Tezyapar Kara *et al.* In: Chemosphere Available online 25 September 2023, 140244

[Bioleaching metal-bearing wastes and by-products for resource recovery: a review](#)

By: I. Tezyapar Kara *et al.* In: Environmental Chemistry Letters (2023) 21:3329–3350

[Implementation of anaerobic digestion for valorizing the organic fraction of municipal solid waste in developing countries: Technical insights from a systematic review](#)

By: Fernanda E. Ibarra-Esparza *et al.* In: Journal of Environmental Management. Volume 347, 1 December 2023, 118993

[Microalgae-Based Systems: Process Integration and Process Intensification Approaches \(De Gruyter STEM\) Paperback](#)

By: Eduardo Jacob-Lopes, Rosangela Rodrigues Dias, Leila Queiroz Zepka. Featured: Chapter 20: Algae-based bioelectrochemical systems

[Portable biosensor combining CRISPR/Cas12a and loop-mediated isothermal amplification for antibiotic resistance gene *ermB* in wastewater](#)

By: Kang Mao *et al.* In: Journal of Hazardous Materials Volume 462, 15 January 2024, 132793

[Nature-Based Solution to Eliminate Cyanotoxins in Water Using Biologically Enhanced Biochar](#)

By: Jane Moore *et al.* In: Environ. Sci. Technol. 2023 (<https://doi.org/10.1021/acs.est.3c05298>)

[A critical review for the impact of anaerobic digestion on the sustainable development goals](#)

By: Farzad Piadeh *et al.* In: Journal of Environmental Management. Volume 349, 1 January 2024, 119458

Still here?

Do you work in an innovative organisation or career?

MI5, as part of their Secure Innovation initiative, have launched the [Five Principles of Secure Innovation campaign](#) to raise awareness of the increasing risks from state actors and AI to people, enterprises and businesses. This campaign covers all the 5 Eyes countries - USA/UK/Canada/Australia/New Zealand. Take a moment and better protect your work from malicious attack. Download the [Flyer](#) here.

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