



### Content

Internal news and events  
Spotlight on...  
GW4 AMR Alliance  
External news and events

## Internal news and events

### Have you signed up for **Microbes & Society @ Exeter** yet?



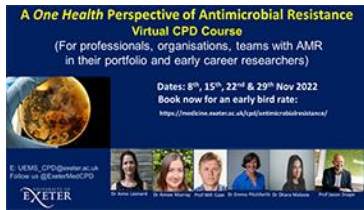
Microbes and Society is a new Exeter Research Network that builds on major centres of excellence at the University, including the Wellcome Centre for Cultures and Environments of Health, our own AMR Network, the Microbiology Networks, The Centre for the Study of Life Sciences (EGENIS) and the MRC Centre for Medical Mycology. Its aims are to include social, ethical, legal and policy perspectives into collaborative research, as well as integrating data science and mathematical modelling.

Sign up now for upcoming newsletters and event information: <https://bit.ly/3dH00EB>

Just a reminder that our **Researching Resistance** photo exhibition is up in Truro's [European Centre for Environment and Human Health](#) this **August and September!** These fifteen portraits celebrate antimicrobial research and its researchers at the University of Exeter and is a collaboration between artist Simon Ryder and the AMR Network. Representing a range of different research areas and career stages, **Researching Resistance** illustrates that AMR research requires the collaboration of people working across a full range of subjects.

The exhibition can be viewed in the ECEHH Atrium throughout August and September, Monday to Friday, and is also available to view [digitally](#).

## Reminder: A 'One Health' Perspective of Antimicrobial Resistance



A 'One Health' Perspective of Antimicrobial Resistance CPD (virtual) Course is offered by the University of Exeter College of Medicine and Health. Speakers include Dr Anne Leonard, Dr Aimee Murray and Prof Will Gaze. More information [here](#). Early bird discount available.

## OTHER NEWS

**Dr Aimee Murray's** work below features on the British Society for Antimicrobial Chemotherapy website: [One Health: Antimicrobial resistance beyond the clinic](#)

ESI/ ECEHH PhD student April Hayes participated in the 18th [International Symposium on Microbial Ecology](#) held 14-19 August 2022 in Switzerland.

If you have project updates or resources that you think might be of interest to other members of the Network, we would be pleased to highlight them through this monthly newsletter – contact us on [AMR-Network@exeter.ac.uk](mailto:AMR-Network@exeter.ac.uk)

## Publications

In addition to the publication below, Karen Mattick and colleagues have been invited to speak at a Medicines Safety day on 16th September. They were invited by Dr Andy Fox (Consultant Pharmacist for Medicines Safety and Deputy Chief Pharmacist at University Hospital Southampton NHFT) to talk about their collective prescribing work.

**Tipping the balance**

**Social mediators of activity**  
e.g. literacy, health literacy, and social norms

**Structural/Environmental mediators of activity**  
e.g. physical structures, built resources and time pressure/availability

**Complex antibiotic judgments**

Over-prescription → Evidence based prescription

**Antibiotic use and patient outcomes**  
Antibiotic resistance, antibiotic resistance, and costs

- Fear of negative patient outcomes, poor judgment and reputational damage
- Operational perception of the benefits of antibiotics (compared to safety net)
- Positive learning and experience
- Limited feedback on prescribing and patient outcome data (e.g. adverse effects)
- Document potential harm associated with antibiotic use
- Research that demonstrates AMR via microbial and longer term effects of resistance after misuse events
- High levels of antibiotic usage supports and a disincentive to audit opportunity

[Tipping the balance: A systematic review and meta-ethnography to unfold the complexity of surgical antimicrobial prescribing behavior in hospital settings | PLOS ONE](#)

Introduction. Antimicrobial resistance (AMR) poses a significant threat to patient safety, globally. Unless policies are successfully implemented to tackle its spread, by 2050, it is estimated that it will be responsible for ten million deaths annually []. There is a direct correlation between antimicrobial consumption and resistance [] so antimicrobial stewardship, encompassing the careful and ...

[journals.plos.org](https://journals.plos.org)

Purseley, E., Dimitriu, T., Gaze, W. H., Westra, E. R., & van Houte, S. (2022). [Modelling the distribution of antimicrobial resistance genes across geography, climate, host species and phylogroup in 16,000 E. coli genomes](#). *medRxiv*. (Preprint)

Garcia, F.C., Warfield, R. and Yvon-Durocher, G. (2022) [Thermal traits govern the response of microbial community dynamics and ecosystem functioning to warming](#). *Front. Microbiol.* 13:906252.

## GW4 AMR Alliance



### GW4 AMR Alliance

The [GW4 AMR Alliance](#) continues to welcome new members from all disciplines and working at any level.

#### How to join

Please sign up [here](#) to complete a short online registration form (this link can also be found on the [website](#) along with our Privacy Policy). If you have any queries, please do contact the AMR Alliance team at [amr@gw4.ac.uk](mailto:amr@gw4.ac.uk)

If you would like to find out more about the GW4 AMR Alliance and its aims, as well as hear about some of the research that is taking place across the four partner universities of Bath, Bristol Cardiff and Exeter, please have a look at the launch event [here](#).

### GW4 AMR Alliance ECR and PGR Network

The GW4 AMR Alliance ECR and PGR Network is working to develop its community network. You can find out more, including key contacts at each of the four partner universities and information on the developing events programme, on the dedicated webpage [here](#). There is also a link to join the network on the same page.

The next Lightning Talks event will be on **Monday 7 September**. This is an opportunity to participate in/hear short (3 min) talks from GW4 Alliance ECRs and PGRs working in a range of AMR disciplines and to network in smaller breakout groups hosted by committee members. Booking is now open via the attached link: <https://www.eventbrite.co.uk/e/lightning-talks-networking-event-gw4-amr-alliance-ecr-and-pgr-network-tickets-370442301897>

## External news and events

### Funding opportunities

MRC are holding a webinar for anyone applying for their New Investigator Research Grant (NIRG) scheme, on **13<sup>th</sup> September 2.00-3.30pm**. Sign up [here](#) to register to find out more about the scheme, get tips for your application and hear from successful applicants.

**Reminder of Funding Opportunity:** [Work with US researchers: BBSRC-NSF/BIO lead agency 2022](#)

**Opening date: 13 July 2022 09:00 UK time**

**Closing date: 21 September 2022 17:00 UK time**

Areas of focus: Proposals relevant to the following priority areas and agency programs are eligible to apply for this opportunity: Biological informatics, Systems understanding of host-microbe interaction, Synthetic cells and cellular systems, Synthetic microbial communities.

### Sector news

UKRI unveils plan to deliver outstanding research and innovation

<https://www.ukri.org/news/ukri-unveils-plan-to-deliver-outstanding-research-and-innovation/>

Colleagues at **Oxford University** have discovered antimicrobial resistant bacteria present in newborn children from low and middle income countries:

<https://www.ox.ac.uk/news/2022-08-05-antimicrobial-resistant-bacteria-found-newborn-children-low-and-middle-income>

Aidian (a Finnish based IVD company) have highlighted that AMR is a threat to child survival and health

<https://www.aidian.eu/news/antimicrobial-resistance-amr-is-a-threat-to-child-survival-and-health>

### Sector events

#### JPIAMR



<https://www.jpiamr.eu/events/social-sciences-as-a-cross-cutting-theme-in-amr-research-and-innovation/>



### **Biopesticides Cardiff 2022: A mini symposium**

Thursday 29, September 2022; 1 pm to 6 pm  
Cardiff School of Biosciences, Sir Martin Evans Building  
CF10 3AX, East 0.09 (Anatomy Lecture Room)



**Harnessing the natural order from metabolites to microbes to plants: the future of microbial biopesticides?**

[Register here](#)

In addition there are a number of events being run by AMR Insight, the global information platform on antimicrobial resistance – take a look here:

<https://www.amr-insights.eu/category/events/>



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