

Date: 5th December 2019

Venue: Berrill Lecture Theatre, Open University, Walton Hall, Milton Keynes, MK7 6AA.

	13:00	Registration and lunch
	13:50	Welcome by Dr Michael Macey
	14:00	Session 1: Plant associated microbiome
1	14:00	Adriana Torres-Ballesteros, Rothamsted Research Microbiome connectivity drives productivity in Oilseed Rape Crops
2	14:15	Andrew Griffiths, Bangor University Mortality of Young Plantation Oak in England: A multi-omic analysis of a serious bark disease
3	14:30	Ornella Carrion-Fonesca, University of East Anglia Development of molecular tools to study the role of microbes in the biogeochemical cycle of isoprene
4	14:45	Luke Hilary, Bangor University Life, but not as we know it: exploring RNA viral diversity in soils through viromics
5	15:00	Lisa Gibson, University of East Anglia Malaysian oil palm plantations: A hotspot for isoprene degradation?
6	15:15	Tessa Reid, Rothamsted Research Effect of chemical fertiliser on plant growth-promoting rhizobacteria in wheat
7	15:30	Sam Prudence, University of East Anglia <i>Streptomyces</i> , Type VII Secretion and a multi-domain analysis of the wheat root microbiome
	15:45	Coffee/Tea break
	16:15	Session 2: Marine microbiome
8	16:15	Birthe Zäncker, The Marine Biological Association of the UK The molecular microbial ecology of marine Transparent Exopolymer Particles – towards a single particle approach
9	16:30	Emese Bartha, University of Essex Extremophiles everywhere and the limits of microbial life
10	16:45	Eleonora Silvano, University of Warwick Uncovering the biosynthetic pathway and function of unusual aminolipids in the marine heterotrophic bacterium <i>Ruegeria pomeroyi</i>
11	17:00	Maria Magliulo, University of Essex Understanding longevity of halophiles in salt crystals
12	17:15	David Clark, University of Essex Extremely Halophilic Archaeal Communities are Resilient to Short-Term Entombment in Halite
	17:30	Poster session
	19:30	Conference dinner

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09:15	Keynote 1: Dr Sophie Nixon
09:45	Session 3: Metabolisms
09:45	Robert M.W. Ferguson, University of Essex Measuring the impact of a catastrophic pesticide spill using digital droplet PCR (ddPCR)
10:00	Greg Rix, University of East Anglia The Biodiversity of Phytate Cycling in Soils
10:15	Benjamin Gregson, University of Essex Protein expression in the obligate hydrocarbon-degrading psychrophile <i>Oleispira antarctica</i> RB-8 during alkane degradation and cold tolerance
10:30	Beth Williams, University of East Anglia Surface Marine Sediments are Factories for DMSP and the Climate Active Gas DMS
10:45	Phillip R.K. Pichon, University of Essex The Microbial Degradation of Acetaldehyde in Freshwater, Estuarine and Marine Environments: The Colne Estuary
11:00	Gareth Thomas, University of Essex Analysis of Agia Zoni II oil-spill: advancing oil-spill monitoring and response guidelines
11:15	Coffee/Tea break
11:45	Session 4: Nitrogen cycling
11:45	William Williams, University of Aberdeen Exploring Uncultivated Thaumarchaeota Through Coding Bias
12:00	Ryan Mushinski, Indiana University/University of Warwick A microbiological perspective on forest soil emissions of nitrogen oxides in a changing world
12:15	Jasmeet Bhambra, University of Aberdeen Higher sensitivity of ammonia-oxidising archaea than ammonia-oxidising bacteria to plant biological nitrification inhibitors
12:30	Chloe Wright, University of East Anglia Inhibition of ammonia monooxygenase from ammonia oxidising archaea by linear and aromatic alkynes
12:45	Session 5: Trace gases
12:45	Peter Rivera, University of East Anglia <i>Prymnesium parvum</i> blooms and DMSP: production, metabolism and its impact to the environment
13:00	Jess Palmer, University of Warwick The degradation of carbon monoxide (CO) by phyllosphere microbiota
13:15	Lunch
14:15	Keynote 2: Dr John Moreau
14:45	Ocean Ellis, University of East Anglia Using RNA-seq to investigate DMSP synthesis in <i>Labrenzia aggregata</i>
15:00	Jake Newitt, University of East Anglia Investigating NO as a potential recruitment signal for beneficial Streptomyces in the wheat root microbiome

	15:15	Tsola S.L, Queen Mary University London Microbial dimethylsulphide (DMS) degradation along the anoxic sediments of the Medway Estuary, UK
	15:30	Robin Dawson, University of East Anglia A unified mode of isoprene oxidation provides insight into the role of bacteria in the global isoprene biogeochemical cycle
	15:45	Mario Toubes-Rodrigo, Open University Non-competitive methanogenesis in sulphate-rich lakes
	16:00	Prize announcements