

	Thursday 15th April 2021 (all times BST)	
09:30	Welcome and Introduction	Gia Aradottir
09:40	Introduction to the Society and Housekeeping	Fran Sconce
	Session 1	Chair: Joe Roberts
09:50	Evolutionary genomics of specialism and generalism in aphids	Thomas Mathers
10:30	Low spontaneous mutation rate and Pleistocene radiation of pea aphids	Varvara Fazalova
10:50	New genomic and biological resources for the aphid <i>Myzus persicae</i> reveal the molecular and ecological processes underpinning the evolution of insecticide resistance	Chris Bass
11:10	Break	
11:30	A single clone of <i>Myzus persicae</i> dominates conventional, but not organic, bell pepper greenhouses in the Netherlands	Mariska Beekman
11:50	Unravelling the mechanism of resistance against bird cherry oat aphid (<i>Rhopalosiphum padi</i> L.) present in <i>Aegilops tauschii</i> Coss.	Jyoti Sharma
12:10	Evaluation of resistance to black bean aphid in breeding lines and mutation derived genotypes of common bean	Kennedy Zimba
12:30	Experimental and genomic approaches to understanding the clonal variation in <i>Sitobion avenae</i> across the UK	Beth Moore
12:50	Lunch	
	Session 2	Chair: Gia Aradottir
14:00	Follistatin gene evolution underlies pea aphid wing dimorphisms	Jenn Brisson
14:40	Transient wing polymorphisms in aphid males	Omid Saleh Ziabari
15:00	Developmental ecology of aphid hyperparasitoids	Jenna Shaw
15:20	<i>Myzus persicae</i> benefits from phloem enrichment of potato leaves caused by dark induced leaf senescence	Agustín I. López Gialdi
15:40	The cannabis aphid (<i>Phorodon cannabis</i> Passerini): a newly described vector of potato virus Y	William Jacob Pitt
16:00	Break	
16:40	Reducing aphids using soil microbes across variable environments	Sharon Zytynska
17:00	Let it Glow: Using Fluorescent Reporters to Explore How Wounding Contributes to the Plant Perception of Aphid Attack	Joshua R. Joyce
17:20	Fusarium head blight infection by Nivalenol chemotype of <i>F. graminearum</i> attracts <i>Sitobion avenae</i> in wheat	Amma L. Simon
17:40	End of Day 1 Thanks and until tomorrow	

	Friday 16th April 2021 (all times BST)	
09:30	Welcome and Introduction	Gia Aradottir
09:35	Recap on Housekeeping	Fran Sconce
	Session 3	Chair: Amma Simon
09:40	Greater nitrogen application rates increase aphid population under future CO ₂ level	Eva Carreras Navarro
10:00	Female-female competition leads to female-biased sex allocation in a gall-forming aphid (Aphididae: Eriosomatinae)	Xin Tong
10:20	Improved in-crop monitoring and use of trap cropping as novel approaches to the integrated pest management of aphid BYDV vectors in winter cereals	Maria Leandro
10:40	Learning-induced maintenance of diversity in aphid-parasitoid-symbiont systems & the effects of drought stress and spatial heterogeneity	Katharine Preedy
11:00	Arctic Aphids Aliens: A rising threat	Karina Wieczorek
11:20	Break	
11:40	Modelling aphid arrival in the UK using spatial and environmental factors	Ken Newman
12:00	Discussion session: Novel technologies introduction	
	Using deep learning to differentiate between aphids species in crowdsourced imagery	Thomas Chen
	The application of machine learning to improve the prediction of aphid phenology using dynamic environmental variables	Paul Holloway
12:30	Discussion	
13:00	Lunch	
	Session 4	Chair: Daniel Leybourne
14:00	Interview Roger Blackman	
14:40	Buchnearer – a tool for estimating <i>Buchnera</i> population size	Edward B. James
15:00	Characterising an amino acid transporter of the pea aphid symbiosomal membrane.	Catriona M.H. Anderson
15:20	Aphid-associated bacteria interfere with virus transmission between host plants	Uxue Rezola
15:40	Break	
16:00	Mechanisms of metabolic integration of <i>Acyrtosiphon pisum</i> and its endosymbiont <i>Buchnera</i> are dissimilar in the maternal and embryonic bacteriomes	Hsiao-ling Lu
16:20	Aphid secondary endosymbionts in Dutch field and greenhouse populations	Helena Donner
16:40	End of meeting discussion	
17:15	End of Day 2: Thanks and feedback	