



**Royal
Entomological
Society**
Special Interest Group
Aphids

Aphids SIG Meeting

Thursday 18 July

Online, 09:15 – 16:00 (BST)

Time	Details
09:15 – 09:30	Welcome and Introductions
09:30 – 09:55	Keynote: James Bell, Keele University Virus yellows' in sugar beet: is there a technological solution for early detection before leaves yellow?
09:55 – 10:10	Martin Luquet, Université de Pau et des Pays de l'Adour Predicting seasonal aphid flight activity to trigger mitigation measures against Virus Yellows in sugar beet
10:10 – 10:25	Lawrence Bramham, Rothamsted Research Pursuing aphid resistance and improved knowledge of UK barley yellow dwarf virus (BYDV) variation
10:25 – 10:40	Jack Perry, Teagasc & Harper Adams University Comparing aphid monitoring tools for BYDV, what we've learnt after year one
10:40 – 10:55	Alexander Borg, Rothamsted Research Investigating the aphid resistance mechanisms of <i>Triticum monococcum</i> (L.)
10:55 – 11:00	Ayesha Warnasooriya, Food Futures Institute, Murdoch University Current Status of the Russian Wheat Aphid (<i>Diuraphis noxia</i>) in Australia
11:00 – 11:05	John Owen, Harper Adams University To me, to you - developing a push-pull system for sustainable management of aphid pests in seed and ware potato crops
11:05 – 11:10	Final questions
11:10 – 11:25	Break
11:25 – 11:50	Keynote: Meriska Beekman, Wageningen University & Research Attack of the clones – how one genotype of <i>Myzus persicae</i> took over the Dutch sweet pepper glasshouses
11:50 – 12:05	Laura Martinez-Chavez, Harper Adams University Clonal differences in the potato aphid (<i>Macrosiphum euphorbiae</i>) determine responses to an aphid parasitoid
12:05 – 12:20	Raphaël Lukan, Avignon University & PSH Peach and aphid "omics" analysis suggest that the major resistance gene <i>rm2</i> in peach causes antixenosis in <i>Myzus persicae</i> by drastically reducing the nutritional value of apices

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12:20 – 12:35	Matteo Gravino, John Innes Centre Aphid effector interacts with AMSH deubiquitinases to suppress pattern-triggered immunity
12:35 – 12:50	Jay Goldberg, John Innes Centre Towards understanding the genetic basis of polyphagy in the green peach aphid (<i>Myzus persicae</i>)
12:50 – 13:05	Ricardo José, Gonzaga Pimenta, Universidade Estadual de Campinas Sugarcane yellow leaf virus impairs the transcriptomic responses of sugarcane to an aphid vector
13:05 – 13:10	Virgile Ballandras, Maynooth University Development of a DNA metabarcoding assay for detecting various aphid species in bulk insect samples
13:10 – 13:15	Marta Chignola, Free University of Bozen-Bolzano Unraveling the biology of the invasive apricot aphid (<i>Myzus mumeicola</i>)
13:15 – 13:20	Final questions
13:20 – 14:00	Lunch
14:00 – 14:30	Keynote: Dave Chandler, Warwick University & Andy Gladman (ADAS Horticulture) An IPM strategy for aphid control on brassica plants combining partial host plant resistance and biologically based controls
14:30 – 14:45	Md Munir Mostafiz, Teagasc Life-history traits of English grain aphid, <i>Sitobion avenae</i> (Fabricius) on winter barley
14:45 – 15:00	Alice Casiraghi, Natural Sciences Museum of Barcelona Strangers on neglected plants: poorly-studied aphids on native Mediterranean weeds and bushes.
15:00 – 15:15	Hayden Tempest, Harper Adams University & NIAB <i>Forficula auricularia</i> as a natural enemy of woolly apple aphid in commercial apple orchards
15:15 – 15:20	Millie Small, BugBiome Bio-innovations: Are microbes the future of aphid control
15:20 – 15:25	Nikoletta Foskolou, Harper Adams University Enhancing biological pest control: olfactory conditioning of parasitoid wasps
15:25 – 15:30	Daisy Scott, University of Bristol Winter-active parasitoids and pollinators: using a metabolomic approach to uncover potential resource competition between <i>Aphidius ervi</i> and <i>Bombus terrestris</i>
15:30 – 15:35	Mst Atikunnaher, University of Warwick Integrated Pest Management of Willow Carrot Aphids
15:35 – 15:50	Wrap up and close