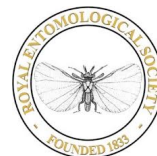




**Biologie Adaptative des Pucerons
et Organismes Associés**



**Aphids Special Interest Group
Royal Entomological Society**

UK – French joint meeting on Aphids 5-6 November 2015 – Paris (France)

Programme

Thursday 5th November

9h00 – 10h00 Registration (with tea/coffee)

10h00 – 10h10 Welcome and introduction

Chair: Federica Calevro

10h10 – 10h50 Invited presentation

Takema Fukatsu (*National Institute of Advanced Industrial Science and Technology - Japan*)

Symbiosis, evolution and biodiversity

10h50 – 11h15 2 x 12.5 min talks

Colin Turnbull (*Imperial College London - UK*)

Genetics of virulence in pea aphid. [Turnbull C., Kanvil S., Selby M., Powell G.]

Steve Foster (*Rothamsted Research - UK*)

Insecticide resistance: the attack of the clones. [Foster S., Malloch G., Fenton B., Williamson M.]

11h15 – 11h45 Refreshment break

Chair: Richard Harrington

11h45 – 12h50 5 x 12.5 min talks

Sam Mugford (*John Innes Centre - UK*)

Discovery of effector proteins that modulate plant-insect interactions in the genome of *Myzus persicae*. [Mugford S., Drurey C., Chen Y., Mathers T., Van Oosterhout C., Swarbreck D., Hogenhout S.]

Grit Kunert (*Max-Planck Institute for Chemical Ecology - Germany*)

Who is manipulating whom? - The relationship between pea aphid biotypes and their host plants. [Kunert G.]

Jens Joschinski (*University of Würzburg - Germany*)

Day length constraints and diurnal activity of the pea aphid. [Joschinski J., Krauss J.]

Freddy Tjallingii (*EPG systems - Netherlands*)

Early sieve element interactions during stylet penetration. [Tjallingii W.F.]

Thomas Mathers (*The Genome Analysis Centre - UK*)

Evidence for ancient expansions of gene families in aphids and genome streamlining in *M. persicae*. [Mathers T., Chen Y., Mugford S., Van Oosterhout C., Swarbreck D., Hogenhout S.]

12h50 – 14h00 Lunch



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Chair: Marylène Poirié

14h00 – 15h15 6 x 12.5 min talks

Yazhou Chen (*John Innes Centre - UK*)

Transcription plasticity of specific gene families are involved in *Myzus persicae* adaptation to diverse plant species. [Chen Y., Mathers T., Mugford S., Van Oosterhout C., Swarbreck D., Hogenhout S.]

Hugh Loxdale (*University of Cardiff - UK*)

Ghost of the clones. [Loxdale H.D.]

Martin Drucker (*INRA BGPI - France*)

TuMV aphid transmission activation. [Drucker M.]

Craig Webster (*INRA BGPI - France*)

Stylin-1, the first protein located in the acrostyle and its role in non-circulative virus transmission by aphids. [Webster C., Hoh, F., Van Munster M., Gargani D., Padilla A., Bron P., Blanc S., Uzeit M.]

Alexandra Schoeny (*INRA Pathologie Végétale - France*)

Relationship between *Aphis gossypii* population dynamics and Cucurbit aphid-borne yellows virus (CABYV) epidemics in melon crops. [Schoeny A., Gognalons P., Wipf-Scheibel C., Millot P., Nozeran K., Lecoq H.]

Lise Roy (*Université de Montpellier - CEFV - France*)

Dynamics of insecticide resistance alleles in the green peach-potato aphid *Myzus persicae*. [Roy L., Barrès B., Capderrey C., Rohrlach C., Fontaine S., Micoud A., Simon J-C.]

15h15 – 15h45 Refreshment break

Chair: Simon Leather

15h45 – 17h00 6 x 12.5 min talks

David Hopkins (*University of Sheffield - UK*)

The chemical ecology of divergent host plant acceptance behaviour in the speciation in the pea aphid (*Acyrtosiphon pisum*). [Hopkins D., Butlin R., Cameron D.]

Christoph Vorburger (*ETH Zurich and Eawag - Switzerland*)

Bacterial endosymbionts protect aphids in the field and alter parasitoid community composition. [Vorburger C., Rothacher L.]

Marylène Poirié (*Institut Sophia Agrobiotech - France*)

Cellular immunity of the pea aphid and interaction with symbionts. [Villalba J., Schmitz A., Tares S., Gatti J-L., Poirié M.]

Ryuichi Koga (*National Institute of Advanced Industrial Science and Technology - Japan*)

Making the world colorful with FISH. [Koga R.]

Gaël Le Trionnaire (*INRA IGEPP - France*)

From non-coding RNAs to epigenetics: integrative genomics to understand reproductive polyphenism regulation in the pea aphid. [Le Trionnaire G., Legeai F., Wucher V., Richard G., Leterme-Prunier N., Jaquiéry J., Jaubert-Possamai S., Hudaverdian S., Tanguy S., Nicolas J., Seitz H., Derrien T., Gallot A., Tagu D.]

Charles Dedryver (*INRA IGEPP - France*)

From the XVII to the XX century, the main steps of understanding aphid biology. [Dedryver C-A., Pierre J-S.]

17h00 – 18h30 Poster session (*see below the list of posters*)

18h45 – 22h00 Conference dinner



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Friday 6th November

Chair: Christoph Vorburger

9h15 – 10h05 4 x 12.5 min talks

Emilie Bosquée (*Gembloux Agro-Bio Tech – Université de Liège - Belgium*)

Multitrophic interactions between plants-viruses-aphidiphagous. [Bosquée E., Lopes T., Boullis A., Heuskin S., Sarles L., Fassotte B., Lognay G., Verheggen F., Francis F.]

Claire Drurey (*John Innes Centre - UK*)

The *Myzus persicae* effector Mp10 suppresses ROS and Ca²⁺ bursts and modulates PAMP-triggered immunity. [Drurey C., Prince D., Zipfel C., Hogenhout S.]

Samir Fakhour (*ELIB - Université Catholique de Louvain - Belgium*)

Diversity and geographic distribution of major cereal aphids' bacterial communities in Morocco. [Fakhour S., Ambroise J., Foray V., Hance T.]

Thomas Vincent (*John Innes Centre - UK*)

Defending plants against the World's most pesticide-resistant insect, *Myzus persicae*: a role for calcium. [Vincent T., Mugford S., Pitino M., Toyota M., Gilroy S., Miller T., Hogenhout S., Sanders D.]

10h05 – 10h35 Refreshment break

Chair: Saskia Hogenhout

10h35 – 11h25 4 x 12.5 min talks

Emmanuelle Jousselin (*INRA-CBGP - France*)

Role of host-plant adaptation and symbiont associations in the diversification of a globally distributed aphid genus (Lachninae: Cinara). [Jousselin E., Meseguer S.A., Clamens A-L., Coeur d'Acier A.]

Frederic Francis (*Gembloux Agro-Bio Tech – Université de Liège - Belgium*)

How to control aphid: basic to applied multidisciplinary approaches, from lab to field. [Francis F.]

Mélanie Leclair (*INRA IGEPP - France*)

Phenotype diversity in pea aphids carrying the *Hamiltonella defensa* bacteria. [Leclair M., Pons I., Mahéo F., Van Gheluwe C., Toussain G., Gauthier J-P., Denis G., Le Gallic J-F., Simon J-C., Outreman Y.]

Antoine Boullis (*UEFE - Gembloux Agro-bio Tech - Belgium*)

Impact of atmospheric change in CO₂ concentration on aphid escape behavior. [Boullis A., Appeldoorn C., Oostrom M., Francis F., Verheggen F.]

Co-chairs: Jean-Christophe Simon & Denis Tagu

11h25 – 12h15 Plenary discussion

12h15 – 13h30 Lunch



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Chair: Jim Hardie

13h30 – 14h45 6 x 12.5 min talks

Véronique Brault (INRA SVQV - France)

A synthetic aphid virus for gene functional validation. [Clavijo G., Rustenholz C., Calevro F., Ogliastro M., Simon J-C., Monsion B., Boissinot S., Mulot M., Bochet N., Reinbold C., Brault V.]

Enric Frago (Laboratory of Entomology, Wageningen University - Netherlands)

Bacterial symbionts mediate complex interactions between aphids and parasitic wasps. [Frago E., Mala M., Godfray H.C., Dicke M., Gols R.]

Ailsa McLean (University of Oxford - UK)

Effects of endosymbionts on natural enemy resistance in pea aphids. [McLean A., Hrček J., Parker B., Godfray C.]

Chris Bass (Rothamsted Research - UK)

Metabolic resistance to natural and synthetic xenobiotics in the aphid, *Myzus persicae*. [Bass C.]

Stéphane Blanc (INRA BGPI - France)

A plant virus is a long-life potion for aphid vectors. [Yvon M., Michalakakis Y., Blanc S.]

Quentin Chesnais (Université de Picardie - BIPE - France)

Convergence of aphid manipulation by phytoviruses according to their mode of transmission: is it always the case? [Chesnais Q., Couty A., Uzest M., Brault V., Ameline A.]

14h45 – 15h15 Refreshment break

Chair: Véronique Brault

15h15 – 16h30 6 x 12.5 min talks

Arnaud Sentis (Université de Toulouse - ENFA - France)

Impacts of warming, trophic interaction and interclonal competition on life history traits, phenotypic plasticity, and population dynamics of a pink and a green clone of the pea aphid. [Sentis A., Kondratow F., Achkar T., Danchin E., Hemptinne J-L.]

Pierre Simonet (INRA/INSA-Lyon BF2I - France)

Direct flow cytometry measurements and cell imaging reveal a fine-tuning of endosymbiont and bacteriocyte cell dynamics during aphid development. [Simonet P., Duport G., Gaget K., Balmand S., Colella S., Febvay G., Charles H., Heddi A., Calevro F.]

James Bell (Rothamsted Research - UK)

Climate change impacts on aphid migration. [Bell J.R., Henrys P.A., Thackeray S.J., Harrington, R.]

Julien Bauwens (University of Liege - Gembloux Agro-Bio Tech - Belgium)

Impact of *Regiella insecticola* infection on EBF production in *Acyrtosiphon pisum* Harris. [Bauwens J., Mazzuchelli G., De Pauw E., Tsuchida T., Francis F.]

Alejandro Manzano-Marin (University of Valencia - Spain)

A tale of two symbionts: diversity of secondary co-obligate symbionts in the Lachninae subfamily. [Manzano-Marin A., Szabo G., Simon J-C., Horn M., Latorre A.]

Larissa Collins (Fera - UK)

In-field aphid monitoring and virus transmission in UK crops. [Collins L.]

16h30 – 16h45 Conclusions and depart



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Posters

Sanaa Abed (*Swansea University - UK*)

Biodiversity of natural enemies and the control of agricultural pests. [Abed S.N., Griffin J.N., Fowler M.S.]

Gia Aradottir (*Rothamsted Research - UK*)

Dreams and reality: searching for wheat resistance to cereal aphids. [Aradottir G., Martin J., Pickett J., Clark S., Smart L.]

Refka Ben Issa (*INRA - PSH - France*)

Effect of intercropping pepper with companion plants on the settling of aphid population under greenhouses conditions. [Ben Issa R., Gomez L., Gautier H.]

Florent Bogaert (*Université de Picardie - BIPE - France*)

How nitrogen fertilization may influence crop resistance to aphids : the case of *Miscanthus*, a promising biomass crop . [Bogaert F., Chesnais Q., Doury G., Catterou M., Rambaud C., Dubois F., Ameline A.]

Aude Couty (*Université de Picardie - BIPE - France*)

Effects of a phytovirus on the foraging behaviour and life history traits of an aphid parasitoid. [Moiroux J., Chesnais Q., Verrier E., Ameline A., Couty A.]

Tarek Dardouri (*INRA PSH - France*)

Behavioral response of green peach aphid to volatiles from different rosemary clones. [Dardouri T.]

Emyr Davies (*Rothamsted Research - UK*)

An evolutionarily-unique heterodimeric voltage-gated cation channel found in aphids. [Amey J., Burton M., O'Reilly A., Puinean M., Grzeskowiak J., Williamson M., Mellor I., Duce I., Field L., Wallace B., Davies T.G.E.]

Damian De Marzo (*Fera - UK*)

The highs and lows of yellow water trap aphid monitoring. [De Marzo D.]

Anastase Harelimana (*ELIB - Université Catholique de Louvain - Belgium*)

Varietal screening based on demographic parameters: resistance of coffee to *Toxoptera aurantii*. [Harelimana A., Hance T., Rukazambuga D., Legoff G., Migon M.]

Heïdi Kaech (*Eawag - Switzerland*)

Symbiont-conferred resistance compromises aphid control by parasitoids. [Kaech H., Vorburger C.]

Rachel Kehoe (*University of Exeter - UK*)

Experimental evidence for the population-dynamic mechanisms underlying extinction cascades of carnivores. [Sanders D., Kehoe R., van Veen F.]

Thomas Lopes (*Gembloux Agro-Bio Tech - ULg - Belgium*)

Species diversity of aphids and their natural enemies in crop associations. [Lopes T., Hatt S., Starý P., Japoshvili G., Francis F.]

Hugo Mathé-Hubert (*Eawag - Switzerland*)

Defensive symbiosis in aphids – linking within host mechanisms with ecology and evolution. [Mathé-Hubert H., Kaech H., Vorburger C.]



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Michaël Mulot (INRA Colmar - France)

Intestinal membrane proteins of *Myzus persicae* involved in polerovirus transmission. [Mulot M., Boissinot S., Rastegar M., Monsion B., Brault V.]

Ferran Palero (INRA-PACA - France)

Metagenomic analysis of *Macrolophus pygmaeus* (Hemiptera: Miridae). [Palero F.]

Valentin Pierson (ELIB - Université Catholique de Louvain - Belgium)

Exploring the place of *Serratia symbiotica* in the symbiotic interaction between ants and aphids. [Pierson V., Renoz F., Foray V., Hance T.]

Inès Pons Guillard (ELIB - Université Catholique de Louvain - Belgium)

Costs, benefits and immune defences in the relationship between insects and symbiotic bacteria. [Pons I., Renoz F., Hance T.]

François Renoz (ELIB - Université Catholique de Louvain - Belgium)

A comprehensive proteome map of an insect symbiont for better understanding the mechanisms of symbiosis. [Renoz F., Champagne A., Degand H., Faber A-M., Foray V., Hance T.]

Gautier Richard (INRA IGEPP - France)

Genome scale identification of open chromatin regions in the pea aphid. [Richard G., Legeai F., Leterme-Prunier N., Jaquiéry J., Le Trionnaire G., Tagu D.]

Aurélien Sallé (LBLGC – Université d'Orléans - France)

Gall-inducing aphid depletes the reserves of its host tree. [Sallé A., Jerger R., Vincent-Barbaroux C., Bourgerie S., Lieutier F.]

Laurent Serteyn (Gembloux Agro-Bio Tech – Université de Liège - Belgium)

Hemipteran - host plant interactions: focus on some model insects saliva. [Serteyn L., Moreau S., Delatour A., Francis F.]

Akiko Sugio (INRA IGEPP - France)

Plant-aphid-symbiont interactions: what are the factors that maintain their association? [Sugio A., Morlière S., Guy E., Boulain H., Jousseau T., Le Gallic J-F., Aigu Y., Schaedel K., Rispe C., Nouhaud P., Legeai F., Outreman Y., White F., Simon J-C.]

Maria Zhang (University of Reading - UK)

The influence of climate on autumn UK abundance of the *Rhopalosiphum padi*. [Zhang H., Harrington R., Breeze T., Bailey A., Potts S.]



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