

Effectome meeting IX, November 16-18 2016, Lauret, FR

Wednesday November 16th

14h00-14h15 Welcome and Introductory Remarks by the Organizers

Insects & Nematodes

Chair: Akiko Sugio & Bruno Favery

14h15-15h00 Isgouhi Kaloshian (University of California Riverside – Department of Nematology, USA) Deciphering the role of effectors of aphids and associated microbes in modulating plant immunity and metabolism

15h00-15h20 Endrick Guy (INRA Rennes, FR) Optimization of agroinfiltration in *Pisum sativum* provides a new tool to perform functional analysis of salivary genes involved in the host plant adaptation of the pea aphid

15h20-15h40 H  l  ne Boulain (INRA Rennes, FR) Functional analyses of candidate aphid effectors

15h40-16h00 Maira Grossi De Sa (IRD Montpellier, FR). Characterization of *Meloidogyne spp.* effectors involved in rice-nematode interactions.

16h00-16h25: Break

16h30-17h15 Geert Smart (Wageningen University-Laboratory of Nematology, NL) Damage control by plant-parasitic nematodes.

17h15-17h35 Bruno Favery (INRA-UNS-CNRS Sophia Antipolis, FR) Update on the characterization of root-knot nematode effectors

17h35-17h50 Joffrey MEJIAS (INRA-UNS-CNRS Sophia Antipolis, FR) Characterization of root-knot nematode effectors targeting host nuclear functions, and identification of their plant targets.

Session 3: Bacteria & Viruses

Chair: Boris Szurek & Nemo Peeters

17h50-18h35 Vicente PALLAS (University of Valencia, ES) Viral coat proteins as inducers and/or targets of the plant cell defences.

19h00-20h00: Aperitif

20h15: Dinner

Thursday November 17th

8h45-9h30 Niklas SCHANDRY (University of T  bingen, DE) Elucidating the diversity and host target genes of *Ralstonia solanacearum* TALE-likes.

9h30-9h50 Christophe GARCION (INRA, Bordeaux, FR) Towards a functional characterization of flavescence doree phytoplasma effectors

9h50-10h10 Fabien LONJON (INRA, Toulouse, FR) How do type 3-associated proteins control *Ralstonia solanacearum* pathogenicity?

10h10-10h25 Alice Morel (INRA, Toulouse, FR) Tomato targets of the RipH1, 2, 3 type III effectors from *Ralstonia solanacearum*, towards the understanding of contribution to disease.

10h25-10h50: Break

10h50-11h10 Alvaro Perez-Quintero (IRD, Montpellier, FR) Code-cracking TAL effector function and evolution.

Fungi & Oomycetes

Chair : Thomas Kroj & Sebastien Duplessis

11h10-11h55 Francine GOVERS (Wageningen University, NL) *Phytophthora infestans* RXLR effector AVR1 and its host target Sec5.

11h55-12h15 Isabelle FUDAL (INRA, Grignon, FR) *Transcriptional and chromatin-based control of effector gene expression in the plant pathogenic fungus Leptosphaeria maculans*

12h15-12h30 Colin CLAIRET (INRA, Grignon, FR) Investigating the involvement of the heterochromatic-associated histone modification, H3K27me3, in the control of effector gene expression in *Leptosphaeria maculans*

LUNCH 12h30 - 13h45

14h00-16h30: Walk

16h30-17h00: Refreshments

17h00-17h45 Ralf DEAN (North Carolina State University, USA) Identification and Characterization of Suppressors of Plant Cell Death (SPD) Genes from *Magnaporthe oryzae*

17h45-18h00 Maira de FREITAS PEREIRA (INRA, Nancy, FR) The role of Small Secreted Proteins (SSPs) in the interaction of the ectomycorrhizal fungus *Cenococcum geophilum* with its host plants

18h00-18h20 Jean Baptiste LOPEZ (Aarhus University, DK) High throughput investigation of *Ramularia* effectors in Barley

18h20-18h40. Cecile LORRAIN (INRA, Nancy, FR) Poplar rust candidate effectors: challenges of functional characterization in a non-model pathosystem

20h00: Dinner

Friday November 18th

9h00-9h45 Bart THOMMA (Wageningen University, NL) The two-speed genome of *Verticillium dahliae* mediates emergence of potent virulence factors

9h45-10h00 Fanny HARTMANN (ETH Zürich, CH) A segregating gene deletion polymorphism is linked to pathogenicity in natural populations of the fungal wheat pathogen *Zymoseptoria tritici*.

10h00-10h20 Emmanuel SZADKOWSKI (INRA, Avignon, FR) Screening *a priori* durable resistance in tomato to *Phytophthora infestans* using its pathogenicity effectors

10h20-10h35 Marc-Henri LEBRUN (INRA, Grignon, FR) Are there avirulence genes among *Zymoseptoria tritici* effectors displaying presence/absence polymorphisms?

10h35-11h00: Break

11h05-11h25 Clemence PLISSONNEAU (ETH Zürich, CH) *The evolution of orphan regions in genomes of a fungal pathogen of wheat*

11h25-11h40 Claire-Line MARAIS (INRA, Grignon, FR) *In planta* localization of *Leptosphaeria maculans* effectors and identification of their plant targets

11h40-12h00 Annegret KOHLER (INRA, Nancy, FR) Exploring the role of Mycorrhiza-induced Small Secreted Proteins

12h00-12h20 Thomas KROJ (INRA, Montpellier, FR) Frequent and widespread integration of decoy domains derived from protein targets of pathogen effectors into plant NLR immune receptors

Concluding Remarks by the Organizers

Lunch at Auberge du Cèdre or Lunch packages