

Effectome meeting VIII, September 16-18 2015, Lauret, FR

Wednesday September 16th

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

Session 1: Insects & Nematodes

Chair: Akiko Sugio & Bruno Favery

14h15-15h00 Saskia Hogenhout (John Innes Centre, Norwich, UK) Multitasking, how single bacterial virulence proteins modulate plant development and attract insect vectors

15h00-15h20 Endrick Guy (INRA Rennes) Characterization of aphid saliva proteins that can be involved in host plant specialization

15h20-15h40 Maelle Jaouannet (James Hutton Institute, UK) Characterization of Arabidopsis host and non-host responses to aphids

15h40-16h00 Sam Mugford (John Innes Centre, Norwich, UK) Discovery of effector proteins that modulate plant-insect interactions in the genome of the green peach aphid

16h00-16h25: Break

16h30-17h15 Shahid Siddique (University of Bonn, Germany) A plant-parasitic nematode releases cytokinins that control cell division and orchestrate feeding-site formation in host plants.

17h15-17h35 Xinrong Wang (South China Agricultural University, China) A putative effector PDCD6 from *Meloidogyne incognita* modulating the host giant cell apoptosis in tomato (*Lycopersicon esculentum* Mill).

17h35-17h55 Nghia Nguyen (INRA-UNS-CNRS Sophia Antipolis, FR) Comprehensive Transcriptome Profiling of Root-knot Nematodes During Plant Infection and Characterization of Species-Specific Traits

17h55-18h15 Anne-Sophie Petitot (IRD Montpellier, FR) Search for effectors in root-knot nematode-rice interactions.

19h00-20h00: Poster viewing

20h15: Dinner

Thursday September 17th

Session 2: Fungi & Oomycetes

Chair : Thomas Kroj & Sebastien Duplessis

8h45-9h30 Tolga Bozkurt (Imperial College, London, UK) How host cell's intracellular transport systems are coopted by plant pathogenic oomycetes?

9h30-9h50 Laurent Camborde (LRSV, Toulouse, FR) Detection of DNA-Effector protein interactions in planta using FRET-FLIM

9h50-10h10 Gaetan Maillot (INRA, Avignon, FR) RNA-Seq study of host resistance and isolate aggressiveness on gene expression in *Phytophthora capsici*

10h10-10h30 Stella Césari (CSIRO, Canberra, AU) Cytosolic activation of cell death and stem rust resistance by self-interacting MLA-related CC-NLRs.

10h30-10h55: Break

11h00-11h20. Emilie Chanclud (Université Montpellier/INRA, Montpellier, FR) Cytokinins produced by the rice blast fungus are dual effectors required for virulence

11h20-11h40. Sebastien Duplessis (INRA, Nancy, FR) Specific expression of candidate effectors of the rust fungus *Melampsora larici-populina* during infection of its two host plants, larch and poplar

11h40-12h00. Johann Petit (INRA, Grignon, FR) A two genes – for – one gene interaction between *Leptosphaeria maculans* and *Brassica napus*

12h00-12h20. Catherine Sirven (Bayer Cropscience, Lyon, FR) Disease Control approaches at Bayer

LUNCH 12h20 – 13h45

13h50-14h10 Thomas Kroj (INRA, Montpellier, FR) Structure analysis uncovers the highly diverse but structurally conserved MAX-effector family in phytopathogenic fungi

14h10-14h30 Clement Pellegrin (INRA, Nancy, FR) MiSSP8, a lectin-like protein required for the establishment of ectomycorrhizal symbiosis

14h30-14h50 Elisabeth Fournier (INRA, Montpellier, FR) Deciphering genome content and evolutionary relationships of isolates from the fungus *Magnaporthe oryzae* attacking different host plants

14h50-15h10 Benjamin Petre (The Sainsbury Laboratory & INRA Nancy) Fast-forward effectoromics of rust fungi

15h10-15h35: Break

Session 3: Bacteria and Viruses

Chair: Valerie Nicaise, Boris Szurek & Nemo Peeters

15h35-16h20 Alexandre Jamet (MICALIS, INRA Jouy en Josas, FR) The human Four-and-a-Half LIM Domains Protein 2 interacts with ElrA, a virulence factor of *Enterococcus faecalis*

16h20-17h05 Etienne Delannoy (IPS2, Paris Saclay Institute of Plant Sciences, FR) Genomic tools for a genome wide analysis of plant responses to pathogen

17h30-18h30 Poster viewing

19h15-20h15: Apéritif

20h30: Dinner

Friday September 18th

8h45-9h30 Mikhail Poogin (University of Basel, CH) Effector proteins of plant pararetroviruses in suppression of RNA silencing- and innate immunity-based plant defenses.

9h30-9h50 Valerie Nicaise (INRA, Bordeaux, FR) The capsid protein of Plum pox virus suppresses plant PTI responses

9h50-10h10 Laurent Noel (CNRS, Toulouse, FR) Immunities at hydathodes

10h10-10h30 Tu Tran (IRD, Montpellier, FR) Functional analysis of the TALome of African *Xanthomonas oryzae* pv. *oryzae* reveals a novel strategy to promote virulence

10h30-10h55: Break

10h55-11h15 Ralf Koebnik (IRD, Montpellier, FR) Evolution of Pathogenicity Beyond Type III Effectors in *Xanthomonas*

11h15-11h35 Nemo Peeters (CNRS, Toulouse, FR) *Ralstonia solanacearum* core T3E analysis

11h35-11h55 Lionel Gagnevin (IRD, Montpellier, FR) Microevolution of TAL effector genes in *Xanthomonas citri* pv. *citri* during a Citrus canker epidemic

11h55-12h15 Boris Szurek (IRD, Montpellier, FR) A rice blast resistance gene confers resistance against BLB and BLS

Concluding Remarks by the Organizers

Lunch at Auberge du Cèdre or Lunch packages