



Effectome meeting VI, September 25-27 2013, Lauret, France

Wednesday September 25th

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

Session 1: Bacteria

Chair: Boris Szurek & Nemo Peeters

14h15-15h00. Allyson MacLean (John Innes Center, UK) *Nipped in the bud: a bacterial effector that degrades MADS-box proteins in a RAD23-dependent manner.*

15h00-15h20. Jonathan Jacobs (University of Wisconsin, USA) *PopS, an ancient effector in Ralstonia solanacearum, is required to suppress SA-mediated defenses during bacterial wilt of tomato.*

15h20-15h40. Adriana Bernal (U. los Andes, COL) *Plant defense suppression mediated by Xanthomonas axonopodis pv. manihotis type III effectors.*

15h40-16h00. Magdalena Krzymowska (Institute of Biochemistry and Biophysics, PL) *Interactions of HopQ1, a type III secretion effector from Pseudomonas syringae, with host 14-3-3 proteins.*

16h00-16h20. Simon Saucet (Sainsbury Laboratory, UK) *RPS4B and RRS1B form a new R gene pair recognizing the P. syringae effector AvrRps4 in Arabidopsis.*

16h20-16h50: Break

16h50-17h10 Lionel Gagnevin (CIRAD, FR) *Variation in the TAL repertoire of Xanthomonas citri pv. citri and pathotypic specificity.*

17h10-17h30 Orlando de Lange (University of Munich, DE) *A menagerie of TALEs - the functions of TAL effector like proteins in diverse plant-pathogen interactions.*

17h30-17h50 Nicolas Denancé (CNRS/INRA Toulouse, FR) *Identification of a large TAL effector repertoire in Xanthomonas campestris pathovars and their plant targets.*

17h50-18h10 Jana Streubel (Halle University, DE) *TAL-Effector repeats and their specificities.*

18h10-18h30 Alvaro Perez (IRD, FR) *An improved method for TAL effectors DNA-binding sites prediction reveals functional convergence in TAL repertoires of Xanthomonas oryzae strains.*

18h30-18h50 Montserrat Sole (Halle University, DE) *Delivery of TALENs for rice genome editing.*

19h15-20h15: Apéritif & Poster viewing

20h30: dinner

Thursday September 26th

Session 2: Nematodes, Viruses & Insects

Chair: Bruno Favery & Akiko Sugio

8h30-9h15. Lieve Gheysen (University of Gent, BE) A molecular update on nematode spit.

9h15-9h35. Michael Quentin / Bruno Favery (INRA Sophia Antipolis/UNS/CNRS, FR) Update on Root-knot nematode nuclear effectors and characterization of their plant targets

9h35-9h55. Tina Kyndt (University of Gent, BE) Nematode-induced transcriptional changes in rice.

9h55-10h15. Valerie Nicaise (INRA Bordeaux, FR) Deciphering plant virus effectors

10h15-10h45: Break

10h45-11h05. Leslie Dutartre / Nathalie Boissot (INRA Avignon) Which strategies to search for avirulence factor in resistance plant/aphid interaction.

11h05-11h25. Akiko Sugio (INRA Rennes, FR) The saliva proteins that can be involved in the host adaptation process of the pea aphid complex.

11h25-11h45. Maelle Jaouannet (James Hutton Institute, UK) Molecular Determinants of Aphid Host Range.

LUNCH 12h00 – 13h15

Session 3: Oomycetes

Chair: Elodie Gaulin & Laurence Godiard

13h30- 14h15. Sebastian Schornack (Sainsbury Laboratory-Cambridge, UK) *Phytophthora palmivora* - Profiling a root killer.

14h15-14h35. Laurence Godiard (INRA Toulouse, FR) RXLR and CRN effector identification in the sunflower downy mildew oomycete *Plasmopara halstedii* reveals effectors shared with *Plasmopara viticola*, the grape downy mildew pathogen.

14h35-14h55. Elodie Gaulin (Toulouse University/CNRS, FR) The intracellular Crinklers effectors from the root rot pathogen of legumes *Aphanomyces euteiches*.

14h55- 15h15. Remco Stam (University of Dundee, UK) Identification and characterisation of *Phytophthora capsici* CRN effectors and their targets.

15h15-15h35. Marie-Cécile Caillaud (Sainsbury Laboratory, UK) HaRxL44 effector attenuates salicylic acid-triggered Immunity (STI) by Interfering with the Host Transcriptional Machinery.

15h35-16h00: Break

16h00-16h45. Guido van den Ackerveken (University of Utrecht, NL) Triggers and suppressors of immunity in the *Arabidopsis*-downy mildew interaction.

16h45-17h05 Kurt Lamour (University of Tennessee, USA)/ Véronique Lefebvre (INRA Avignon, FR) Collaborative work on effectors in *Phytophthora capsici*.

17h05-17h25 Thomas Rey (Sainsbury Laboratory-Cambridge, UK) Mutants implied in symbiosis affect oomycete colonisation lifestyle.

Session 4: Fungi

Chair: Thomas Kroj & Sebastien Duplessis

17h25-18h10 Ralph Panstruga (University of Aachen, DE) Isolation and characterization of powdery mildew effectors reveals target hubs in *Arabidopsis thaliana*.

18h20-20h20 : poster viewing

20h30: dinner

Friday September 27th

8h30-9h10. Bruno Le Cam & Christophe Lemaire (INRA Angers/Angers University, FR) Title pending

9h10-9h30. Nicolas FREI dit FREY (Toulouse University, FR) Arbuscular Mycorrhizal (AM) Symbiosis: searching for the universal picklock in the haystack of the secreted proteins repertoire.

9h30-9h50. Thierry Rouxel (INRA Grignon, FR) Sheltering an effector gene on a conditionally dispensable chromosome in *Leptosphaeria maculans*.

9h50-10h10. Marco Loehrer (University of Aachen, DE) Characterization of the infection stage-specific effector repertoire of the Asian soybean rust fungus *Phakopsora pachyrhizi*.

10h10-10h40: Break

10h40-11h00 Frederic Brunner (Tübingen University, DE) Characterization of the novel fungal MAMPs SsE1 and its receptor-like protein (RLP30)-based perception system in *Arabidopsis*.

11h00-11h20 Clément Pellegrin (INRA Nancy, FR) MiSSP8, an apoplastic effector required for mutualistic interaction.

11h20-11h40 Stephan Poppe (MPI Marburg, DE) The functional characterization of candidate genes involved in host specialization of *Zymoseptoria* grass pathogens.

11h40-12h00 Emilie Chanclud (INRA Montpellier, FR) Cytokinins: novel effectors of *Magnaporthe oryzae*?

12h00-12h20 Sébastien Duplessis (INRA Nancy, FR) Fine-scale expression profiling of poplar rust fungus candidate effectors by RNA-Seq.

12h20-12h30 Concluding Remarks by the Organizers

Lunch at Auberge du Cèdre or Lunch packages