



Effectome meeting V, October 24-26 2012, Lauret, France

Wednesday October 24th

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

Session 1: Fungi & Oomycetes

Chair : : Elodie Gaulin & Sebastien Duplessis

14h15-15h00 Eva Stuckenbrock. Deciphering the genetic basis of host specialization in the fungal plant pathogen *Zymoseptoria tritici* through comparative genomics

15h00-15h20 Benjamin Petre. Rust candidate effectors: virulence function, plant targets and 3D structures

15h20-15h40 Stéphane Hacquard. Genome-wide analysis of *Colletotrichum higginsianum* extracellular LysM protein repertoire uncovers ChELP1 and ChELP2, two chitin-binding effectors required for biotrophy establishment

15h40-16h10: Coffee break

16h10-16h30. Sylvain Raffael. Sclerotinia effector proteins as probes to decipher Arabidopsis quantitative immunity to necrotrophs

16h30-16h50 Ludovic Bonhomme. Deciphering the molecular crosstalk of the wheat-Fusarium graminearum interaction

16h50-17h10. Enrique Ortega Abboud. Magnaporthe comparative genomics

17h10-17h30 Isabel Fudal. New insights into translocation of *Leptosphaeria maculans* effector AvrLm4-7 into plant cells and interaction with resistance proteins of oilseed rape

17h30-17h50 Pere Mestre. Identification of effector proteins from *Plasmopara viticola*, the causal agent of grapevine downy mildew.

18h00-19h30: Poster viewing

Thursday October 25th

Session 2: Nematodes & Insects

Chair : Stéphane Bellaïfiore & Bruno Favery

8h45-9h30. John Jones. Effector finding in the potato cyst nematode genome

9h30-9h50. Bruno Favery. Root-knot nematode effectors targeted to the nuclei of giant cells

9h50-10h10. Akiko Sugio. Are saliva proteins key determinants of host plant specificity in the pea aphid complex?

10h10-10h40: Coffee break

10h40-11h25. Sophie Mantelin. Functional analysis of effectors from the potato cyst nematode *Globodera pallida* and identification of host targets

11h25-11h45. Maëlle Jaouannet. The root-knot nematode calreticulin Mi-CRT is a key effector in plant defense suppression

Session 3: PRRs and R proteins

Chair: Thomas Kroj, Aska Goverse

11h45-12h05 Aska Goverse. Clustering of Rx1 and Gpa2 specific residues on the LRR surface

LUNCH 12h15 – 13h45

14h00- 14h45. Alberto Macho. Role of phosphorylation in surface immune receptor complexes and its targeting by *Pseudomonas syringae* type III effectors

14h45-15h05 Frédéric Brunner RLP-based perception in *Arabidopsis* of the SsE1 elicitor from *Sclerotinia sclerotiorum*

15h05- 15h25 Suzan Gabriels. Possibilities to use latest plant-pathogen knowledge for breeding

15h25-15h45 Thomas Kroj. Recognition of the *Magnaporthe oryzae* effectors AvrCO39 and AvrPia

15h45-16h15: Coffee break

16h30-18h00: poster viewing

Friday October 26th

Session 4: Bacteria

Chair: Boris Szurek & Nemo Peeters

8h45-9h30 Guido Sessa. Identification and functional analysis of type III effectors from *Xanthomonas campestris* pv. *vesicatoria*

9h30-9h50. Nemo Peeters. RipTPS, a *Ralstonia solanacearum* type III effector directing the production of the plant signal molecule trehalose-6-phosphate.

9h50-10h10. Eric Martinez. Large scale identification of *Coxiella burnetii* virulence factors

10h10-10h40: Coffee break

10h40-11h00. Céline Pesce. Systematic functional analysis of Sweet/Nodulin-3 family members as susceptibility genes of rice to *Xanthomonas oryzae* pv. *Oryzae*

11h00-11h20 Freddy Monteiro. *Customized Molecular Tools to Disrupt, Restore and Spy on Genes in Your Favorite Plant Pathogen*

11h20-11h40 David Lohou. *HpaP controls type III secretion, pathogenicity and host specificity in Ralstonia solanacearum*

Concluding Remarks by the Organizers

Lunch at Auberge du Cèdre or Lunch packages