

# Effectome meeting III, October 6-8 2010, Lauret, France

Wednesday October 6<sup>th</sup>

## Session 1: Bacteria

Chair: Mathilde Fagard, Boris Szurek

**14h15-15h00: Jens Boch. DNA-recognition specificity of TAL effectors**

15h00-15h20: Joanne Canonne. Detection and functional characterization of a 215 amino acid N-terminal extension in the Xanthomonas type III effector XopD

15h20-15h40: Sebastien CUNNAC. Genetic disassembly and combinatorial reassembly identify a minimal functional repertoire of type III effectors in Pseudomonas syringae.

15h40-16h00: Perrine David. Molecular evolution of the type three effector avrBs2 within the bacterial species Xanthomonas axonopodis.

**16h00-16h30: Coffee break**

16h30-16h50: Mathilde Fagard. Understanding the role of type III effector DspA/E using Arabidopsis.

16h50-17h10: Laurent NOEL. Pathogenicity effectome diversity = association mapping in Xanthomonas campestris.

17h10-17h30: Susana RIVAS. The Xanthomonas type III effector XopD targets the Arabidopsis transcription factor AtMYB30, a positive regulator of HR and defence responses.

17h30-17h50: Philippe Remigi. Evolution of the GALA effector family in Ralstonia solanacearum

17h50-18h10: Luis-Miguel Rojas Rodríguez. Genome-wide homology-based comparison of effectors arsenals in Xanthomonas

Thursday October 7<sup>th</sup>

## Session 2: Oomycetes

Chair : Elodie Gaulin, Frederic Brunner

**8h30-9h15 Paul Birch. The localisation, host targets and virulence functions of RXLR effectors from the late blight pathogen, Phytophthora infestans**

9h15-9h35 Sylvain Raffaele. Genome evolution following host jumps in the Irish potato famine pathogen lineage

9h35-9h55 Eleanor Gilroy. CMPG1-dependent cell death follows perception of diverse pathogen elicitors at the host plasma membrane and is suppressed by Phytophthora infestans RXLR effector AVR3a

**9h55-10h25: Coffee break**

**10h25-11h10 Frederic Brunner. Toward the functional characterization of the RXLR effectorome from oomycetes**

11h10-11h30 Mathieu Gourgues. Analysis of three Phytophthora parasitica "penetration-specific" effectors

11h30-11h50 Diana RAMIREZ. The Crinkling and Necrosis (CRN) Effectors, a new family of translocated Oomycete effector

### Session 3: Nematodes and viruses

Chair : Marie-Noëlle Rosso, Nemo Peeters

**13h45- 14h30 Aska Goverse. Unravelling effector-triggered immunity by the potato cyst nematode**

***Globodera pallida***

14h30-14h50 Maëlle JAOUANNET. New nematode candidate effectors specifically expressed in parasitic juveniles

14h50 -15h10 Marie-Noëlle Rosso. Multiple lateral gene transfers and duplications have promoted plant parasitism ability in nematodes

15h10-15h30 Florence Vignols. Conformational regulation of the viral gene silencing suppressor/activator protein P1 by rice host factors

15h30-16h30: Coffee break and poster session

16h45 - 19h00: walking tour

### Friday October 8<sup>th</sup>

### Session 4: Fungi

Chair: Thomas Kroj, Sebastien Duplessis

**8h30-9h15 Gunther Doehlemann. Mechanisms of fungal virulence: effector proteins of *Ustilago maydis***

9h15-9h35 Isabelle FUDAL. Effector diversification driven by location within RIP-affected isochores in the patchwork genome of *Leptosphaeria maculans*.

9h35-9h55 Claire Veneault-Fourrey. Mutualistic interactions and fungal effectors: insights from *Laccaria bicolor*-*Populus ectomycorrhiza*

9h55-10h25: Coffee break

10h25-10h45 Stella Cesari. Localization and natural variability of the Magnaporthe oryzae effector AvrCO39

10h45- 11h05 Cécile Ribot. Functional analysis of the Magnaporthe effector AvrCO39

11h05-11h25 Elisabeth FOURNIER. Evolution of effectors and Avr genes in natural Magnaporthe oryzae populations

11h25-11h45 Sébastien Duplessis. Candidate rust effectors in the secretome of the obligate fungal biotroph *Melampsora larici-populina*