

CURRICULUM VITAE

LUCIE SALVAUDON

Post-doctoral scholar – Marie Curie fellow

Department of Entomology, Pennsylvania State University
Laboratoire Ecologie, Systématique et Evolution, Université Paris-Sud XI

Higher Education

2007: Ph. D. in Evolutionary Biology, University Paris-Sud 11 (France).

2004: DEA (equivalent M. Sc.) of Ecology at the University Paris 6 (France)

2001-2004: Magistere of Biology-Biochemistry of the Ecole Normale Supérieure of Paris.

Research Experience

September 2009 - present: Marie Curie Fellow – Outgoing fellowship. Evolution of plant volatiles manipulation by vectored pathogens

Co-hosted by the University Paris-Sud XI (Laboratoire Ecologie, Systématique et Evolution – supervisor Jacqui Shykoff) and the Pennsylvania State University (Department of Entomology – supervisor Mark Mescher)

2008-2009: Postdoctoral scholar at the Pennsylvania State University, Department of Entomology. Evolutionary ecology of vector-transmitted plant pathogens.

2008 April-August: Research scholar at Indiana University, Curt Lively Lab. Theoretical aspects of virulence evolution.

2004-2007: PhD in Evolutionary ecology. Laboratory Ecologie, Systématique et Evolution, Université Paris-Sud 11. Advisor: Jacqui Shykoff. Project: Origin and maintenance of genetic diversity in host-parasite associations.

2004: Master project in Evolutionary ecology. Laboratory Ecologie, Systématique et Evolution, Université Paris-Sud 11. Advisor: Jacqui Shykoff. Project: Genotype by genotype interactions in the pathosystem *Arabidopsis thaliana* – *Hyaloperonospora parasitica*.

Summer 2002: Undergraduate research assistant. Metapopulation Research Group, University of Helsinki. Supervised by Saskya van Nouhuys. Project: Parasitism mechanisms of the parasitoid *Hyposoter horticola* on its host *Melitaea cinxia*.

Publications

Fellous, S., and L. Salvaudon. 2009. How can your parasites become your allies? **Trends in Parasitology**. 2:62-66.

Salvaudon, L., V. Héraudet, and J. A. Shykoff. 2008. *Arabidopsis thaliana* and the Robin Hood parasite: a chivalrous oomycete that steals fitness from fecund hosts and benefits the poorest one? **Biol. Lett.** 4:526-529.

Héraudet, V., L. Salvaudon, and J. A. Shykoff. 2008. Trade-off between latent period and transmission success of a plant pathogen revealed by phenotypic correlations. **Evol. Ecol. Res.** 10:913-924.

Vale, P. F., L. Salvaudon, O. Kaltz, and S. Fellous. 2008. The role of the environment in the evolutionary ecology of host parasite interactions. Meeting report, Paris, 5th December 2007. **Infect. Genet. Evol.** 8:302-305.

Salvaudon, L., T. Giraud, and J. A. Shykoff. 2008. Genetic diversity in natural populations: A fundamental component of plant-microbe interactions. **Curr. Opin. Plant Biol.** 11:135-143.

Salvaudon, L., V. Héraudet, and J. A. Shykoff. 2007. Genotype-specific interactions and the trade-off between host and parasite fitness. **BMC Evol. Biol.** 7:189.

Salvaudon, L., V. Héraudet, and J. A. Shykoff. 2005. Parasite-host fitness trade-offs change with parasite identity: Genotype-specific interactions in a plant-pathogen system. **Evolution** 59:2518-2524.

International Meetings and Workshop

June 2009: Presentation of the poster "Effect of the TYLCC virus gene β C1 on the facilitation of virus transmission by Whiteflies vectors." L. Salvaudon, C. M. De Moraes, J. Yang, N. Chua & M. C. Mescher. Ecology and Evolution of Infectious Diseases 2009, Athens (GA), USA

June 2008: Oral presentation "Host-parasite genotypic specificity: effects of host variation on parasite evolution." » Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the Evolution meeting 2008, Minneapolis, USA.

September 2007: Presentation of the poster "Host-parasite genotypic specificity: effects of host variation on parasite evolution." » Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the Jacques Monod Conference *Evolutionary genetics of host-parasite relationships*, in Roscoff, France.

August 2007: Oral presentation "Host-parasite genotypic specificity: effects of host variation on parasite evolution." » Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the 11th Congress of the European society for Evolutionary Biology, Uppsala, Sweden.

July 2007: Oral presentation "*Arabidopsis thaliana* and the Robin Hood parasite" Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the 2nd International Downy Mildews Symposium, in Olomouc, Czech Republic.

May 2007: Oral presentation "*Arabidopsis thaliana* and the Robin Hood parasite" Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the meeting "Population and Evolutionary Biology of Fungal Symbionts", in Ascona, Switzerland.

September 2005: Oral presentation "Parasite-host fitness trade-offs change with parasite identity: genotype specific interaction in a plant-pathogen system" Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the 11th PhD Meeting in Evolutionary Biology, in Bordeaux, France.

August 2005: Presentation of the poster "Parasite-host fitness trade-offs change with parasite identity: genotype specific interaction in a plant-pathogen system" Authors: L. Salvaudon, V. Héraudet and J. A. Shykoff at the 10th Congress of the European society for Evolutionary Biology, in Krakow, Poland.

June 2005: Participation to the Evolutionary Biology workshop in Guarda, Switzerland.

Teaching experience

2005-2007 : Monitorat (teaching assistant) at the University Paris-Sud 11. Teaching in statistics and population genetics (to 1st year Medicine students). Course Introduction to phylogenetic studies (to 1st year of Biology B.Sc. students)

Award, Fundings and Employment

2009-2012: Outgoing Marie Curie Fellowship – Grant # PIOF-GA-2009-236011

2008: Médaille d'argent from the French Agriculture Academy (Ph. D. dissertation prize)

December 2007: Co-organizer of the Workshop meeting "The role of the environment in the evolutionary ecology of host-parasite interactions", funded by the University of Paris VI and the Doctorate School "Sciences du vegetal" ED145.

2005-2008: Research grant from the French Ministry of Research and Education

2005-2008: Teaching assistant in the University Paris-Sud 11

2001-2005: Trainee of the French Ministry of Research and Education in the Ecole Normale Supérieure of Paris