

## CURRICULUM VITAE

### Romain LIBBRECHT

April 1<sup>st</sup>, 1983 - French

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### ACADEMIC RECORD

- 2012            **PhD in life sciences**  
University of Lausanne, Switzerland
- 2007            **MSc** in Ecology, Ethology, Evolution - with Honors  
University of Rennes, France
- 2007            **Engineering studies in biology and agronomy**  
Ecole Nationale Supérieure d'Agronomie de Rennes, France
- 2001-2003      Preparatory class in biology, chemistry, physics and geology for the selective competitive examination to "Grandes Ecoles" – Lille, France
- 2001            Baccalauréat (French National High School Diploma) specialization in Biology, Math and Chemistry - Tourcoing, France

### RESEARCH EXPERIENCE

- 2013-present   **Marie Curie postdoctoral fellow** in the Laboratory of Insect Social Evolution  
Rockefeller University, New York, USA
- 2012            Postdoctoral researcher in the department of Ecology and Evolution (Keller group)  
University of Lausanne, Switzerland (3 months)
- 2007-2012      PhD in the department of Ecology and Evolution  
University of Lausanne, Switzerland  
Division of labor in insect societies - Supervisor: Prof L. Keller
- 2007            Master project in the laboratory of Ecobiology  
University of Rennes, France (6 months)  
Study of thermal acclimation in a Coleoptera - Supervisor: Dr D. Renault
- 2006            Internship - Zoological garden of Lille, France (3 months)  
Study of lemur behavior
- 2005-2006      Internship in the laboratory of Applied Ecology  
University of Reading, UK (6 months)  
Study of parasitoid foraging behavior - Supervisor: Dr. M. Fellowes

### TEACHING EXPERIENCE

- 2007-2012      Assistant in Statistics practicals – University of Lausanne
- 2009-2012      Assistant in Marine Ecology master courses (two weeks each year) in Roscoff, France –  
University of Lausanne
- 2009-2011      Assistant in "Introduction to R" doctoral course – University of Lausanne
- 2009            Assistant in Mycology practicals – University of Lausanne
- 2008-2009      Assistant in Zoology practicals – University of Lausanne

## PUBLICATIONS

**Libbrecht R**, Oxley PR, Kronauer DJC, Keller L (in press) Ant genomics sheds light on the molecular regulation of social organization. **Genome Biology**

Corona\* M, **Libbrecht\* R**, Wurm Y, Riba-Grognuz O, Studer RS & Keller L (in press) Vitellogenin underwent subfunctionalization to acquire caste and behavioral specific expression in the harvester ant *Pogonomyrmex barbatus*. **Plos Genetics** - \*these authors contributed equally to the work

**Libbrecht R**, Corona M, Wende F, Azevedo D, Serrao J, and Keller L (2013) Interplay between insulin signaling, juvenile hormone and vitellogenin regulates maternal effects on caste polyphenism in ants. **PNAS** 110(27): 11050-11055.

**Libbrecht R** & Keller L (2012) Genetic compatibility affects division of labor in the Argentine ant *Linepithema humile*. **Evolution** 67(2): 517-524.

**Libbrecht R**, Schwander T, Keller L (2011) Genetic components to caste allocation in a multiple-queen ant species. **Evolution** 65(10): 2907-2915.

**Libbrecht R**, Gwynn DM, Fellowes MDE (2007) *Aphidius ervi* preferentially attacks the green morph of the pea aphid, *Acyrtosiphon pisum*. **Journal of Insect Behavior** 20(1): 25-32.

## GRANTS

Accepted

2013 Marie Curie International Outgoing Fellowship (3 years – 264K €)

Declined

2013 Swiss National Science Foundation early.postdoc Fellowship (18 months – 70K €)

## PEER REVIEWING ACTIVITY

Plos Genetics, Molecular Ecology, Behavioral Ecology and Sociobiology

## CONGRESSES

2013 SINNERS meeting in Newark, USA

2012 IUSSI European Congress in Florence, Italy – Oral contribution

2011 SeeDS 2011 in Neuchâtel, Switzerland – Oral contribution

2011 ESEB Meeting 2011 in Tübingen, Germany (Travel grant from the Swiss Zoological Society) – Presentation of a poster

2011 CIG Symposium 2011 “Genetics of behavior” in Lausanne, Switzerland – Oral contribution

2011 D.day 2011 in Lausanne, Switzerland – Presentation of a poster

2011 IUSSI French Congress in Banyuls, France – Oral contribution

2011 Doctoriales de l’Unil 2011 in Lausanne, Switzerland – Presentation of a poster (best poster Award)

2011 Biology 2011 in Zürich, Switzerland – Oral contribution

2010 IUSSI International Congress in Copenhagen, Denmark – Oral contribution

2010 Biology 2010 in Neuchâtel, Switzerland – Oral contribution

2009 D.day 2009 in Lausanne, Switzerland – Presentation of a poster

- 2009 Biology 2009 in Bern, Switzerland– Presentation of a poster  
2008 IUSSI European Congress in Brussels, Belgium – Presentation of a poster

#### **COURSES**

- 2009 Social interactions – University of Neuchâtel  
2008 The biology of social insects – University of Copenhagen  
2008 Molecular population genetics – University of Geneva  
2007 Effective public speaking – University of Lausanne

#### **GENERAL-PUBLIC PRESENTATIONS**

- 2011 Conference for the association “Connaissance3” – La Tour-de-Peilz, Switzerland  
2011 Conference for the association “Cercle des sciences naturelles” – Vevey, Switzerland  
2011 Conference for the association “Paroisse protestante de Vevey” – Vevey, Switzerland  
2010 Conference for the association “Connaissance3” – Echallens, Switzerland  
2007-2012 Presentations of the biology of ants to school classes (5 to 18 years old students) – University of Lausanne  
2008 Interview for the documentary “The ant’s best friend”, RTS - Science Suisse Project  
2007-2012 Presentations of the biology of ants for open days – University of Lausanne

#### **MEMBERSHIP**

- Associate Faculty Member of *Faculty of 1000* since December 2008  
Member of the Swiss Zoological Society  
Member of the French IUSSI section  
Co-organizer of SeeDS2008 (Symposium of Ecology and Evolution Doctoral Students) in Lausanne

#### **LANGUAGES**

- French: native language  
English: fluent  
Spanish: average  
German: beginner

#### **SKILLS**

- Molecular biological techniques: DNA/RNA extraction and purification, PCR, gel electrophoresis, sequencing, quantitative RT-PCR  
Fluorescence microscopy, insect hormones extractions  
Breeding, behavioral analysis, morphometry and dissection of insects  
Softwares: Microsoft Office (3-day course), Endnote (2-day course), Adobe Photoshop (2-day course), Adobe Illustrator (3-day course), R, GeneMapper, ImageJ, Ethovision  
Photography: wildlife, macro, portraits, fashion