

**Samina Rutrecht**  
WINDREF at St George's University  
P.O. Box 7, Grenada, West Indies  
Tel: +1473 4443321; mobile +1473 4142310  
E-mail: samina.rutrecht@gmail.com; D.O.B. 14.10.77

## Education

**University of Dublin, Trinity College, Ireland**                      **Oct 2002 – April 2006**

Ph.D

Title: 'The impact of *Nosema bombi* on its bumble bee hosts: ecology, epidemiology and the wider context of multiple parasitism'

For my PhD I was awarded an IRCSET (Irish Research Council for Science Engineering and Technology) grant (56,000 Euro).

I was also awarded with a Trinity College Studentship.

**University of Dublin, Trinity College, Ireland**                      **Oct 2003 - June 2004**

Diploma in Statistics; 1st with distinction

**University of Dublin, Trinity College, Ireland**                      **Oct 1999 - June 2001**

B.A. (Hons)/Zoology; 2.1.

Honours Thesis: 'Influence of the Acantocephalan parasite *Polymorphus minutus* on the behaviour of *Gammarus duebeni* (Amphipoda)'

**University of Vienna, Austria**    **Oct 1998 - July 1999**

**University of Graz, Austria**    **Oct 1997 - July 1998**

## Work Experience

**St. George's University, School of Medicine**                      **Aug 2007 – present**  
Part time Assistant Professor in medical parasitology

**University of Dublin, Trinity College**                                      **Oct 2002 – November 2006**  
During the course of my Ph.D I have helped supervise 2 Research Assistants in parasitology. I have also undertaken laboratory demonstrating to 3<sup>rd</sup> year zoology students.

**University of Dublin, Trinity College**                                      **Jan 2002 – Oct 2002**  
Research Assistant to Dr. Ken Irvine. I was involved in processing zooplankton samples for an EU funded project on water quality.

**University of Dublin, Trinity College**

**July 2001 - Sept 2001**

Responsible for processing samples from a national sea trout survey to estimate the level of infestation of these fish by sea lice.

**University of Dublin, Trinity College**

**July 2000 – Sept 2000**

Field Assistant in Freshwater research, where I was involved in taking zooplankton samples and invertebrate identification from lake samples for water quality assessment.

## **Additional skills**

- Experienced user of a wide variety of word processing, spreadsheet and database programs, including MS Word, Excel, Access and PowerPoint.
- Working knowledge of statistical packages such as S.P.S.S. and Datadesk.
- Native German speaker.
- Qualified SCUBA diver (PADI).
- Full driving license.
- Apprenticeship in carpentry – experienced user of a wide variety of wood working machinery

## **Conferences**

### **Poster presentations**

Rutrecht, S.T. and Brown, M.J.F (2003) Evolution of virulence: multigenerational and genetic aspects of a bumble-*Nosema bombi* (Microsporidia) host-parasite relationship. **IRCSET Symposium**; 7<sup>th</sup> November 2003, Dublin, Ireland

Rutrecht, S.T. and Brown, M.J.F (2003) Parasite impact on a bumble bee population. Annual winter meeting of the British section of the **IUSSI**; 5<sup>th</sup> December 2003, University of Dublin, Trinity College, Dublin, Ireland

Rutrecht, S.T. and Brown, M.J.F (2004) Impact and implications of multiple parasites for host ecology and evolution. **Jacques Monod Conference** “Evolutionary ecology of host-parasite relationships”; 4<sup>th</sup> – 8<sup>th</sup> September 2004, Roscoff, France.

Rutrecht, S.T. and Brown, M.J.F (2004) Impact and implications of multiple parasites for host ecology and evolution. Annual winter meeting of the British section of the **IUSSI**; 10<sup>th</sup> December 2004, Royal Entomological Society London.

Rutrecht, S.T. and Brown, M.J.F. (2004) Impact and implications of multiple parasites for host ecology and evolution. Poster Presentation at the **IRCSET** Symposium; 23<sup>rd</sup> September 2004, Dublin.

### **Oral presentations**

Rutrecht, S.T. and Brown, M.J.F. (2004) Effects of *Nosema bombi* on its host *Bombus lucorum*. First Annual **Postgraduate Symposium** of the Department of Zoology, Trinity College Dublin, 14<sup>th</sup> – 15<sup>th</sup> March 2005.  
received first price in the competition for best presentation.

## **Publications**

Rutrecht, S.T. and Brown, M.J.F., (in print) Differential virulence in a multiple-host parasite of bumble bees: resolving the paradox of parasite survival?. *Oikos*

Rutrecht, S.T. and Brown, M.J.F., (2008) Within colony dynamics of *Nosema bombi* infections: disease establishment, epidemiology and potential vertical transmission. *Apidologie*

Rutrecht, S.T., Klee, J. and Brown, M.J.F. (2007) Horizontal transmission success of *Nosema bombi* to its adult bumble bee host: effects of dosage spore source and host age. *Parasitology*, **134**, 1719-1726.

Rutrecht, S.T. and Brown, M.J.F. (2007) The life-history impact and evolutionary implications of multiple parasites for a bumble bee queens. *International Journal for Parasitology*, **38**, 799-808.

## **Referees**

### **PhD Supervisor**

Dr. Mark Brown,  
Dept. of Zoology,  
Trinity College,  
Dublin 2, Ireland  
Phone: +353 1 6081366  
E-Mail: [mabrown@tcd.ie](mailto:mabrown@tcd.ie)

### **Head of Department**

Prof. Celia Holland,  
Dept. of Zoology,  
Trinity College,  
Dublin 2, Ireland  
Phone: +353 1 6081366  
E-Mail: [cholland@tcd.ie](mailto:cholland@tcd.ie)

### **PhD external examiner**

Paul Schmid-Hempel  
Professor of Experimental  
Ecology  
CHN K 11  
Universitätstrasse 16  
CH-8092 Zürich  
Phone: +41 446336048  
E-Mail: [paul.schmid-hempel@env.ethz.ch](mailto:paul.schmid-hempel@env.ethz.ch)