

JENNIFER CARPENTER

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PERSONAL INFORMATION

Nationality: British/Canadian; Age: 28

EDUCATION

PhD, University of Edinburgh, UK. Thesis: *The evolution and genetics of Drosophila melanogaster and the sigma virus.* Supervisors: Dr Francis Jiggins and Dr Tom Little. (2004 – 2008)

Masters in Biological Science, University of Sheffield, UK. (AR Clapham prize for highest grade-average) Thesis: *Morphological constraints determine interaction strength in a freshwater food web.* Supervisor: Dr Philip Warren. (2002 – 2003)

BSc in Ecology (1st Class), University of Sheffield, UK. (1999 – 2002)

PRIMARY RESEARCH PAPERS

Carpenter, J.A., Hadfield, J.D. and Jiggins, F.M., *The role of interactions between host and parasite genotypes in constraining the evolution of antiviral resistance in Drosophila.* In prep.

Carpenter, J.A., Keegan, L., Wilfert, L., O'Connell, M.A., and Jiggins, F.M. Evidence for ADAR-induced hypermutation of the *Drosophila sigma virus* (Rhabdoviridae). *BMC Genetics* 10, 1471-2156 (2009).

Carpenter, J.A., Hutter, S., Baines, J.F., Roller, J., Parsch, J. and Jiggins, F.M. The transcriptional response of *Drosophila melanogaster* to infection with the sigma virus (Rhabdoviridae). *PLoS ONE* 4, e6838 (2009).

Carpenter, J.A., Jiggins, F. and Little, T. Dialogue on defenses: report from the workshop on "the impact of the environment on innate immunity: at the defence frontier", 22-27 April 2007. *Developmental and Comparative Immunology* 32, 307-309 (2008).

Carpenter, J.A., Obbard, D.J. Maside, X. and Jiggins, F.M., The recent spread of a vertically transmitted virus through populations of *Drosophila melanogaster*. *Molecular Ecology* 16, 3947-3954 (2007).

PRIZES AND GRANTS

The British Association for the Advancement of Science Media Fellowship. (June-September 2008)

Wellcome Trust and New Scientist Science essay competition. Third prize for an essay entitled "Viruses: Now boarding transatlantic fruit flies". (2007)

James Rennie Bequest travel award. (2006 and 2007)

Genetics Society travel grant for junior scientists. (2004 and 2006)

Genetics Society fieldwork grant. (2004)

Natural Environment Research Council (NERC) funding for three-year doctorate. (2004-2008)

A.R. Clapham prize in Ecology, University of Sheffield. University prize granted on highest grade-average in the year. (2002)

RESEARCH PRESENTATIONS

Poster presentation: ESF Conference 'Impact of the Environment on Innate Immunity'. Austria. (2007)

Speaker: Evolution. Long Island, USA. (2006)

Poster presentation: Population Genetics Meeting. Edinburgh, UK. (2005)

OTHER EXPERIENCE

Freelance writer and broadcaster for various publications including *New Scientist*, *BBC Wildlife Magazine*, *BBC* and *CBC*. (2007 – present)

Reviewer for *Heredity*. (2008 – present)

Writer for the European Science Foundation. Writing regular articles for *ESF* and attending European research conferences to write for online science news forums. (2007 – 2008)

Tutoring and demonstrating, University of Edinburgh, UK. Tutored undergraduate level statistics, molecular ecology and population genetics. (2004 – 2008)

Research Assistant. University of Sheffield, UK. Laboratory of Professor Terry Burk, Department of Evolutionary Genetics. Field assistant on a molecular behavioural study of house sparrows. (2003)

SCIENTIFIC JOURNALISM

Online

Space storm's 'epicentre' found. **BBC online**. (2009)

Space rock yields carbon bounty. **BBC online**. (2009)

Stroking reveals pleasure nerve. **BBC online**. (2008)

Fusion power seeks super steels. **BBC online**. (2008)

Watching what we eat: food systems in Europe. **European Science Foundation**. (2007)

All matter great and small: Computational Physics. **European Science Foundation**. (2007)

Invertebrate immune systems are anything but simple. **European Science Foundation**. (2007)

Radio

Contributed package: Open science. **CBC's 'Spark'**. (2009)

Contributed package: Forensic text messaging. **CBC's 'Spark'**. (2009)

Researcher and producer: Facial Recognition and Design Against Crime. **BBC Radio Four's 'Material World'**. (2008)

Contributed package: Sound Masking. **BBC World Service's 'Science in Action'**. (2008)

Researcher and producer: BA Festival. **BBC Radio Four's 'Material World'**. (2008)

Print

Morning sickness may be sign of a bright baby. **New Scientist**. (2009)

Say it [short] and say it loud. **British Ecological Society**. (2009)

Batting for both sides. **BBC Wildlife Magazine**. (2008)

Population Genetics Group 2005 Meeting report. **Genetics Society News**. (2006)

A complete list of publications can be found at www.jennycarpenter.com

COMPUTER LITERACY

Proficient with statistical analysis in R, web-design in XHTML/CSS, typesetting in Latex, and audio-editing in Dalet.

References supplied upon request