

## Curriculum Vitae (11/04/09)

JOHN H. WERREN

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### EDUCATION

1980 Ph.D. (Biology), University of Utah

1975 B.A. (Echols Scholar), University of Virginia

### PROFESSIONAL EXPERIENCE

1995-Present University of Rochester, Full Professor, Dept of Biology  
1991-1995 University of Rochester, Associate Professor, Dept of Biology  
1986-1991 University of Rochester, Assistant Professor, Dept of Biology.  
1984-1986 University of Maryland, Research Associate, Zoology & Entomology  
1985 Georgetown University, Lecturer, Biology Department.  
1983-1984 U. S. Army-- Walter Reed Army Institute of Research, Washington, D.C. Research Entomologist, Entomology Department.  
1980-1983 U. S. Army--10th Medical Laboratory, Landstuhl, West Germany, Environmental Science Officer.

### HONORS & AWARDS

2008 Visiting Fellow, Institute for Advanced Study, Indiana University  
2007 Japan Society for the Promotion of Science - Visitation Fellowship  
2007 American Society of Microbiology Indo-US Professorship  
1997-present Fellow, American Association for the Advancement of Science  
1995 Humboldt Prize (Alexander von Humboldt Foundation, Germany)  
1995 NERC Senior Visiting Scholar, Imperial College at Silwood Park, Great Britain  
1995 Smithsonian Senior Fellow Award (Smithsonian Tropical Research Institute, Panama).  
1984 Leidse University Visiting Scholar, Univ. of Leiden, Holland.  
1975 Phi Beta Kappa, University of Virginia  
1972-1975 Echols Scholar, University of Virginia

### PROFESSIONAL ACTIVITIES

2009 Nasonia 2009 Meeting Co-Organizer & Host (Rochester, NY)  
2008 Fellow, Indiana University Institute for Advanced Study – 3 Week Visit  
2007 Japan Society for the Promotion of Science – 1 Month Research Visit  
2007 American Society of Microbiology - Indo-US Professorship  
2006-Present UR Strategic Plan Co-Chair – Genomics and Systems Biology  
2006 Dept. Review Team, Cornell University Entomology Dept & Entomology Dept., Geneva Expt. Station  
Co-Chair, Biology Department Strategic Plan Committee  
2005 Co-Organizer, Workshop on Non-Drosophilid Insects  
45nd Annual Drosophila Research Conference, Washington DC  
2005-Present Community Coordinator – Nasonia Genome Project  
2004-Present Coordinator, Frontiers in Integrative Biological Research: *Wolbachia*, from genomes to communities and back.  
2004 Organizer, Nasonia Genome Project - Whitepaper  
2002-2004 Co-Chair, University Committee for Interdisciplinary Studies on Aging  
2001 Co-Organizer, 1st International Meeting of Hymenopteran Genetics and Development, Washington DC  
2001-Present Steering Committee, *Wolbachia* Research Coordination Network

2001, 2002 Organizing Committee, 2nd International *Wolbachia* Meeting (Crete)  
 2001 Co-Organizer, Workshop on Non-Drosophilid Insects  
 42nd Annual Drosophila Research Conference, Washington DC  
 2001 NIH Genetics Panel, External Reviewer  
 2000 Organizing Committee, Behavior Genetics Working Group (NSF)  
 2000 Co-Organizer, *Nasonia* Working Group 1<sup>st</sup> Meeting  
 (Leiden Holland)  
 2000 Organizing Committee, 1st International *Wolbachia* Meeting (Crete)  
 1999 National Science Foundation, Biocomplexity Panel  
 1994- 1998 Associate Editor, *Evolution*  
 1994- 1997 Associate Editor, *Journal of Evolutionary Biology*  
 1994, 1998-9 National Science Foundation, Population Biology Panel

#### TEACHING

2009 High School Teacher Workshop – The Microbes Within  
 (MBL, Woods Hole) - Instructor  
 2007 Indian Institute of Science (Bangalore) – Workshop on Multi-Locus  
 Strain  
 Typing & Symbiotic Bacteria  
 2007 University of Rochester – Workshop for Using *Wolbachia* in High  
 School  
 Instruction  
 2006, 2005 High School Teacher Workshop – Microbes, Symbiosis & Evolution  
 (MBL, Woods Hole) Co-Organizer and Instructor  
 2006 Special Topics in Biology, University of Rochester  
 2003 Short Course - Genetic Conflict and Selfish DNA (U. Sao Paulo, Brazil)  
 2001 Workshop: Using *Nasonia* in Research & Teaching  
 Research Links 2000 (Saint Leo University, February 2001)  
 1997 - Present Animal Behavior--University of Rochester  
 1986 - Present Independent Research--University of Rochester  
 2000 Workshop: Using *Nasonia* in Research & Teaching  
 Research Links 2000 (Hood College, October 2000)  
 Presentation on Using *Nasonia* in Research & Teaching  
 Research Links 2000 (Ferris State University, May 2000)  
 1997, 2000, 2001 NSF Research Experiences for Undergraduates Summer Research  
 Training  
 1999 Evolution of Sex - University of Lusifonia Short Course (Lisbon  
 Portugal)  
 1998, 2000, 2003 Topics in Evolution - Selfish Genes & Genetic Conflict--U of R  
 1996, 2001 Topics in Evolution - Evolution of Sex--University of Rochester  
 1995 - 1996 Principles of Research--University of Rochester  
 1994 Summer School--Max Planck Institute for Animal Physiology,  
 Seewiesen, Germany--Evolution of Conflict & Cooperation  
 1993, 1994 CREST Summer Laboratory Course for High School Biology Teachers  
 1992-1995 Principles of Biology II--University of Rochester  
 1991-1994 Laboratory in Ecology and Evolution--University of Rochester  
 1986-1994 Animal Behavior--University of Rochester  
 1988 Field Ecology--University of Rochester  
 1986 Seminar on Insect Population Biology--University of Maryland  
 1985 Population Genetics--Georgetown University  
 1981-1983 Water Bacteriology--U. S. Army, 10th Medical Laboratory

STUDENTS ADVISED (Primary Advisor)

Undergraduate Students Completing Extended Independent Scientific Research and/or a Research Thesis: Justin Sysol (2008, 2009), Gabriel Perrault (2008, 2009), Ann Esenhour (2008, 2009), Laura Schiraldi (2007), Veroncia Bernardo (2007), Thomas Spangenberg (2007), Aaron Brothers (2005-2003), Christopher Brunson (2004/5), Erika Logan (2004/5), Carolyn Agrawal (2003), Kevin Emerson (2001), Julianne Uy (2001), Ankur Chawla (2000), Vincent Calhoun (1999), Imran Qureshi (1999), Seth Bordenstein (1997), Mark Drapeau (1997), Michelle Lee (1996), Eric Ingerowski (1992), David Swank (1991), Douglas Swank (1990).

Undergraduate Research Trainees (Research Papers): Emily Grzybowski (2009), Lauren Schmidt (2008), Michael Scorsone (2008), Mark Strassell (2008), Ann Esenhour (2008, 2009), Amber Masters (2008), Ilma Abbas (2008), Steve Klein (2007), Laura Schiraldi (2007), Veroncia Bernardo (2007), Julie Trescott (2006), Aaron Brothers (2005,6), Jorge Azapurga (2006), Tony Vargas (2005), Alex Tsybeskov (2005), Christopher Brunson (2004-5), Eugene Plavskin (2004-5), Erika Logan (2004-5), Crystal Rocha (2004), Haig Setrakien (2004), Joshua Hirschhorn (2004), Aaron Brothers (2004-5), Nicholas Bongio (2003), Caroline Agrawal (2003), Michael Marciano (University of Rochester, 2002), Kevin Emerson (Clarkson University, 2001), Nadeem I Hussain (University of Rochester, 2001), Elizabeth van Norstrand (2000-1), Chezik Smith (Indiana University, 2000), Jennifer Free (University of Rochester, 2000), Patrick Theobald (University of Rochester 2000), Tim Opijnen (University of Amsterdam, Holland, 2000), Julie Uy (University of Rochester, 2000), John Jen (University of Rochester, 2000), Jessica Berg (University of Rochester, 1999, 2000), Ankur Chawla (University of Rochester, 1999,2000), Jenny Bangham (Cambridge University, 1998), Imran Qureshi (University of Rochester 1998), Sarah Michaels (University of Rochester 1998), Shailesh Patel (1997), , Seth Bordenstein (University of Rochester 1995, 1996, 1997), Mark Drapeau (University of Rochester 1995, 1996, 1997), Vincent Calhoun (University of Rochester 1995), Sharon Majchrzak (University of Rochester 1995), Richard Meadows (University of Rochester 1994), Michele Palmer (University of Rochester 1993), Jessica Rollins (University of Rochester 1993), Suzanne White (University of Rochester 1992), Michelle Lee (University of Rochester 1992), Eric Ingerowski (University of Rochester, 1990, 1991), Renee Gallucci (University of Rochester, 1991), Benjamin Kozower (University of Rochester 1991), David Swank (1992), Vinod Srihari (University of Rochester 1991), Kristina Stanfield (University of Rochester 1990), Gunjan Sinha (University of Rochester 1990), Douglass Swank (University of Rochester, 1990), Manish Vig (University of Rochester, 1989), Eric Roesch (University of Rochester, 1989), Jill Potts (University of Rochester, 1989), Lisa DiDonato (University of Rochester 1988), Albert Laduca (University of Rochester 1987), Susan M. Derylak (University of Rochester 1987).

Masters:

Nida Meednu (2001), Patrick O'Hara (1999), Rebecca Weston (1997), Michael Balas (1993)

Doctoral:

David Loehlin (Current)

Ray Choudury (Current)

Seth Bordenstein (Ph.D. 2002)

Bryant McAllister (Ph.D. 1996)

Leo Beukeboom (Ph.D. 1992)

Johannes Breeuwer (Ph.D. 1992)

Staff Scientist II, MBL, Woods Hole, MA

Associate Professor, University of Iowa

Professor, Department of Genetics,

University of Groningen, Holland

Associate Professor, Department of Entomology

University of Amsterdam, Holland

Postdoctoral (Current):

Christopher Desjardins

Michael Clark

(PhD. U. Maryland)

(PhD. University of Houston 2000)

Postdoctoral (Past):

Deodoro Oliveira	Postdoctoral Researcher - University of Barcelona
Emma Baudry	Research Scientist – Université de Paris Sud
Yang Wencai	Research Scientist – Ohio State University
Francisco Perfectti	Research Scientist – University of Grenada
Marie-Jeanne Perrot-Minnot	Associate Professor – University of Bourgogne
Richard Stouthamer	Professor - University of California, Riverside
Kent Reed	Professor – University of Minnesota
Danna Eickbush	Research Scientist – University of Rochester

AREAS OF RESEARCH INTEREST

Evolutionary genetics & genomics: symbiosis and host-parasite evolution, *Wolbachia* and insects, genetics of parasitic wasps, evolutionary genomics using *Nasonia* as a model, genetics of speciation and development, genome evolution, parasitic DNA, behavioral genetics, sex ratio selection and sex determining mechanisms.

GRANT SUPPORT

2008-2011	NSF, Population Biology of a Lateral Gene Transfer from <i>Wolbachia</i> to <i>Drosophila ananassae</i> .
2008-2012	NIH, Genetic and Genomic Tools for the Emerging Model Organism <i>Nasonia</i>
2007	Japanese Society for the Promotion of Science, Visiting Professor
2007	American Society of Microbiology, Indo-American Professorship (\$4,000)
2005	Proposal to Sequence the <i>Nasonia</i> Genome NIH-NHGRI Approved for Sequencing
2005-2009	\$1,105,280 NIH Genetics of Wing and Cell-Size Evolution in <i>Nasonia</i> GM/8465019
2004-2006	169,000 21st Century Research & Technology Fund "cDNA and Microarray Development in <i>Nasonia</i> " part of a larger grant to J. Romero-Severson on Insect Genomics.
2003-2008	\$5,000,000 NSF FIBR: Integrative Studies of <i>Wolbachia</i> -Eukaryotic Interactions: Genomes to Communities and Back (PI)
2002-2003	\$40,000 NIH Nathan Shock Grant on Aging in <i>Nasonia</i>
2002-2003	\$10,000 American Rosacea Society Intracellular Bacteria in <i>Demodex</i> mites
2000-2003	\$300,000 NSF Genetics of Hybrid Inviability in <i>Nasonia</i>
1999-2002	\$240,000 NSF Genetics of Courtship in <i>Nasonia</i> .
1997-2000	\$250,000 NSF Accompl. Based Renewal: Inherited Microorganisms & Reproductive Isolation in Insects
1996-1999	\$150,000 USDA Parthenogenesis Bacteria
1995-1996	\$10,250 NERC A phylogenetic approach to detecting horizontal transfer of <i>Wolbachia</i> (co-PI with Charles Godfray)
1994-1997	\$250,000 NSF Parthenogenesis & incompatibility microorganisms in insects
1993-1996	\$240,000 NSF Genetics of Speciation in <i>Nasonia</i>
1991-1993	\$196,000 USDA Microorganism associated parthenogenesis in insects
1989-1992	\$300,000 NSF Population biology of the psr chromosome
1989-1992	\$505,839 NIH Genetics of the psr chromosome
1986-1989	\$240,000 NSF The population biology of sex ratios

INVITED SEMINARS AND SYMPOSIA (past 5 years)

Department of Pharmacology & Physiology, University of Rochester Medical School, Rochester, NY (2009), International Symbiosis Society Meeting, Madison WI (2009), *Nasonia* 2009 Meeting, Rochester NY (2009), 1<sup>st</sup> International Entomophagous Insects Conference (2009, Plenary Speaker, Minneapolis, MN), Rocky Mountain Biological Laboratory (2009), 6<sup>th</sup>

Kristineberg Symposium “Origin of Species – 150 years later”, Kristineberg, Sweden (2009), MBL Workshop “Microbes Within” High School Teacher Training, Woods Hole (2009), NimBios Workshop on Genetic Conflict, Knoxville, TN (2009), Biology Department, Emory University (2009), Biology Department, Clemson U. (2009), Rochester Clinical & Translational Research Curriculum Seminar (2008), XXIII International Congress of Entomology, Durban, South Africa (3 Invited Symposia Talks), Fifth International Wolbachia Conference, Kolymbari, Greece (2008), Nasonia 2008, Edinburgh, UK (2008), Behavioral Ecology of Parasitoids, Edinburgh, UK (2008), Biology of Genomes, CSHL (2008), University of Rochester Genetics Day, Guest Speaker (2008), Indiana Center for Genomics & Bioinformatics, and Biology Department (2008), Symposium: New Insights from Arthropod Genomes (2008), European Workshop on Insect Parasitoids (2007), Gordon Conference on Microbial Ecology (2007), Workshop on Honey Bee Genomics and Biology, Cold Spring Harbor (2007), Department of Zoology, Oxford University (2007), Institute of Technology, Bangalore, India (2007), Science Institute, Aurangabad India (2007), Centre for Molecular & Cellular Biology, Pune India (2007), Tamil Nadu Agricultural University, Coimbatore, India (2007), IISc Field Station, Mudumalai, India (2007), Centre for DNA Fingerprinting and Diagnostics, Hyderabad, India (2007), Center for Ecological Sciences, India Institute of Science, Bangalore, India (2007), Workshop on Molecular Ecology, Coorg, India (2007), Bioinformatics Working Group, URMC (2007), Fourth International Wolbachia Conference, Paradisus, Puerto Rico (2006), NSF Frontiers in Integrative Biology Meeting, Arlington, Va (2006). Dept Biology, Ohio State University (2006), 1<sup>st</sup> Int. Symp. Comparative Biol. AlphaProteobacteria (2006), Biology Dept., Arizona State University (2006), Biology Department, UC San Diego (2006), Plant and Animal Genomics Conference (San Diego 2006), McMaster University (2005), FIBR Working Group Meeting (2005, Organizer), Nasonia Meeting, Western Wash U (2005), UC Riverside Entomology Dept. (2005), University of North Carolina, Biology Dept. (2005), Indiana University Center for Genomics and Bioinformatics (2005), University of Maryland, Biology Dept. (2005), *Wolbachia* FIBR Working Group Meeting (2004, Organizer), 45th Annual Drosophila Meetings Workshop: Genetics of Non-Drosophilid Insects (2004, Co-Organizer), Baylor Human Genome Center – “Using Haploid Genetics in a Complex Eukaryote: Nasonia as a emerging model system” (2004), Keystone Meeting Genetic Variation in Model Organisms (2004); NYU, Biotic Resources: Integrating Development, Genetics, Evolution, and Systematics Program (2004), Dept. of Entomology, U. Mass (2004).

PUBLICATIONS OF JOHN H. WERREN

1. Werren, J.H. and E.L. Charnov. 1978. Facultative sex ratios and population dynamics. **Nature** 272:349-350.
2. Werren, J.H., M.R. Gross and R. Shine. 1980. Paternity and the evolution of male parental care. **J. Theor. Biol.** 82:619-631.
3. Werren, J.H. 1980. Sex ratio adaptations to local mate competition in a parasitic wasp. **Science** 208:1157-1160.
4. Skinner, S.W. and J.H. Werren. 1980. The genetics of sex determination in *Nasonia vitripennis* (Hymenoptera, Pteromalidae). **Genetics** 94: s98.
5. Werren, J.H., S.W. Skinner and E.L. Charnov. 1981. Paternal inheritance of a daughterless sex ratio factor. **Nature** 293:467-468.
6. Werren, J.H. and R. Pulliam. 1981. An intergenerational transmission model for the cultural evolution of helping behavior. **Human Ecology** 9(4):465-483.
7. Werren, J.H. 1983. Sex ratio evolution under local mate competition in a parasitic wasp. **Evolution** 37(1):116-124.
8. Werren, J.H. and P.D. Taylor. 1984. The effect of population recruitment upon sex ratio selection. **American Naturalist** 124(1):143-148.
9. Werren, J.H. 1984. A model for sex ratio selection in parasitic wasps: Local mate competition and host quality effects. **Neth. J. Zool.** 34(1):81-96.
10. Werren, J.H. 1984. Brood size and sex ratio regulation in the parasitic wasp. *Nasonia vitripennis*. **Neth. J. Zool.** 34(2):151-174.
11. Huger, A., S.W. Skinner and J.H. Werren. 1985. Bacterial infections associated with the son-killer trait in the parasitoid wasp *Nasonia* (= *Mormoniella*) *vitripennis*. **J. Invert. Path.** 46:272-280.
12. Werren, J.H., S.K. Skinner and A. Huger. 1986. Male-killing bacteria in a parasitic wasp. **Science** 231:990-992.
13. Werren, J.H. and J. van den Assem. 1986. Experimental analysis of a paternally inherited extrachromosomal factor. **Genetics** 114:217-233.
14. Werren, J.H. 1987. Labile sex ratios in wasps and bees. **Bioscience** 37:498-506.
15. Werren, J.H. 1987. The coevolution of autosomal and cytoplasmic sex ratio factors. **J. Theor. Biol.** 124:317-334.
16. Werren, J.H., U. Nur and D. Eickbush. 1987. An extrachromosomal factor which causes loss of paternal chromosomes. **Nature** 327:75-76.
17. Raupp, M., J.H. Werren and C. Sadoff. 1988. Effects of short term phenological changes in leaf suitability on the survivorship, growth, and development of gypsy moth larvae. **Env. Entom.** 17:316-319.
18. Nur, U., J.H. Werren, D. Eickbush, W. Burke and T. Eickbush, 1988. A "selfish" B chromosome that enhances its transmission by eliminating the paternal chromosomes. **Science** 240:512-514.
19. Werren, J.H. 1988. Manipulating mothers. **Natural History** 97: 68-69.
20. Werren, J.H. and C.J. Peterson, 1988. Osprey hunting on ground for small mammals. **Wilson Bull.** 100(3):88.

21. Werren, J.H., U. Nur., and C.-I. Wu. 1988. Selfish genetic elements. *Trends in Ecol. & Evolution* 3:297-302.
22. Werren, J.H. and P. Symbolotti. 1989. Combined effects of host size and local mate competition on sex ratio evolution in *Lariophagus distinguendus*. *Evolutionary Ecology* 3:203-213.
23. Darling, D.C. and J.H. Werren. 1990. Biosystematics of two new species of *Nasonia* (Hymenoptera: Pteromalidae) reared from birds' nests in North America. *Annals Ent. Soc. Amer.* 83(3):352-370.
24. Breeuwer, H. and J. H. Werren. 1990. Microorganisms associated with chromosome destruction and reproductive isolation between two insect species. *Nature* 346: 558-560.
25. Werren, J.H. 1991. The psr (paternal sex ratio) chromosome. *Amer. Natur.* 137:392-402.
26. Gherna, R., J. H. Werren, W. Weisburg, R. Cote, C. R. Woese, L. Mandelco and R. Brenner. 1991. *Arsenophonus nasoniae*, genus novel, species novel, causative agent of Sonkiller trait in the parasitic wasp, *Nasonia vitripennis*. *Inter. J. Bact. Syst.* 41:563-565.
27. Werren, J.H., M. Raupp, T. O'Dell and C. Sadoff. 1992. Host plants utilized by Gypsy Moths affect survival and development of the parasitoid *Cotesia melanoscela*. *Env. Entom.* 21:173-177.
28. Bull, J.J., I.J. Molineux and J.H. Werren. 1992. Selfish Genes. *Science* 256:65.
29. Stouthamer, R., R. F. Luck and J. H. Werren. 1992. Genetics of sex determination and improvement of biological control using parasitoids. *Envir. Entomol.* 21(3):427-435.
30. Breeuwer, J.A.J., R. Stouthamer, S.M. Burns, D.A. Pelletier, W.G. Weisburg and J.H. Werren. 1992. Phylogeny of cytoplasmic incompatibility microorganisms in the parasitoid wasp genus *Nasonia* (Hymenoptera: Pteromalidae) based on 16S ribosomal DNA sequences. *Insect Mol. Biol.* 1(1):25-36.
31. Eickbush, D., T. Eickbush and J.H. Werren. 1992. Molecular characterization of repetitive DNA sequences from a B chromosome. *Chromosoma* 101:575-583.
32. Beukeboom, L. and J.H. Werren. 1992. Population genetics of a parasitic chromosome: Experimental analysis of PSR in subdivided populations. *Evolution* 46(5):1257-1268.
33. Stouthamer, R., J.A.J. Breeuwer, R.F. Luck and J.H. Werren. 1993. Molecular identification of parthenogenesis associated microorganisms. *Nature* 361:66-68.
34. Beukeboom, L.W., K.M. Reed and J.H. Werren. 1993. Effects of deletions on mitotic stability of the Paternal Sex Ratio (PSR) chromosome from *Nasonia*. *Chromosoma* 102:20-26.
35. Werren, J.H. and L. Beukeboom. 1993. Population genetics of a parasitic chromosome: Theoretical analysis of PSR in subdivided populations. *Amer. Natur.* 142:224-241.
36. Stouthamer, R. and J.H. Werren. 1993. Microbes associated with parthenogenesis in wasps of the species *Trichogramma*. *J. Invert. Pathol.* 61:6-9.
37. Beukeboom, L.B. and J.H. Werren. 1993. Transmission and expression of the parasitic Paternal Sex Ratio (PSR) chromosome. *Heredity* 70:437-443.
38. Hunter, M. S., U. Nur and J. H. Werren. 1993. Origin of males by genome loss in an autoparasitoid wasp. *Heredity* 70:162-171.

39. Beukeboom, L. and J.H. Werren. 1993. Deletion analysis of a parasitic B Chromosome - Paternal Sex Ratio (PSR). **Genetics** 133:637-648.
40. Breeuwer, J.A.J. and J.H. Werren. 1993. The effect of genotype on cytoplasmic incompatibility between two species of *Nasonia*. **Heredity** 70:428-436.
41. Werren, J.H. 1993. The evolution of inbreeding in haplodiploid organisms. In, *The Natural History of Inbreeding and Outbreeding: Theoretical and Empirical Perspectives*. ed. N. Thornhill. Univ. Chicago Press.
42. Breeuwer, J.A.J. and J.H. Werren. 1993. Cytoplasmic incompatibility and bacterial density in *Nasonia vitripennis*. **Genetics** 135:565-574.
43. Campbell, B.C., J.D. Steffen-Campbell and J.H. Werren 1993. Phylogeny of the *Nasonia* species complex (Hymenoptera: Pteromalidae) inferred from an rDNA internal transcribed spacer (ITS2). **Insect Molec. Biol.** 2:255-237.
44. Assem, J. van den and J.H. Werren. 1994. A comparison of the courtship and mating behavior of three species of *Nasonia* (Hym., Pteromalidae). **J. Insect Behav.** 7:53-66.
45. Reed, K.M., L.W. Beukeboom, D. Eickbush and J.H. Werren. 1994. Junctions between repetitive DNA's on the Paternal Sex Ratio (PSR) chromosome: Association of palindromes with recombination. **J. Mol. Evol.** 38:352-362.
46. Werren, J.H., G.D.D. Hurst, W. Zhang, J.A.J. Breeuwer, R. Stouthamer and M.E.N. Majerus. 1994. Rickettsial relative associated with male-killing in the ladybird beetle (*Adalia bipunctata*). **J. Bacteriol.** 176:388-394.
47. Werren, J.H. 1994. Genetic invasion of the insect body snatchers. **Natural History** 103(6):36-38.
48. Reed, K.M. and J.H. Werren. 1995. Induction of paternal genome loss by the Paternal Sex Ratio Chromosome and cytoplasmic incompatibility bacteria (*Wolbachia*): A comparative study of early embryonic events. **Mol. Repro. & Devel.** 40:408-418.
49. Breeuwer, J.A.J. and J.H. Werren. 1995. Hybrid breakdown between two haplodiploid species: The role of nuclear and cytoplasmic genes. **Evolution** 49:705-717.
50. Werren, J.H. and J. Jaenike 1995. *Wolbachia* and cytoplasmic incompatibility in mycophagous *Drosophila* and their relatives. **Heredity** 75:320-326.
51. Werren, J.H., W. Zhang, and L.R. Guo. 1995. Evolution and Phylogeny of *Wolbachia* Bacteria: Reproductive Parasites of Arthropods. **Proc. Royal Soc. London B** 261:55-71.
52. Werren, J.H. and H.C. Godfray. 1995. Sex Ratio. **Ency of Env Biol.** 3:317-323.
53. Werren, J.H., D. Windsor, and Li Rong Guo. 1995. Distribution of *Wolbachia* among neotropical arthropods. **Proc. Royal Soc. London B.** 262:197-204.
54. Godfray, H.C.J. & Werren, J.H. 1996. Recent developments in sex ratio studies. **Trends in Ecology and Evolution** 11:59-63.
55. Balas, M., M. Lee and J.H. Werren. 1996. Geographical distribution and fitness effects of the sonkiller bacterium in *Nasonia*. **Evol. Ecol.** 10:593-607.
56. Godfray, H.C.J. & Werren, J.H. 1996. Liver physiology and sex ratio biology - Reply **Trends in Ecology and Evolution** 11:384-385.
57. Perrot-Minnot, M.-J., L.R. Guo and J.H. Werren. 1996. Single and double infections of *Wolbachia* in the parasitic wasp *Nasonia vitripennis*: Effects on compatibility. **Genetics** 143:961 - 972.
58. Werren, J.H. 1997. Biology of *Wolbachia*. **Ann. Rev. Entom.** 42:587 - 609.



59. McAllister, B.F. and J.H. Werren 1997. Phylogenetic analysis of a retrotransposon with implications for strong evolutionary constraints on reverse transcriptase. **Mol. Biol. & Evol.** 14:69-80.
60. Werren, J.H. and S. O'Neill 1997. The evolution of heritable symbionts. In **Influential Passengers: inherited microorganisms and arthropod reproduction.** [S. O'Neill, A. Hoffman and J.H. Werren, eds] Oxford University Press
61. McAllister, B.F. and J.H. Werren. 1997. Hybrid origin of a B chromosome (PSR) in the parasitic wasp *Nasonia vitripennis*. **Chromosoma** 106:243-253.
62. Werren, J.H., 1997. *Wolbachia* run amok. **Proc. Natl. Acad. Sci.** 94:11154-11155.
63. Werren, J.H. 1998. *Wolbachia* and speciation. in **Endless Forms: Species and Speciation**, (D. Howard and S Berlocher, eds). pp. 245-260. Oxford University Press.
64. Bordenstein, S.R. and J.H. Werren 1998. Effects of A and B *Wolbachia* and host genotype on interspecies cytoplasmic incompatibility between two *Nasonia* species. **Genetics** 148:1833-1844.
65. Werren, J.H. and L. Beukeboom. 1998. Sex Determination, Sex Ratios and Genetic Conflict. **Ann. Rev. Ecol. & Systematics** 29:233-261.
66. West, S.A., J.M Cook, J.H. Werren and H.C.J. Godfray. 1998. *Wolbachia* in two host-parasitoid communities. **Molecular Ecology** 7:1457-1465.
67. Hariri, A.R., J.H. Werren and G.S. Wilkinson. 1998. Distribution and fitness effects of *Wolbachia* in stalk-eyed flies (Diptera: Diopsidae). **Heredity** 81:254-260.
68. Perrot-Minnot, M.J. and J.H. Werren. 1999. The dynamics of *Wolbachia* infection in the parasitic wasp *Nasonia vitripennis*: selection on incompatibility and bacterial inheritance patterns. **J. Evol. Biol.** 12:272-282.
69. McAllister, B.F. and J.H. Werren 1999. Evolution of tandemly repeated sequences: What happens at the end of an array? **J. Mol. Evol.** 48:469-481.
70. Drapeau, M. and J.H. Werren. 1999. Differences in mating behavior and sex ratio between three sibling species of *Nasonia*. **Evolutionary Ecology Research** 1:223-234.
71. Werren, J.H. and M.J. Perrot-Minnot. 1999. An antennapedia mutant in *Nasonia vitripennis*. **J. Heredity** 90:319-320.
72. Hurst, G., F.M. Jiggins, J.H. Graf von der Schulenburg, D. Bertrand, J.H. Werren, S. West, I.I Goriacheva, I.A. Zakharov, R. Stouthamer, and M.E.N. Majerus. 1999. Male killing *Wolbachia* in two species of insects. **Proc. R. Soc. London B** 266:735-740.
73. Weston, R., I. Qureshi and J.H. Werren. 1999. Genetics of a morphological difference between two insect species. **Journal of Evolutionary Biology** 12:586-595.
74. Gadau, J., R. Page and J.H. Werren. 1999. Mapping of hybrid incompatibility loci in *Nasonia*. **Genetics** 153:1731-1741.
75. Slatko, B., S.L. O'Neill, A.L. Scott, J.H. Werren, and M.L. Blaxter. 1999. The *Wolbachia* Genome Consortium. **Microbial and Comparative Genomics** 1999 4: 161-165
76. Bordenstein, S.R. and J.H. Werren. 2000. Do *Wolbachia* have positive fitness effects in *Nasonia*? **Heredity** 84:54-62.
77. Werren, J.H. and M. Hatcher. 2000. Maternal - zygotic gene conflict over sex determination: Effects of inbreeding. **Genetics** 155: 1469-1479.
78. Bordenstein, S.R., M. Drapeau and J.H. Werren. 2000. Intraspecific variation in interspecific premating isolation between two *Nasonia* species. **Evolution** 54: 567-573.

79. Gadau, J., R.E. Page, J.H. Werren and P. Schmid-Hempel. 2000. Genome Organization and Social Evolution in Hymenoptera. **Naturwissenschaften** 87: 87-89 .
80. Werren, J.H. and D.W. Windsor. 2000. *Wolbachia* infection frequencies in insects: evidence of a global equilibrium? **Proc. Roy. Soc. Lond. B.** 267: 1277 -- 1285.
81. Shoemaker, D.D., K.G. Ross, L. Keller, E.L. Vargo and J.H. Werren. 2000. *Wolbachia* infections in native and introduced populations of fire ants (*Solenopsis* spp.). **Insect Mol. Biol** 9:661-674.
82. Beukeboom, L.W. and J.H. Werren. 2000. The Paternal Sex Ratio (PSR) chromosome in natural populations of *Nasonia* (Hymenoptera: Chalcidoidea). **Journal Evolutionary Biology** 13:967-975.
83. Bordenstein, S.R., F.P. O'Hara and J.H. Werren. 2001. *Wolbachia*-induced bidirectional incompatibility precedes other hybrid incompatibilities in *Nasonia*. **Nature** 409:707-710.
84. Werren, J.H. and J. Bartos. 2001. Recombination in *Wolbachia*. **Current Biology** 11: 431-435.
85. Hurst, G.D.D. and J.H. Werren. 2001. The role of selfish genetic elements in eukaryotic evolution. **Nature Reviews** 2:597-606.
86. Perfectti, F. and J.H. Werren. 2001. The interspecific origin of B chromosomes: experimental evidence. **Evolution** 55: 1069-1073.
87. Lawson, E. T., T.A. Mousseau, R. Klaper, M.D. Hunter, and J.H. Werren. 2001. Rickettsia associated with male-killing in a buprestid beetle. **Heredity** 86:497-505.
88. Perrot-Minnot, M. and J.H. Werren. 2001. Meiotic and mitotic stability of an EMS-produced centric fragment in the haplodiploid wasp *Nasonia vitripennis*. **Heredity** 87: 8-16.
89. Werren, J.H. 2001. *Arsenophonus*. **Bergey's Manual of Systematic Bacteriology** (Vol. 2), G.M. Garrity (ed), Springer-Verlag, New York. .
90. Gadau, J., R.E. Page, and J.H. Werren 2002. The genetic basis of interspecific differences in wing size in *Nasonia* – Major genes and epistasis. **Genetics** 161 (2): 673-684.
91. Telschow, A., P. Hammerstein and J.H. Werren. 2002. The Effect of *Wolbachia* on Genetic Divergence between Populations: Models With Two Way Migration. **American Naturalist** 160: S54-S66.
92. Werren, J.H., M.J. Hatcher, and H.C.J. Godfray. 2002. Maternal-Offspring Conflict Leads to the Evolution of Dominant Zygotic Sex Determination. **Heredity** 88:102-111.
93. Telschow, A., P. Hammerstein and J.H. Werren. 2002. The effect of *Wolbachia* on genetic divergence between populations: Mainland-Island model. **Integr. Comp. Biol.** (2): 340-351.
94. Werren, J.H. and R. Stouthamer. 2002. PSR (Paternal Sex Ratio) chromosomes: The ultimate selfish genetic elements. **Genetica** 117 (1): 85-101.
95. Shoemaker, D.D., E.A. Herre, D. Molbo, C. Machado, J.H. Werren and R. Harrison. 2002. Distribution of *Wolbachia* in fig wasps: correlations with host phylogeny, ecology and population structure. **Proc. Royal Soc. London B** 269: 2257-2267.
96. Casiraghi M., McCall J.W., Simoncini L., Kramer L.H., Sacchi L., Genchi C., Werren J.H., Bandi C. 2002. Tetracycline treatment and sex-ratio distortion: a role for *Wolbachia* in the moulting of filarial nematodes? **Int. J. Parasit.** 32 (12): 1457-1468.
97. Gottlieb Y, E. Zchori-Fein, J. H. Werren, and T. Karr. 2002. Diploidy restoration in *Wolbachia*-infected *Muscidifurax uniraptor* . (Hymenoptera: Pteromalidae). **J. invert. Pathol.** 81:166-174.

98. Werren, J.H. 2003. Invasion of the Gender Benders. **Natural History** 112:58-63.
99. Baldo, L., J.D. Bartos, J. H. Werren, C. Bazzocchi, M. Casiraghi, and S. Panelli. 2003. Different rates of nucleotide substitutions in *Wolbachia* from arthropods and nematodes: arms race or host range? **Parasitologia** 44: 179-187.
100. Baudry, E., K. Emerson, T. Whitworth and J.H. Werren. 2003. *Wolbachia* and genetic variability in the birdnest blowfly *Protocalliphora sialia*. **Molecular Ecology** 12:1843-1854.
101. Bordenstein, S.R., J.J. Uy and J.H. Werren. 2003. Host genotype determines *Wolbachia* cytoplasmic incompatibility type in *Nasonia*. **Genetics** 164:223-233.
102. Lachmann, M., N.W. Blackstone, D. Haig, A. Kowald, R.E. Michod, E. Szathmary, J.H. Werren, and L. Wolpert. 2003. Cooperation and conflict in the evolution of genomes, cells, and multicellular organisms. In **Genetic and Cultural Evolution of Cooperation**. Dahlem Conference Publications, Berlin GE.
103. Bordenstein, S.R., D.H.A. Fitch and J.H. Werren. 2003. Absence of *Wolbachia* in Nonfilariid Nematodes. **J. Nematol.** 35(3):266-270
104. McAllister, B.F., L.W. Beukeboom and J.H. Werren. 2004. Mapping of paternal-sex-ratio deletion chromosomes localizes multiple regions involved in expression and transmission **Heredity** 92 (1): 5-13.
105. Keller, G.P., D.M. Windsor, J. Saucedo, and J.H. Werren. 2004. Reproductive effects and geographical distribution of two *Wolbachia* strains infecting the Neotropical beetle, *Chelymorpha alternans* (Chrysomelidae, Cassidinae) **Molecular Ecology** 13:2405 - 2420.
106. Werren, J.H. 2004. Arsenophonus. *Bergey's Manual of Systematic Bacteriology* (Vol. 2), G.M. Garrity (ed), Springer-Verlag, New York
107. Velthuis, B.J., W. Yang, T. van Opijnen and J.H. Werren. 2005. Genetics of female mate discrimination of heterospecific males in *Nasonia* (Hymenoptera, Pteromalidae) **Animal Behavior** 69:1107-1120.
108. Werren, J.H. 2005. Heritable microorganisms and reproductive parasitism. In. **Microbial Evolution: Concepts and Controversies**. J. Sapp (ed.) Oxford University Press (New York).
109. Werren, J.H., J. Gadau, L. Beukeboom, C. Desplan, J. Lynch, R. Rivers, S. Richards, L. van de Zande 2004. Proposal to sequence the *Nasonia* genome. NIH-NHGRI Genome Sequencing Whitepaper.  
<http://www.genome.gov/Pages/Research/Sequencing/SeqProposals/NasoniaSeq.pdf>
- Baldo, L., N. Lo, and J.H. Werren. 2005. The Mosaic Nature of the *Wolbachia* Surface Protein (wsp). **J. Bacteriology** 187:5406-5418.
111. Telschow, A., J.H. P. Hammerstein, and J.H. Werren. 2005. *Wolbachia*, reinforcement and speciation. **Evolution** 59 (8): 1607-1619.
112. Telschow, A., Yamamura, N. and J.H. Werren. 2005. Bidirectional cytoplasmic incompatibility and the stable coexistence of two *Wolbachia* strains in parapatric host populations. **J. theor. Biol.** 235 (2): 265-274.
113. Opijnen, T., E. Baudry, J. Bartos, L. Baldo, and J.H. Werren. 2005. Genetic variability in the three genomes of *Nasonia*: Nuclear, mitochondrial and *Wolbachia*. **Insect Molecular Biology** 14 (6): 653-663.
114. Casiraghi M., S.R. Bordenstein , L. Baldo, N. Lo N, T. Beninati, J.J. Wernegreen., J.H. Werren, & C. Bandi. 2005. Phylogeny of *Wolbachia* based on gltA, groEL and ftsZ gene

sequences: Clustering of arthropod and nematode symbionts in the F supergroup and evidence for further diversity in the *Wolbachia* tree. **Microbiology-SGM** 151: 4015-4022.

115. Koukou, K. H. Pavlikak, G. Kiliyas, J.H. Werren, K. Bourtzis and S. Alahiotis. 2006. Influence of Antibiotic Treatment and *Wolbachia* Curing On Sexual Isolation Among *Drosophila melanogaster* Cage Populations. **Evolution** 60: 87-96.

116. Baldo, L., S.R. Bordenstein, J. Wernegreen, and J.H. Werren. 2006. Widespread recombination throughout *Wolbachia* genomes. **Molecular Biology & Evolution** 23 (2): 437-449.

117. Baudry, E., M. Desmadril and J. H. Werren. 2006 Rapid adaptive evolution of the signal transduction gene *Pten* in an insect lineage. **J. Mol. Evol.** 62: 1432-1432 .

118. Uyen Tram, K. Fredrick, J.H. Werren, and W. Sullivan. 2006. Paternal Chromosome segregation during the first mitotic division determines cytoplasmic incompatibility phenotype. **J. Cell Science** 119(17): 3655-3663.

119. Paraskevopoulos, C., S.R. Bordenstein, J. Wernegreen, J.H. Werren and K. Bourtzis. Towards a *Wolbachia* Multi Locus Strain Typing system: Discrimination of *Wolbachia* strains present in *Drosophila* species. **Current Microbiology** 53:388-395.

120. Savard, J, D. Tautz, Stephen Richards, George M. Weinstock, Richard A. Gibbs, J.H. Werren, H. Tettelin, D. Leaf, and M.J. Lercher. 2005. Phylogenomic analysis reveals bees and wasps (Hymenoptera) at the base of the radiation of holometabolous insects. **Genome Research** 16:1334 - 1338.

121. Baldo, L., J.C. Dunning Hotopp, S.R. Bordenstein, S. Biber, K. Jollie, C. Hayashi, H. Tettelin, M. Maiden, and J.H. Werren. 2006. A Multilocus Sequence Typing System for the endosymbiont *Wolbachia*. **Applied and Experimental Microbiology** 72:7098 - 7110.

122. Nault, B.A., A.M. Shelton, J.L. Gangloff-Kaufmann, M.E. Clark, J.H. Werren, J.C. Cabrera-Larosa, and G.G. Kennedy. 2006. Reproductive modes of Onion Thrips (Thysanoptera: Thripidae) populations from New York onion fields. **Environmental Entomology** 35:1264 - 1271.

123. Beukeboom, L.W., A. Kamping, M. Louter, L.P. Pijnacker, V. Katju, P.M. Ferre, and J.H. Werren. 2007. Haploid females in the parasitic wasp *Nasonia vitripennis*. **Science** 315:206.

124. Gadau, J., J. H. Werren, O. Niehuis and L. Beukeboom. 2007. The Jewel Wasp. "Genome Mapping and Genomics in Animals" Volume: IV: Insects (C. Kole & W. Hunter eds., Springer, Berlin).

125. Kamping, A., V. Katju, L.W. Beukeboom and J.H. Werren. 2007. Inheritance of gynandromorphisms in the parasitic wasp *Nasonia vitripennis*. **Genetics** 175 (3):1321-1333.

126. Ioannidis, P., J.C. Dunning-Hotopp, P. Sapountzis, S. Siozios, G. Tsiamis, S.R. Bordenstein, L. Baldo, J.H. Werren and K. Bourtzis. (2007). New Criteria for selecting the origin of DNA replication in *Wolbachia* and closely related bacteria. **BMC Genomics** 8: Art. No. 182.

127. Lo, N., C. Paraskevopoulos, K. Bourtzis, S. L. O'Neill, J. H. Werren, S. Bordenstein & C. Bandi. 2007. Phylogenetic and taxonomic status of the intracellular bacterium *Wolbachia pipientis*. **Int. J. Syst. Evol. Micro** 57:654-657.

128. Baldo, L, N. Ayoub and J. H Werren. 2007. Revisiting *Wolbachia* Supergroup Typing Based on WSP: Spurious Lineages and Discordance with MLST **Current Microbiology** 55:81-87.

129. Bordenstein, S.R. and J. H. Werren. 2007. Bidirectional Incompatibility among divergent *Wolbachia* and incompatibility level differences among closely related *Wolbachia* in *Nasonia*. **Heredity** 99:278-287.
130. Telschow, A., M. Flor, K. Kobayashi, P. Hammerstein, and J.H. Werren. 2007. *Wolbachia* induced Unidirectional CI as a Promotor of Speciation: Mainland-Island Model. **PlosOne** 8:1-10.
131. Baldo, L., A. Corthals, L. Perondini and J. H. Werren. 2007. *Wolbachia* in South African scorpions cluster with supergroup F. **Current Microbiology** 55:81-87.
132. Niehuis, O., A.K. Judson, J.H. Werren, W. Hunter, S.E. Dowd, B. Grillenberger, L. W. Beukeboom, and J. Gadau. 2007. Species diagnostic EST-derived SNP and STS markers for the wasp genus *Nasonia* Ashmead, 1904 (Hymenoptera; Pteromalidae). **J. Econ. Entom.** 100 (4): 1033-1036.
133. Dunning Hotopp, J., M.E. Clark, P. Fischer, J. Foster, D. Oliveira, M.C.M. Torres, J. Giebel, S. Wang, R. Nene, J. Shepard, N. Ishmael, N. Kumar, E. Ghedin, J. Tomkins, S. Richards, D. Spiro, B. Slatko, H. Tettelin, and J.H. Werren. 2007. Widespread Lateral Gene Transfers from Intracellular Bacteria to Multicellular Eukaryotes. **Science** 317 (5845): 1753-1756).
134. Baldo LB, N.A. Ayoub, J.R. Russel, J.S. Stahlhut, C.H. Hayashi. and J.H. Werren. 2008. Insights into the routes of *Wolbachia* invasion: strain shuffling across populations and species of the spider genus *Agelenopsis* revealed by strain and mitochondria diversity. **Molecular Ecology** 17:557-569.
135. Hilgenböcker, K. A. Telschow, P. Hammerstein, P. Schlattmann, A. Telschow, and J.H. Werren. 2008. How many species are infected with *Wolbachia*?: A statistical analysis of current data. **FEMS Microbiology** 281:215-220.
136. Clark, M. E., C. Bailey, P. Ferree, S. England, D. Windsor, and J. H. Werren. 2008. *Wolbachia* modification of sperm does not require residence within developing spermatids or spermatocytes. **Heredity** 101:420-428.
137. Werren, J.H., L. Baldo, and M.E. Clark. 2008 *Wolbachia*: Master Manipulators of Invertebrate Biology. **Nature Reviews Microbiology** 6:741-751.
138. Ferree, P.M., A. Avery, J. Azpurua, T. Wilkes and J.H. Werren 2008. Bacterium blocks centrosome formation to kill males in *Nasonia vitripennis*. **Current Biology** 18:1409-1414.
139. Deodoro C. S. G. Oliveira, R. Raychoudhury, D.V. Lavrov, & J.H. Werren 2008. Rapidly evolving mitochondrial genome and directional selection in mitochondrial genes in the parasitic wasp *Nasonia* (Hymenoptera: Pteromalidae). **Molecular Biology & Evolution** 25:2167-2180.
140. Raychoudhury, R., L. Baldo, D.C.S.G. Oliveira, and J.H. Werren. 2008. Modes of Acquisition of *Wolbachia* in *Nasonia*: Horizontal Transfer, Hybrid Introgression and Co-divergence. **Evolution** 63:165-183.
141. Russell J.A., B. Goldman-Huertas, C.S. Moreau, L. Baldo, J.K. Stahlhut, J.H. Werren, N.E. Pierce. 2009. Specialization and geographic isolaton among *Wolbachia* symbionts from ants and Lycaenid butterflies. **Evolution** 63:624-640.
142. Bordenstein, S.R., C. Paraskevopoulos, J.C. Dunning Hotopp, P. Sapountzis, N. Lo, C. Bandi, H. Tettelin, J.H. Werren and K. Bourtzis. 2009. Parasitism and mutualism in *Wolbachia*: What the phylogenomic trees can and can not say **Molecular Biology and Evolution** 26(1):231-241.

143. Koehncke, A., A. Telschow, J. H. Werren, and P. Hammerstein. 2009. Life and death of an influential passenger: *Wolbachia* and the evolution of CI-modifiers by their hosts. **Plos One** 4 (2):e4425.
144. Oliveira, D.C.S.G, J.H. Werren, E. Verhulst, J.D. Giebel, A. Kamping, L.W. Beukeboom and L. van de Zande. 2009. Identification and Characterization of the Doublesex gene of *Nasonia*. **Insect Molecular Biology** 25(10): 2167-2180.
145. Weinert, L.A., J.H. Werren, A. Aebi, G. Stone, and F.M. Jiggins 2009. Phylogeny and life history evolution of Rickettsia bacteria. **BMC Biology** 7:6 .
146. Ishmael, N., J.C. Dunning Hotopp, P. Iannidis, S. Biber, J. Sakamoto, S. Siozios, V. Nene, J.H. Werren, K. Bourtzis, S. Bordenstein, and H. Tettelin. 2009. Extensive Genomic Diversity of Closely Related *Wolbachia* Strains. **Microbiology** (In Press).
147. Werren, J.H. and D. Loehlin, and J.D. Giebel. Larval RNAi in *Nasonia* (Parasitoid Wasp) 2009. **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5310.
148. Werren, J.H. and D. Loehlin. 2009. The Parasitoid Wasp *Nasonia*: An Emerging Model System With Haploid Male Genetics. **Cold Spring Harbor Protocols** doi:10.1101/pdb.emo134.
149. Werren, J.H. and D. Loehlin. 2009. Strain Maintenance of *Nasonia vitripennis* (Parasitoid Wasp). **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5307.
150. Werren, J.H. and D. Loehlin. 2009. Rearing *Sarcophaga bullata* Fly Hosts for *Nasonia* (Parasitoid Wasp). **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5308.
151. Werren, J.H. and D. Loehlin. 2009. Egg Collection for *Nasonia* (Parasitoid Wasp) **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5309.
152. Werren, J.H. and D. Loehlin. 2009. Curing *Wolbachia* Infections in *Nasonia* (Parasitoid Wasp) **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5312.
153. Werren, J.H. and D. Loehlin. 2009. Field Collection of *Nasonia* (Parasitoid Wasp) Using Baits **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5313.
154. 156. Werren, J.H. and D. Loehlin. 2009. Virgin Collection and Haplodiploid Crossing Methods in *Nasonia* (Parasitoid Wasp). **Cold Spring Harbor Protocols** doi:10.1101/pdb.prot5310.
155. De Graaf, M. Brunain, B. Scharlaken, N. Pieren, B. Devreese, D.G. Ebo, W.J. Stevens, C. Desjardins, J.H. Werren and F.J. Jacobs. Novel *Apis mellifera* and *Nasonia vitripennis* venom-associated protein with an ancient C1q-like domain. **Insect Molecular Biology** (In Press).
156. De Graaf, D.C., M. Brunain, C.A. Desjardins, J.H. Werren and F.J. Jacobs. Reconstruction of the *Nasonia vitripennis* venom gland transcriptome based on proteomics and genome database mining. **Insect Molecular Biology** (Accepted).
157. Oliveira, C. W. D. Hunter, J. Ng, C.A. Desjardins, P.M. Dang, and J.H. Werren. Data mining cDNAs reveals 3 new ssRNA viruses in *Nasonia* (Hymenoptera: Pteromalidae). **Heredity** (In Press).
158. Viljakainen, L., D.C.S.G. Oliveira, J. H. Werren, and S. K. Behura. 2009. Transfers of mitochondrial DNA to the nuclear genome in the wasp *Nasonia vitripennis*. **Insect Molecular Biology** (In Press).
159. Niehuis, O., J.D. Gibson, M. Rosenberg, B. Pannebakker, T. Koevoets, A.K. Judson, C. Desjardins, K. Kennedy, D. Duggan, J.H. Werren, L.W. Beukeboom, J. Gadau.

Recombination and its impact on the genome of the haplodiploid parasitoid wasp *Nasonia*. **PloS One** (In Press).

160. Raychoudhury, Rhitoban, Roger Burks, Deodoro C S G Oliveira, David Loehlin, Bernd Grillenberger, J H Werren. Behavioural and Genetic Characteristics of a New Species of *Nasonia*. **Heredity** (Accepted)

161. Behura, S.K., M. Stanke, C.A. Desjardins, J.H. Werren, and D.W. Severson. Comparative analysis of nuclear tRNA genes of *Nasonia vitripennis* and Other Arthropods, and Relationships to Codon Usage Bias. **Insect Molecular Biology** (Accepted).

162. Loehlin, D., L.S. Enders, and J.H. Werren. Evolution of sex-specific wing shape at the *widerwing* locus in four species of *Nasonia*. **Heredity** (Accepted).

163. Hunt, B.G., S. Wyder, N. Elango, J.H. Werren, E.M. Zdobnov, S.V. Yi, and A.D. Goodisman. Sociality is linked to rates of protein evolution in a highly social insect. **Mol. Biol. Evol.** (In Press)

164. Desjardins, C., F. Perfectti, F., J. Bartos, L.S. Enders, and J.H. Werren. The genetic basis of interspecies host preference difference in the model parasitoid *Nasonia*. **Heredity** (Accepted).

165. Darby, A.C., J. Choi, J.K. T. Wilkes, M.A. Hughes, J.H. Werren, G.D.D. Hurst, and J.K. Colbourne. Characteristics of the genome of *Arsenophonus nasoniae*, son-killer bacterium of the wasp *Nasonia*. **Insect Molecular Biology** (In Press).

166. Michael E. Clark, F. P. O'Hara, A. Chawla, & John H. Werren. Behavioral and Spermatogenic Hybrid Sterility in *Nasonia*. **Heredity** (In Press).

167. Raychoudhury, R., B.K. Grillenberger, J. Gadau, R. Bijlsma, L. van de Zande, J.H. Werren, and L.W. Beukeboom. Phylogeography of *Nasonia vitripennis* (Hymenoptera) indicates a mitochondrial-Wolbachia sweep in North America. **Heredity** (In Press).

168. Munoz-Torres, M., C. Saski, B. Blackmon, J. Romero-Severson, J. Tomkins, and J.H. Werren. Development of BAC library resources for parasitic Hymenoptera (*Nasonia vitripennis* and *Nasonia giraulti*). **Insect Molecular Biology** **Insect Molecular Biology** (In Press).

169. Brendan G. Hunt, Stefan Wyder, Navin Elango, John H. Werren, Evgeny M. Zdobnov, Soojin V. Yil, Michael A. D. Goodisman, Sociality is linked to rates of protein evolution in a highly social insect. **Mol Biol. Evol.** (In Press).

170. Wilkes, T., A.C. Darby, J. Choi, J.K. Colbourne, J.H. Werren, and G.D.D. Hurst. The draft genome sequence of *Arsenophonus nasoniae*, son-killer bacterium of *Nasonia vitripennis*, reveals genes associated with virulence and symbiosis **Mol Biol. Evol.** (In Press).

#### IN REVIEW

Werren, J.H., Richards, S., Desjardins, C.A., Niehuis, O., Gadau, J., Colbourne, J.K., et al. (2009). Functional and evolutionary insights from the genomes of three parasitoid *Nasonia* species. **Science** (In Review).

Chang, J., A. Masters, A. Avery and J.H. Werren. Diverse and Divergent *Cardinium* endosymbionts in Daddy Long-Legs (Arachnida: Opiliones). **Journal of Invertebrate Pathology**.

Bordenstein, S.R. R. Raychoudhury and J.H. Werren. The effects of *Wolbachia* on gene flow and infections sweeps in experimental populations of *Nasonia vitripennis*. **Heredity**

Stahlhut, J.S, C. Desjardins, M. Clark, L. Baldo, J.A. Russell, J.H. Werren, and John Jaenike. The mushroom habitat as an ecological arena for exchange of *Wolbachia*. *Molecular Ecology* (In Review).

MANUSCRIPTS (in preparation).

Werren, J.H. D. Loehlin, D. Oliveira, J. Giebel, L. Enders, M. Clark, L. van de Zande, M. Victoria Cattani, M. Munoz Torres, L.W. Beukeboom, and R. Edwards. Wing size evolution by noncoding changes at *doublesex*. For *PLOS Genetics*.

Baldo, L and J.H. Werren. Microevolution of the *Wolbachia* Surface Protein (WSP), the Outer Membrane Protein of an intracellular bacterium of invertebrates.

Hilgenböcker, K. A. Telschow, P. Hammerstein, P. Schlattmann, A. Telschow, and J.H. Werren. 2008. Interactions of Dobzhansky-Muller incompatibilities and *Wolbachia*-induced cytoplasmic incompatibilities in a diploid genetic system.

Herren, J., M. Clark, L. Prednini and J.H. Werren. *Wolbachia* infection correlates with parthenogenetic reproduction in Scorpions.