

Curriculum Vitae (10/12/11)

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

2011	Fellow, Wissenschaftskolleg zu Berlin (2012/2013)
2011	Distinguished Ecol & Evol. Biol. Speaker, Texas A&M University
2011	Alfred M. Boyce Lecturer in Entomology Award, UC Riverside
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 & Humboldt Fellow (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	Echol's Scholar, University of Virginia

PROFESSIONAL ACTIVITIES

2011	Species Selection Committee – 5000 Insect Genomes Project (i5K)
2011- Present	Co-Organizer, Gordon Conference on Ecol. & Evol. Genomics (2015)
2010	Invited Speaker – Memorial Symposium for the International Prize for Biology, Tsukuba, Japan
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	Co-Coordinator – Nasonia Genome Project
2004-2009	Coordinator, Frontiers in Integrative Biological Research: <i>Wolbachia</i> , 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- 2008	Steering Committee, <i>Wolbachia</i> Research Coordination Network
2001, 2002	Organizing Committee, 2nd International <i>Wolbachia</i> Meeting (Crete)
2001	Co-Organizer, Workshop on Non-Drosophilid Insects
2001	42nd Annual Drosophila Research Conference, Washington DC
2000	NIH Genetics Panel, External Reviewer
2000	Organizing Committee, Behavior Genetics Working Group (NSF)
2000	Co-Organizer, <i>Nasonia</i> Working Group 1 st Meeting (Leiden Holland)
2000	Organizing Committee, 1st International <i>Wolbachia</i> 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	
2010, 2011	Genetics Research Experience
2010	Behavior Research
1997 - Present	Animal Behavior--University of Rochester
1986 - Present	Independent Research--University of Rochester
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 <i>Wolbachia</i> 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 <i>Nasonia</i> in Research & Teaching Research Links 2000 (Saint Leo University, February 2001)
2000	Workshop: Using <i>Nasonia</i> in Research & Teaching Research Links 2000 (Hood College, October 2000)
1997, 2000, 2001	Presentation on Using <i>Nasonia</i> in Research & Teaching Research Links 2000 (Ferris State University, May 2000)
1999	NSF Research Experiences for Undergraduates Summer Research Training
1998, 2000, 2003	Evolution of Sex - University of Lusifonia Short Course (Lisbon Portugal)
1996, 2001	Topics in Evolution - Selfish Genes & Genetic Conflict--U of R
1995 - 1996	Topics in Evolution - Evolution of Sex--University of Rochester
1994	Principles of Research--University of Rochester
1993, 1994	Summer School--Max Planck Institute for Animal Physiology, Seewiesen, Germany--Evolution of Conflict & Cooperation
1992-1995	CREST Summer Laboratory Course for High School Biology Teachers
1991-1994	Principles of Biology II--University of Rochester
1986-1994	Laboratory in Ecology and Evolution--University of Rochester
1988	Animal Behavior--University of Rochester
1986	Field Ecology--University of Rochester
1985	Seminar on Insect Population Biology--University of Maryland
1981-1983	Population Genetics--Georgetown University
	Water Bacteriology--U. S. Army, 10th Medical Laboratory

STUDENTS ADVISED (Primary Advisor)

Undergraduate Students Completing Extended Independent Scientific Research and/or a Research

Thesis: Emma Dietrich (2010, 2011), 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): Andrea Rabinowitz (2011), Meghan Sullivan (2011), Emilia Gracia (2010), Emma Dietrich (2010/11), Sonia Mondal (2010/11), Joshus Jensen (2010/11), John Herbst (2010/11), Jacklyn Lerea (2010), Lan Wang (2010/11), 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 Setrakian (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 Gallucii (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 (Ph.D. 2011)	Postdoctoral Fellow, U. Wisconsin
Rhitoban RayChoudury (Ph.D 2010)	Postdoctoral Fellow, Purdue University
Seth Bordenstein (Ph.D. 2002)	Associate Professor, Vanderbilt University
Bryant McAllister (Ph.D. 1996)	Associate Professor, University of Iowa
Leo Beukeboom (PhD. 1992)	Professor, Department of Genetics, University of Groningen, Holland
Johannes Breeuwer (Ph.D. 1992)	Associate Professor, Department of Entomology University of Amsterdam, Holland

Postdoctoral (Current):

David Wheeler (Ph.D. University of Adelaide 2003)

Postdoctoral (Past):

Michael Clark	Instructor & Research Associate – U. of Rochester
Christopher Desjardins	Research Scientist – Broad Institute
Deodoro Oliveira	Postdoctoral Researcher - University of Barcelona
Emma Baudry	Research Scientist – Universite de Paris Sud
Yang Wencai	Research Scientist – Ohio State University

Francisco Perfectti
Marie-Jeanne Perrot-Minnot
Richard Stouthamer
Kent Reed
Danna Eickbush

Research Scientist – University of Grenada
Associate Professor – University of Bourgogne
Professor - University of California, Riverside
Professor – University of Minnesota
Research Scientist – University of Rochester

AREAS OF RESEARCH INTEREST

Evolutionary genetics & genomics: Evolutionary and function genomics of symbionts and insects, evolutionary genetics of adaptation and speciation, symbiosis and host-parasite evolution, parasitic DNA, behavioral genetics, sex ratio selection and sex determining mechanisms, development of *Nasonia* as an emerging model for evolutionary and functional genetics, applications of genetics to biological pest control.

GRANT SUPPORT

- 2011-2015 NIH EUREKA Award "Exploring the Venom Repertoire of Parasitoids"
2010-2011 Provost's Multidisciplinary Award, Exploring the venom repertoires of parasitoids.
2008-2011 NSF, Population Biology of a Lateral Gene Transfer from *Wolbachia* to *Drosophila ananassae*.
2008-2012 NIH, Genetic and Genomic Tools for the Emerging Model Organism *Nasonia*
2007 Japanese Society for the Promotion of Science, Visiting Professor
2007 American Society of Microbiology, Indo-American Professorship
2005 Proposal to Sequence the *Nasonia* Genome NIH-NHGRI Approved for Sequencing
2005-2009 \$1,105,280 NIH Genetics of Wing and Cell-Size Evolution in *Nasonia*
GM/8465019
2004-2006 21st Century Research & Technology Fund "cDNA and
Microarray Development in *Nasonia*" part of a larger grant to J. Romero-
Severson on Insect Genomics.
2003-2008 NSF FIBR: Integrative Studies of *Wolbachia*-Eukaryotic Interactions: Genomes to
Communities and Back (PI)
2002-2003 NIH Nathan Shock Grant on Aging in *Nasonia*
2002-2003 American Rosacea Society Intracellular Bacteria in Demodex mites
2000-2003 NSF Genetics of Hybrid Inviability in *Nasonia*
1999-2002 NSF Genetics of Courtship in *Nasonia*.
1997-2000 NSF Accompl. Based Renewal: Inherited Microorganisms
& Reproductive Isolation in Insects
1996-1999 USDA Parthenogenesis Bacteria
1995-1996 NERC A phylogenetic approach to detecting
horizontal transfer of *Wolbachia* (co-PI with Charles Godfray)
1994-1997 NSF Parthenogenesis & incompatibility microorganisms
in insects
1993-1996 NSF Genetics of Speciation in *Nasonia*
1991-1993 USDA Microorganism associated parthenogenesis in
insects
1989-1992 NSF Population biology of the psr chromosome
1989-1992 NIH Genetics of the psr chromosome
1986-1989 NSF The population biology of sex ratios

INVITED SEMINARS AND SYMPOSIA (2007 - Present)

Int. Social Insect Genomics Res. Conf., Shenzhen, China (2011); Gordon Conference **Ecological & Evolutionary Genomics**, Biddeford, Maine (2011); The *Nasonia* Meeting, Nashville TN (2011); Alfred Boyce Lecture in Entomology, UC Riverside (2011); Dept. of Genetics, NC State (2011); Department of Entomology, Geneva Experiment Station (2011); Joint Seminar Dept. of Ecol., Evol. Biol. & Behavior, and Dept. of Entomology, Michigan State Univ. (2011); Distinguished Ecol. & Evol. Biol. Seminar, Texas A&M Univ. (2011); Dept. of Ecol. & Evol. Biology, University of Arizona (2011); PNAS Sackler Symposium "In Light of Evolution: Cooperation", Irvine, CA (2011); International Prize in Biology Symposium Tsukuba, Japan, (2010); Nematode Symbiosis Conference, Tucson AZ (2010); Phelps Colloquium Series, University of Rochester (2010); Sixth

International *Wolbachia* Conference, Asilomar, Ca (2010); Arthropod Genomics Workshop, Kansas City, KS (2010); Depart. of Ecology and Evolution, Cornell University (2010); Science Friday Social, URMC (2010); University of Lausanne, Switzerland (2010); Univ. of Freiburg, Germany (2010); Zool. Institute, Basel Switzerland (2010); Department of Genetics and Microbiology, Univ. Autonoma de Barcelona, Spain (2010); Centre de Regulacio Genomics, Universitat Pompeu Fabra, Barcelona Spain (2010); Arthropod Symbioses Genomics Worshop, Funchal, Portugal (2010); Institute for Evolution and Biodiversity; Univ. of Muenster, Germany (2010); Department of Pharmacology & Physiology, Univ. of Rochester Medical School, Rochester, NY (2009); Int. Symbiosis Society Meeting, Madison WI (2009); Nasonia 2009 Meeting, Rochester NY (2009); 1st Int. Entomophagous Insects Conference (2009, Plenary Speaker, Minneapolis, MN); Rocky Mnt Biological Laboratory (2009); 6th 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 Depart., Emory U. (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)

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* (=*Mormonilla*) *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. Simbolotti. 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.
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