

Curriculum Vitae (01/24/19)

JOHN (JACK) H. WERREN

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EDUCATION

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

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

PROFESSIONAL EXPERIENCE

2012-Present University of Rochester, Nathaniel & Helen Wisch Professor of Biology
1995-2011 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

2012-Present Fellow, American Academy of Arts & Sciences
2012-Present Nathaniel and Helen Wisch Professor of Biology
2012 Honorary Bingzhi Forum Professorship, Institute of Zoology, Chinese
Academy of Science, Beijing
2012-2013 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
2010 Invited Speaker, International Prize in Biology (Japan)
2008 Visiting Fellow, Institute for Advanced Study, Indiana University
2007 Japan Society for the Promotion of Science – Visiting Scholar
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 Echols Scholar, University of Virginia

PROFESSIONAL ACTIVITIES

2017 Academic Committee, Joint Meeting ICIG and ISIPBMB, Hangzhou,
China
2017 NSF IOS Animal Behavior Grant Preproposal Review Panel
2017 PNAS Guest Editor (manuscript)

2014-Present UR Data Science Institute Steering Committee
2013-Present UR Genomics Research Center Scientific Advisory Committee

2013-2015 Co-Chair, Gordon Research Conference – Ecological & Evolutionary Genomics (2015)
2013 Co-Vice Chair, Gordon Research Conference – Ecological & Evolutionary Genomics (UNE, Maine)
2012 International Congress of Entomology Symposia Co-Organizer (Genetics & Genomics of Non-Diptera Arthropods, Insect Biological Control – Manipulating Parasitoids)
2012 NSF Frontiers in Animal Behavior Research Workshop & Whitepaper
2011-2012 Species Selection Committee – 5000 Insect Genomes Project (i5K)
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
2006-2008 UR Strategic Plan Co-Chair – Genomics and Systems Biology
2006 Dept. Review Team, Cornell University Entomology Dept & Entomology Dept., Geneva Expt. Station
2005 Co-Chair, Biology Department Strategic Plan Committee
Co-Organizer, Workshop on Non-Drosophilid Insects
45th Annual Drosophila Research Conference, Washington DC
2005-2010 Co-Coordinator – Nasonia Genome Project
2004-2009 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- 2008 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 1st 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 & OUTREACH

2017 University of Rochester - Science Teach In (Evidence for Evolution)
2017 Journal Club Director - Microbiomes
2016 Spelman College – Summer Research Training at UR
2014 Jamestown Community College – Summer Research Training at UR
2012 OIST Summer School and Workshop: Quantitative Evolutionary and

2010-2012, 2015 Comparative Genomics (Okinawa, Japan)
 2012 Genetics Research for Undergraduates
 Ecology & Evolution Journal Club – Selfish Genetic Elements, Genetic Conflict, & Levels of Selection
 2009 – 2012 Ecology & Evolution Seminar in Biology
 2014, 2016 Advanced Ecology & Evolutionary Biology
 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 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)
 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 Course--U. S. Army, 10th Medical Laboratory

STUDENTS ADVISED (Primary Advisor)

Undergraduate Students Completing Extended Independent Scientific Research and/or a Research Thesis: Sammy Cheng (2018); Austin Varela (2018); Criswell Lavery (2018); Mengni He (2015-17 – deKiewiet Fellowship, Senior Thesis), Rose Richter (2015 – DeKiewiet Fellowship), Christian Silva (2015), Allison Martin (2014, 2015 – deKiewiet Fellowship), Dylan Sacks (2012/2013), Emma Dietrich (2010, 2011), Justin Sysol (2008, 2009), Gabriel Perreault (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): Tiffany Dias (2018), Sammy Cheng (2018), Shaman Patel (2018), Criswell Lavery (2018), Austin Varela (2018), Marissa Cooper (2016), Michael Pagan (2016), Beanca Michel (2016 Spelman College, Summer Research at UR), George Albert (2015), Andrew Lucchesi (2015), Rose Richter (2015), Mengni He (2015), Andy Gerwitz (Jamestown Cc, 2014), Chayse Langworthy (Jamestown CC, 2014), Christian Silva (2014), Raven Shah (2014), Allison Martin (2015/14/13), Smon Cheewapansri (2013), Amelia Harvey (2012), Dylan Sacks (2011/12), Amit Jhaveri (2012), Yelaine Fernandez (2011/12), Victoria Zhou (2011), Andrea Rabinowitz (2011), Meghan Sullivan (2011), Emma Dietrich (2010/11), Sonia Mondal (2010/11), Joshus Jensen (2010/11), John Herbst (2010/11), Emilia Sola Gracia (2010/2011), Lan Wang (2010/11), Jacklyn Lerea (2010), S. Alagappan (2010), Andrea Rabinowitz (2010), Francisco Ramirez (2010), Laurana Ryback (2010), Michelle Winston (2010), Stephaie Diebold (2009), Emily Grzybowski (2009), Gabriel Perreault (2009, 2008), 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), Laramy Enders (2001), Kevin Emerson (Clarkson University, 2001), Nadeem I Hussain (2001), Elizabeth van Norstrand (2000-1), Chezik Smith (Indiana University, 2000), Jennifer Free (2000), Patrick Theobald (2000), Tim Opijnen (University of Amsterdam, Holland, 2000), Julie Uy (2000), John Jen (2000), Jessica Berg (1999, 2000), Ankur Chawla (1999,2000), Jenny Bangham (Cambridge University, 1998), Imran Qureshi (1998), Sarah Michaels (1998), Shailesh Patel (1997), , Seth Bordenstein (1995, 1996, 1997), Mark Drapeau (1995, 1996, 1997), Vincent Calhoun (1995), Sharon Majchrzak (1995), Richard Meadows (1994), Michele Palmer (1993), Jessica Rollins (1993), Suzanne White (1992), Michelle Lee (1992), Eric Ingerowski (1990, 1991), Renee Gallucii (1991), Benjamin Kozower (1991), David Swank (1992), Vinod Srihari (1991), Kristina Stanfield (1990), Gunjan Sinha (1990), Douglass Swank (1990), Manish Vig (1989), Eric Roesch (1989), Jill Potts (1989), Lisa DiDonato (1988), Albert Laduca (1987), Susan M. Derylak (1987).

PostBac: Luticha Doucette (2014/15)

Masters: Amanda Redding (2013), Nida Meednu (2001), Patrick O'Hara (1999), Rebecca Weston (1997), Michael Balas (1993), Gongbo Guo (2016-7)

Doctoral (Current):

Doctoral (Past):

Aisha Siebert (PhD 2016)

Zichao Yan (Visiting 2015, 2017-18)

David Loehlin (PhD 2011)

Rhitoban RayChoudury (PhD 2010)

Seth Bordenstein (PhD 2002)

Bryant McAllister (PhD 1996)

Leo Beukeboom (PhD 1992)

Johannes Breeuwer (PhD 1992)

MD Residency Northwestern

Postdoctoral Researcher (Zhejiang University)

Assistant Professor, Williams College

Assistant Professor, IISER Mohali, India

Associate Professor, Vanderbilt University

Professor, University of Iowa

Professor & Head, Department of Genetics,

University of Groningen, Holland

Associate Professor, Department of Entomology

University of Amsterdam, Holland

Postdoctoral (Current):

Postdoctoral (Past):

Zichao Yan	Visiting Scientist 2017-8
Ellen Martinson	Postdoctoral Researcher, U. Georgia
Yogeshwar Kelkar	Research Scientist, Merck
Sarah Kingan	Research Scientist, PAC-Bio
Mrinalini	Research Fellow-Protein Science Laboratory, National University of Singapore
Jeremy Wright	Curator – NY State Museum, Albany NY
David Wheeler	Computational Genomics Group, Massey U. (NZ)
Michael Clark	Lecturer – 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	Professor – China Agricultural University, Beijing
Francisco Perfectti	Professor – University of Grenada
Marie-Jeanne Perrot-Minnot	Senior Lecturer – 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 and functional genetics & genomics: Genomics of symbiotic microorganisms and insects, evolutionary genetics of adaptation and speciation, evolution and function of venoms, symbiosis and host-parasite evolution, parasitic DNA, gene expression evolution, microbial-animal lateral gene transfers, 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

- 2016-2017 U. Rochester Pump Primer II: Identifying molecular activators of the sorbitol pathway – relevance to diabetes complications.
- 2016-2020 NSCF “Diversity and Function of Venoms in Pteromalids” (PI- Prof. Gongyin Ye. Collaborator – JH Werren). Natural Science Foundation of China (NSFC).
- 2015-2018 NSF “Genetics of Memory Differences Between *Nasonia* Species”
- 2013-2014 UR Drug Development Pilot Award – Parasitoid Venom Effects on Human Cells
- 2013-2016 NSF “Lateral Gene Transfers from Bacteria to Insects”
- 2012-2014 NSF EAGER Award “Does Genomic Imprinting and DNA Methylation Modulate *Nasonia* Behavior?”
- 2011-2016 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 (2011 - Present)

Yale University (2018); University of Amsterdam, The Netherlands (2018); Breeding Invertebrates for Next Generation BioControl (BINGO) Workshop, Rotterdam, The Netherlands (2018); Netherlands Institute of Ecology, Wageningen The Netherlands (2018); Plenary Speaker, Joint Meeting 3rd Int. Conf of Insect Genomics & 6th Int Symposium of Insect Physiol. Hangzhou, China (2017); Entomology Department, Nanjing Agricultural University (2017); International Congress of Entomology, Orlanda, FI (2016); Zhejiang University, Hangzhou China (2016); Northwest Forestry University, Kunming, China (2016), Spelman College, Atlanta GA (2016); Biological Sciences, U. Illinois Chicago (2015); Biological Sciences, U.South Dakota (2015); Invited Atheneum Lecture, Claremont College (2015), UC Santa Barbara (2015), Genetics & Genomics URM (2015), Large-Scale Quantum Effects in Biological Systems, Vancouver, CA (2014); Systems Biology Workshop, Centre for AgriBioscience, La Trobe U., Australia (2014); Department of Biology, U. of Utah (2014); WissenschaftsKolleg zu Berlin (2013); Public Symposium: Synthesizing Theoretical and Experimental Biology Today, Berlin Germany (2013); *Nasonia* 2013, Wageningen, Netherlands (2013); Ecogenomics Symposium (Kansas City, 2012); Dept. of Biology, University of Virginia (2012); Institute of Zoology, Chinese Academy of Sciences, Beijing, China (Summer 2012); International Congress of Entomology, Genomics of Non-Dipteran Insects (2012, Co-Chair); International Congress of Entomology, Genetics and Genomics of Parasitoids & Relatives (2012, Co-Chair); OIST Summer School and Workshop: Quantitative Evolutionary and Comparative Genomics (Summer 2012); Adaptive & Non-Adaptive Processes in Life-History Evolution and Speciation (Groningen, NE 2012), 7th International *Wolbachia* Conference (2012), NSF Frontiers in Animal Behavior Workshop (2012); Speciation Day, Cornell U. (2012); Suny Buffalo (2012); 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);

PUBLICATIONS OF JOHN H. WERREN

<https://scholar.google.com/citations?user=goUojWIAAAAJ&hl=en&oi=ao> (24988 citations, H-Index = 77, i10=190). **Orcid Link** <https://orcid.org/0000-0001-9353-2070>

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. 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.
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Near Submission

Tvedte, ES, KKO Walden, KE McElroy, JH Werren, GR Hood, JM Lodsdon, JL Feder, and HM Robertson. Genome of the parasitoid wasp *Diachasma alloeum*, an emerging model for ecological speciation and transitions to asexual reproduction.