

John G. Hildebrand

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 Spouse: Gail D. Burd, Ph.D.

Education

- 1964 A.B. Harvard University (Biology – mentors: John Law & Konrad Bloch)
- 1966 Harvard Medical School, summer training program in general pathology
- 1969 Ph.D. Rockefeller University (Biochemistry – mentors: Leonard Spector & Fritz Lipmann)
- 1969-71 Postdoctoral Fellow, Harvard Medical School, Department of Neurobiology
(mentor: Edward Kravitz)
- 1977 Cold Spring Harbor Laboratory course, Methods in Cellular Neurophysiology
- 1993 DNA Methods Course, University of Arizona Division of Biotechnology

Employment**Present Positions**

- 2014-18 Foreign Secretary, U.S. National Academy of Sciences
- 2010-now Honors Professor, University of Arizona
- 1989-now Regents Professor, University of Arizona
- 1985-now Professor of Neuroscience, Chemistry & Biochemistry, Ecology & Evolutionary Biology,
Entomology, and Molecular & Cellular Biology, University of Arizona

Previous Positions

- 2009-13 founding Head, Dept. of Neuroscience (formerly ARL Div. Neurobiology), Univ. of Arizona
- 2010-12 Chairman, Executive Committee, UA School of Mind, Brain and Behavior
- 1986-97 Chairman, UA Committee on Neuroscience, University of Arizona
- 1985-2009 founding Director, Arizona Research Laboratories Division of Neurobiology, Univ. of Arizona
- 1981-86 Adjunct Professor, Rockefeller University
- 1980-85 Professor of Biological Sciences, Columbia University
- 1980-81 Visiting Professor of Neurobiology, Harvard Medical School
- 1980-97 Associate in Behavioral Biology, Museum of Comparative Zoology, Harvard University
- 1977-80 Associate Professor of Neurobiology, Harvard Medical School
- 1972-77 Assistant Professor of Neurobiology, Harvard Medical School
- 1970-80 Tutor in Biochemical Sciences, Department of Biochemistry and Molecular Biology and Eliot
House, Harvard University
- 1970-71 Instructor in Neurobiology, Harvard Medical School

Honors**Academies and Learned Societies**

- 2014 Elected Member, American Philosophical Society
- 2011 Elected Foreign Member, Royal Norwegian Society of Sciences and Letters Academy (Trondheim)
- 2007 Elected Member, U.S. National Academy of Sciences
- 2001 Elected Fellow, American Academy of Arts and Sciences
- 1999 Elected Foreign Member, Norwegian Academy of Science and Letters (Oslo)
- 1998 Elected Member, German National Academy of Sciences ‘Leopoldina’

Honorary Degree

- 2000 *Laurea honoris causa* (honorary degree), Università degli Studi di Cagliari, Italy

Awards, Prizes, etc.

- 2013 University of Arizona Graduate Interdisciplinary Programs Honored Faculty Award

- 2012 Fellow, International Society for Neuroethology
 2012 Honorary Fellow, Royal Entomological Society of London
 2012 AChemS Max Mozell Award for Outstanding Achievement in the Chemical Senses
 2011 Westlake Friendship Award (“the highest award given to foreign experts by the government of Zhejiang Province,” People’s Republic of China)
 2009– Honorary Professor, Wenzhou Medical College, Wenzhou, Zhejiang, P.R. China
 2009-10 Phi Beta Kappa Visiting Scholar
 2008 Fellow, Entomological Society of America
 2008 Einstein Professorship, Chinese Academy of Sciences, P.R. China
 2006 Lifetime Achievement Award, Am. Psychol. Assoc., Diversity Program in Neuroscience
 2006 Outstanding Service Award for Contributions to the Biological Sciences, AIBS
 2006 Henry and Phyllis Koffler Prize for Research/Scholarship/Creative Activity, Univ. of Arizona
 2006 Silver Medal, International Society of Chemical Ecology (ISCE’s highest award)
 2005 Manheimer Award, Monell Chemical Senses Center, Philadelphia, PA
 2000 University of Arizona Mortar Board National Senior Honor Society Faculty Award
 1997 Humboldt Research Award, Alexander von Humboldt-Stiftung, Germany
 1997 IFF Award for Innovative Research in the Chemoreception Sciences
 1997 Founders Memorial Award, Entomological Society of America
 1991 Wellcome Visiting Professorship, Meharry Medical College, Nashville, TN
 1990 Max Planck Research Award of the Max-Planck-Gesellschaft & A. von Humboldt-Stiftung
 1990 R.H. Wright Award in Olfactory Research
 1989 Awarded Regents Professorship, University of Arizona
 1986 Elected Fellow, American Association for the Advancement of Science
 1986 MERIT Award, NIAID, NIH
 1986 Javits Neuroscience Award, NINCDS, NIH (later changed to Pepper Award, NIDCD)
 1984 Elected Fellow, Royal Entomological Society (London)
 1973-77 Alfred P. Sloan Foundation Postdoctoral Research Fellowship
 1972-77 Established Investigatorship of the American Heart Association
 1969-72 Helen Hay Whitney Foundation Postdoctoral Research Fellowship
 1967 Elected to Sigma Xi, Rockefeller University
 1964 Elected to Phi Beta Kappa, Harvard College
 1964 A.B. *Magna cum laude*, Harvard College

Honorific Lectureships

- 2014-16 Sigma Xi Distinguished Lecturer
 2012 Distinguished Lecturer, Max-Planck-Institut für Neurobiologie, Munich (Martinsried), Germany
 2012 Lawrence Gilbert Distinguished Lecturer, Univ. of North Carolina
 2012 2012 Walter F. Heiligenberg Lecturer, Univ. California-San Diego
 2011 First Hector Maldonado Memorial Lecturer, Argentinian Society for Neuroscience (SAN)
 2011 Siemens Stiftung Lecturer, Munich, Germany
 2009 Martinez-Townsel Lecturer, Marine Biological Laboratory, Woods Hole, MA
 2008 Charles Doane Lecturer, University of Wisconsin, Madison, Dept. of Entomology
 2008 Grass Foundation Lecturer, South East Nerve Net annual meeting, Atlanta
 2007 Ernst Florey Lecture, International Society for Invertebrate Neurobiology, Hungary
 2007 Neuroscience Distinguished Lecturer, Colby College, Waterville, ME
 2007 Edward A. Kravitz Lecturer, Marine Biological Laboratory, Woods Hole, MA
 2006 Silver Medal Lecture, International Society of Chemical Ecology
 2005 Mastertaste-Manheimer Lecturer, Monell Chemical Senses Center, Philadelphia
 2004 Cajal Lecturer, Cajal Institute, Madrid, Spain
 2003 Bobby Pass Student Choice Speaker, Dept. of Entomology, University of Kentucky
 2003 Padykula Lecturer, Wellesley College, Wellesley, MA
 2003 Class of 1960 Neuroscience Scholar Lecturer, Williams College, Williamstown, MA
 2002 Grandpierre Memorial Lecturer, Dept. of Chemistry, Columbia University
 2001 Alfred M. Boyce Lecturer, University of California - Riverside

- 1999 Grass Foundation Lecturer, Eastern Nerve Net annual meeting, Woods Hole, MA
 1998 Grass Foundation Lecturer, Halifax, NS, Chapter, Society for Neuroscience
 1995 Felix Santschi Lecturer, Universität Zürich, Switzerland
 1995 Kenneth D. Roeder Memorial Lecturer, Tufts University
 1995 King Solomon Lecturer, Hebrew University, Jerusalem
 1992 Jan de Wilde Memorial Lecturer, University of Wageningen, Netherlands
 1992 Distinguished Lecturer, Boyce Thompson Institute, Cornell University
 1991 D.T. Rolf Lecturer, Meharry Medical College, Nashville, TN
 1990 Spencer Memorial Lecturer, University of British Columbia
 1988 Grass Foundation Lecturer, Central Illinois Chapter, Society for Neuroscience
 1986 Ralph W. Gerard Lecturer in Neurosciences, University of California – Irvine
 1985 Givaudan Lecturer, Association for Chemoreception Sciences
 1985 Lang Lecturer, Marine Biological Laboratory, Woods Hole, MA

Memberships in Professional Scientific Societies

- American Arachnological Society
 American Association for the Advancement of Science (AAAS, Fellow)
 American Chemical Society (recognized for more than 50 years of membership)
 American Institute of Biological Sciences (AIBS)
 American Physiological Society
 American Society for Biochemistry and Molecular Biology
 Animal Behavior Society
 Association for Chemoreception Sciences (AChemS; past President)
 Entomological Society of America (Fellow)
 European Chemoreception Research Organization (ECRO)
 Faculty for Undergraduate Neuroscience (FUN)
 International Brain Research Organization (IBRO)
 International Society of Chemical Ecology (past President)
 International Society for Invertebrate Neurobiology
 International Society for Neuroethology (Fellow; past President)
 Neurowissenschaftliche Gesellschaft (Germany)
 New York Academy of Sciences
 Royal Entomological Society (UK, Fellow; awarded Honorary Fellowship in 2012)
 Society for Experimental Biology (UK)
 Society for Integrative and Comparative Biology (SICB)
 Society for Neuroscience

Other Professional Positions and Service

Academies

- 2014-18 elected Foreign Secretary, National Academy of Sciences
 2013-now member, National Academies' Committee on Science, Engineering, & Public Policy (COSEPUP)
 2013-now member, Board on Life Sciences, NAS-NRC
 2013-16 American Academy of Arts & Sciences representative to the AAAS
 2013-16 member, Committee on Publications, National Academy of Sciences
 2012-15 elected member, Council, National Academy of Sciences
 2011-14 member, Temporary Nominating Group (Class VI), National Academy of Sciences
 2009-now National Academy of Sciences representative to IBRO Governing Council
 2008 member, Nominating Committee, National Academy of Sciences
 2004-10 Co-chair, Committee on Science in the Liberal Arts Curriculum, Am. Acad. Arts & Sciences
 2003-now member, Committee on Publications, American Academy of Arts & Sciences
 2003-now member, Committee on Studies, American Academy of Arts & Sciences
 1991 member, National Academy of Sciences Advisory Panel for *The Infinite Voyage*
 1984-85 Workshop, Committee on Models in Biomedical Research, Nat. Acad. of Sciences

Scientific Societies, Agencies, etc.

- 2014-now Chair, Nominating Committee, IBRO
 2013-14 member, Program Committee, Annual Meeting, International Society of Chemical Ecology
 2013-14 Co-Chair, Academic Committee, Tenth Conference of the Chinese Assoc. of Chem. Ecology
 2013-18 member, Society for Neuroscience Finance Committee
 2010-now Soc. for Neuroscience representative to the FENS-IBRO Neuroscience Schools Committee
 2007-12 Councilor, International Society for Neuroethology
 2005-10 Chairman, Membership Committee, International Society for Neuroethology
 2004-06 Education Committee, International Society for Neuroethology
 2004-05 Chairman, Section on Neuroscience, AAAS (Chairman-Elect, 2003-04)
 2002-09 member, International Affairs Committee, Society for Neuroscience (also the US/Canada Regional Committee of IBRO)
 2002-03 President, Association for Chemoreception Sciences (AChemS)
 2001-10 Chairman, Board of Schools, International Brain Research Organization (IBRO)
 1999-2002 member, Council of the Gordon Research Conferences
 1998-99 Chairman, Electorate Nominating Committee, AAAS Section on Neuroscience
 1998-2001 member, Social Issues Committee, Society for Neuroscience
 1998-99 President, International Society of Chemical Ecology (Vice President, 1997-98)
 1998 member, Gerard Prize Selection Committee, Society for Neuroscience
 1997-99 Founding Chairman, Gordon Research Conference on Neuroethology (Oxford, 1999)
 1995-98 President, International Society for Neuroethology (Past-President, 1998-2001)
 1995-98 Member-at-Large, Neuroscience Section Steering Group, AAAS
 1995 Organizer and Chairman, Ciba Foundation/WHO Symposium on Mosquito Olfaction
 1993-97 member, Publications Committee, Society for Neuroscience
 1993-now member, Dana Alliance for Brain Initiatives, Dana Foundation
 1993-95 Councilor, Association for Chemoreception Sciences
 1993-98 Chair, Committee on Developing Countries, Assoc. of Neurosci. Depts. & Programs
 1992-94 Treasurer-Elect (1992-93) and Treasurer (1993-94), Society for Neuroscience
 1992-93 Chair, Internat. Brain Research Organization Committee on Developing Countries
 1991-99 Councilor, International Society for Invertebrate Neurobiology
 1990-92 Chair, Internat. Program Committee, 3rd International Congress of Neuroethology
 1990-93 member, Government and Public Affairs Committee, Society for Neuroscience
 1990-2009 member, Advisory Committee, APA/ANDP/NIMH Diversity Program in Neuroscience
 1989-90 member, Selection Committee, Young Investigator Award, Society for Neuroscience
 1989 member, Prize Committee, International Society for Neuroethology
 1989-92 member, Steering Committee, Complex Systems Summer School, Santa Fe Institute
 1988-89 President, Association of Neuroscience Departments and Programs (ANDP)
 1988-89 member, Internat. Program Committee, 2nd International Congress of Neuroethology
 1987-90 Chairman, Membership Committee, Society for Neuroscience
 1986-87 member, Program Committee, Association for Chemoreception Sciences
 1986-88 member, Program Committee, American Society for Neurochemistry
 1982-83 Chairman, Program Committee, Society for Neuroscience
 1979-80 member, Nominating Committee, Society for Neuroscience
 1978-81 member, Program Committee, Society for Neuroscience

Editorial Boards

- 2006-10 *TheScientificWorld Journal*
 2003-05 *Neuroscience Letters*
 2001-now *Journal of Chemical Ecology*
 2000-now *Journal of Insect Science*
 1997-2013 *Chemoecology*
 1994-now *Invertebrate Neuroscience*
 1990-now *Journal of Comparative Physiology A*
 1989-95 *Journal of Comparative Neurology*

1989-92, '96-03 *Journal of Neurophysiology*
 1988-89 *Journal of Experimental Biology*
 1986-93 *Journal of Insect Behavior*
 1983-94 *International Journal of Insect Morphology and Embryology*
 1983-90 *Archives of Insect Biochemistry and Physiology*
 1983-2013 *Quarterly Review of Biology*
 1981-89 *Journal of Neurochemistry*
 1981-91 *Trends in Neurosciences*
 1981-91 *Annual Review of Neuroscience*
 1981-84 *Neuroscience Commentaries* (Editor)
 1980-88 *Journal of Neuroscience* (Section Editor, Developmental Neuroscience, 1983-88)
 1977-90 *Insect Biochemistry*

Federal Government Agencies

2009-12 member, Alan T. Waterman Award Selection Committee, NSF
 2007 member, NSF Workshop on Neuroscience and the Physical Sciences
 1995-96 Co-Chairman, Special Committee to Review Training Programs, NINDS-NIH
 1994 Chairman, NINDS Program Project Site Visit Team, Morehouse Medical School
 1992 member, Invertebrate Zoology Task Group, NSF
 1989-91 Chairman, Advisory Committee for Biological, Behavioral & Social Sciences, NSF
 1989 member, Oversight Review Committee, Div. of Behavioral & Neural Sciences, NSF
 1986-88 member, Committee on Recommendations for U.S. Army Basic Scientific Research
 1983 member, Neuroscience Workshop, Office of Technology Assessment, U.S. Congress
 1983 member, Neurobiology Program Review Committee, NSF
 1974-77 member, Advisory Panel for Neurobiology, NSF

Foundations

2005-06 member, Presidential Advisory Panel for Research, The Research Corporation
 2001-07 Trustee, Grass Foundation
 1992-10 member, Prize Selection Committee, Capranica Foundation (Chair every third year)
 1985 Overseer for Grass Fellows Program, Grass Foundation
 1984-now Consultant, Sherman Fairchild Foundation

Industry

1989, 1993 Consultant, Merck Research Laboratories
 1984-91 Consultant, Monsanto Company
 1982 Consultant, DuPont Corporation

Institutional Service and Administration

University of Arizona

2013-now member, Advisory Board of the School of Mind, Brain and Behavior
 2012-now member, Graduate and Professional Student Council Advisory Council
 2011-12 member, Advisory Council for the UofA Presidential search
 2011-13 member, Dean's Board of Advisors, UofA College of Science
 2010-11 member, Search Committee for Dean, College of Agriculture and Life Sciences
 2010-13 member, Research Policy Committee
 2009-11 member, Executive Committee, Grad. Interdisc. Prog. in Entomology & Insect Science
 2009-13 member, Executive Committee, School of Mind, Brain, and Behavior (Chair, 2010-12)
 2008-09 member, planning team for School of Mind, Brain, and Behavior
 2008 member, Academic Program Review Committee for Department of Neurology
 2008-11 member, University of Arizona Strategic Advancement Committee
 2007-09 member, University of Arizona Science Center Task Force
 2007-now member, B2 Institute Steering Committee, College of Science
 2005 member, search committee for Director of Development, UAPresents

2004-05	member, General Education Review Committee
2004	member, Academic Program Review Self-Study Team, GIDP in Insect Science
2004	member, Faculty Senate committee to review School of Planning
2002-06	co-founder and member, Regents Professors' Focused Excellence Task Force
2001-02	Co-Chair, Organizing Committee, 4th Internat. Symposium on Molecular Insect Science
2000-now	elected member, Committee of Eleven (University faculty governance committee)
1998-99	member, Team on Research for University of Arizona NCA Re-Accreditation
1998-2012	member, Coordinating Committee, Program for Academic Leadership
1998-99, '01-03	elected member, Graduate Interdisciplinary Programs Advisory Council
1997-2003	member, Graduate Student Admission & Recruitment Committee, Committee on Neuroscience (chairman 1997-2000)
1997-98	Co-Chair, Organizing Committee, 3rd Internat. Symposium on Molecular Insect Science
1997-2002	member, Sponsored Projects Services Users Group
1997-2001	member, Executive Committee, Interdisciplinary Research Training Group on Plant-Insect Interactions
1996-now	Faculty Representative to the Federal Demonstration Partnership
1996-now	Regents Professorship Advisory Committee (chairman 1999-present)
1994	member, Provost's Planning Group for Undergraduate Core Curriculum Development
1994-09	member, faculty of the Graduate Interdisciplinary Program (GIDP) in Insect Science
1993	member, Selection Committee, Dept. Awards for Outstanding Achievement in Undergraduate Education
1993-94	member, Search Committee for Head, Department of Physics
1991-92	member, Task Force on Undergraduate Education
1991-93	member, faculty of the Graduate Interdisciplinary Program in Physiological Sciences
1991-92	member, University Relations Advisory Board
1991-96	member, Advisory Board, Institute for Neurogenic Communication Disorders
1990-91	member, Search Committee for President
1990-94, 2000-	elected Faculty Senator
1990-92	member, Laboratory Safety Committee
1990	member, Special Committee on Faculty Participation in University Governance
1989-92	member, International Programs Advisory Committee
1989	Chairman, Search Committee for Director, Center for Insect Science
1989	Vice Chairman, Search Advisory Committee for Provost
1989-2006	member, Advisory Committee for Vice President for Research
1989-92	member, University Research Collections and Systematics Committees
1988	member, Search Advisory Committee for Vice President for Research
1988	member, Internal Review Committee, Department of Speech & Hearing Sciences
1987	member, Committee to Review Graduate Programs in the Biological Sciences
1986-87	Chairman, Search Committee for Head for Dept. of Microbiology & Immunology
1986-91	member, Executive Committee, Center for Complex Systems
1986-now	member, Executive Committee, & Co-Founder, Center for Insect Science
1986-2000	member, Committee of Biological Sciences Department Heads (Chairman, 1987-88)
1986-2003	member, Executive Committee, Committee on Neuroscience
1986-97	Founding Chairman, University Committee on Neuroscience

Marine Biological Laboratory, Woods Hole

2013-now	member, MBL Society (formerly the Corporation)
2012	Chairman, Review Committee for the Whitman Center
2004	Scholar-in-Residence, Neural Systems & Behavior Course
1996-now	Instructor in Summer Program in Neuroscience Ethics and Survival (SPINES)
1989	member, Committee to Review Gray Museum
1986-87	member, Search Committee for Director
1986-87	member, Committee on Laboratory Goals
1984-89	member, Instruction Committee

- 1984-85 member, Ad Hoc Housing Committee
 1984 member, Decennial Review Committee
 1983-88 member, Research Services Committee
 1981-89, '93 elected member, Board of Trustees (Executive Committee, 1981-88)
 1980-84 Co-Director, Summer Neurobiology Course
 1980-2013 member of the Corporation

Columbia University

- 1983-85 Chairman, Graduate Studies Committee, Dept. of Biological Sciences
 1983-84 member, Provost's Task Force on Scientific Research
 1982-83 member, Executive Committee, Graduate School of Arts and Sciences
 1982-83 member, Psychiatry Chair Search Committee
 1981-85 member, Horwitz Prize Committee
 1980-85 member, Biology Appointments and Promotions Committee
 1980-85 Chairman, Biology Library Committee
 1980-83 Chairman, Neurobiology Search Committee

Harvard University

- 2005-06 Advisory Committee, Center for Brain Science
 1992-95 Advisory Comm., NINDS Program Project Grant (E. Kravitz, PI), Dept. of Neurobiology
 1977-80 member, Committee on Cell and Developmental Biology
 1972-80 Chairman, Library Committee, Department of Neurobiology

Rockefeller University

- 1996 Chairman, Committee on the Future of the Field Research Center
 1983-84 Co-Chairman, Graduate Program 25th Anniversary Committee
 1970-73 member, Board of Trustees (Alumnus Trustee)

Other Institutions (including State and Foreign Governments)

- 2014 member, Program Review team, Keck Center, North Carolina State University
 2014 member, Site Visit Team, UCLA Dept. of Integrative Biology & Physiology
 2012 member, Academic Program Review Panel, Dept. of Biology, U. Maryland
 2010-14 member, External Advisory Committee, Institute of Neurobiology, U. Puerto Rico
 2009 member, Selection Committee for 25th International Prize for Biology, JSPS, Japan
 2006 member, Review Committee for the Biological Intelligence Main Research Theme of the Beckman Institute, University of Illinois at Champaign/Urbana
 2006 member, Academic Program Review Panel, Dept. of Biology, Georgia State Univ.
 2004-14 member, External Advisory Committee, State of Maine NIH IDEA Network of Biomedical Research Excellence (INBRE)
 2001 consultant on interdisciplinary programs, East Carolina University, NC
 2000-08 member, External Advisory Committee, Meharry Medical College, Center for Molecular and Behavioral Neuroscience and NINDS-sponsored Specialized Neuroscience Research Program (SNRP)
 2000-08 member, External Advisory Committee, NIMH R25 Grant, Meharry Medical College
 2000-04 member, External Advisory Committee, University of Puerto Rico's NIH-supported Center of Biomedical Research Excellence (COBRE)
 2000 Chairman, External Review Committee, Brain Science Institute RIKEN, Japan
 1999 Chairman, External Review Committee, Sec. of Neurobiol & Behavior, Cornell Univ.
 1998 member, External Review Committee, Dept. of Biology, Univ. of Virginia
 1997 member, External Review Committee, Ph.D. Program in Neurosciences, UCSD
 1997 member, External Advisory Committee, School of Integrative Biology, Univ. Illinois
 1996-2007 member, Consiglio Scientifico, Stazione Zoologica, Naples, Italy
 1996-99 member, External Advisory Committee, MBRS Program, Meharry Medical College
 1996 External Reviewer for Life Sciences Consortium, Pennsylvania State University

- 1995-98 member, Fachbeirat, Max-Planck-Institut für Verhaltensphysiologie, Seewiesen
 1995 member, Organizing Committee, 1995 Workshop, Kras Institute for Advanced Study, George Mason University
 1994 reviewer, graduate programs, School of Biol. Sci., Univ. of California - Irvine
 1993-94 SERC Invertebrate Neuroscience Initiative Review Panel, UK
 1993 external reviewer for Doctoral Program in Neuroscience, SUNY-Syracuse
 1993-95 RCMI External Advisory Committee, Meharry Medical College, Nashville, TN
 1992-99 member, Steering Committee, Sussex Centre for Neuroscience, Univ. of Sussex, UK
 1992 reviewer for Doctoral Program in Neuroscience, University of Miami
 1990-95,
 2007-12 member, Scientific Advisory Board, Whitney Marine Laboratory, Univ. of Florida
 1989 Chairman, Biological Sciences Panel, Texas Advanced Technology/Advanced Research Program, Texas Higher Education Coordinating Board
 1981-86 member, Yale University Council Committee on Sciences – Biological

Activities Outside Academe and Science (Community Service, etc.)

- 2013-now member, Community Advisory Board, Arizona Public Media
 2013-now elected member, Cosmos Club (Washington DC)
 2012-now volunteer science teacher, J.B. Wright Elementary School, Tucson Unified School District
 2012-now member, Ambassadors of the Arizona Friends of Chamber Music
 2005-now member, Program Committee, UAPresents (performing arts presenting organization)
 2003-05 member, search committee for Director, UAPresents
 2003-10,
 2012-14 member, Advisory Board, UAPresents
 1990-now occasional speaker at local alumni clubs, retirement communities, school groups, etc.

Activities in Education

Extramural

- 2012 faculty member, FENS-SfN-IBRO Bertinoro School on Chemical Senses
 2011 Co-Director, Second IBRO-Kemali Neuroscience School, Stazione Zoologica, Naples
 2009 faculty member, IBRO Neuroscience School, Instituto Estable, Montevideo, Uruguay
 2007 faculty member, IBRO Latino American School of Neuroethology, Buenos Aires
 2003 faculty member, IBRO Neuroscience School, Instituto Estable, Montevideo, Uruguay
 2002 faculty member, School and Conference on Chemical Senses: Molecules to Perception, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
 2002 faculty member, International Course on Experimental Approaches in Neuroethology, University of Chile, Santiago and Valparaiso

University of Arizona

- 2012-now co-instructor (1 of several), NRSC 560, 'Systems Neuroscience'
 2012-14 co-instructor (1 of 2), Neuroscience (NROS) 307, 'Cellular Neurophysiology'
 2011-now co-instructor (1 of 2), HNRS 195I, 'Biomedical Ethics, Health Policy and Society'
 2011-now annual lecturer on chemical senses for Neurosurgery Residents
 2010 co-instructor (1 of 2), HNRS 195I-004, 'The Brain—the Organ that Makes Us Human'
 2008-10 co-instructor (1 of 4), Integrated Science 195A
 1998-2000 &
 2004-11 co-instructor, Neuroscience (NRSC) 589, 'Principles of Systems Neurobiology'
 1992-97 course instructor, Neuroscience (NRSC) 195H, Honors First-Year Colloquium, 'The Brain'
 1992-2011 instructor (1 of 2), MCB (also BIOC and NRSC) 407 (formerly 461), 'Neurobiology'
 1988-90 instructor (1 of 3), NRSC (also BIOC, MCB, and PSIO) 588, 'Principles of Cellular and Molecular Neurobiology'
 1989-91 instructor (1 of 3), NRSC 701, 'Communication in Neuroscience'
 1986-97 Chairman, Committee on Neuroscience & Founding Director, Graduate Interdisciplinary Program in Neuroscience

Postdoctoral Research Associates (*current)

- Rella Abernathy, Ph.D. (1995-96) [co-advisor: Dr. Elizabeth Bernays], UA Plant-Insect Group Postdoctoral Fellowship, *currently Integrated Pest Management Coordinator, City of Boulder CO*
- Rachel Bober, Ph.D. (2011-12), Vaadia-BARD Postdoctoral Fellow (Israel), *currently working in Israel*
- Thomas A. Christensen, Ph.D. (1983-87), *retired*
- Cécile Faucher, Ph.D. (2011-13), *currently working for a company in Germany*
- Ann Fraser, Ph.D. (1998-2001), fellow, UA/NSF Plant-Insect Group Training Program, *currently Associate Professor, Kalamazoo College*
- Nicholas J. Gibson, Ph.D. (1995-2006) [co-advisor: Dr. L.P. Tolbert], *retired*
- Corinna (Thom) Gilley, Ph.D. (2002-05) Deutsche Akademische Austauschdienst Fellow & Feodor Lynen Fellow of the A. v. Humboldt Stiftung, *currently science writer & editor, New Jersey*
- John R. (Jack) Gray, Ph.D. (1999-2001) [co-advisor: Dr. M.A. Willis], *currently Associate Professor of Biology, University of Saskatchewan*
- Pablo G. Guerenstein, Ph.D. (1999-2008), *currently Adjunct Investigator, National Research Council (CONICET, CICyTTP), Diamante, Entre Rios, Argentina*
- Susannah Hannaford, Ph.D. (1993-94) [co-advisor: Dr. T.A. Christensen], *currently Professor of Biology, University of Puget Sound*
- Eric Hanneman, Ph.D. (1988-90), American Cancer Society Postdoctoral Fellow, *last known position: Curator of Living Collections & Aquarist, North Carolina Museum of Natural Sciences, Raleigh, NC*
- Bill S. Hansson, Ph.D. (1989-90), Swedish government fellowship, *currently Director, Max-Planck-Institut für Chemische Oekologie, Jena, Germany, and Vice President of the Max-Planck Gesellschaft*
- Jon H. Hayashi, Ph.D. (1986-90), NIH Postdoctoral Fellow, *currently Faculty Member, Paradise Valley Community College, Phoenix AZ; formerly Research Scientist, FMC, New Jersey*
- Akira Hishinuma, M.D., Ph.D. (1986-87), *currently Professor, Department of Clinical Laboratory Medicine, Dokkyo University School of Medicine, Japan*
- Uwe Homberg, Ph.D. (1984-88), Deutsche Forschungsgemeinschaft fellow, *currently Professor of Zoology, Universität Marburg, Germany*
- Haruhiko Itagaki, Ph.D. (1986-90), NIH Postdoctoral Fellow 1987-90, *currently Professor of Biology, Kenyon College, Ohio*
- Nicole Kalberer, Ph.D. (2000-01), holder of a Swiss postdoctoral fellowship, *currently Research Assoc., Zool. Institute, Univ. of Basel, Switzerland*
- Ryohei Kanzaki, Ph.D. (1987-90) [co-advisor: Dr. E.A. Arbas], *currently Professor, Graduate School of Information Science & Technology, University of Tokyo,*
- Jane Roche King, Ph.D. (1996-2001), *currently writer & editor, ScienceA-Z.com*
- Peter Kloppenburg, Ph.D. (1991-96), Deutsche Forschungsgemeinschaft fellow, *currently Professor of Animal Physiology, Zoologisches Institut, Universität zu Köln, Germany*
- Herman K. Lehman, Ph.D. (1988-93), *currently Professor of Biology, Hamilton College, Clinton, NY*
- Hong Lei, Ph.D. (1999-2004), *currently Assoc. Research Scientist, Dept. of Neuroscience, University of Arizona*
- Wendy L. Mechaber, Ph.D. (1995-2003), *currently independently employed, Sherborn, MA*
- * Robert F. Mitchell, Ph.D. (2012-present) Univ. of AZ Center for Insect Science PERT Fellow
- Alan Nighorn, Ph.D. (1993-98), [co-advisor until 1997: Dr. David B. Morton], NIH Training Grant Postdoctoral Fellow, *currently Professor & Head of Dept. of Neuroscience, University of Arizona*

- Mark G. Novak, Ph.D. (1992-94) [co-advisor: Dr. J. Ribeiro], UA Center for Insect Science Postdoctoral Fellow, *currently Supervising Public Health Biologist, Vector-Borne Disease Section (Northern Region), California Dept. of Health Services, Elk Grove, CA*
- Robert A. Raguso, Ph.D. (1995-97) [co-advisor: Dr. Mark A. Willis], trainee on the Center for Insect Science NIH Training Grant, *currently Professor of Neurobiology & Behavior, Cornell University*
- Carolina E. Reisenman, Ph.D. (2001-07) Pew Latin American Scholar, *currently Associate Researcher, Dept. of MCB, Univ. of California, Berkeley*
- Jeffrey A. Riffell, Ph.D. (2004-10) Univ. of AZ Center for Insect Science PERT Fellow, *currently Assistant Professor of Biology, Univ. of Washington*
- Wolfgang Rössler, Dr. rer. nat. (1995-99) [co-advisor: Dr. L.P. Tolbert], Deutsche Forschungsgemeinschaft fellow, *currently Professor, Biocenter, University of Würzburg, Germany*
- Vonnie D.C. Shields, Ph.D. (1995-2000), *currently Professor of Biological Sciences, Towson University, Maryland*
- Sakiko Shiga, Ph.D. (1998-99) [co-advisor: Dr. N.T. Davis], *currently Professor of Biology, Osaka City University, Japan*
- Brian H. Smith, Ph.D. (1988-90), NIMH Postdoctoral Fellow, *currently Professor & Director, School of Life Sciences, Arizona State University, Tempe AZ*
- Jordanna Sprayberry, Ph.D. (2006-08) Univ. of Arizona Center for Insect Science PERT Fellow, *currently Associate Professor of Biology, Muhlenberg College, Allentown, PA*
- Xue Jun Sun, Ph.D. (1991-94) [co-advisor: Dr. L.P. Tolbert], Center for Insect Science Postdoctoral Fellow, *currently Staff Scientist, University of Alberta, Edmonton, Canada*
- Neil J. Vickers, Ph.D. (1995-98) [co-advisor: Dr. T.A. Christensen], *currently Professor & Chairman of Biology, University of Utah*
- Brian R. Waldrop, Ph.D. (1984-87), *currently Director, College of Arts & Sciences Student Advisement and Services, University of Buffalo, NY*
- Mark A. Willis, Ph.D. (1998-2001), *currently Prof. of Biology, Case Western Reserve Univ.*
- Fumio Yokohari, Ph.D. (1988-89) [co-advisor: Dr. L.P. Tolbert], *currently Professor, University of Fukuoka, Japan*

Graduate Students

- Aaron Beyerlein, M.S. in Entomology and Insect Science (M.S. conferred 2011), *currently teaching high-school science in North Carolina*
- Andrew Dacks, Ph.D. in Insect Science (Ph.D. conferred 2007) [co-advisor with Dr. T.A. Christensen], *currently Assistant Prof. of Biology, West Virginia U.*
- Thomas Heinbockel, Ph.D. in Neuroscience (Ph.D. conferred 1997), *currently Associate Prof., Dept. of Anatomy, Howard Univ. Coll. of Medicine, Washington, DC*
- Joshua P. Martin, Ph.D. Neuroscience (Ph.D. conferred 2012), *currently postdoctoral fellow, Dept. of Biology, Case Western Reserve Univ., Cleveland OH*
- Katja Selchow, Ph.D. in Neuroscience (Ph.D. conferred 1998), *currently an airline pilot*
- Kenneth A. Sorensen, Ph.D. in Molecular & Cellular Biology (Ph.D. conferred 1993), *currently with an investment banking firm in New York*
- Monika Stengl, Ph.D. in Molecular & Cellular Biology (Ph.D. conferred 1990), *currently Professor of Zoology, Universität Kassel, Germany*

Visiting Students

- Martin Brill (2009), Universität Würzburg, Germany
- Davide Dulcis (1999-2000) [co-advisor with Dr. N.T. Davis], Univ. of Cagliari, Italy
- Alex Eaton-Mordas (2005), Dept. of Ecology & Evolutionary Biol, Univ. of Arizona

Edwin van der Jagt (1994-95) [co-advisor with Dr. N.T. Davis], University of Utrecht,
The Netherlands (Dutch Gov. fellowship)

Elizabeth Pasch (2008), Universität Würzburg, Germany

Marco Rosales (2004-05), Pima Community College, Tucson, AZ

Nadia Scascighini (2000), Swiss Federal Institute of Technology (ETH) Zürich

Paolo Solari (1998), University of Cagliari, Italy

Erich Staudacher (1991), Max-Planck-Institut für Verhaltensphysiologie, Germany

Michiel van Wijk (1999), Agricultural University, Wageningen, The Netherlands

Ning Zhang (2014), China Agricultural University, Beijing

Undergraduate Research Assistants [*current; co-advisors: ¶Dr. T. Christensen, §Dr. N. Davis,
†Dr. H. Lei, ‡Dr. W. Mechaber, ◆Dr. R. Mitchell, #Dr. A.
Nighorn, ΔDr. C. Reisenman, ◇Dr. J. Riffell,]

◆Arthur Abougou, Allison Agajanian, *†Angelica Alvarez, †Arshed Al-Obeidi, ◆Lauren Amos,
*◆Tiffany Bledsoe, ‡Christopher Capaldo, †Hong-Yan (Vicki) Chiu, Dawn Clark, ◇Eleni
Constantopoulos, ¶Christine Cuzzocrea, Engracia Dang, ΔBianca Demara, Charleston Dick,
Erik Dillingham, ¶Sarah Dixon, ¶Dan Doty, Kristin Duffy, †Petimat Dudurkaeva. ‡Damian
Elias, †Jessica Fletcher, ◇ΔAndrew Flores, Robyn Forkos, Kim Frank, ¶Sabrina Geoffrion,
¶Nicole Giedinghagen, §Marianne Go, ◇ΔBreena Goodwin, §Tushara Gunatilaka, ‡Darien
Hall, ‡Jennifer Hill, #Eric Kennedy, Clint Kleppe, ‡Gina Kraft, †Laura Kulas, §George Lai,
Emily Landeen, ¶Jason Lashbrook, ΔYan Mei Lee, #Dominique Leitner, Sara Lewis, Chris
Ludwig, Jeff Ludwig, †Yessenia Magana; ‡Kristen McCoy, ◇ΔDavid Mikles, Cristina
Murguic, Kayla Peck, ◇ΔAdrian Pesque, Anastasia Peterson, #David Rivers, *†Aracely
Romero, †Naghmeah Saghafí, Hetal Shah, †Bradley Shane, Stephen Shipman, †Yeeck Sim,
Katie Skinner, ‡Tracey Smart, #Matt Stoker, #Sylvia Thompson, Andrew Tseng, ◇ΔMeredith
Tuinstra, #Maggie Villamana, Andrew Waters, †Angela Wu, *†Jinglei Zhang

High-School Research Assistant [*current; co-advisor: ☼Dr. C. Faucher] ☼Monica Seng

Visiting Scientists

William Conner (2004), Wake Forest University, North Carolina

Blanka Kalinova (1993), Czech Academy of Sciences, Prague

Alison Mercer (several periods during 1992-96), University of Otago, New Zealand

B.K. Mitchell (1990, 1996), University of Alberta, Edmonton, Canada

R. Alexander Steinbrecht (1994), Max-Planck-Institut f. Verhaltensphysiologie, Seewiesen

Chenzhu Wang (2010), Chinese Academy of Sciences, Institute of Zoology, Beijing

Yanxue Yu (2014), Chinese Academy of Plant Inspection and Quarantine, Beijing

Columbia University

1984 instructor, Biology G9007, Special Topics in Developmental Neurobiology

1982-84 instructor, Biology G4006, Biochemistry of Nerve Cells

1981-84 instructor, Biology G4004, Biology of Nerve Cells

Postdoctoral Fellows

Ian D. Harrow, Ph.D. (1981-84), *currently Founder, Director & Principal Consultant at Ian
Harrow Consulting Ltd., UK*

Sally G. Hoskins, Ph.D. (1982-85), *currently Professor of Biology, City College of New York*

Timothy G. Kingan, Ph.D. (1980-83), *last known position: U.S. Patent and Trademark Office*

Graduate Student

Akira Hishinuma, M.D., Ph.D. (Ph.D. conferred 1986), *currently Professor, Dept. of Clinical
Laboratory Medicine, Dokkyo University School of Medicine, Japan*

Undergraduate Research Students

Jeffrey E. Arle, Carla Cerami, Annemarie I. Coffman, Tristan Davies, Dennis Deltoro, Claire Kedeshian, William Korn, Robert Kovelman, Art Papier, Paul Quartararo

Harvard University

1979 course director and instructor, Biology 25, Neurobiology
 1977 instructor, Eliot 111, Senior Seminar in Developmental Neurobiology
 1976-80 instructor, Biology 126, Biochemistry of Nerve Cells (with E.A. Kravitz)
 1975-77 instructor, Biology 240, Invertebrate Behavior (with Bert Hölldobler)
 1973 co-instructor, Neurobiology 206, Physiology of Synaptic Transmission
 1971-73 lecturer in Neurobiology 210, Introductory Neurobiology
 1963-64 teaching Assistant in Natural Sciences 5 (General Biology)

Postdoctoral Fellows

Scott M. Camazine, M.D., Ph.D. (1978-79), *currently physician in private practice*
 Nikolai E. Klemm, Ph.D. (1978), *current position unknown*
 Steven G. Matsumoto, Ph.D. (1977-80), NIH Postdoctoral Fellow, *currently Associate Professor, Oregon Health & Science University*
 Gerald D. Maxwell, Ph.D. (1975-79), NIH Postdoctoral Fellow, *currently Professor & Associate Dean for Postdoctoral and External Affairs, University of Connecticut Medical School*
 Margaret C. Nelson, Ph.D. (1975-79), *currently a free-lance writer and illustrator*
 David J. Prescott, Ph.D. (1974-75), *retired from faculty of Biology, Bryn Mawr College*
 Leslie P. Tolbert, Ph.D. (1978-81), NIH Postdoctoral Fellow, *currently Regents Professor of Neuroscience, Univ. of Arizona*

Graduate Students

Karla S. Kent, Ph.D. (Ph.D. conferred 1985), *currently Associate Professor of Integrative Biosciences, and Director of Quality Assurance, Oregon Health & Science University*
 Joshua R. Sanes, Ph.D. (Ph.D. conferred 1975), *currently Professor of Molecular & Cellular Biology, Harvard University, Cambridge, MA*
 Anne M. Schneiderman, Ph.D. (Ph.D. conferred 1984), *currently an attorney in private practice, Ithaca, New York*

Undergraduate Research Students

Paul J. Deutsch, Margaret Drickamer, Marcia M. Moore, Erik S. Schweitzer, Jonathan F. Tait

Rockefeller University

1965-67 Instructor in Summer Biology Program for high school students

Marine Biological Laboratory

1996-now instructor, summer SPINES program for minority trainees
 1988 lecturer, Methods in Computational Neuroscience Course
 1985 lecturer, Neural Systems and Behavior Course
 1984 lecturer, Review and Update in Neurobiology for Neurosurgeons
 1980-84 Co-Director and instructor, Summer Neurobiology Course
 1978-79 instructor, Summer Neurobiology Course

Principal Research Interests

My group's research combines neurophysiological, behavioral, chemical-ecological, anatomical, molecular and developmental approaches in a multidisciplinary program addressing problems of the information-

processing mechanisms, behavioral roles, functional organization, and postembryonic development of the olfactory system in insects. Our research lies at the nexus among the fields of neurobiology, animal behavior, and chemical and sensory ecology. The main goal of this work is to discover fundamental principles and mechanisms common to many or all nervous systems through studies of the experimentally favorable nervous systems of insects. At the same time, we seek to understand the olfactory bases of beneficial and harmful behaviors of insects that impact human health and welfare. Areas of principal interest currently include processing of olfactory information in intra- and interglomerular neural circuits in the primary olfactory center in the brain; sensory control of insect-host interactions including feeding, mating, and oviposition behaviors; chemical ecology and behavioral aspects of insect-hostplant interactions; the biology and behavior of Triatomine (“kissing”) bugs living in the Sonoran Desert of Arizona and in South America (where they are vectors of Chagas Disease), interfacing of MEMS devices with the central nervous system in *Manduca* for flight control, and functional organization of neurosecretory systems.

Research Support

My research program has been funded through competitive research grants from federal agencies throughout the period 1972-present, including continuous funding from NIH and grants from NSF, USDA, and DoD. I have also received research support from NATO and the University of Arizona as well as private sources including the American Heart Association, the A.P. Sloan Foundation, Monsanto Company, and the Hasselblad Foundation.

Current Research Support:

NIH R01-DC-02751, "Glomeruli as Functional Units for Olfactory Coding" (JGH, PI) – entire project period: 8/1/95-11/30/14. This project is a study of primary processing of olfactory sensory information in identified glomeruli in the antennal lobe of the brain of adult *Manduca sexta*.

Invited Lectures and Seminars (1990-present)

- 1990 Department of Zoology, University of British Columbia
 Rocky Mountain Smell & Taste Center, Univ. of Colorado College of Medicine, Denver
 Department of Anatomy, Colorado State University, Ft. Collins
 Department of Neurosciences, Case Western Reserve University
 Department of Neurobiology, Duke University
 Gordon Research Conference on Chemical Senses
 Sandoz Crop Protection, California
 ONR Conference on Olfaction as a Model System for Computational Neuroscience
 Department of Zoology, University of Washington, Seattle
 ECRO Minisymposium on Development & Plasticity in the Olfactory System, Luminy, France
 ECRO 9th International Congress, Noordwijkerhout, Netherlands [*plenary speaker*]
 Michigan State University Neuroscience Program
 Max-Planck-Institut für Verhaltensphysiologie, Seewiesen, Germany
 Technische Universität München, Institut für Biologie, München, Germany
 Universität Konstanz, Institut für Biologie, Konstanz, Germany
- 1991 W.H.O. Consultation Workshop: Malaria Control by Genetic Manipulation of its Vectors
 Simon Fraser University, British Columbia [*Distinguished Visiting Professor*]
 University of Victoria, British Columbia, Biology Department
 Neurotox '91, Internat. Symp. on Molec. Basis of Drug & Pesticide Action, Southampton, UK
 Rothamstead Experimental Station, UK
 University of Regensburg, Institute of Biology, Germany [*Visiting Professor*]
 University of Würzburg, Zoological Institute, Germany
 International Symposium on Invertebrate Neurobiology, Tihany, Hungary
 University of Trondheim, Norway, Department of Zoology
 Meharry Medical College, Nashville, TN, Department of Physiology

- European Symposium on Insect Taste and Olfaction (ESITO II), Tegernsee, Germany
- 1992 College of Medicine, University of Arizona, Department of Pathology
 Flandrau Science Lecture Series, Green Valley, AZ
 Ohio State University, Program in Neuroscience and Department of Entomology
 Harvard Club of Southern Arizona, Tucson, AZ
 Boyce Thompson Institute, Cornell University
 13th Blankenese Conference, Hamburg/Blankenese, Germany
 Landbouwniversiteit, Wageningen, The Netherlands
 Universität zu Köln, Institut für Zoologie, Köln, Germany
 Tegernsee Conference on Olfactory Glomeruli, Tegernsee, Germany
 Entotech, Inc., Novo Nordisk/North America, Davis, CA
 Symposium on Neuroethology, Sociedad Mexicana de Ciencias Fisiológicas, Xalapa, Veracruz
 III International Congress of Neuroethology, Montreal, P.Q., Canada
 Special Lecturer, Society for Neuroscience Annual Meeting, Anaheim, CA
 University of Texas, Department of Zoology, Austin, TX
- 1993 Kravitz Symposium, Marine Biological Laboratory, Woods Hole, MA
 Texas A&M University, College Station
 University of Virginia, Charlottesville, Dept. of Biology
 Western Section meeting, American Academy of Arts and Sciences
 Max-Planck-Institut für Verhaltensphysiologie, Seewiesen, Germany
 University of Lund, Sweden, Dept. of Ecology
 University of Stockholm, Sweden, Department of Zoology
 International Conference on Insect Neurochemistry and Neurophysiology, Czech Republic
 International Symposium on Olfaction and Taste, Sapporo, Japan
 European Symposium on Insect Taste and Olfaction (ESITO III), Sardinia
 Symposium on Neural Bases of Behavioral Adaptations, Tutzing, Germany
 Merck Research Laboratories, Rahway, NJ
 Symposium on Central Sensory Pathways in the Brains of Arthropods, Regensburg, Germany
 Entomological Society of America Annual Meeting, Special Symposium, Indianapolis
- 1994 First International Symposium on Insect Pheromones, Wageningen, Netherlands
 National Academy of Sciences Special Colloquium on Chemical Ecology
 City College of New York, CUNY, Department of Biology
 University of Kentucky, Department of Physiology
 Tokyo Metropolitan Institute for Neuroscience, Japan
- 1995 Hebrew University, Jerusalem, Israel, Department of Biology
 Tufts University, Medford, MA, Department of Biology
 European Symposium on Insect Taste and Olfaction (ESITO IV), Höör, Sweden
 Workshop on Evolution, Neurobiology & Behavior, Kras Institute, George Mason Univ.
 Fourth IBRO World Congress of Neuroscience, Kyoto, Japan
 Steenbock Symposium on Behavior and Signaling in Microorganisms, Univ. of Wisconsin
 Society for Neuroscience Annual Meeting, Workshop for Teachers
 Universität Zürich, Zoologisches Institut, Switzerland
 Entomological Society of America Annual Meeting, Symposium on Signal Transduction, Las Vegas, NV
- 1996 Department of Physiology, University of Arizona
 Plenary Lecturer, International Congress of Entomology, Florence, Italy
 Symposium Speaker, International Congress of Entomology, Florence, Italy
 Plenary Lecturer, Annual Meeting of the International Society of Chemical Ecology, Prague

- Conference on Response and Adaptation to the Environment, Research Triangle Park, NC
 Dept. of Biology, University of North Carolina, Greensboro, NC
 Bowman Gray School of Medicine, Winston-Salem, NC, Dept. of Neurobiology & Anatomy
 Vanderbilt University, Nashville, TN, Department of Biology
- 1997 Center for Animal Behavior, Univ. of California at Davis
 Florida State University, Neuroscience Program
 Ohio University, Athens OH, Dept. of Biological Sciences
 Neuroscience Group and MBRS Program, Meharry Medical College, Nashville
 British Physiological Society meeting, Plymouth, UK
 Massachusetts General Hospital, Boston, MA
 AChemS XIX/ISOT XII joint meeting, San Diego, AChemS Awards Symposium
 European Symposium on Insect Taste and Olfaction (ESITO V), Sardinia
 Dept. of Psychological Sciences, Purdue University, W. Lafayette, IN
 Dept. of Biology, Wake Forest Univ., "Perspectives in Biology" Symposium
 Entomol. Soc. of America Annual Meeting, Founders' Memorial Award Lecture, Nashville
- 1998 Gordon Research Conference on Plant-Herbivore Interactions (Ventura, CA)
 Dept. of Biology, University of Southern California
 Tenth International Symposium on Insect-Plant Relations (Oxford, UK)
 Dept. of Biology, Yale University
 Dept. of Biological Sciences, Columbia University
 Dalhousie University Neuroscience Program [*Grass Foundation Lecturer*]
 Dept. of Entomology, Iowa State University
 XIII Congress, European Chemoreception Research Organisation (Siena, Italy) [*plenary*]
 Jean-Marie Delwart Foundation Seminar on Olfactory Receptors (Brussels, Belgium)
 University of Arizona, "Building Academic Community" Lecture Series
- 1999 Program in Behavioral Biology, North Carolina State University
 Dept. of Neurobiology and Anatomy, Univ. of Texas Medical School, Houston
 Grass Foundation Lecture, Eastern Nerve Net Meeting, MBL, Woods Hole, MA
 Spring Symposium in the Program on Neuroscience, Harvard Medical School
 Department of Biology, University of Michigan, Ann Arbor
 Plenary Lecture, Göttingen Neurobiology Meeting, Germany
 Dept. of General Physiology, University of Cagliari, Italy
 Symposium "New Perspectives in Insect Biology," Indiana University, Bloomington
- 2000 Institute of Zoology, University of Vienna, Austria
 Columbia University at Biosphere II, Arizona
 Bellagio Conference: Building a Community to Foster New Approaches to the Study of Genes,
 Brain, and Behavior with Honey Bees, Bellagio, Italy
 University of Ulm, Faculty of Biology, Germany
 University of Illinois Neuroscience Program, Champagne/Urbana, IL
 Chemical Signals in Vertebrates IX conference, Krakow, Poland
 17th Annual Meeting of the International Society of Chemical Ecology, Poços de Caldas, Brazil
 Plenary Lecturer, Japan Neuroscience Meeting, Yokohama
 Osaka City University, Dept. of Biology, Japan
 Max-Planck-Institut für Chemische Ökologie conference "Insect Chemical Ecology in the
 Molecular Age," Tegernsee, Germany
 Stazione Zoologica 'Anton Dohrn' di Napoli, international symposium "Biological Sciences:
 Challenges for the XXI Century"
 "Learning from Nature": A Symposium Celebrating the Career of Thomas Eisner, Cornell Univ.
 9th Annual Puerto Rico Neuroscience Conference, University of Puerto Rico, San Juan

- 2001 University of Utah, Neuroscience Seminar Series
Symposium on Systems & Cognitive Neuroscience, Rockefeller University
Cajal Neuroscience Research Center, University of Texas - San Antonio
Alfred M. Boyce Lecture, University of California - Riverside
Biozentrum, University of Würzburg, Germany
University of Hohenheim/Stuttgart, Germany
Plenary Lecturer, 6th International Congress of Neuroethology, Bonn, Germany
Plenary Lecturer, 1st Central European Conference on Neurobiology, Krakow, Poland
Plenary Lecturer, XXVII International Ethological Conference, Tübingen, Germany
Neuroscience Program, Michigan State University, East Lansing, MI
- 2002 University of Chile, Santiago, Faculty of Science
Gordon Research Conference on the Biology, Chemistry, and Evolution of Floral Scent
University of Florida Center for Smell and Taste, Gainesville
Abdus Salam International Center for Theoretical Physics, Trieste, Italy
Max-Planck-Institut, Seewiesen, Germany
Department of Genetics, Universität Bayreuth, Germany
Plenary Lecturer, Annual Meeting of the International Society for Behavioral Endocrinology
Department of Cell Biology & Anatomy, University of Arizona College of Medicine, Tucson
Program in Neuroscience, University of Massachusetts Medical School, Worcester MA
Department of Chemistry, Columbia University, NY
Department of Biology, Vanderbilt University, Nashville TN
- 2003 National Academy of Sciences Sackler Symposium on Chemical Communication in a Post-Genomic World, Irvine, CA
Neuroscience Program, Brown University, Providence, RI
IBRO Escuela de Neurociencia, Instituto Estable, Montevideo, Uruguay [2 lectures]
Neuroscience Program, Williams College, Class of 1960 Neuroscience Scholar Lecture
Department of Neurobiology, Duke University Medical School
Neuroscience Program, University of Maryland School of Medicine
Neuroscience Program, UCLA
Department of Biology, Wellesley College, MA [2 lectures, including honorific lecture— see honors and awards]
Department of Neurobiology & Behavior, Cornell University, Ithaca, NY [2 lectures]
Department of Entomology and Center for Ecology, Evolution & Behavior, University of Kentucky [2 lectures, including honorific lecture— see honors and awards]
- 2004 Instituto Cajal, Madrid, Spain [2004 Cajal Lecturer – see honors and awards]
1st Neuroscience Symposium, International Institute for Neuroscience of Natal, Brazil
VI Argentine Neuroscience Workshop, Cordoba, Argentina
1881st Stated Meeting, American Academy of Arts & Sciences, Cambridge, MA
24th Blankenese Conference “From Genes to Therapy,” Hamburg, Germany
14th International Symposium on Olfaction and Taste, Kyoto, Japan
Marine Biological Laboratory, Woods Hole, MA
7th International Congress of Neuroethology, Nyborg, Denmark
Univ. of Colorado Health Sciences Center Neuroscience Program Retreat [keynote speaker]
- 2005 University of Vienna [Austrian Neuroscience Society Lecture]
Texas A&M University, Department of Entomology
Institut de Recherche sur la Biologie de l’Insecte, University of Tours, France
25th Blankenese Conference “Signalling in Sensory Systems,” Hamburg, Germany
Institute Colloquium, Biozentrum, University of Würzburg, Germany

- Monell Chemical Senses Center, Philadelphia [*Manheimer Lecture*]
Marine Biological Laboratory, Woods Hole, MA
- 2006 Bullock Memorial Symposium, University of California – San Diego
Fachbereich Biologie, University of Marburg, Germany
Silver Medal Plenary Lecture, Annual Meeting of Internat. Soc. of Chem. Ecology, Barcelona
Marine Biological Laboratory, Woods Hole, MA
School of Life Sciences, Arizona State University, Tempe
Department of Biology, University of Washington, Seattle
University of Houston, Department of Biology & Biochemistry, Houston, TX
American Philosophical Society, invited speaker for General Meeting, San Francisco
- 2007 University of Arizona, Community Lecture
University of British Columbia, Brain Research Centre, Vancouver
University of Texas at San Antonio [*keynote speaker at Neuroscience Program Retreat*]
University of Illinois at Champaign/Urbana, Neuroscience Program
University of California at Davis, Department of Entomology
Max-Planck-Institute for Chemical Ecology, Jena, Germany
Marine Biological Laboratory, Woods Hole [*Edward A. Kravitz Lecture*]
Annual Meeting of the Trustees of the Grass Foundation, Woods Hole [*keynote lecture*]
International Brain Research Organization (IBRO) Congress, Melbourne [*symposium speaker*]
International Society for Invertebrate Neurobiology, Tihany, Hungary [*Ernst Florey Lecture*]
Colby College, Waterville, ME [*Neuroscience Distinguished Lecturer*]
Pennsylvania State University, College Park, PA, Department of Entomology
Wellesley College, Dept. of Biology, Wellesley MA
- 2008 University of Florida, Dept. of Entomology & Nematology
North Carolina State University, W.M. Keck Center for Behavioral Biology
2008 South East Nerve Net, Atlanta [*Grass Foundation Lecturer*]
SUNY Upstate Medical University [*plenary speaker, Max Mozell Celebration*]
Dept. of Biological Sciences, University of Notre Dame, Indiana
28th Blankenese Conference/Minerva Gentner Symposium, “Sensory Signaling and Neural Information Processing,” Hamburg, Germany
Gordon Research Conference on Neuroethology, Oxford, UK
Chinese Academy of Sciences, Institute of Zoology, Beijing
Chinese Academy of Sciences, Institute of Neuroscience, Shanghai
Wenzhou Medical College, Wenzhou, Zhejiang, China
University of Wisconsin, Madison, Dept. of Entomology [*2008 Charles Doane Lecturer*]
- 2009 University of Texas – Austin, Section of Neurobiology
3rd Annual ASU-BNI Neuroscience Symposium, Phoenix, AZ
Czech Academy of Sciences, Biology Center, Ceske Budejovice
Society for Experimental Biology meeting, Glasgow, Scotland [*symposium speaker*]
Marine Biological Laboratory, Woods Hole [*Martinez-Townsel Lecture*]
International Society of Chemical Ecology Annual Meeting, Neuchâtel, Switzerland [*symposium speaker*]
European Chemoreception Research Organization annual meeting, Villasimius, Sardinia [*plenary lecturer*]
Society for Neuroscience annual meeting, Chicago [*symposium organizer, chair, and speaker*]
Trinity University, San Antonio TX [*Phi Beta Kappa Visiting Scholar*]
Wenzhou Medical College, Wenzhou, Zhejiang, China
Beijing International Meeting on Research in Taste & Smell, Chinese Academy of Sciences
Program in Neuroscience, University of Massachusetts Medical School, Worcester, MA

- 2010 Stanford University Institute for Neuro-Innovation
 Pomona College, Claremont, CA [*Phi Beta Kappa Visiting Scholar*]
 Tennessee State University, Dept. of Biological Sciences
 Florida State University, Tallahassee [*Phi Beta Kappa Visiting Scholar*]
 Allegheny College, Meadville, PA [*Phi Beta Kappa Visiting Scholar*]
 Symposium in honor of Michael Arbib, "Multidisciplinary Approaches to Understanding the
 Mind and Brain," Tucson, AZ
 International Symposium in Honeybee Neuroscience, Berlin
 University of Oklahoma, Dept. of Zoology [*Presidential Dream Course in Neuroethology*]
 Yale University, Dept. of Cellular & Molecular Physiology
 University of Georgia, Dept. of Entomology
 Emory University, Neuroscience & Behavioral Biology Program
- 2011 Association of Anatomy, Cell Biology & Neurobiology Chairpersons Annual Meeting, Tucson
 8th International Congress of Comparative Physiology & Biochemistry, Nagoya, Japan
 [*plenary lecturer*]
 Gordon Research Conference on Neuroethology, Stonehill College, MA
 International Symposium on Invertebrate Neurobiology, Tihany, Hungary
 International Symposium on Molecular Insect Science, Amsterdam
 US-China Workshop on Insect Olfaction, Chinese Academy of Sciences, Beijing
 5th Asian-Pacific Conference on Chemical Ecology, Beijing [*plenary lecturer*]
 Argentinian Society for Neuroscience (SAN) Annual Meeting, Cordoba [*First Hector
 Maldonado Memorial Lecturer*]
 Siemens Stiftung Lecture, Munich, Germany
- 2012 UC-San Diego [*2012 Walter F. Heiligenberg Lecture*]
 University of North Carolina, Dept. of Biology [*2012 Lawrence Gilbert Distinguished Lecture*]
 American Association of Anatomists annual meeting, San Diego
 Max-Planck-Institut f. Neurobiologie, Munich [*Distinguished Lecturer*]
 Norwegian University of Science & Technology, Trondheim [*symposium speaker*]
 Washington University, St. Louis, Dept. of Biology
 Latin American Association for Chemical Ecology Annual Meeting [*plenary lecturer*]
- 2013 Yale Club of Southern Arizona
 University of Cincinnati, Dept. of Biology
 Universität Würzburg, Biozentrum
 Universität zu Köln, Institute of Zoology
 Universität Kassel, Dept. of Animal Physiology
 University of Sydney, Australia, School of Biological Sciences
 International Chemical Ecology Conference (ICEC2013), Melbourne, Australia
 Louisiana State University, Dept. of Biological Sciences
 University of Chicago, Dept. of Neurobiology
 Kuffler Symposium, Rockefeller University
- 2014 Confluence Center, University of Arizona
 Symposium on Biologically Inspired Robotics, AAAS Annual Meeting [*organizer & chair*]
 West Virginia University, Dept. of Biology
 Chilean Society for Neuroscience Annual Meeting [*plenary speaker*]

PUBLICATIONS

John G. Hildebrand

Google Scholar data (8/14): h-Index ~69, total citations >12,800

Books

- Hall ZW, Hildebrand JG, Kravitz EA (eds) (1974) *Chemistry of Synaptic Transmission: Essays and Sources*. Newton MA, Chiron Press
- Sattelle DB, Hall LM, Hildebrand JG (eds) (1980) *Receptors for Neurotransmitters, Hormones and Pheromones in Insects*. Amsterdam, Elsevier/North Holland
- Hagedorn HH, Hildebrand JG, Kidwell MG, Law JH (eds) (1990) *Molecular Insect Science*. New York, Plenum
- Ciba Foundation Symposium 200 (1996) *Olfaction in Mosquito-Host Interactions*. West Sussex, UK, Wiley [meeting and book organized by JGH]
- Meinwald J, Hildebrand JG (eds) (2010) *Science and the Educated American: A Core Component of Liberal Education*. American Academy of Arts and Sciences [available as a book or as a downloadable PDF: <http://www.amacad.org/publications/scienceSLAC.aspx>]

Original Reports

- Hildebrand JG, Law JH (1964) Fatty acid distribution in bacterial phospholipids; The specificity of the cyclopropane synthetase reaction. *Biochem* 3:1304-1308
- Hildebrand JG, Spector LB (1969) Succinyl phosphate and the succinyl Coenzyme A synthetase reaction. *J Biol Chem* 244:2606-2613
- Hildebrand JG (1969) *Succinyl phosphate and the succinyl Coenzyme A synthetase reaction*. Ph.D. dissertation, Rockefeller University
- Walsh CT, Hildebrand JG, Spector LB (1970) Succinyl phosphate: its non-enzymatic hydrolysis and reaction with Coenzyme A. *J Biol Chem* 245:5699-5708
- Hildebrand JG, Barker DL, Herbert E, Kravitz EA (1971) Screening for neurotransmitters: a rapid radiochemical procedure. *J Neurobiol* 2:231-246
- Barker DL, Herbert E, Hildebrand JG, Kravitz EA (1972) Acetylcholine and lobster sensory neurones. *J Physiol (Lond)* 226:205-229
- Hildebrand JG, Townsel JG, Kravitz EA (1974) Distribution of acetylcholine, choline, choline acetyltransferase and acetylcholinesterase in regions and single, identified axons of the lobster nervous system. *J Neurochem* 23:951-963
- Sanes JR, Hildebrand JG (1975) Nerves in the antennae of pupal *Manduca sexta* (Lepidoptera: Sphingidae). *Wilhelm Roux' Archiv* 178:71-78
- Sanes JR, Hildebrand JG (1976) Structure and development of antennae in a moth, *Manduca sexta*. *Devel Biol* 51:282-299

- Sanes JR, Hildebrand JG (1976) Origin and morphogenesis of sensory neurons in an insect antenna. *Devel Biol* 51:300-319
- Sanes JR, Hildebrand JG (1976) Acetylcholine and its metabolic enzymes in developing antennae of the moth, *Manduca sexta*. *Devel Biol* 52:105-120
- Sanes JR, Hildebrand JG, Prescott DJ (1976) Differentiation of insect sensory neurons in the absence of their normal synaptic targets. *Devel Biol* 52:121-127
- Schweitzer ES, Sanes JR, Hildebrand JG (1976) Ontogeny of electroantennogram responses in the moth *Manduca sexta*. *J Insect Physiol* 22:955-960
- Sanes JR, Prescott DJ, Hildebrand JG (1977) Cholinergic neurochemical development of normal and deafferented antennal lobes during metamorphosis of the moth, *Manduca sexta*. *Brain Res* 119:389-402
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