**Gene E. Robinson**

*Curriculum Vitae*

Director, Carl R. Woese Institute for Genomic Biology

Swanlund Chair

Center for Advanced Study Professor of Entomology and Neuroscience

Director, Illinois Bee Research Center

University of Illinois at Urbana-Champaign

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**Short Biography**

**Gene E. Robinson** obtained his Ph.D. from Cornell University in 1986 and joined the faculty of the University of Illinois at Urbana-Champaign in 1989. He holds a University Swanlund Chair and a Center for Advanced Study Professorship, is director of the Carl R. Woese Institute for Genomic Biology (IGB) and director of the Bee Research Facility. Former appointments include director of the campus Neuroscience Program and interim dean of the College of Liberal Arts & Sciences. Robinson pioneered the application of genomics to the study of social behavior, led the effort to sequence the honey bee genome, authored or co-authored almost 350 publications, obtained over $70M in extramural research funding, and has trained over 35 postdoctoral associates and 25 doctoral students, about half with faculty/independent scientist positions in academia, government, and industry. He serves or served on the National Academy of Sciences (NAS) Council Executive Committee, National Research Council Governing Board and Executive Committee, NIH National Institute of Mental Health Advisory Council, provided Congressional testimony, and has past and current appointments on scientific advisory boards for companies and foundations with significant interests in genomics. Dr. Robinson’s honors include: Fellow and Founders Memorial Award (Entomological Society of America), Fellow and Distinguished Behaviorist (Animal Behavior Society), Distinguished Scientist Award (International Behavioral Genetics Society), Guggenheim Fellowship, Fulbright Fellowship, NIH Pioneer Award, Honorary Doctorate (Hebrew University), and the Wolf Prize in Agriculture. He is a member of the American Academy of Arts & Sciences, NAS, National Academy of Medicine, and American Philosophical Society.

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**GENE E. ROBINSON**

# **PERSONAL INFORMATION**

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# DATE OF BIRTH:January 9, 1955

# FAMILY:Spouse (Julia) and 3 children

# **EDUCATION:**

1977 Cornell University B.S. Life Sciences

1982 Cornell University M.S. (1980-1982) Entomology

1986 Cornell University Ph.D. (1982-1986) Entomology (Roger A. Morse)

# **ACADEMIC POSITIONS:**

2012-present Director, Carl R. Woese Institute for Genomic Biology (IGB), UIUC (reappointed to 3rd term)

2020-2021 Interim Dean, College of Liberal Arts & Sciences, University of Illinois at Urbana-Champaign (UIUC)

2011-2012 IGB Interim Director, UIUC

2009-present Center for Advanced Study Professor, UIUC

2008-present Swanlund Chair of Entomology, UIUC (reappointed 2013)

2004-2011 IGB Theme Leader and Professor, UIUC

2003-2008 G. William Arends Professor of Integrative Biology, UIUC

2001-2011 Director, Neuroscience Program, UIUC

1997-current Professor, Department of Entomology, UIUC

1994-1997 Associate Professor, Department of Entomology, UIUC

1989-1994 Assistant Professor, Department of Entomology, UIUC

1986-1989 Postdoctoral Research Associate, Department of Entomology, Ohio State University (R.E. Page, Jr.)

# **OTHER APPOINTMENTS:**

2016-2020 Chair, Council of Institute Directors, UIUC

1996 Fulbright Senior Research Fellow, Visiting Professor, Hebrew University

1995-1996 Fellow, Center for Advanced Study, UIUC

Affiliate: NeuroTech Group, Beckman Institute; Department of Cell & Developmental Biology; Department of Ecology, Evolution & Behavior; Informatics Ph.D. Program; Prairie Research Institute; Department of Natural Resources and Environmental Studies; Department of Political Science; Department of Computer Science; Carle Illinois College of Medicine

# **AWARDS AND HONORS**

##### Member, American Philosophical Society, 2021

##### Top 2% Most-Cited Authors, *PLoS Biology*, 2020

##### Member, National Academy of Medicine, 2018

##### Wolf Prize for Agriculture, 2018

##### Distinguished Scientist Award, International Behavioral Genetics Society, 2016

##### Honorary Doctorate, Hebrew University, Israel, 2015

##### iCON Innovator Award winner, iBIO Institute, 2013

##### Distinguished Animal Behaviorist, Animal Behavior Society, 2013

##### Bingzhi Forum Professorship, Chinese Academy of Science, Institute of Zoology, 2011

##### NIH Director's Pioneer Award, 2009

##### Fellow, Entomological Society of America (ESA), 2009

##### Member, Center for Advanced Study (UIUC), 2009

##### Swanlund Chair of Entomology and Neuroscience, 2008-2012, 2013-present

##### Fellow, Animal Behavior Society, 2006

##### Excellence in Graduate Teaching Award, Honorable Mention (UIUC), 2006

##### Thomson-ESI Highly Cited Researcher (top 1%), 2005

##### Member, National Academy of Sciences (NAS), 2005

##### Recognition Award in Insect Physiology, ESA, 2004

##### Fellow, American Academy of Arts & Sciences, 2004

##### Founding Chair, Gordon Conference, Genes and Behavior, 2004

##### G. William Arends Professor in Integrative Biology, 2003-2008

##### Guggenheim Fellowship, 2003

##### Founders Memorial Award, Entomological Society of America (ESA), 2003

##### Burroughs Wellcome Innovation Award in Functional Genomics, 2000

##### Certificate of Distinction, International Congress Entomology, Brazil, 2000

##### List of Teachers Ranked Excellent by Their Students, 1997, 1998, 2000, 2002, 2007, 2013

##### Fellow, American Association for the Advancement of Science, 1996

##### Fulbright Senior Research Fellowship, 1995-1996

##### Beckman Associate, Center for Advanced Studies (UIUC), 1995-1996

##### University Scholar (UIUC award for research excellence), 1993-1996

##### Hambleton Award for Outstanding Research, EAS, 1993

##### Beckman Award for Outstanding Research Promise, UIUC, 1990

##### NSF Environmental Biology Postdoctoral Fellowship, 1988-1990

##### NIMH NRSA Postdoctoral Fellowship (declined), 1986

##### Ohio State Postdoctoral Fellowship, 1986

##### First Prize, Sigma Xi-Cornell Popular Science Writing Contest, 1986

##### Griswold Award, Cornell University, (graduate student award), 1985

##### Student Award, Eastern Apicultural Society (EAS), 1985

##### Lady Davis Graduate Fellowship, Hebrew University, Israel, 1982-1983

**Named Lectures**

##### Svedburg Lecture, Uppsala University, Sweden, 2019

##### Distinguished Speaker Series, Brain and Behavior Initiative, University of Maryland, 2018

##### Wolf Prize Laureate Lecture, Rehovot, Israel, 2018

##### Carl Friedrich von Siemens Foundation Lecture, 2018

##### Featured Speaker, Frontiers in Genomics Symposium, 10th anniversary of the University of Maryland Institute for Genome Sciences, 2017

##### Featured Speaker, Institute for Systems Genetics Inaugural Symposium, New York University School of Medicine, 2017

##### Birkenmeier Lecture, Jackson Laboratory, Bar Harbor, Maine, 2017

##### Franz Huber Lecture, International Congress of Neuroethology, Montevideo, Uruguay, 2016

##### Distinguished Behaviorist Award Lecture, Animal Behavior Society, Boulder, CO, 2013

##### Postdoctoral Scholars Society, UIUC, 2014

##### Integrative Center for Neurogenetics Inaugural Symposium, UCLA, 2013

##### Featured Speaker, Darwin Days, Eastern Illinois University, 2013

##### BIG Lecture, Department of Ecology and Evolution, Lausanne, Switzerland, 2012

##### University Lecturer, Cornell University, 2011

##### Charles Chesley Doane Distinguished Lecture, University of Wisconsin-Madison, 2011

##### Bin Zhi Forum Lecture, Chinese Academy of Sciences, 2011

##### Tinbergen Lecture, British Association for the Study of Animal Behaviour, 2011

##### Storer Lecture, University California at Davis, Davis, CA, 2011

##### Konishi Lecture, Woods Hole Marine Biological Laboratory, 2010

##### Distinguished Speaker, Department of Integrative Biology, University Texas, Austin, 2009

##### Blaffer Distinguished Speaker, M.D. Anderson Cancer Center, 2009

##### Keynote, UIUC Graduate Symposium on Interdisciplinary Science, 2009

##### NIMH Director’s Innovation Speaker, 2009

##### 50 Year Anniversary Lecture, NC State University Department of Genetics, 2008

##### Bauer Lecture, Brandeis University, 2007

##### Boyce Lecture, University California at Riverside, 2007

##### Givaudan Lecture, American Chemical Society, 2007

##### LeConte Lecture, Georgia Southern University, 2006

##### K.C. Fisher Lecture, University Toronto, 2005

##### Hopkins Lecture, Kansas State University, 2004

##### Founders Memorial Lecture, ESA, Cincinnati, OH, 2003

##### Miller Lecture, Iowa State University, 2002

##### Distinguished Lecturer, University of Puerto Rico, 2002

##### Kenneth Roeder Lecture, Tufts University, 1999

##### Charles D. Michener Lecture, University Kansas, 1997

# **GRANTS**

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# **Extramural: Current**

##### “Gut Microbiome Effects on Brain and Behavior,” NSF, $753,000 (2021-2024)

##### “When the Going Gets Tough the Flies Get Social,” Canadian Institute for Advanced Research Catalyst Fund, $65,000 (2022-2023)

##### “Bee Genomics in the Midwest,” Congressional Appropriation, $1,000,000 (2022-2023)

##### “Automated Bee Rearing,” USD-ARS, $400,000, (2021-2024)

##### “Creating Neuron-Like Cell Cultures,” USD-ARS, $150,000, (2022-2023)

##### “Brain2Bee,” ERC Horizon 2020, 1.8M Euros (J. Cook, PI) (2018-2023)

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# **Extramural: Past**

##### “Bee Genomics in the Midwest,” Congressional Appropriation, $750,000 (2021-2022)

##### “Honey Bee Social Networks in Health and in Sickness,“ Christopher Family Foundation, $300,000 (2019-2021)

##### “NeuroNex: Simplifying genome engineering to empower model system diversity in Systems Neuroscience,” NSF, $2.6M (Y. Ben-Shahar, PI) (2017-2020)

##### “Protecting the Nation’s Food Supply with Advanced Bio-Manufacturing,” DARPA, $4.2M (H. Zhao, Co-PI) (2016-2021)

##### “Emergence of collective multi-level network dynamics in a model society: From brain transcriptome to social behavior,” NIH, $1.3M (N. Goldenfeld, Co-PI) (2016-19)

##### “Asynchronous Communication, Self-organization, and Differentiation in Human and Insect Networks”, NSF INSPIRE Program, $1M (H. Dankowicz, PI, G. Robinson, W. Tabor, Co-PIs) (2012-15)

##### “Tradeoffs between collective function and disease spread in an animal society,” National Academies- Keck Futures Initiative, $100,000 (T. Gernat, PI) (2015-16)

##### “Illinois Neuroproteomics Center on Cell-Cell Signaling,” NIH-NIDA, $7M (J. Sweedler, PI, with D. Clayton, M. Gillette, P. Gold, H. Gutstein, W. Greenough, N. Kelleher, L. Moroz, S. Rodriguez) (2015-2020)

##### “Dynamic and stable regulation of aggression through DNA methylation,” NIH, $430,000 (2015-17)

##### “Brain Metabolic Plasticity and Aggression,” NSF, $662,000 (N. Price, Co-PI) (2013-17)

##### “Molecular Roots of the Social Brain,” Simons Foundation, $3M (L. Stubbs, Co-PI, A. Bell, J. Ma, S. Sinha, Y. Oono, Co-Is) (2013-17)

##### Training Grant: “Vertically Integrated Training with Genomics,” NSF Integrative Graduate Education and Research Training (IGERT), $3.5M (2012-17). (A. Suarez, PI, G. Robinson, C. Caceres, S. Rodriguez-Zas, Co-PIs)

##### “Genetics and Genomics of Social Behavior,” NSF Research Coordination Network, $621,000 (W. Wilczynski, PI) (2013-19)

##### “Insect Transgenic Techniques,” NSF Research Coordination Network, $600,000 (D. O’Brochta, PI) (2013-18)

##### “Johnny Bee Good: Bees as models for hijacking the reward system,” NIH Director’s Pioneer Award, $4M (2009-2015)

##### “Illinois Neuroproteomics Center on Cell-Cell Signaling,” NIH-NIDA, $5M (J. Sweedler, PI, with D. Clayton, M. Gillette, P. Gold, H. Gutstein, W. Greenough, N. Kelleher, L. Moroz, S. Rodriguez) (2009-2014)

##### "Functional genomics of reproduction and division of labor of a key non-Apis pollinator,” US-Israel USDA-BARD, $280K (with G. Bloch) (2011-15)

##### “Bee Individuality: A New Frontier”, Christopher Family Foundation, $100K (2012-13)

##### “Effects of High Fructose Corn Syrup on Gene Expression in Honey Bee Fat Bodies,” North Central IPM

##### Center (NCIPMC), USDA-NIFA, $7695 (2013-14)

##### “Modeling the evolution of gene regulatory modules for complex traits,” NSF, $650,000 (S. Zhong, PI) (2010-13)

##### “Regulation of stable weight loss in a model system,” NIH-NIDDK, $1.5 M (with S. Zhong and C. Mizzen) (2009-11)

##### “Comparative genomics, molecular evolution, and the evolution of bee society,” NSF, $515,000 (with M. Hudson) (2008-11)

##### “Tools for 21st Century Biology,” NSF Conference Grant, $79,250 (2009)

##### “Addressing Colony Collapse Disorder: Initial Response,” USDA-CSREES, $60,000 (with M. Berenbaum and S. Ratcliffe) (2007-08)

##### “Comparative genomics and the evolution of social behavior,” NSF, $300,000 (with J. Hunt, M. Henshaw, M. Hudson) (2007-10)

##### “Muscarinic regulation of plasticity in the brain,” NIH-NIGMS, $1.5M (with S. Fahrbach) (2006-10)

##### “BeeSpace: An interactive environment for analyzing nature and nurture in societal roles,” NSF Frontiers in Biological Research, $5M (B. Schatz, PI, with C. Bruce, S. Fahrbach, S. Rodriguez, C. Zhai) (2004-9)

##### “Illinois Neuroproteomics Center on Cell-Cell Signaling,” NIH-NIDA, $5M (J. Sweedler, PI, with D. Clayton, M. Gillette, P. Gold, H. Gutstein, W. Greenough, N. Kelleher, L. Moroz, S. Rodriguez) (2005-09)

##### “Microarray analyses of pheromone-mediated gene expression in honey bees,” USDA, $225K (2003-07)

##### “Pheromone regulation of gene expression in the brain,” NIH-NIDCD, $1.3M (with T. Lee) (2004-07)

##### “Neuromodulation of excessive reward-directed behavior,” NIH-NIDA, $306,000 (2005-07).

##### “Molecular mechanisms of queen bee longevity,” NIH-NIA, $1.2M (2003-07)

##### “Mathematical descriptions of multifactorial gene expression in social behavior,” NIH-NSF, $1.1M, (Sandra Rodriguez-Zas, PI) (2003-07)

##### “Development of a whole genome honey bee array,” USDA, $1M (with M. Band, J. Evans, G. Hoffman, K. White) (2003-06)

##### Lead author, White Paper to Sequence the Honey Bee Genome, NHGRI (accorded high priority status; project managed and performed by Baylor Coll. Med. Human Genome Sequencing Center, ca. $7M) (2003-05)

##### “Organization of behavioral plasticity by neurochemicals,” NSF Behavioral Endocrinology and Animal Behavior, $450,000 (2002-05)

##### “Sociogenomics: Analyses of social behavior with microarrays, Burroughs Wellcome Fund Innovation Award in Functional Genomics, $400K + Univ. matching funds ($100,000) (2000-03)

##### “Octopamine-mediated behavioral development in honey bees: Social and endocrine regulation of the tyramine beta-hydroxylase gene,” NSF Behavioral Endocrinology and Animal Behavior, $450,000 (H. Lehman PI) (2002-04)

##### "Social and neuroendocrine regulation of *period* gene expression,” NIH-NIGMS, $1M (2000-03)

##### “Biogenic amines and division of labor in honey bee colonies,” NSF Behavioral Neuroscience and Animal Behavior, $256,000 (2000-02)

##### "Neuroanatomical basis of endocrine-mediated behavioral development in honey bees,” NSF Behavioral Neuroendocrinology, $300,000 (S. Fahrbach PI) (1999-2002)

##### “Manipulation of honey bee gene expression by RNAi,” NSF Animal Behavior, $75,000 (1999-2000)

##### “Biogenic amines and division of labor in honey bee colonies,” NSF REU Supplement, $5,000 (2000)

##### “Biogenic amines and division of labor in honey bee colonies,” NSF Behavioral Neuroscience and Animal Behavior, $70,000 (1999-2000)

##### "Pheromone control of behavioral development in a model system,” NIH-NIDCD, $900,000 (1996-99)

##### "Period gene expression and endocrine-mediated behavioral development,” NSF Exploratory Grant, $5,000 (1996-97)

##### "Neuroanatomical basis of endocrine-mediated behavioral development in honey bees,” NSF Behavioral Neuroendocrinology, $300,000 (S. Fahrbach PI) (1995-98)

##### "Hormonal and pheromonal regulation of reproduction in the bumble bee *Bombus terrestris*.” US-Israel USDA-BARD, $300,000 (with A. Hefetz) (1994-97)

##### "Honey bee behavior and neurobiology program,” NSF REU Site, $60,000 (S. Fahrbach PI) (1994-96)

##### "Mechanisms of behavioral plasticity in a model system,” NIMH FIRST award, $525,000 (1991-96)

##### "Endocrine basis of differences in behavior between Africanized and European honey bees,” USDA, $120,000 (1994-96)

##### "Neuroanatomical basis of endocrine-mediated behavioral development in honey bees,” NSF Behavioral Neuroendocrinology, $90,000 (with S. Fahrbach) (1992–94)

##### "Effects of increased UV radiation on plant-pollinator interactions,” USDA, $200,000 (with J. Conner & J. Cane) (1993-96)

##### NIMH, Supplement for Underrepresented Minorities, $22,000 (1993-95)

##### "Honey bee behavior and neurobiology program,” NSF Research Experiences for Undergraduates (REU) Site, $30,000 (S. Fahrbach PI) (1992-93)

##### "Genetic and physiological determinants of honey bee division of labor,” USDA, $100,000 (1992-94)

##### "Neuroanatomical basis of endocrine-mediated behavioral development,” NSF REU Supplement, $5,000 (with S. Fahrbach) (1993)

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# **Intramural**

##### “Earth BioGenome Project Illinois Pilot Project,” University System Illinois Innovation Network, $100,000 (with PRI, C. Dietrich, PI) (2020-2021)

##### “Comparative transcriptomic approach to identify genes involved in sperm storage and fertility in females,” $60K, College of ACES Seed Funding (D. Miller, PI)

##### “Nutritional influences on division of labor in honey bee colonies,” $16K, UIUC Research Board (2002-03)

##### “Honey Bee Brain EST Project,” UIUC Critical Research, $200K (1999-2001)

##### “Socioneurogenetic analyses of the *period* gene,” $15K, UIUC Research Board (1998-99)

##### "Radar tracking of honey bees,” UIUC Research Board, $7500 (with S. Fahrbach) (1997-98)

##### "Implementation of Cyberprof for Biology 346, "Animal Behavior,” $10K (with S. Beshers) (1997-98)

##### "Division of labor in carpenter ant colonies,” UIUC Research Board, $5000 (with S. Beshers) (1996-97)

##### "Effect of PCBs and TCDD on honey bees,” UIUC Research Board, $7500 (with S. Fahrbach) (1996-97)

##### "Molecular genetic analyses of plasticity in behavioral development, UIUC Research Board, $8000 (1995)

##### International Program Development Travel Fund, Midwest Universities (1994)

##### "Molecular genetic analyses of plasticity in behavioral development,” UIUC Research Board, $11,000 (1993-94)

##### "Effect of social interaction on plasticity in endocrine-mediated behavioral plasticity,” UIUC Research Board, $5000 (1991-92)

##### "Endocrine and genetic basis of behavioral plasticity in a model system,” UIUC Biomedical Research Support Grant, $12,000 (1990-91)

##### "Mechanisms of behavioral plasticity in the honey bee,” Beckman Research Award, UIUC Research Board, $15,000 (1990-1991)

##### International Program Development Travel Fund, Midwest Universities Consortium for International Activities, $500 (1990)

# **LECTURES AND OTHER ORAL PRESENTATIONS**

**Plenary and Keynote Lectures**

##### Genetics and Genomics Annual Retreat, North Carolina State University, 2021

##### International Congress of Entomology, Helsinki, 2020 (postponed to 2022)

##### Kavli Brain and Behavior Distinguished Lecture, University of Maryland, 2018

##### International Society for Behavioral Ecology, Minneapolis, MN, 2018

##### Frontiers in Biology Series, Department of Biology, Wake Forest University, Winston-Salem, NC, 2018

##### Department of Molecular, Cellular and Developmental Biology Symposium, University of Colorado, Boulder, 2017

##### Neurobehavioral Genetics Retreat, UCLA, 2017

##### Behaviour 2017, International Ethological Conference and Association for the Study of Animal Behaviour, Estoril, Portugal, 2017

##### Sponsored Programs and Research Coordination Retreat, UIUC, 2015

##### Social Insect Genomics Meeting, Cold Spring Harbor Laboratory, 2015

##### Society for Evolutionary Analysis in Law XV Annual Scholarship Conference, UIUC, 2014

##### Annual Meeting of the Society for Molecular Biology and Evolution, Chicago, IL, 2013

##### Annual Meeting of the Animal Behaviour Society, Boulder, CO, 2013

##### Society for Social Neuroscience Inaugural Meeting, San Diego, CA, 2010

##### UIUC Beckman Institute 20th Anniversary, “Vision for the Future,” UIUC, 2009

##### University UIUC Undergraduate Symposium, Urbana, IL, 2009

##### Genetic Society of America, “Genetic Analysis: Model Organisms to Human Biology,” San Diego, CA, 2008

##### German Science Foundation, Symposium on Mechanisms and Evolution of Insect Behavior, University Würzburg, 2002

##### Japanese Society for Neuroscience, Minibrain Meeting, Sapporo, Japan, 2001

##### 12th International Genome Sequencing and Analysis Conference, Miami, FL, 2000

##### 26th Gottingen Neurobiology Conference, Goettingen, Germany, 1998

##### Museum of Natural History Symposium, Hebrew University, Jerusalem, 1996

##### 5th International Congress of the Society for Neuroethology, San Diego, 1998

##### 11th International Congress, IUSSI, Paris, France, 1993

##### IUSSI German Section, Blauberen, Germany, 1992

**Public Lectures**

##### National Academy of Sciences Inaugural Science and Society Lecture, Xavier University, 2023

##### 11th Annual Bee Forum: Bee Science – From the Lab to your Beehive. Garfield Park Conservatory Alliance, 2020

##### Rheticus Forum, St. Andrew’s Lutheran Campus Center, Champaign, IL, 2016

##### Chancellor’s Colloquium Speaker Series, University of California at Davis, 2016

##### Panel Member, The Black Death Forum, UIUC, 2015

##### Conversations, Donald Danforth Plant Center, 2015

##### Illinois Advanced Judicial Academy, 2015

##### Center for Advanced Study Annual Lecture, UIUC, 2014

##### National Centre for Biological Sciences, Tata Institute for Research, Bangalore, India, 2013

##### Google Inc., Mountain View, CA, 2011

##### Keynote Speaker, BioScience Day, University Maryland, 2010

##### TEDx speaker, UIUC, 2010

##### Plenary Speaker, Chicago Humanities Festival, Chicago, IL, 2010

##### Inaugural Speaker, Chancellor's Center for Advanced Study Special Lecture Series, UIUC, 2005

**Meetings and Symposia Organized**

##### Functional Genomics, National Academies of Science, Engineering and Medicine, Washington DC, 2020

##### “cis-Regulatory Evolution in Development and Behavior,” NSF Genetics and Genomics of Social Behavior Research Coordination Network, 2018

##### “Mechanisms of Social Evolution: A Tribute to Robert E. Page, Jr.,” Arizona State University, Tempe, AZ (with J. Gadau), 2016

##### “8th Annual Arthropod Genomics Symposium,” Urbana (with H. Robertson), 2014

##### “Social and Behavioral Sciences Brown Bag Series,” UIUC (with R. Mendenhall and B. Roberts), 2012-13

##### “Computing and Genomics,” Tata Institute for Research – Illinois Workshop, Bangalore, (with R. Iyer, S. Lumetta and R.K. Shyamasundar), 2013

##### “Biological Embedding of Early Social Adversity: From Fruit Flies to Kindergartners,” NAS Sackler Colloquia, (with T. Boyce and M. Sokolowski), 2011

##### “New Perspectives on Organismal Biology,” NSF, 2011

##### “Tools for 21st Century Biology,” NSF, 2009

##### “Honey Bee Genomics and Biology,” Cold Spring Harbor, 2007

##### “Genetics and Genomics of Social Behavior,” NIH-NIDA/NIMH Workshop, 2007

##### “Genes and Behavior,” Gordon Research Conference, Chair, 2004

##### “Genetics of Social Behavior,” International Congress Genetics, Melbourne, Australia (with R. Crozier), 2003

##### “Chemical Ecology in a Post-Genomic World,” NAS Sackler Colloquia (with M. Berenbaum), 2003

##### “Genetics and Social Behavior,” Society for Neuroscience (with T. Insel), 2002

##### “Comparative Insect Genomics,” USDA International Workshop (member, steering committee), 2001

##### “Building a Community to Foster New Approaches to the Study of Genes, Brain, and Behavior with Honey Bees,” Rockefeller Foundation, Bellagio, Italy, 2000

##### “Bees, Beekeeping, and 40 Years of Graduate Education: Roger A. Morse,” Informal Conf., ESA National Meeting, Las Vegas, NV (with T. Seeley), 1996

##### “Development and Evolution of Brain Centers for Learning,” Nalbandov Symposium, UIUC (with S. Fahrbach), 1995

##### “Insects as Models in Behavioral Neuroscience,” Program Symposium, ESA National Meeting, Indianapolis, IN (with S. Fahrbach), 1993

##### "Physiology of Insect Colonies," Program Symposium, ESA National Meeting, New Orleans, LA (with M. Winston), 1990

**Invited Symposium Talks**

##### “The Social Brain,” Nobel Foundation Symposium, Stockholm, 2023

##### “Regulation of Brain Gene Regulatory Networks by Juvenile Hormone,” ESA National Meeting, Vancouver BC, 2018 (with A. Hamilton)

##### “From Me to We: Searching for the Genetic Roots of Sociality” GoldLab Foundation Annual Symposium, Boulder, CO, 2016

##### Panel Member, "Models for Stimulating Research and Creative Collaborations," CIC-ALP, Chicago, 2016

##### “Evolution of insect sociality: From theory to genomes and back again,” International Congress of Entomology, Orlando, FL, 2016 (with B. Jones)

##### “Behavioral Epigenetics: Conserved Mechanisms in Diverse Model Systems,” Janelia Farms, Howard Hughes Medical Institute, 2015 (with M. Shook)

##### “Modulation of Neural Circuits and Behavior,” Gordon Conference, Hong Kong, 2015

##### “Building the brain: from genes to circuits and cognition,” Genetic Society, Royal Society, London, 2015

##### “Life in the Aggregate: Mechamisms and Features of Social Dynamics”, Janelia Farm, Howard Hughes Medical Institute, 2014

##### Moderator, National Academy of Sciences Expert Meeting on Assessing and Encouraging Interaction between Genetic and Social-Behavioral Models, Washington, DC, 2014

##### “Sociogenomics Research Consortium,” NSF Research Coordination Network, 2014

##### “Structure and Function of the Mushroom Body, Janelia Farm, Howard Hughes Medical Institute, 2014

##### Social Behavior, Canadian Institute for Advanced Research Child & Brain Development, Vancouver, 2013

##### “Computing and Genomics,” Tata Institute for Research – UIUC Workshop, Bangalore, 2013

##### Program Symposium, ESA National Meeting, San Antonio, TX, "Native Bee Ecology, Evolution And Conservation In The 21st Century" (with K. Kapheim), 2013

##### “Honey Bee Microbiomes and Health,” ESA National Meeting, Austin, TX, 2013 (with K. Kapheim, V. Rao, C. Yeoman, B. White, N. Goldenfeld)

##### Neuroscience Initiative Symposium, UCLA, 2013

##### “Multidisciplinary Research in the University: The Experiment at the Institute for Genomic Biology,” Society for College and University Planning, UIUC, 2012

##### “Future Trends in Genomics,” State Farm Executive Training Program, UIUC, 2012

##### University Foundation Lecture, Santa Barbara, CA, 2012

##### “Social Evolution: William D. Hamilton’s 50-Year Legacy,” Animal Behavior Society Presidential Symposium, Boulder, CO, 2013

##### Silicon Valley Roundtable, Palo Alto, CA, 2012

##### NIH Pioneer Investigators Symposium, Washington, DC, 2012

##### Genes and Behavior Gordon Conference, Galveston, TX, 2012

##### “Biological Embedding of Early Social Adversity: From Fruit Flies to Kindergartners,” NAS Sackler Colloquia, (with T. Boyce and M. Sokolowski) 2011

##### NIH Pioneer Investigators Symposium, Washington, DC, 2011

##### Thomas Eisner Memorial Symposium, ESA National Meeting, Reno, NV, 2011

##### “Genomic and Systems Biology analyses of Social Behavior, Joint Genome Institute (JGI), Walnut Creek, CA, 2011

##### “The Evolution of Cooperation and Conflict,” NAS Sackler Colloquia, 2010

##### Vision Talk, Beckman Institute 20th Year Anniversary Symposium, UIUC, 2009

##### “Modeling Social Behavior,” NIH-NIGMS Workshop, 2008

##### USDA-NRI Grantholders Symposium, ESA National Meeting, San Diego, 2008

##### “Genetics and Genomics of Social Behavior,” NIH-NIDA/NIMH Workshop, 2007

##### “Social Insect Genomics,” ESA, National Meeting, Indianapolis (with A. Toth), 2006

##### “Molecular Insect Science,” Student-Selected Symposium, ESA National Meeting, Indianapolis, 2006

##### Symposium in honor of Rüdiger Wehner, University Zurich, Switzerland, 2005

##### “Phenotypic Diversity and Evolution,” Wenner-Gren Foundation, Stockholm, Sweden, 2005

##### “Behavioral Genomics,” UK Genetics Society, Edinburgh, Scotland, 2005

##### Understanding Complex Systems: Networks,” UIUC, 2004

##### “Hymenopteran Semiochemicals: In Honor of Keith Slessor,” International Society Chem. Ecol., Ottawa, Canada, 2004

##### “Neuromodulation,” International Congress of Neuroethology, Denmark (with A. Barron), 2004

##### “Advances in Insect Endocrinology,” ESA National Meeting, Salt Lake City, Utah, 2004

##### Japan Molecular Biology Meeting (with M. Sokolowski & Y. Ben-Shahar), 2003

##### Mitchell Conference, Department of Human Genetics, University Chicago, 2003

##### “Behavioural Endocrinology,” Society for Integrative and Comparative Biology, Toronto (with C. Grozinger), 2003

##### “Genetics of Behaviour,” Society for Integrative and Comparative Biology, Toronto (with M. Sokolowski and Y. Ben-Shahar), 2003

##### “Genetics of Social Behaviour,” International Congress Genetics, Melbourne, AU, 2003

##### “Emerging Genomes,” Advances in Genome Biology & Technology, Marco Is., FL, 2003

##### “Genes and Social Behavior,” Society for Neuroscience, Orlando, 2002

##### “Chemical Communication,” IUSSI, International Congress, Saporro, Japan (with A. Barron & D. Schulz), 2002

##### “Mechanisms of Social Behavior,” IUSSI, International Congress, Saporro, Japan (with Y. Ben-Shahar), 2002

##### “Mechanisms of Social Behavior,” IUSSI, International Congress, Saporro, Japan (with A.M. Cziko & S. Fahrbach), 2002

##### “Chemical Ecology in a Post-Genomic World,” Sackler Colloquia, National Acad. Sci., 2001

##### “Comparative Biology of Aging,” NIH Symposium, 2001

##### “Evolutionary Neuroscience,” Simpson Science Symposium, UI Chicago, 2001

##### “Genomics,” ESA National Meeting, Program Symposium, San Diego, 2001

##### “Proximate and Ultimate Mechanisms of Caste Differentiation,” ESA National Meeting, San Diego, 2001

##### “Neuromodulation,” Neuroethology International Congress, Bonn (with D. Schulz), 2001

##### “New Directions in Behavior Genetics,” Animal Behavior Society Meeting, Corvalis, OR, 2001

##### “Growing Points in Insect Sociobiology,” IUSSI, International Congress, Sapporo, Japan, 2000

##### “Insect Chemical Ecology in the Molecular Era,” Max-Planck, Germany, 2000

##### “Gene Expression,” International Congress Entomology, Brazil, 2000

##### Neuroethology Gordon Conference, Session Co-Chair, Oxford University UK, 1999

##### “Ecological and Evolutionary Genomics,” University of Lausanne, Switzerland (with C. Whitfield), 1999

##### “Workshop on organisms with negligible senescence,” University of Southern California, CA, 1999

##### “Neuroethology: behavior, evolution, and neuroscience,” Gordon Conference, Oxford, UK, 1999

##### “Biotechnology and Animal Behavior” NSF Workshop, Washington, DC, 1999

##### “The Insect Societies-100 years of contributions to the biological sciences,” ESA National Meeting. Program Symposium, Atlanta, 1999

##### “Self-organization and the evolution of social behavior,” Santa Fe Institute, 1999

##### Neuroethology Gordon Conference, Oxford University, UK, 1999

##### Chronobiology Gordon Conference, Rhode Island, 1998

##### “Biological Rhythms,” International Congress Entomology, Brazil, 1998

##### “Forty Years of Bees, Beekeeping and Graduate Education: A Tribute to Roger A. Morse,” ESA National Meeting, Las Vegas, 1998

##### “Genetic Analysis of Behaviour,” Zoological Society of London, 1998

##### “Lifespan Actions of Developmental Hormones,” Behavioral Neuroendocrinology Society National Meeting, Atlanta, 1998

##### “From Mechanism to Evolution,” Animal Behavior Society National Meeting, Carbondale, IL 1998

##### “Behavioral Modulation,” International Society Neurochemistry, Israel (with D. Schulz), 1997

##### “Evolution of Insect Societies,” International Congress Evolutionary Biology, Budapest, 1996

##### “From Behavior to Genes,” ESA National Meeting, Las Vegas (with T. Giray), 1995

##### “Juvenile Hormone Revisited: Dynamics of its Involvement in Insect Reproduction,” ESA National Meeting, Las Vegas, 1995

##### "Insect Colonies: Adaptive Design and Self-Organisation" Symposium, IUSSI, 12th International Congress, Paris (with Z. Huang), 1994

##### "Caste Ergonomics," Section Symposium, ESA National Meeting, Indianapolis (with S. Trumbo), 1993

##### "Insects as Models in Behavioral Neuroscience,” Program Symp., ESA Nat. Meeting., Indianapolis (with S. Fahrbach & G. Withers), 1993

##### “Integrative Mechanisms of Division of Labor in Insect Colonies,” ESA National Meeting, Baltimore, 1992

##### “Socioethology of Honey Bees" 3rd International Neuroethology Congress, Montreal, 1992

##### “Physiology of Insect Colonies" Program Symposium, ESA National Meeting, New Orleans, 1990

##### “Behaviour and Physiology of the Honeybee” Colloquium Royal Entomological Society, London, 1990

##### “Sociogenesis: Behavioral Ontogeny in Insect Colonies,” IUSSI, 11th International Congress,

##### Bangalore, India, 1990

##### “Behavioral Genetics,” IUSSI, 11th International Congress, Bangalore, India, 1990

##### Workshop Discussant, International Congress of Endocrinology, Spain, 1989

##### “Competition and Cooperation in Insect Colonies” Program Symposium, ESA National Meeting, Lexington, KY (with R. Page), 1988

##### “The Genetics of Social Evolution” Program Symposium, ESA National Meeting, Boston, 1987

##### "Neurobiology and Behavior of Honey Bees,” IUSSI, 10th International Congress, Munich, 1986

##### "Hormonal Regulation of Insect Behavior,” ESA Eastern Branch Meeting, Williamsburg, VA, 1985

**Invited Seminars**

##### Department of Genetics, Clemson University, 2023

##### Department of Biology, Indiana University-Purdue University Indianapolis, 2022 (Student selected speaker)

##### Department of Ecology and Evolutionary Biology, Michigan State University, 2020

##### Carle Illinois College of Medicine, Grand Rounds, 2020

##### Department of Biology, Duke University, 2020

##### Department of Ecology and Evolution, University of Arizona, 2019

##### Department of Biology, Duke University, 2020

##### Karolinska Institute, Stockholm, Sweden, 2019

##### Center for Brain Science, Harvard University, 2019

##### Department of Entomology, Texas A&M University, 2019

##### Inaugural Lecture, Center for The Economics of Human Development, University of Chicago, 2018

##### Lewis-Sigler Institute, Princeton University, 2017

##### University of Chicago, 2016

##### Swarthmore College, 2016

##### Harvard University, 2015

##### Institute of Life Sciences, Hebrew University, 2015

##### Department of Biology, Boston University, 2014

##### BioDirect Division, Monsanto Inc., St. Louis, 2014

##### Department of Biology, State University of New York at Buffalo, 2014

##### Rockefeller University, 2014

##### Neuroscience Program, UIUC, 2013

##### Department of Neuroscience, University of California at Berkeley, 2013 (student selected speaker)

##### Department of Neuroscience, Columbia University, 2013

##### Integrative Immunology Seminar, Department of Animal Sciences, UIUC, 2012

##### Departments of Human Genetics and Neuroscience, University of Chicago, 2012

##### Department of Biology, University of Kentucky (student selected), 2012

##### State Farm Executive Training Seminar, College of Business, 2012

##### Department of Molecular Biology, Cornell University, 2011

##### Department of Political Science, University of Nebraska, 2011

##### Genome Center, University of Pennsylvania, 2011

##### Friday on the Brain Seminars, Beckman Institute, UIUC, 2011

##### The Politics of Perception: Science, Art, Politics, Center for Advanced Study, UIUC, 2010

##### Riken Omics Science Center, Yokohama, Japan, 2009

##### Lecturer, Riken Brain Sciences Institute Summer Course, Wako, Japan, 2009

##### Department of Developmental Biology, Harvard University Medical School, 2009

##### Department of Biology, Indiana University (student selected), 2009

##### Department of Entomology, University Maryland, 2008

##### Department of Ecology and Evolution Biology, University California at San Diego, 2008

##### Nutrition Program, UIUC, 2007

##### Department of Biology, St. Louis University, St. Louis, MO, 2007

##### School of Life Sciences, Ariz. St. University, Tempe, AZ, 2007

##### Human Genetics Forum, Northwestern School of Medicine, 2006

##### Department of Natural Resources and Environmental Sciences, UIUC, 2006

##### Department of Entomology, Pennsylvania State University, University Park, PA, 2006

##### Center for Brain Behavior and Evolution, Bucknell University, Lewisburg, PA, 2006

##### Department of Neuroscience, Washington University in St. Louis (student selected), 2006

##### Department of Biology, Southern Cal. University, CA, 2005

##### Department of Biology, University Georgia, Athens, GA, 2005

##### Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ, 2005

##### BioMath, UIUC, 2004

##### Department of Cell & Structural Biology, UIUC, 2003

##### Program in Ecology & Evolutionary Biology, UIUC, 2003

##### Department of Organismic and Evolutionary Biology, Harvard University, 2003

##### EcoLunch, UIUC, 2003

##### Department of Human Genetics, Johns Hopkins University, Baltimore, MD, 2003

##### Neuroscience Program, Yale University, New Haven, CT, 2003

##### Ctr. Insect Sci., University Arizona, Tucson (postdocs’ choice), 2003

##### Department of Biology, University Virginia, Charlottesville, VA, 2002

##### Department of Neurobiology & Behavior, Cornell University, 2002

##### Department of Biology, Stanford University (student selected), 2002

##### Department of Biology, Simon Fraser University, Vancouver, 2002

##### Genomics Workshop, Iowa State University, Cedar Rapids, IA, 2002

##### Department of Biology, Florida State University, Tallahassee, FL, 2002

##### Center for Behavioral Neuroscience, Emory University, Atlanta, GA, 2002

##### Celera Inc., Rockville, MD, 2001

##### Division of Integrative Biology, University of Texas, Austin, TX, 2001

##### Genome Sciences Department, Lawrence Berkeley Nat. Lab, Berkeley, CA, 2001

##### Department of Entomology, Cornell University, Geneva, NY, 2001

##### Department of Genetics & Development, Cornell University, Ithaca, NY, 2001

##### Department Entomology, UIUC, 2001

##### Neuroscience Program Graduate Recruitment Weekend, UIUC, 2000

##### Department of Biology, University of Toronto, 2000

##### Department of Physics, UIUC, 1999

##### Neuroscience Institute, University of Oregon, Eugene (student selected), 1999

##### Department of Ecology, Ethology and Evolution, University of Minnesota, St. Paul, MN, 1999

##### Keck Program in Behavioral Biology, North Carolina State University, Raleigh, NC, 1998

##### Department of Biological Sciences, Stanford University, CA, 1997

##### Department of Biology, Brandeis University, Waltham, MA, 1997

##### Neuroscience Program, UIUC, 1997

##### Neuronal Pattern Analysis Group, Beckman Institute, UIUC, 1997

##### Center for Advanced Study, UIUC, 1997

##### Department of Entomology, University of Georgia, Athens, GA, 1997

##### Department of Ecology, University of Kansas, Lawrence, KS, 1997

##### Department of Entomology, University of Kansas, Lawrence, KS, 1997

##### Department of Entomology, Iowa State University, Ames, IA, 1997

##### Department of Zoology, Arizona State University, Tempe, AZ, 1997

##### Center for Insect Science, University of Arizona, Tucson, AZ, 1997

##### Department Entomology, Cornell University, Geneva, NY, 1996

##### Department of Parasitology, Hadassah Medical School, Jerusalem, 1996

##### Brain Research Center, Weizmann Institute, Rehovot, Israel, 1996

##### Department of Entomology, Hebrew University, Rehovot, Israel, 1996

##### Department of Cell and Animal Biology, Hebrew University, Jerusalem, 1996

##### Department of Biological Chemistry, Hebrew University, Jerusalem, 1996

##### Department of Zoology, Tel Aviv University, Tel Aviv, Israel, 1996

##### Department of Entomology, Purdue University, West Lafayette, IN, 1995

##### Department of Psychology, University of Maryland, College Park, MD, 1995

##### Behavior Club, Harvard University Medical School, 1995

##### Department of Organismic Biology, Harvard University, Cambridge, MA, 1995

##### Department of Biology, Boston University, Boston, MA, 1995

##### Department of Entomology, University of Mass., Amherst, MA, 1995

##### Department of Entomology, Cornell University, Ithaca, NY, 1995

##### Department of Animal Sciences, UIUC, 1995

##### Center for Population Biology, University of California, Davis, CA, 1995

##### Department of Zoology, University of Washington, Seattle, WA, 1994

##### Department of Biology, Indiana University, 1994

##### Department of Zoology, Eastern Illinois University, Charleston, IL, 1994

##### Department of Entomology, University of Minnesota, St. Paul, MN, 1994

##### Rockefeller University, New York, NY, 1993

##### Department of Zoology, Michigan State University, E. Lansing, MI, 1993

##### Department of Biology, University of Iowa, Iowa City, IA, 1993

##### Department of Organismic Biology, University of Chicago, Chicago, IL, 1993

##### Department of Cell and Structural Biology, UIUC, 1992

##### Learning and Memory Seminar; Beckman Institute, UIUC, 1992

##### Center for Complex Systems, Beckman Institute, UIUC, 1992

##### Department of Biology, Lake Forest College, Lake Forest, IL, 1992

##### Department of Environmental, Population and Organismal Biology, University of Colorado, Boulder, CO, 1992

##### Department of Molecular and Cellular Biology, Colorado State University, Ft. Collins, CO, 1992

##### Invertebrate Physiology Institute, CNRS, Marseille, France, 1992

##### Center of Ethology and Sociobiology, University Paris, 1992

##### Comparative Neurobiology Institute, CNRS, Bures Sur Yvette, France, 1992

##### Neurobiology Institute, Freie University, Berlin, Germany, 1992

##### Zoology Institute, University of Würzburg, Germany, 1992

##### Department of Biology, Illinois State University, Normal, IL, 1992

##### Center for Economic Entomology, Illinois Natural History Survey, 1992

##### Department of Entomology, University of Wisconsin, Madison, WI, 1991

##### Department of Biology, University of Wisconsin, Kenosha, WI, 1991

##### Neuroscience Program, UIUC, 1991

##### Department of Biology, Northern Illinois University, Dekalb, IL, 1990

##### Section of Neurobiology & Behavior, Cornell University, Ithaca, NY, 1990

##### Department of Biology, Indiana University (student selected), 1990

##### Department of Physiology and Biophysics, UIUC, 1990

##### Department of Entomology, Ohio State University Wooster, OH, 1989

##### Department of Entomology, University of California, Riverside, CA, 1989

##### Department of Entomology, UIUC, 1989

##### Department of Biological Sciences, Simon Fraser University, Canada, 1988

##### Department of Entomology, University of California, Davis, CA, 1988

##### Department of Entomology, Ohio State University, Columbus, OH, 1986

##### Section of Neurobiology and Behavior, Cornell University, Ithaca, NY, 1986

##### Student Award Lecture, Eastern Apicult. Society, Lancaster, PA, 1985

##### Department of Environmental Biology, University of Guelph, Ontario, Canada, 1984

##### Department of Entomology, Hebrew University, Rehovot, Israel, 1983

##### Weizmann Institute of Science, Rehovot, Israel, 1982

##### Rocky Mountain Biological Lab., Colorado, 1982

##### Department of Entomology, Cornell University, Ithaca, NY, 1982

**Contributed Presentations (~260)**

# **BOARD OF ADVISORS**

##### 

Advisory Board, Irsay Family Research Institute, Indiana University, 2022-present

##### Board of Directors, National Courts and Sciences Institute, 2022-present

##### National Academy of Sciences Council Executive Committee, 2022-2025

##### National Research Council Governing Board, 2022-2025

##### National Research Council Executive Committee, 2022-2023

##### Scientific Advisory Board, Max Planck Institute for Animal Behavior, Konstanz, Germany, 2021-2026

##### Scientific Advisory Board, SimbioSys, 2019-present

##### Scientific Advisory Board, Dalan Animal Health, 2019-present

##### Cavendish Impact Foundation, 2017-2019

##### Beckman Institute, UIUC, 2018-present

##### NIH National Institute for Mental Health Advisory Council, 2013-2017

##### BGI International Conference on Genomics, 2015-2018

##### Monsanto Inc. Honey Bee Advisory Council, 2016-2019

##### Science Advisory Board, National Courts and Sciences Institute, 2015-2022

##### National Advisory Mental Health Council Working Group on Behavioral and Social Science Research, 2014-2017

##### Network Science Institute, Indiana University, 2015-present

##### Intelligence Science and Technology Experts Group, The National Academies of Science, Engineering and Medicine, 2015-2019

##### Steering Committee, Committee on Population, The National Academies of Science, Engineering and Medicine, 2014-2015

##### Monsanto Inc. BioDirect Division, 2012-2015

##### Beeologic Ltd., 2008-2011

##### University Laboratory High School, UIUC, 2012-2015

##### NIH Big Data to Knowledge (BD2K) Working Group, 2014-2016

##### Canadian Institute for Advanced Research (CIFAR), Experience Based Brain and Biological Development Programme, 2009-2013 and Child and Brain Development Programme 2013-present (reappointed to 3rd term)

##### Whitney Laboratory for Marine Bioscience, University Florida, 2009-2014

##### Max Planck Institute for Chemical Ecology, Jena, Germany, 2009-2013

##### NSF Center for Behavioral Neuroscience, Emory University, 2002-2006

### **IX. SCIENCE AND PUBLIC POLICY**

##### Review Monitor, Division on Earth and Life Studies, National Academy of Sciences, Engineering and Medicine, *NAS Biodiversity at Risk: Today’s Choices Matter*, 2021

##### Participant, NASEM Board on Life Sciences' Meeting of Experts on Data Infrastructure, Sharing, and Policy, 2021

##### Advisory Board, Illinois-IBM Collaboratory, 2016-2020

##### Co-organizer, Genes and Social Science Meeting, NIH Research Network on the Determinants of Life Course Capabilities and Outcomes (J. Heckman, PI), Chicago, 2016

##### Moderator, AAAS-Illinois Program on Visionary Frontiers of Engineering, Medicine and Biology, 2015

##### Reviewer, “Advances in BioDemography: Cross-Species Comparisons of Social Environments, Social Behaviors, and their Effects on Health and Longevity: A Workshop,” NAS-NRC Committee, 2014

##### “Frontiers in Brain Research,” Testimony, House Subcommittee on Research and Technology, 2013

##### Co-organizer, “New Perspectives on Organismal Biology,” NSF Workshop, 2011

##### Co-organizer, “Tools for 21st Century Biology,” NSF Workshop, 2009

##### Reviewer, “A New Biology for the 21st Century,” NAS-NRC Committee, 2009

##### Reviewer, “Theory in Biology,” NAS-NRC Committee, 2008

##### Member, “Status of Pollinators in North America,” NAS-NRC Committee, 2005-2006

### **X. SERVICE**

### National and International Service

##### Invited Participant, NASEM Board on Life Sciences Strategic Planning Meeting, 2020

##### Planning Committee, National Academy of Medicine 50th Anniversary Regional Scientific Symposium, University of Chicago, 2020

##### Working Group, National Council on Competitiveness, 2019-2020

##### Chair, “Functional Genomics Workshop,” National Academy of Sciences, 2019-2020

##### Reviewer, “Fostering the Culture of Convergence in Research” workshop proceedings, NASEM, 2019

##### Mentor, Dr. Eyal Maori, Fellow, Department of Biochemistry, Cambridge University, Henry Dale Career Development Fellowship applicant, 2019 - present

##### Associate, Center for the Economics of Human Development, University of Chicago, 2018-present

##### Co-Chair, Earth BioGenome Project, 2014-present

##### Collaborator and Mentor, Dr. Jennifer Cook, Birmingham Fellow, School of Psychology, University of Birmingham, EU Horizon 2020 grant, “Brain2Bee,” 2017 – present

##### Chair, Section 27 (Evolutionary Biology) National Academy of Sciences, 2017-2020

##### NASEM President’s Convergence Advisory Group, 2017-2019

##### National Academy of Sciences National Pollinator Week Facebook Post, 2017

##### Expert, REDDIT, Ask Me Anything, 2017

##### Membership Panel, American Academy of Arts and Sciences Class II, Section 4 (Evolutionary and Population Biology and Ecology), 2016-2017

##### Review Committee, University of Texas Center for Computational Biology and Bioinformatics, 2016

##### Selection Committee, National Academy of Sciences Richard Lounsbery Award, 2014-2015

##### Chair, National Academy-Keck Futures Initiative on Social Behaviors, 2014-2015

##### Membership Panel, American Academy of Arts and Sciences Class II, Section 4 (Evolutionary and Population Biology and Ecology), 2012-2013

##### Chair, Selection Committee, John J. Carty Award for the Advancement of Science, National Academy of Sciences, 2014

##### Founder, i5K: An initiative to sequence the genomes of 5000 insects, 2011 (Member, Coordinating Group, 2012-present)

##### ESA Fellows Selection Panel, 2011-2014

##### Selection Committee, ESA Early Career Innovation Award, 2008, 2009, 2010

##### Program Committee, 16th International Congress of IUSSI, 2008-2010

##### Council Member at Large, Gordon Research Conferences Council, 2007-2009

##### Reviewer, National Academy of Sciences-National Research Council Report, 2007

##### Consultant, NIH-NIA Social Neuroscience Initiative, 2007

##### Program Committee, “Cholinergic Signaling: from Gene to Environment,” Symposium in honor of Hermona Soreq, Hebrew University, Jerusalem, 2006

##### Reviewer, Elsevier Press, 2006

##### Ad hoc Advisory Committee, Center for Brain Science, Harvard University, 2005

##### Program Committee, 15th International Congress of IUSSI, 2004-2006

##### Council Representative, Gordon Research Conferences, 2004-2006

##### Reviewer, Indiana 21st Century Research & Technology Fund, 2004

##### Consultant, Songbird Genomic Initiative, 2003-2010

##### Leader, Honey Bee Genome Sequencing Consortium, 1999-present

##### President-Elect and President, IUSSI North American Chapter, 2000-2002

##### Judge, Student Competition, ESA, 2000

##### Reviewer, Sinauer Associates Publisher, 2000

##### Travel Support Committee, IUSSI North American Chapter, 1988-1989

##### Referee, Killiam Program, Canada Council for the Arts, 1998

##### Travel Grant Awards Committee, IUSSI, 1998

##### Member, Beckman Scholars National Advisory Panel, 1998

##### Nominating Committee, IUSSI North American Chapter, 1987–1988, 2005-6

##### Conference Organizing Committee, IUSSI North American Chapter, 1997

##### Chairperson, Sub-section Cb, ESA, 1995

##### Referee, Humboldt Foundation, 1994, 1995, 2002

##### Reviewer, John Simon Guggenheim Memorial Foundation, 1994

##### Panel Member, USDA Competitive Grants Program, Entomology, 1994

##### Travel Grant Award Selection Committee, IUSSI North American Chapter, 1994

##### Outside Member of Doctoral Committee, Gui Deng, University of Miami, 1993-1995

##### Awards Committee, Eastern Apicultural Society, 1993–2000

##### Reviewer, Princeton University Press, 1993

##### Secretary, Chair-elect, Chair, Sub-section Cb, ESA, 1993-1995

##### **Editorial Board Member**

##### *Proceedings of the National Academy of Sciences*, 2009-2015, 2016-2021, 2022

##### Encyclopedia of Social Insects, Springer, 2018-2020

##### Associate Editor, *Annual Review of Entomology*, 1998-2018

##### *Journal of Insect Physiology*, 1998-2015

##### *Journal of Insect Biology,* 1998-2014

##### *Genes, Brain, and Behavior,* 2001-present

##### *Journal of Experimental Zoology,* 2005-2016

##### *Gene Regulation and Systems Biology,* 2009-present

##### *Molecular and Developmental Evolution,* 2013-present

##### *Current Opinion in Insect Science, 2013-2016*

### **Professional Affiliations**

##### American Association for the Advancement of Science

##### American Association for Behavioral Neuroendocrinology

##### Animal Behavior Society

##### Entomological Society of America

##### International Bee Research Association

##### International Society for Neuroethology

##### International Union for the Study of Social Insects

##### Sigma Xi

##### Society for Neuroscience

##### International Behavioural and Neural Genetics Society

### **Outreach and Public Engagement**

##### Where We Grow From Here Podcast, 2021

##### Creator, World of Genomics public engagement event; partnerships with Field Museum of Chicago, St. Louis Science Center, National Academy of Sciences, Orpheum Science Center

##### Creator, Genomics forTM professional training programs for judges, state’s attorneys, police officers, physicians, journalists (in partnership with the American Association for the Advancement of Science), CEOs, PR executives and Hollywood producers and script writers (the latter in partnership with the NAS Science and Entertainment Exchange)

##### Finding Genius Podcast, 2020

##### BigHeads Network Podcast, What Our Business Can Learn From Bees, 2020

##### Speaker, Genomics for Marketing, CGLife-IGB, 2020

##### Speaker, Genomics for Journalists, AAAS-IGB, 2019

##### Speaker, National Courts and Science Institute-IGB Genomics for Judges, 2019

##### Speaker, National Courts and Science Institute-IGB Genomics for Judges, 2018

##### Lecture and honey tasting, Standard Club, Chicago, 2018

##### Discussant, “Gattaca” film screening, Art Theater, 2018

##### Speaker, Genomics for Clinicians, Carle Foundation, 2016

##### Lecture and honey tasting, Sweet Beginnings, Chicago, 2016

##### Lecture and honey tasting, Chabad House, Champaign, 2016

##### Speaker, Genomics for CEOs, Young President Organization, Windy City Chapter, Chicago, 2015

##### Speaker, Windsor of Savoy Nursing Home, 2015

##### Interviewee, US Government Accountability Office, 2015

##### Speaker, Kiwanis Club of Champaign-Urbana, 2015

##### Speaker, Social Science Club of Champaign-Urbana, 2015

##### People Behind the Science Podcast, 2014

##### Speaker, Genomics for Teachers, 2014

##### Speaker, Genomics for State’s Attorneys, 2014

##### Interviewed, WBEZ Chicago, 2014

##### Science 2034 Podcast Blog, The Science Coalition, 2014

##### Speaker, Genomics for Judges, 2013

##### Panel Discussant, “Future Shock,” National Center for Super Computing Applications Private Sector Program, 2014

##### Speaker, Genomics for Judges, 2013

##### Creator, “Genomics for” continuing education professional training courses, 2013-present

##### Creator, Genome Day public outreach event, Orpheum Museum, 2013-present

##### Film Discussant, Art Theater, 2013

##### Pollination Fascination Talk, UIUC Pollinatarium, 2012, 2014

##### Interviewed, BBC, 2012

##### Interviewed, Saskatchawan Public Radio, 2012

##### Interviewed, Albany Public Radio, 2012

##### Interviewed, Minnesota Public Radio, 2012

##### University High School Advisory Board, 2012-2017

##### Speaker, Sheboygan County Beekeepers Association, 2011

##### Advisor to University High School team, Toshiba/National Science Teachers Association ExploraVision competition, 2011

##### Presentation, Champaign Rotary Club, 2010

##### Presentation, Thomas Paine Elementary School, 2010

##### Bug Night, B.T. Washington Elementary School, 2010

##### Public lecture, Science Olympiad National Tournament, 2010

##### Consultant, SciFi Network, 2009

##### Pollinatarium tour, Spurlock Museum Staff, 2009

##### Speaker, SciFest, St. Louis Museum of Science, 2009

##### Speaker, Upward Bound College Prep Academy, 2009

##### Organizer, Genomics course for the Osher Life Long Learning Center, 2009

##### Clark-Lindsey tour, Bee Research Facility, 2009

##### Pollinatarium tour, Thomas Paine Elementary School, 4th grade class, 2009

##### Salon Speaker, Science Exchange, National Academy of Sciences-Hollywood, 2008

##### Organizer, Neuroscience course for the Osher Life Long Learning Center, 2008

##### Consultant, UIUC Pollinatarium, 2008

##### Interviewed, Quirks & Quarks, CBC Radio, 2008

##### Speaker, Community Health Program, 2008

##### Scientific Advisor, Next Generation Lego Team, 2008

##### Host, US Army Construction Engineering Research Laboratory High School Workshop, 2008

##### Director, UIUC "Bees and Beekeeping" Short Course, 2008

##### Participant, Neuroscience workshop for high school teachers, 2008

##### Participant, BeeSpace workshop for high school teachers, 2008

##### Featured Speaker, PlexusCalls on Complex Systems, 2007

##### US Army Construction Engineering Research Laboratory High School Workshop, 2007

##### Bee lab tour, Thomas Paine Elementary School, 4th grade class, 2007

##### Champaign-Urbana B’nai Brith, 2006

##### Interviewed for Focus 580, WILL, 2006

##### Champaign-Urbana Rotary Club, 2006

##### Interviewed for world-science.net, 2006

##### Bee lab tour, Howard Hughes Undergraduate Fellows Program, 2006

##### Bee lab tour, Education Staff, Spurlock Museum of World Cultures, 2006

##### Presentation, Home High School, 2005

##### Interviewed for WCIA Morning News television show, 2005

##### Interviewed for NPR Science Program, 2005

##### UIUC-Howard Hughes Medical Institute Biotechnology Education and Outreach Program, 2005

##### Interviewed for Wisconsin Public Radio, 2005

##### Interviewed for Science Show, News Talk 890 KDXU, Phoenix, AZ (3 times), 2005

##### Interviewed for Science Show, News Talk 890 KDXU, Phoenix, AZ (3 times), 2005

##### Director, UIUC "Bees and Beekeeping" Short Course, 2004

##### Presentation, Champaign-Urbana Montessori School, 2004

##### UIUC-Howard Hughes Medical Institute Biotechnology Education and Outreach Program, 2004

##### “Biology Lab Organization,” HURF, 2004

##### “Weekend Wizards,” Orpheum Science Museum Exhibit, 2004

##### Bee lab tour, YMCA Science Summer Program, 2003

##### Director, UIUC "Bees and Beekeeping" Short Course, 2003

##### Bee lab tour, HURF, 2003

##### “The Opportunistic Mentee”, HURF, 2002

##### Bee lab tour, HURF, 2002

##### Director, UIUC "Bees and Beekeeping" Short Course, 2002

##### Presentation, HURF, 2001

##### Presentation, Montessori Habitat School, 2001

##### Director, UIUC "Bees and Beekeeping" Short Course, 2001

##### Presentation, Doctor Howard Elementary School, 2nd grade class, 2001

##### Presentation, Pack 11 Cub Scouts, 2001

##### Presentation, Howard Hughes Undergraduate Research Fellows, 2000

##### Filmed for Discovery Channel *Twisted Tales*, Animal Planet, 2000

##### Appearance, Chicago WGN radio, with Milt Rosenberg, 2000

##### Presentation, Home High School, 2000

##### Organizer, UIUC "Bees and Beekeeping" Short Course, 2000

##### Presentation, HURF, 1999

##### Presentation, Washington Elementary School 4th grade class, 1999

##### Presentation, Colonel Wolf K-1st grade, 1999

##### Director, UIUC "Bees and Beekeeping" Short Course, 1999

##### Presentation, Howard Hughes Undergrad. Res. Fellows (HURF), 1998

##### Presentation, Washington School 3rd grade and Kindergarten, 1998

##### Presentation, Home Schooling Project, Springfield, IL, 1998

##### Director, UIUC "Bees and Beekeeping" Short Course, 1998

##### Appearance, "Prizma,” German science program, 1997

##### Presentation, Washington Elementary School 2nd grade class, 1997

##### Organizer, UIUC "Bees and Beekeeping" Short Course, 1997

##### Presentation, Parkland College, "College for Kids" program, 1997

##### Presentation, Doctor Howard Elementary School 5th grade class, 1997

##### Presentation, Washington Elementary School 1st grade class, 1996

##### Presentation, Early Learning Preschool, 1996

##### Presentation, Nayot Kindergarten class, 1996

##### Consultant, Israel National Museum of Nature, 1996

##### Judge, American Embassy Scholarship Competition, Israel, 1996

##### Presentation, Parkland College, "College for Kids" program, 1995

##### Presentation, Doctor Howard Elementary School 4th grade class, 1995

##### Presentation, Southside Elementary School Kindergarten class, 1995

##### Presentation, Jefferson Middle School, 1995

##### Presentation, Insect Expo '95, 1995

##### Presentation, Clark Lindsey Senior Citizens Home, 1995

##### Presentation, Champaign Public Library, 1995

##### Presentation, Yankee Ridge Elementary School 3rd grade class, 1995

##### Presentation, Playtime Preschool class, 1995

##### Presentation, Doctor Howard Elementary School 3rd grade class, 1994

##### Presentation, Southside Elementary School second-grade class, 1994

##### Presentation, Playtime Preschool class, 1994

##### Member, Advisory Comm. Apiary Regulations, IL Department Ag., 1994

##### Speaker, IL State Beekeeper's Society Winter Meeting, Springfield, IL, 1994

##### Advisor, Chicago Museum of Science and Technology, 1994

##### Presentation, Playtime Preschool class, 1993

##### Presentation, Colonel Wolfe 1st grade class, 1993

##### Member, Advisory Comm. on Apiary Regulations, IL Department Ag., 1993

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1993

##### Speaker, Eastern Apicultural Society Meeting, Orono, Maine, 1993

##### Presentation, Colonel Wolfe Kindergarten class, 1992

##### Speaker, Eastern Apicultural Society Annual Meeting, Ontario, 1992

##### Member, Advisory Comm. on Apiary Regulations, IL Department Ag., 1992

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1992

##### Speaker, Cook-Depage County Beekeeper's Association, 1992

##### Presentation, Playtime Preschool class, 1991

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1991

##### Reviewer, *The New Book of Knowledge*, 1991

##### Speaker, IL State Beekeeper's Association Meeting, Champaign, 1991

##### Appeared in "*Infinite Voyage*,” PBS documentary on insects, 1991

##### Presentation, Playtime Preschool class, 1990

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1990

##### Consultant, National Wildlife Federation, 1990

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1990

##### Speaker, IL State Beekeeper's Association Meeting, Springfield, 1989

### **XI. UNIVERSITY SERVICE**

##### Center for Label-free Imaging and Multiscale Biophotonics Internal Advisory Committee, 2022-present

##### Campus Budgeting Reform Steering Committee, 2021-2022, 2022-2023

##### Chair, Kearn, Metcalf & Flint Endowed Chair Search Committee (Department), 2020-2022

##### Search Committee, Director, Beckman Institute (Campus), 2021-22

##### Budgeting Reform Implementation Committee, 2018-2020, 2022-present

##### Governance Board, Center for Advanced Bioproducts and Bioenergy Innovation (CABBI) (Campus), 2020-present

##### Committee on Natural Areas (Campus), 2021-2022

##### Steering Committee, Chancellor’s Call to Action, 2020-present

##### Advisory Board, Prairie Research Institute (PRI), 2020-present

##### Search Committee, Director of Research, Discovery Partners Institute, 2020-present

##### Chair, Council of Institute Directors (Campus), 2016-2020

##### Research Information Technology Advisory Committee (Campus), 2018-2020

##### Internal Advisory Board, Cancer Center (Campus), 2017-present

##### Research Advisory Board, Carle Illinois College of Medicine (Campus), 2017-present

##### Endowed Professor Selection Committee, School of Molecular and Cellular Biology) (School), 2016

##### Chancellor’s Transition Advisory Committee (Campus), 2016-2017

##### Mayo Clinic & Illinois Alliance working group (Campus), 2016-2017

##### Mentor, Ruby Mendenhall, Department of Sociology (Campus 2nd Discipline Fellowship), 2016-present

##### Research Live! Finals Judge (Campus), 2016

##### Advisory Co-Chair and member of Grand Challenge Learning Leadership Committee/Health & Wellness (Campus), 2015-16

##### Speaker, Academic Leadership Seminar series for Executive Officers (Campus), 2015

##### Campus Awards and Honors Committee, 2015-16

##### Strategic Planning Steering Committee (System), 2015-16

##### Speaker, Future of Medical Education & Research at Illinois (Campus), 2015

##### Member, University System Strategic Planning Committee, 2015-16

##### Grand Challenge Learning Leadership Committee (Campus), 2015-2018

##### Center for Advanced Study Task Force, (Campus), 2015-16

##### Search Committee, Dean, College of Agricultural, Consumer and Environmental Sciences (ACES), 2015-2016

##### College of Medicine Task Force (University), 2015

##### Judge, Illinois Innovation Prize (Campus), 2015

##### Chair, Faculty Cluster Hire Selection Committee (Campus), 2015

##### Sesquicentennial Planning Committee (Campus), 2015-2017

##### Sesquicentennial Planning Sub-Committees: DC/Springfield and OVCR Institutes (Campus), 2015-2017

##### Search Committee, Deputy Director, NCSA (Campus), 2015-2016

##### Committee on Natural Areas (Campus), 2015-2016

##### Advisory Co-Chair, Health & Wellness pathway, Grand Challenge Learning Leadership Committee (campus), 2015-2016

##### Chair, Search Committee, Department of Chemistry, (Campus) 2015-2016

##### Search Committee, Director of the University Office of Governmental Relations (University), 2015-2016

##### Search Committee, Director of the Interdisciplinary Health Sciences Initiative, 2014-2015

##### Committee for Research and Education at NCSA, 2014-2015

##### NCSA Private Sector Program Blue Ribbon Panel, 2014

##### Advisory Committee, Center for Advanced Study, 2014

##### Chair, Director of Coordinated Science Laboratory Search Committee (College of Engineering), 2014

##### Committee on Natural Areas (Campus), 2014-2015

##### Promotion and Tenure Committee (Entomology), 2014-2015

##### Internal Advisory Committee, Illinois-NIH Cancer Nanotechnology Training Program 2014-2015

##### Committee on Natural Areas (Campus), 2014-2015

##### Mentor, Rachel Roberts-Galbraith, Department of Cell & Developmental Biology (NIH K99 application), 2013-2014

##### Committee on Natural Areas (Campus), 2013-2014

##### Promotion and Tenure Committee (Entomology), 2013-2014

##### Graduate College Postdoctoral Affairs Office Advisory Committee, 2013-2014

##### Search Committee, Director, National Center for Supercomputing Applications (NCSA) (Campus), 2013-2014

##### University Research Council (Campus), 2012-2014

##### Chair, Director of Carver Biotechnology Center Search Committee (Campus), 2012

##### Chair, Dean of the College of Engineering Search Committee (Campus), 2012-13

##### National Center for Supercomputing Applications Search Committee (Campus), 2012-2013

##### Mayo-Illinois Strategic Alliance Executive Committee (Campus), 2012-present

##### Grainger Engineering Breakthroughs Initiative Faculty Recruitment Committee (Campus), 2012-2017

##### Committee on Natural Areas (Campus), 2012-2013

##### Promotion and Tenure Committee (Entomology), 2012-2013

##### Committee on Natural Areas (Campus), 2011-2012

##### Council of Center Directors, (Campus) 2011-present

##### Chancellor's Leadership Council (Campus), 2011

##### VCR Search Committee (Campus), 2011-2012

##### Promotion and Tenure Committee (Entomology), 2011-2012

##### Faculty Mentor, Department of Computer Science, 2011-present

##### Chair, Director of the School of Chemical Sciences Search Committee, 2011-2012

##### College of Business Entrepreneur Advisory Board (Campus), 2011-2013

##### Committee on Natural Areas (Campus), 2010-2011

##### Promotion and Tenure Committee (Entomology), 2010-2011

##### Executive Committee, Institute for Genomic Biology (Campus), 2010-2011

##### Executive Committee, NIH DNPTG (Campus), 2010-2011

##### Speaker, Science Faculty Media Workshop, Public Affairs (Campus), 2010-2011

##### Postdoctoral Scientists Advisory Committee (Campus), 2010-2011

##### Promotion and Tenure Committee (Entomology), 2010-2011

##### Executive Committee, Institute for Genomic Biology (Campus), 2009-2010

##### Committee on Natural Areas (Campus), 2009-2010

##### Promotion and Tenure Committee (Entomology), 2009-2010

##### Executive Committee, NIH DNPTG (Campus), 2009-2010

##### Chair, Beckman Institute Director Search Committee (Campus), 2009-2010

##### Cell & Molecular Biology-MBTG Symposium Poster Judge, 2008-2009

##### Chair, Beckman Institute Director Search Committee (Campus), 2008-2009

##### Executive Committee, Institute for Genomic Biology (Campus), 2008-2009

##### Awards Committee (Entomology), 2008-2009

##### Executive Committee, NIH SNTG (Campus), 2008-2009

##### Committee on Natural Areas (Campus), 2008-2009

##### Promotion and Tenure Committee (Entomology), 2008-2009

##### Search Committee, Evolutionary genomics of human behavior (Psych. & IGB), 2007-2008

##### Committee on Natural Areas (Campus), 2007-2008

##### Awards Committee (Entomology), 2007-2008

##### Executive Committee, Institute for Genomic Biology (Campus), 2007-2008

##### Executive Committee, NIH SNTG (Campus), 2007-2008

##### Chair, Provost’s *Ad Hoc* Committee on BioEd (Campus), 2007-2008

##### Division of Biomedical Sciences Planning Committee (Campus), 2007-2008

##### Search Committee, Evol. genomics human behavior (Psych. & IGB), 2006-2007

##### Committee on Natural Areas (Campus), 2006-2007

##### Awards Committee (Entomology), 2006-2007

##### Promotion and Tenure Committee (Entomology), 2006-2007

##### Executive Committee, Institute for Genomic Biology (campus), 2006-2007

##### Assisted News Bureau in evaluation of job candidate (campus), 2006-2007

##### Chair, Provost’s *Ad Hoc* Committee on BioEd (campus), 2006-2007

##### Executive Committee, NIH DNPTG (Campus), 2006-2007

##### Executive Committee, NIH SNTG (Campus), 2006-2007

##### Executive Committee (College; sabbatical replacement), 2005-2006

##### Provost Selection Committee (Campus), 2005-2006

##### Committee on Natural Areas (Campus), 2005-2006

##### Mentor, New Faculty (Cell & Structural Biology), 2005-2006

##### Awards Committee (Entomology), 2005-2006

##### Executive Committee, NIH DNPTG (Campus), 2005-2006

##### Executive Committee, Institute for Genomic Biology (campus), 2005-2006

##### Committee on Natural Areas (Campus), 2004-2005

##### Mentor, New Faculty (Cell & Structural Biology), 2004-2005

##### Chair, Search Committee, Vertebrate behavioral genomics (An. Bio. & IGB), 2004-2005

##### Executive Committee, Institute for Genomic Biology (campus), 2004-2005

##### Awards Committee (Entomology), 2003-2004

##### Promotion and Tenure Committee (Entomology), 2003-2004

##### Mentor, New Faculty (Cell & Structural Biology), 2003-2004

##### Executive Committee, NIH DNPTG (Campus), 2003-2004

##### Member, Agricultural Genome Sciences & Public Policy Training Grant (Campus), 2003-2004

##### Chair, Search Committee, Insect Genomics (Entomology & IGB), 2003-2004

##### Advisory Committee, Keck Center for Functional & Comparative Genomics, 2002-2003

##### Promotion and Tenure Committee (Campus), 2002-2003

##### Awards Committee (Entomology), 2002-2003

##### Promotion and Tenure Committee (Entomology), 2002-2003

##### Mentor, New Faculty (Cell & Structural Biology), 2002-2003

##### Fulbright Student Fellowship Selection Committee (Campus), 2002-2003

##### Executive Committee, NIH DNPTG (Campus), 2002-2003

##### Member, Agricultural Genome Sciences & Public Policy Training Grant (Campus), 2002-2003

##### Advisory Committee, Keck Center for Functional & Comparative Genomics, 2001-2002

##### Chair, Capricious Grading Committee (School), 2001-2002

##### Promotion and Tenure Committee (Campus), 2001-2002

##### Awards Committee (Entomology), 2001-2002

##### Promotion and Tenure Committee (Entomology), 2001-2002

##### New Biology Working Group, Ctr. Advanced Study (Campus), 2001-2002

##### Evaluation of Department Head Committee (Entomology), 2001-2002

##### Mentor, Teaching Academy (Campus), 2001-2002

##### Mentor, New Faculty (Cell & Structural Biology), 2001-2002

##### Executive Committee, NIH DNPTG (Campus), 2001-2002

##### Advisory Committee, Keck Center for Functional & Comparative Genomics, 2000-2001

##### Campus Research Board *ad hoc* reviewer, 2000-2001

##### Chair, Capricious Grading Committee (School), 2000-2001

##### Promotion and Tenure Committee (Campus), 2000-2001

##### Entomology Seminar Coordinator (fall semester), 2000-2001

##### Promotion and Tenure Committee (Entomology), 2000-2001

##### Provost’s *Ad hoc* Committee on a Science Center (Campus), 2000-2001

##### Executive Committee, NIH Developmental Neuroscience and Psychobiology Training Grant (DNPTG) (Campus), 2000-2001

##### LAS Executive Committee (College), 1999-2000

##### Entomology Seminar Coordinator, 1999-2000

##### Executive Committee, Neuroscience Program (Campus), 1999-2000

##### Promotion and Tenure Committee (Entomology), 1999-2000

##### Campus Research Board *ad hoc* reviewer, 1999-2000

##### Liberal Arts and Sciences (LAS) College Executive Committee, 1998-1999

##### Advisory Committee, School of Integrative Biology (SOLS), 1998-1999

##### Promotion and Tenure Committee (Entomology), 1998-1999

##### Executive Committee, Neuroscience Program (Campus), 1998-1999

##### Graduate College, Biological Sciences Subcommittee (Campus), 1998-1999

##### SOLS Distinction Committee, 1998-1999

##### Entomology Seminar Coordinator, 1998-1999

##### Campus Research Board *ad hoc* reviewer, 1998-1999

##### Advisory Committee, Keck Center for Functional & Comparative Genomics, 1999-2000

##### Critical Research Initiatives Selection Committee (Campus), 1998-1999

##### SOLS Capricious Grading Committee, 1997-1998

##### Chairperson, SOLS Environmental Safety Committee, 1997-1998

##### Entomology Seminar Coordinator, 1997-1998

##### Entomology Graduate Student Administration Committee, 1997-1998

##### Entomology Affirmative Action Committee, 1997-1998

##### Member, NIH Developmental Psychobiology and Neurobiology Training Grant Faculty (Campus), 1997-1998

##### Graduate College, Biological Sciences Subcommittee (Campus), 1997-1998

##### Search Committee, Behavioral Ecologist (SOLS), 1997-1998

##### Bylaws Committee for new School of Integrative Biology, 1997-1998

##### Advisory Committee, School of Integrative Biology, 1997-1998

##### Campus Research Board *ad hoc* reviewer, 1997-1998

##### Entomology Seminar Coordinator, 1996-1997

##### Chairperson, SOLS Environmental Safety Committee, 1996-1997

##### SOLS Distinction Committee, 1996-1997

##### SOLS Capricious Grading Committee, 1996-1997

##### Executive Committee, Neuroscience Program, 1996-1997

##### Dean's Liaison, Entomology Department Head Evaluation Comm., 1996-1997

##### W.H. Luckmann Award Comm. (Ctr. Economic Entomology), 1996-1997

##### Campus Research Board *ad hoc* reviewer, 1996-1997

##### Entomology Seminar Coordinator, 1994-1995

##### School Courses and Curriculum Committee, 1994-1995

##### W.H. Luckmann Award Comm. (Ctr. Economic Entomology), 1994-1995

##### Neuroscience Program Student Admissions Committee, 1994-1995

##### Search Committee, Insect Systematist Position, IL Natural History Survey, Center for Biodiversity (Campus representative), 1994-1995

##### SOLS Review Committee1994-1995

##### Campus Research Board *ad hoc* reviewer, 1994-1995

##### Neuroscience Program Student Admissions Committee, 1993-1994

##### Entomology Seminar Coordinator, 1993-1994

##### SOLS Courses and Curriculum Committee, 1993-1994

##### W.H. Luckmann Award Committee (Center for Economic Entomology), 1993-1994

##### SOLS Director Evaluation Committee, 1993-1994

##### Campus Research Board *ad hoc* reviewer, 1993-1994

##### Chairperson, Entomology Graduate Student Administration Committee, 1992-1993

##### Entomology Seminar Coordinator, 1992-1993

##### Search Comm, Ecology, Ethology and Evolution (outside member), 1992-1993

##### Search Comm., Life Sciences journalist, University News Bureau, 1992-1993

##### SOLS Fellowship Committee, 1992-1993

##### Procter and Gamble Lecture coordinator (SOLS–Entomology), 1991-1992

##### Reviewer, UIUC-Sigma Xi scientific writing competition, 1991-1992

##### Faculty Senate, 1991-1992

##### Neuroscience Program-SOLS TA liaison, 1991-1992

##### Entomology Seminar Coordinator, 1991-1992

##### Entomology Graduate Student Administration Committee, 1991-1992

##### School of Life Sciences (SOLS) Distinction Committee, 1990-1991

##### Entomology Graduate Student Administration Committee, 1990-1991

**XII. STUDENTS AND POSTDOCTORAL ASSOCIATES**

### **Research Scientists**

##### Adam Hamilton, (Ph.D. UIUC) 2020-

##### Zhenqing Chen, (Ph.D. New York University) 2020-

##### Zachary Huang, 1996-1999 Current Position: *Associate Professor, Michigan State University*

### **Postdoctoral Associates**

##### Ian Traniello (Ph.D. UIUC) 2020-2021

*Current Position: Lewis-Seigler Postdoctoral Fellow, Princeton University*

##### Tim Gernat (Ph.D. Computer Science, University Leipzig) 2019-

##### Cassondra Vernier (Ph.D. Washington University) 2019-

##### Adam Hamilton, (Ph.D. University of Illinois) 2018-2020

*Current Position: Research Scientist in Robinson Lab, UIUC*

##### Brian Herb, (Ph.D. Johns Hopkins University) 2017-2018 Current Position: *Research Scientist, University of Maryland College of Medicine*

##### Arian Avalos, (Ph.D. University of Puerto Rico) 2015-2018 Current Position: *Research Entomologist, USDA Bee Research Laboratory, Baton Rouge, LA*

##### Michael Saul, (Ph.D. University of Wisconsin) 2014-2018 (IGB theme fellow) Current Position: *Research Associate, Jackson Laboratories*

##### Julia Fine, (Ph.D. Pennsylvania State University) 2017-2019 Current Position: *Research Entomologist, USDA Bee Research Laboratory, Davis, CA*

##### Molly Shook, (Ph.D. Cornell University) 2014-2016

##### Zhenqing Chen, (Ph.D. New York University) 2015-2019 Current Position: *Research Scientist in Robinson Lab, UIUC*

##### Hagai Shpigler, (Ph.D. Hebrew University) 2013-2017 Current Position: *Research Scientist, Agricultural Research Organization, Volcani Cente, Israel*

##### Clare Rittschof, (Ph.D. University of Florida) 2012-2016 Current Position: *Associate Professor, University of Kentucky*

##### Ernest Blackwell, (Ph.D. UIUC) 2010-2012 (dec.) Former Position: *Faculty, Clackamas Community College, Oregon*

##### Karen Kapheim, (Ph.D. UCLA) 2011-2014 Current Position: *Associate Professor, Utah State University*

##### Hongmei Lei, (Ph.D. Purdue University) 2010-2013 Current Position: *Associate Professor, Central State University*

##### Matthew McNeill, (Ph.D. University Iowa) 2010-2014 Current Position: Staff scientist, IDT Inc., Iowa City, IA

##### Axel Brockmann, (Ph.D. University of Wuerzburg) 2004-2011 Current Position: *Associate Professor, National Centre for Biological Sciences, Bangalore, India*

##### Amy Toth, (Ph.D. UIUC) 2007-2009 Current Position: *Professor, Iowa State University*

##### Amro Zayed, (Ph.D. York University) 2006-2007 (IGB Fellow) Current Position: *Canada Research Chair, York University, Canada*

##### Scott Kreher, (Ph.D. Yale University) 2006-2009 Current Position: *Associate Professor, Dominican University*

##### Cedric Alaux, (Ph.D. University Paris) Fondation Fyssen Fellow, 2006-200 Current Position: *Staff Scientist, INRA Avignon, France*

##### Amanda B. Hummon, (Ph.D. UIUC) 2004-2005 (with S. Rodriguez and J. Sweedler) Current Position: *Professor, Ohio State University*

##### Adrienne Moran Lauter, (Ph.D. University Minnesota) 2003-2005 Current Position: *Lab manager, Iowa State University*

##### Moushumi Sen Sarma, (Ph.D. Indian Institute of Science) 2004-2009

##### Yehuda Ben-Shahar, (Ph.D. UIUC) 2002-2003 Current Position: *Professor, Washington University*

##### David Schulz, (Ph.D. UIUC) 2001-2002 Current Position: *Professor and Director of Division of Biological Sciences, University Missouri*

##### Christina Grozinger, (Ph.D. Harvard University) Beckman Fellow, 2000-2004 Current Position: *Distinguished Professor and Director at Center for Pollinator Research, Pennsylvania State University, Winner NAS Prize in Food and Agriculture Sciences*

##### Andrew Barron, (Ph.D. Cambridge University) Fulbright Distinguished Fellowship, 2001-2003 Current Position: *Professor and Deputy Head, Macquarie* *University, Sydney, Australia*

##### Miguel Corona, (Ph.D. Mexican National University) CONACyT Mexican Fellowship, 2000-2007 Current Position: *Research Scientist, USDA Bee Research Laboratory, Beltsville, MD*

##### Charles Whitfield, (Ph.D. Stanford University) NSF Postdoctoral Fellow, 2000-2004 Former Position: *Associate Professor, UIUC (Ret)*

##### Michelle Elekonich, (Ph.D. University Washington) 1997-2002 Current Position: *Deputy Division Director, NSF, formerly Associate Professor, University of Nevada at Las Vegas*

##### Guy Bloch, (Ph.D. Tel Aviv University) 1997-2001 Current Position: *Professor and Director, School of Life Sciences, Hebrew University*

##### Elizabeth Capaldi, (Ph.D. Michigan State University) 1997-2000 (co-supervised by S. Fahrbach) Current Position: *Professor, Bucknell University*

##### Samuel Beshers, (Ph.D. Boston University) 1995-97 Former Position: *UIUC Lecturer and Neuroscience Program Coordinator (Ret)*

##### Stephen Trumbo, (Ph.D. SUNY Binghamton) 1992-94 Current Position: *Professor, University of Connecticut*

##### Zachary Huang, (Ph.D. Guelph University) 1992-96 Current Position: *Associate Professor, Michigan State University*

### **Doctoral Students**

##### Melissa Flores, Neuroscience Program, 2022-present

##### Malavika Venu, Ecology, Evolution & Conservation Biology, 2022-present

##### Sarai Stuart, Ecology, Evolution & Conservation Biology, 2016-present

##### Ian Traniello, Neuroscience, 2020 (Winner, Fred S. Bailey Scholarship for Community Leadership, Service and Activism; Winner, NIH Outstanding Scholars in Neuroscience Award)

##### Current Position: *Lewis-Seigler Postdoctoral Fellow*, Princeton University

##### Tim Gernat, Computer Science, University Leipzig, 2010-2019

##### Current Position: *Postdoctoral Research Associate in Robinson Lab, UIUC*

##### Beryl Jones, Ecology, Evolution & Conservation Biology, 2019 (Winner, Emerson Award for Outstanding Graduate Student in the School of Integrative Biology; Eickwort Outstanding Student Award)

##### Current Position: *Assistant Professor, University of Kentucky*

##### Adam Hamilton, Neuroscience, 2018

##### Current Position: *Research Scientist, UIUC*

##### Nick Naeger, Entomology, 2015

##### Current Position: *Research Assistant Professor, Washington State University*

##### Marsha Wheeler, Entomology, 2014

##### Current Position: *Research Scientist, University of Washington*

##### Claudia Lutz, Neuroscience, 2012

##### Current Position: *Outreach Manager, IGB*

##### Sophia (Zhengzheng) Liang, Neuroscience, 2013

##### Current Position: *Postdoctoral Research Associate, Harvard University*

##### Brielle Fischman, Ecology & Evolutionary Biology, 2013

##### Current position: *Director of Introductory Biology Laboratories, Hobart and William Smith College*

##### S. Hollis Woodard, Ecology & Evolutionary Biology, 2011

##### Current position: *Associate Professor, University of California at Riverside*

##### Ying Wang, Cell & Developmental Biology, 2010

##### Current Position: *Associate, Vinson & Elkins LLP, Intellectual property law*

##### Seth Ament, Neuroscience, 2010

##### Current Position: *Assistant Professor, University of Maryland*

##### Amy Toth, Ecology & Evolutionary Biology, 2006

##### Current Position: *Professor, Iowa State University*

##### Nyla Ismail, Neuroscience, 2008

##### Current Position: *DeBakey Heart & Vascular Center, Houston, TX*

##### Rodrigo Velarde Montecinos, Entomology, 2007

##### Current Position: *Scientist, University of Argentina*

##### Joseph Sullivan, Entomology, 2001

##### Current Position: *MD, Harborside Spine & Sports Center, Petoskey, MI*

##### Yehuda Ben-Shahar, Entomology, 2002

##### Current Position: *Professor, Biology Department, Washington University*

##### David Schulz, Entomology, 2001

##### Current Position: *Professor and School Director, University Missouri*

##### Sarah Farris, Entomology, 2000

##### Current Position: *Associate Professor, West Virginia University*

##### Christine Wagener-Hulme, Entomology, 2000

##### Current Position: *Lt. Colonel, USAF (ret)*

##### Daniel Toma, Ecology, Ethology and Evolution, 2000

##### Current Position: *Professor, Minnesota State University*

##### Tugrul Giray, Entomology, 1997

##### Current Position: *Professor, Department of Biology, University of Puerto Rico*

##### Ginger Withers, Neuroscience, 1993

##### Current Position: *Robert F. Welty Professor, Whitman College*

### **Master’s Students**

##### Magdalena Murphree, Entomology, 2022

## Kari Jackson, Entomology, 2017

##### Wei Yang, Entomology, 2014

##### Morgan Carr-Markell, Ecology, Evolution & Conservation Biology, 2010-2013

##### Tara McGill, Entomology, 2012

##### Timothy Daugherty, Biology, 2010

##### Scott Nixon, Biology, 2009

##### Nick Naeger, Entomology, 2006-2010 (see doctoral students)

##### Pouya Kheradpour, Computer Science, 2005 (co-advisors, C. Whitfield & C. Zeng)

##### Amy Cash (Ahmed), Ecology and Evolutionary Biology, 2003

##### Maria Vermiglio, Biology, 1998

##### Yehuda Ben-Shahar, Entomology, 1998 (winner, Clark Award) (see doctoral students)

##### Joseph Sullivan, Entomology, 1999 (co-advisor, S. Fahrbach) (see doctoral students)

##### David Schulz, Entomology, 1997 (Clark Research Support Grant, 1997) (see doctoral students)

##### Laura Heuser (Kimball), Entomology, 1997

##### Sarah Farris, Entomology, 1995 (co-advisor, S. Fahrbach) (see doctoral students)

##### Sean Collins, Entomology, 1995

##### Michael Moore, Biology, 1993

Tugrul Giray, Entomology, 1993 (see doctoral students)

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### **Other Research Personnel**

##### Amy Cash Ahmed, Lab Manager, 2012-present

##### Nathan Beach, Bee Lab Manager, 2019-present

##### Alison Sankey, Bee Lab Manager, 2015-2018

##### Terry Harrison, Bee Lab Manager, 2014-2015

##### Charles Nye, Bee Lab Manager, 2010-2014

##### Paul Tenczar, Citizen Scientist, 2011-2020

##### Tom Newman, Research Assistant Professor and Lab Manager, 2004-2012

##### Lydia Wraight, Laboratory Technician, 2004-2005

##### Karen Pruiett, Bee Lab Manager, 2001-2010 (2008 Chancellor's Academic Professional Excellence Award)

##### Alan Ross, Bee Lab Manager, 1998-2000

##### Darrell Moore, Visiting Scientist, NSF Research Opportunities Grant, East Tennessee University, 1994-1996

##### Yves LeConte, Visiting Scientist, NATO Fellow, Research Scientist, INRA, Avignon, France, 1993-1994

##### Karl Crailsheim, Visiting Scientist, Professor of Zoology, University of Graz, Austria, 1991-1992

##### Jack Kuehn, Bee Lab Manager, 1990-1997

### **Undergraduate Researchers (~200)**

### **Undergraduate Distinction Theses**

### **Senior Theses**

##### Laura Kilikevicius, B.S. with High Distinction, 2021

##### Allyson Ray, B.S. with Highest Distinction, 2016

##### Chelsey Coombs, B.S. with Highest Distinction, 2014

##### Sam Akin, B.S. with Distinction, 2013

##### Kyle Carey, B.S. with Distinction, 2012

##### Roveiza Irfan, B.S. with Distinction, 2010

##### Nicole Spencer, B.S. with Distinction, 2009

##### Timothy Daugherty, B.S. with High Distinction, UIUC, 2009

##### Mira Kolodkin, B.S. with High Distinction, 2006

##### Dustin Rubinstein, B.S. with Distinction, 2002

##### Christopher Thompson, B.S. with Distinction, 2000

##### Russell Riley, B.S. with Distinction, 1998

##### Omar Jassim, B.S. with Highest Distinction, 1997

##### David Schulz, B.S. with Highest Distinction, 1995

##### Jennifer Angel, B.S. with honors, Stanford University (outside advisor), 1994

##### Jennifer Strand, B.S. with High Distinction, 1994 (co-advisor, S. Fahrbach)

##### Natasha Leacock, B.S. with High Distinction, (co-advisor S. Fahrbach)

##### Matthew O'Neal, B.S. with High Distinction, 1992

# **XIII. PUBLICATIONS**

## 

## **Peer-Reviewed Papers**

1. Traniello, I.M., Bukhari, S.A, Dibaeinia, P., Serrano, G., Avalos, A., Ahmed, A.C., Sankey, A.L., Hernaez, M., Sinha, S., Zhao, S.D., Catchen and G.E. Robinson. Single-cell dissection of aggressive behaviour in honeybees. *In revision.*

### Gernat, T., Jagla, T., Jones, B.M., Middendorf, M. and G.E. Robinson. 2021. Automated monitoring of animal behavior with barcodes and convolutional neural networks. *Scientific Reports. In press.*

1. Shpigler, H.Y., Yaniv, A., Gernat, G., Robinson, G.E. and G. Bloch. 2022. The influences of illumination regime on egg-laying rhythms of honey bee queens. *Journal of Biological Rhythms*. doi: 10.1177/07487304221126782
2. Traniello, I.M., Hamilton, A.R., Gernat, T., Cash-Ahmed, A.C., Harwood, G.P., Ray, A.M., Glavin, A., Torres, J., Goldenfeld, N., and G.E. Robinson. 2022. Context-dependent influence of threat on honey bee social network dynamics and brain gene expression. *Journal of Experimental Biology* 225: jeb243738.
3. Lam, F., Chu, J., Choi, J.S., Cao, C., Hitchens, T.K., Silverman, S.K., Liang, Z-P, Dilger, R.N., Robinson, G.E., and K.C. Li. 2022. Epigenetic MRI: Noninvasive imaging of DNA methylation in the brain. *Proceedings of the National Academy of Sciences* 119: e21198911119.
4. Fine, J.D., Torres, K., Martin, J. and G.E. Robinson. 2021. A method to assess agrochemical risk to mated honey bee queens. JoVE. Doi: 10.3791/62316
5. Fouks, B….Robinson, G.E., Elsik, C.G. and O. Rueppell. 2021. The genomic basis of evolutionary differentiation among honey bees. *Genome Research* doi:10.1101/gr.272310.120

### Chen, Z., Traniello, I.M., Rana, S., Cash-Ahmed, A., Sankey, A.L., Yang, C and G.E. Robinson. 2021. Neurodevelopmental and transcriptomic effects of CRISPR/Cas9-induced somatic orco mutation in honey bees. *Journal of Neurogenetics* DOI: 10.1080/01677063.2021.1887173. Special issue in honor of Marla Sokolowski’s 65th birthday.

### Jones, B.M., Rao, V.D., Gernat, T., Jagla, T., Cash-Ahmed, A.C., Rubin, B.E.R., Comi, T.R., Bhogale, S., Husain, S., Blatti, C., Middendorf, M., Sinha, S., Chandrasekaran, S. and G.E. Robinson. 2020. Individual differences in honey bee behavior enabled by plasticity in brain gene regulatory networks. eLIFE DOI: https://doi.org/10.7554/eLife.62850.

### Choi, S.H., Rao, V.D., Gernat, T., Hamilton, A. R, Robinson, G.E. and N. Goldenfeld. 2020. Individual variations lead to universal and cross-species patterns of social behavior. *Proceedings of the National Academy of Sciences* 117: 31754-31759.

### Shpigler, H.Y., Herb, B., Drnevich, J., Band, M., Robinson, G.E. and G. Bloch. 2020. Juvenile hormone regulates brain-reproduction tradeoff in bumble bees but not honey bees. *Hormones and Behavior.* DOI: 10.1016/j.yhbeh.2020.104844.

### Avalos, A., Fang, M., Pan, H., Lluch, A.R., Lipka, A.E., Zhao, S.D., Giray, T., Robinson, G.E., Zhang, G. and M.E. Hudson. Genomic regions influencing aggressive behavior in honey bees. 2020. *Proceedings of the National Academy of Sciences* <https://doi.org/10.1073/pnas.1922927117>. (with Commentary)

### Geffre, A.C., Gernat, T., Toth, A.L., Jones, B.M., Gysi, D.M., Hamilton, A.R., Bonning, B.C., Robinson, G.E. and A.G. Dolezal. 2020. Honey bee virus causes context-dependent changes in host social behavior. *Proceedings of the National Academy of Sciences.* <https://doi.org/10.1073/pnas.2002268117> (Reported in *Science, Science Friday, Forschung aktuell, Nature Microbiology, PNAS)*

### Traniello, I.M., Bukhari, A., Kevill, J., Ahmed, A.C., Hamilton, A.R., Naeger, N.L., Schroeder, D.C. and G.E. Robinson. 2020. Meta-analysis of honey bee neurogenomic response links Deformed wing virus type A to precocious behavioral maturation. *Scientific Reports* 10, Article number: 3101.

### Traniello, I.M., Chen, Z., Bagchi, V. and G.E. Robinson. 2019. Valence of social information is encoded in different subpopulations of mushroom body Kenyon cells in the honeybee brain. *Proceedings of the Royal Society.* <https://doi.org/10.1098/rspb.2019.0901> (Reported in *Newsweek*, *Daily Mail*)

### Hamilton, A.R., Traniello, I.M., Ray, A.M., Caldwell, A.S., Wickline, S.A. and G.E. Robinson. 2019. Social behavior is associated with transcriptional regulatory plasticity in the brain. *Journal of Experimental Biology* doi: 10.1242/jeb.200196

### Kannan, K., Shook, M., Li, Y. Robinson, G.E. and J. Ma. 2019. Comparative transcriptomic analysis of brain and fat body gene splicing patterns in the honey bee, *Apis mellifera. G3: Genes, Genomes, Genetics* 9: 1055-1063.

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## **Invited Reviews and Perspectives**

1. Robinson, G.E., Bliss, R. and M.E. Hudson. What everyone should know about human behavioral genetics.
2. Cook, J.L. and G.E. Robinson. Comparative genomics and the roots of human behaviour. *Trends in Cognitive Science.* *In review.*
3. Hoekstra, H.E. and G.E. Robinson. Behavioral Genomics: Mendel’s Peas, Mice and Bees. 2022. *In* Hoekstra, H.E. , Stenseth, N.C. and L. Andersson, eds., Special Feature Collection in Honor of Gregor Mendel’s Contributions to Evolutionary Biology. *Proceedings of the National Academy of Sciences.* doi: 10.1073/pnas.2122154119. Epub 2022 Jul 18.
4. Robinson, G.E. Forward. 2022. Ravi Iyer and the CompGen Initiative at the University of Illinois at Urbana-Champaign. *In* Athreya, A., Wang, L., Pattabiraman, K., DiMartino, C., Bagchi, S., and Z. Kalbarczyk, eds., *System Dependability and Analytics*, Springer. *In press.*
5. Blaxter, M….Robinson, G.E….H.A. Lewin. 2022. Why sequence all eukaryotes? *Proceedings of the National Academy of Sciences* 119: e2115636118.
6. Lewin, H.A….Robinson, G.E….G. Zhang. 2022. The Earth BioGenome Project 2020: Starting the clock. *Proceedings of the National Academy of Sciences* 119: e2115635118. (Altmetric Score > 300, in top 5% of research)
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8. Boyce, T., Sokolowski, M.B. and G.E. Robinson. 2020. Genes and environments, development and time. Introduction to *Proceedings of the National Academy of Sciences* 117: 23235-23241. Introduction to Special Feature on Biological Embedding Across Timescales.
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### Boyce, T., Sokolowski, M.B. and G.E. Robinson. 2020. Biological Embedding Across Timescales: How Experience Gets Under the Skin. *Proceedings of the National Academy of Sciences,* Special Feature.

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## **Book Chapters**

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## **Book Reviews**

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## **Letters to the Editor**

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