

## VITAE

**Name:** May Roberta Berenbaum

**Date of birth:** July 22, 1953

**Place of birth:** Trenton, New Jersey

**Marital status:** Married, Richard J. Leskosky; Daughter, Hannah A. Leskosky

### Positions held

1980-1985 Assistant Professor, Department of Entomology, University of Illinois at Urbana-Champaign  
1985-1990 Associate Professor, Department of Entomology, UIUC  
1990-present Professor, Department of Entomology; joint appointment Department of Plant Biology; Affiliate, Program in Ecology, Evolution and Conservation Biology; Affiliate, Environmental Toxicology Training Program; Affiliate, Illinois Natural History Survey  
1992-present Head, Department of Entomology, UIUC  
1996-present Swanlund Endowed Chair, Department of Entomology, UIUC

### Education

B.S. Yale University 1975 (summa cum laude, honors in biology)  
Ph.D. Cornell University 1980 (Ecology and Evolutionary Biology)

### Awards and Honors

1979 Sigma Delta Epsilon Graduate Women in Science Award for Excellence (shared first prize)  
1980 Sigma Xi Cornell University Competition for Popular Science Writing (first prize)  
1981 Induction into Sigma Xi  
1981S, 1982S, List of Excellent Teachers (S=Spring, F=Fall semesters) UIUC, 1984S, 1984F, 1985S, 1986S, 1986F, 1989S, 1989F, 1990S, 1990F, 1991S, 1992S, 1992F, 1993S, 1994F, 1995S, 1996S, 1997S, 1999S, 2000S, 2000F, 2001S, 2003S, 2004F (2 courses), 2006F, 2007S, 2008F (2 courses), 2010S, 2010F, 2011S (2 courses), 2012F, 2013, 2014F, 2016, 2016F, 2016S, 2017S (IB526), 2018S (IB435), 2019S,  
1984-1989 Presidential Young Investigators' Award - (National Science Foundation) (\$125,000 base award)  
1985 Outstanding Short Program Award, Radio Station WEFT-FM 90.1, for "Those Amazing Insects" radio series  
1985-1988 University Scholars, UIUC (\$15,000 unrestricted award)  
1987 Beckman Associate, Center for Advanced Study, UIUC; John S. Guggenheim Fellowship (\$9,000)  
1988 George Mercer Award, Ecological Society of America (outstanding paper by a young ecologist)  
1991 Elected Fellow by American Association for the Advancement of Science  
1993-1998 Named Jubilee Professor, College of Liberal Arts and Sciences, UIUC  
1994 Elected Member, National Academy of Sciences; Founder's Memorial Award, Entomological Association of America  
1996 Elected Fellow, American Academy of Arts and Sciences; Fellow, American Philosophical Society; Named Swanlund Professor, UIUC; UIUC Mothers Association Medallion of Honor; Elected Member, Center for Advanced Study, UIUC; Distinguished Teaching Award, North Central Branch, Entomological Society of America;  
1997 Science Book of the Year--"Bugs in the System", Bild der Wissenschaft  
1999 E. O. Wilson Naturalist Award, American Society of Naturalists  
2000 Silverstein-Simeone Award, International Society for Chemical Ecology; University of Illinois Chancellor's Award for Distinguished Public Service; Election to Phi Beta Kappa (honorary)  
2001 National Associate, National Academies and National Research Council  
2002 Fellow, Entomological Society of America  
2004 Weizmann Institute Women and Science Award  
2005 Robert H. MacArthur Award, Ecological Society of America  
2006 Entomological Society of America Distinguished Teaching Award  
2008 Royal Entomological Society "Best Paper 2006-2007" award for Claudianos et al (Insect Molecular Biology 15, 615-636)  
2009 Pollinator Advocate, North American Pollinator Protection Campaign

2010	American Association for the Advancement of Science Award for Public Understanding of Science and Technology
2011	Distinguished Undergraduate Teaching Award, College of Liberal Arts and Sciences, UIUC
2011	Tyler Prize for Environmental Achievement
2012	Honorary Fellow, Royal Entomological Society
2012	E.O.Wilson Biodiversity Technology Pioneer Award, American Computer Museum, Bozeman, MT
2012	Fellow, Ecological Society of America
2014	Entomological Foundation Medal of Honor
2014	2012 National Medal of Science
2015	John P. McGovern Science and Society Award, Sigma Xi
2016	Addison Emery Verrill Medal, Peabody Museum, Yale University.
2017	National Association of Biology Teachers Distinguished Service Award
2017	Honorary member, British Ecological Society
2019	Editor-in-Chief, <i>Proceedings of the National Academy of Sciences</i>

## Grant Support

### External

1983-1986	"Variation in furanocoumarin chemistry and resistance to insects in <i>Pastinaca sativa</i> (Umbelliferae)," National Science Foundation (\$110,000).
1983-1985	"Insecticidal and synergistic properties of secondary compounds in <i>Pastinaca sativa</i> , U.S.D.A. Competitive Grants Program (\$38,900).
1984-1989	Presidential Young Investigator's, National Science Foundation, Award (\$125,000 plus \$87,000 matching funds).
1984-1985	"Natural products as synergists of synthetic organic insecticides," Exxon Education Foundation (\$10,000, with \$10,000 matching funds from N.S.F.).
1986-1988	"Parsnip webworms as selective agents on furanocoumarin chemistry in wild parsnips," National Science Foundation (with A. Zangerl) (\$111,025).
1987-1989	"Phototoxic plant defensive compounds and their modes of action," USDA Competitive Grants Program (with R. Larson and R. Tuveson) (\$100,000).
1988-1991	"Furanocoumarins as selective agents on parsnip webworm physiology and behavior," National Science Foundation Ecology Program (with A. Zangerl) (\$210,000).
1989-1992	"Effects of ozone loss on <i>Citrus</i> and its associated herbivores and pathogens" USDA Competitive Grants Program (with R. Larson and R. Tuveson) (\$200,000).
1990-1993	"Characterization and cloning of cytochrome P-450 monooxygenase genes involved in adaptation of specialist insects to their host plants" Biotechnology Research and Development Corp. (with M. Schuler) (\$392,400).
1991	Research Experience for Undergraduates. National Science Foundation (supplement) (\$10,000).
1992-1995	"Cost of resistance in parsnip webworms and wild parsnips." National Science Foundation (w/ A. Zangerl) (\$287,440).
1992	Research Experience for Undergraduates. Natural Science Foundation (supplement) (\$5,000).
1993-1996	"Regulation of xanthotoxin-metabolic cytochrome P450 genes in <i>Papilio</i> species" USDA (with M. Schuler) (\$200,000).
1994	Research Experience for Undergraduates, National Science Foundation (Supplement) "Effects of herbivory on parsnip/pollinator interactions" (\$4,145).
1995-1996	"Parsnip webworms as selective agents on primary metabolites of wild parsnips," (with A. Zangerl), National Science Foundation (\$97,240).
1995-1996	"Antioxidant content of soybean honey" (with Gene Robinson and Laurien Unnevehr), State of Illinois Value-Added Research Program (\$30,000).
1996-1999	"Transcriptional regulatory cascades mediating induction of insect CYP6B genes" (M. Schuler PI) USDA Entomology (\$180,000).
1996-1999	"Parsnip webworms as selective agents on primary metabolites of wild parsnip" (with A. Zangerl), National Science Foundation Ecology (\$260,000).
1996-1999	"Functional significance of variation in CYP6B4 in <i>Papilio glaucus</i> " (w/ M. Schuler) National Science Foundation Ecological and Evolutionary Physiology (\$160,000).
1996-1997	"Honey and enzymatic browning of fruits and vegetables," (w/ G. Robinson and N. Engeseth) (\$18,000).
1998-2000	"Functional genomics," Keck Foundation, (one of 12 co-PIs: H. Lewin, PI) (\$1,250,000).

1999-2002 "Chemical phenotype matching in wild parsnips and parsnip webworms: causes and consequences" National Science Foundation Ecology Program (w/A. Zangerl) (\$305,340).

1999-2002 "Substrate specificity and inducibility of CYP6B8 from *Helicoverpa zea*" USDA NRICGP Entomology Program, (w/ M. A. Schuler) (\$145,715).

2000 Proposal for Innovation Funds, CRGAM/PAS, Chemical Ecology Workshop: Current Status and Future Needs. NPL sponsors: Mary Purcell-Miramontes, Steve Yaninek, Mike O'Neill, and Edward Kaleikau (\$10,000).

1999-2000 "Isolation and characterization of natural antioxidants from honeys of different floral sources," (N. Engeseth PI; M. Berenbaum co-PI), National Honey Board (\$69,340).

2000 Sloan Foundation, Chemical Ecology Workshop (\$3,000).

2001-2004 USDA NRI Entomology, Molecular definition of P450s mediating multiple resistances in *Helicoverpa zea* (M. A. Schuler PI, MRB co-PI) (\$250,000).

2002-2005 National Science Foundation Ecological and Evolutionary Physiology, "Evolution of CYP6B genes associated with furanocoumarin metabolism in the *Papilio glaucus* group" (\$250,000).

2002-2005 National Science Foundation Ecology Program, "Phenotype matching and trophic complexity in the wild parsnip-parsnip webworm interaction," (w/ A. Zangerl) (\$300,000).

2002-2005 National Science Foundation, Ecological and Evolutionary Physiology, "Herbivory and photosynthesis under elevated atmospheric CO<sub>2</sub>," (E. DeLucia PI; one of 4 co-P.I.s) (\$585,000).

2002-2005 USDA-NRI, Entomology Program, Effects of CO<sub>2</sub> and ozone on herbivory in soybeans (E. DeLucia P.I. one of 4 co-P.I.s) (\$200,000).

2003-2006 National Science Foundation, Ecological and Evolutionary Physiology, "Tritrophic effects of furanocoumarins on the parasitoid *Copidosoma sosares*," NSF EEP (P. Ode PI, M. Berenbaum co-PI), (\$330,000) (MRB share \$104,140).

2003-2006 U.S. Department of Education, European Community-United States Cooperative Program, "SUSPROT: Sustainable Crop Protection in Agriculture"  
Partners: Pennsylvania State University, University of California at Davis, CA; University of Illinois at Urbana-Champaign, IL; Gembloux Agricultural University, BE; Universität Hohenheim, DE; Wageningen University and Research Center, NL; Institut National Agronomique Paris-Grignon, FR (Gary Felton, Pennsylvania State University, PI) (\$204,000).

2004-2007 US Department of Energy, Genomic Regulation of Ecosystem Responses to Elements of Global Change (PI's alphabetically: Berenbaum, Bohnert, DeLucia, Fitzhugh, Long, Ort). \$2,984,356

2006 California State Beekeepers' Association "Novel approaches to managing fluvalinate resistance in *Varroa destructor* through specific inhibitors of insecticide-metabolizing enzymes," \$10,900

2006-2007 NSF IBN—SGER: Role of cytochrome P450 in chemosensory mediation of oviposition in *Papilio polyxenes*," \$97,418

2006-2007 NSF DEB OPUS: From the Tangled Bank to Genbank: Multi-scale Approaches to Insect-plant Interactions, \$108,000

2006-2008 NSF DEB—SGER: A unique opportunity to document chemical coevolution following reassociation between introduced weeds and a specialist moth, \$17838

2007 USDA Critical Research Initiative, Colony Collapse Disorder (S. Ratcliffe PI, w/ Gene Robinson), \$60,000

2007-2010, Environmental Impact and Sustainability of Feedstock Production Energy Biosciences Institute, E. DeLucia PI (\$300,900 to MB, one of 4 co-PIs)

2007-2010 USDA NRI: Toxicogenomics of *Apis mellifera* (w/ M.A. Schuler), \$340,000

2008-2010 NSF DEB: Consequences of selection by a specialized florivore on chemical defense and attraction in *Pastinaca sativa* (with A. Zangerl), \$348,071

2008-2010 Energy Biosciences Institute (PI E. DeLucia, Berenbaum portion \$100,300 annually)

2009-2010 Almond Board of California, Identifying cytochrome P450 detoxification enzymes in navel orangeworm responsible for insecticide and hostplant chemicals, \$12,000

2011-2015 USDA AFRI: Regulation of detoxification of natural and synthetic toxins in *Apis mellifera* (with M.A. Schuler), \$451,014

2011-2012 California Pistachio Research Board, "Identifying enzymes in navel orangeworm (NOW) responsible for detoxifying insecticides and hostplant chemicals," \$20,000

2011-2014 Genomics of navel orangeworm *Amyelois transitella*. California Almond Board, \$41,000 (with Hugh Robertson and Joel Siegel)

2011 Tyler Prize for Environmental Achievement (\$200,000)

2012 California Pistachio Research Board, "Determining the route of detoxification of insecticides used to control navel orangeworms in tree nuts," \$35,000

2013 Pistachio Board of California, "Identifying enzymes in navel orangeworm (NOW) responsible for detoxifying insecticides and hostplant chemicals," \$35,000

2014-2015 Almond Board of California, "Detoxification of insecticide combinations by navel orangeworms resistant to pyrethroid insecticides," \$35,000

2014-2015 Pistachio Board of California, "Determining the route of detoxification of insecticides used to control navel orangeworm in tree nuts," \$35,000

2014 USDA AFRI Conference Grant: 30<sup>th</sup> meeting of the International Society of Chemical Ecology July 2014, \$12,000

2015-2016 California Pistachio Board, Detoxification of insecticides individually and in combinations in navel orangeworm populations resistant to pyrethroid insecticides, \$45,000

2015-2016 Almond Board of California, Detoxification of insecticides individually and in combinations in navel orangeworm populations resistant to pyrethroid insecticides \$30,000

2015-2018 National Science Foundation DEB, "Genetic parallelism and allele reuse in herbivore-plant chemical phenotype matching," \$699,999 (with M.A. Schuler)

2016-2018 National Honey Board "Use of honey phytochemicals as honey bee "nutraceuticals" to boost pesticide detoxification" (\$60,000)

2016-2017 California Pistachio Board, Developmental and environmental impacts on pesticide detoxification in navel orangeworm (*Amyelois transitella*), \$35,000

2016-2017 Almond Board of California, Effects of fungicides on honey bee metabolism of dietary phytochemicals, \$60,000

2017-2020 USDA-AFRI, "Impact of honey phytochemicals on honey bee health, \$474,000

2018-2019 California Pistachio Board, Monitoring and overcoming pesticide resistance in navel orangeworm (*Amyelois transitella*), \$40,000

2018-2019 North American Pollinator Protection Campaign Honey Bee Health Improvement Grant, Sublethal effect of tank-mix pesticides in combination with honey phytochemicals on queen cell nursing behavior and queen quality, \$10,000

2018-2019 Almond Board of California, Mitigating impact of almond pesticide applications with phytochemicals of almond honey on honey bees, \$71,686

2018-2019 Almond Board of California, Effects of altered lipid metabolism associated with pyrethroid resistance on responses to diacylhydrazine and diamide pesticides and other forms of management of navel orangeworm *Amyelois transitella*, \$45,115

2019-2020 California Pistachio Research Board, Chemical and physical characteristics of pistachio hull split associated with infestation by navel orangeworm (*Amyelois transitella*), \$35,000

#### *Internal*

1980 "Relationship between plant chemistry and insect herbivory in the Umbelliferae," UIUC Research Board (\$10,000).

1981 "Adaptation to tannins by swallowtail butterflies," UIUC Biomedical Research Council (\$3,000).

1982 "*Conium maculatum* alkaloids: potential barriers to insect herbivory," UIUC Research Board (\$1,077).

1983 "Photoreactions of furanocoumarins with cell membrane lipids," UIUC Research Board (with R. Larson, Inst. Env. Studies) (\$5,000).

1984 "Phototoxicity and detoxification of furanoquinoline alkaloids in the swallowtails (Lepidoptera: Papilionidae)," UIUC Research Board (\$8,000).

1987 "Chemical ecology of tree of heaven (*Ailanthus altissima*) and the ailanthus webworm (*Atteva punctella*) (with D.S. Seigler, Dept. Plant Biology), UIUC Research Board (\$3,532).

1991 Equipment award to supplement USDA project "Effects of ozone depletion on Citrus and its associated herbivores and pathogens" (with R. Tuveson and R. Larson) UIUC Research Board (\$4,000).

1994 "Cytochrome P450s in plant/insect interactions" (with M. Schuler), UIUC Research Board (\$10,000).

1995 "Modelling plant/herbivore interactions" (S. Portnoy, PI), UIUC Research Board (\$25,000).

1997-1998 "Phylogenomics: a new initiative to explore the fundamentals of life," UIUC Critical Research Initiative, (one of 12 co-PIs: Harris Lewin, PI) (\$200,000).

1998-1999 "Olfactory receptors of insects," UIUC Critical Research Initiative, (one of 7 co-PIs: H. Robertson, PI) (\$200,000).

- 1999-2001 "Functional consequences of herbivory for plant production," UIUC Critical Research Initiative, (one of 5 co-PIs; E. Delucia, PI) (\$169,156).
- 2001-2002 Invasive insects in the Midwest, University of Illinois at Urbana-Champaign / Illinois State Scientific Surveys Workshop to Develop Joint Research Projects Application for Funds; (R. Wiedenmann, co-PI) (\$4,000).
- 2001 Evolution and function of *CYP6B* genes within the *Papilio glaucus* group, UIUC Research Board, (M. Schuler co-PI) (\$15,138).
- 2006 "Cytochrome P450s in *Apis mellifera* (honey bee), UIUC Research Board, \$5000
- 2009 Beespotter in the Classroom and Community, UIUC Community Informatics Initiative, \$6000
- 2010 UIUC Public Engagement—Pollinarium Online (\$20,000); Infrastructure (\$10,000)
- 2010 UIUC Community Informatics: Beespotter (\$10,000)

### Scholarships and Fellowships

- 1971-75 National Merit Scholarship, Yale University
- 1973 National Science Foundation Undergraduate Research Participation Grant, Summer, Duke University
- 1975-78 National Science Foundation Predoctoral Fellowship, Cornell University
- 1980 Summer Fellowship, Cornell University

### Invited Symposia

- 1980 Discussant, Gordon Research Conference, "Plant-herbivore interactions," Santa Barbara, CA.
- 1981 Symposium, "Plant-Animal Interactions: Herbivory and dispersal," AIBS meeting, Bloomington IN.
- 1983 Speaker, Gordon Research Conference, "Plant-Herbivore Interactions," Ventura, CA; Speaker, Sixth Annual Workshop--Biological Systems Simulation Group, UIUC; Speaker, Midwest Population Biology Conference, UIUC, IL.
- 1984 Symposium, "The biochemical interactions of plants with other organisms," Phytochemical Society of America, Boston, MA; Symposium "Indirect effects of plant allelochemicals on insect herbivores," XVII International Congress of Entomology, Hamburg, Germany; Symposium, "Insect-plant interaction: mechanisms promoting evolutionary stability," Eastern Branch Meeting, Entomological Society of America, Hershey, PA.
- 1985 Symposium, "Reductionism and holism in biology," University of Ottawa, Ontario, Canada; Symposium "Chemical mediation of coevolution," AIBS, Gainesville, FL; Symposium, "Allelochemicals: role in agriculture forestry and ecology," American Chemical Society, Chicago, IL.
- 1986 Symposium, "Light Activated Pesticides," American Chemical Society, Anaheim, CA; Speaker, California Dept. of Food and Agriculture Entomology Conference, Sacramento, CA; Symposium, "Plant stress-insect interactions," Entomological Society of America, Reno, NV.
- 1987 Symposium, "Phytochemical aspects of coevolution between plants and animals," International Botanical Congress, Berlin, Fed. Rep. Germany; Symposium, "Public Attitudes Toward Insects"; Symposium, "Quantitative genetic of plant-insect interactions"; Symposium honoring R.L. Metcalf, Entomological Society of America, Boston, MA.
- 1988 Symposium, "Pesticides of plant origin," Third Chemical Congress of North America, Toronto, Ontario, Canada; Symposium, "Genetics, evolution and coordination of insect life cycles," and , "Phytochemical contributions to insect-plant relations"; XVIII International Congress of Entomology, Vancouver, BC, Canada; Symposium, Midwest Population Biology Conference, University of Wisconsin, Madison, WI
- 1989 Symposium, North Central Branch Entomological Society of America, Indianapolis, IN; Symposium "Molecular insect science," Center for Insect Science, University of Arizona, Tucson, AZ (paper delivered by Judith Willis); 7<sup>th</sup> International Insect-plants symposium, Budapest, Hungary; International Society of Chemical Ecology, Gothenburg, Sweden; Symposium "Mechanisms of insect detoxication," Ecological Society of America, Toronto, Ontario, Canada (paper delivered by A. Zangerl); Symposium, Chemical Aspects of Plant-microorganism, Plant- Insect and Plant-Plant Interactions," International Chemical Congress of Pacific Basin Societies, Honolulu, HI; Symposium, "Biochemical strategies of offense and defense of the plant-insect interface," Entomological Society of America, San Antonio, TX.
- 1990 Symposium, "Naturally occurring photosensitizers: their role in nature and in human life," Am. Soc. Photobiology, Vancouver, B.C., Canada (paper delivered by R. Larson); Symposium "Life history evolution: theories and tests," and Symposium, Biology of Papilionidae, INTECOL Meetings, Yokohama, Japan (papers delivered by H. Dingle and R. Lederhouse); Conference, "The Future of Research Libraries," American Academy of Arts and Sciences, Chicago, IL.
- 1991 Plenary speaker, Midwest Population Biology Conference, DeKalb, IL, Oct. 25; Symposium "The insect gut," Entomological Society of America, Reno, NV; speaker, Plenary Session, E.S.A., Reno, NV.

- 1992 Plenary speaker Gordon Research Conference, "Plant-Herbivore Interactions," Oxnard, CA; Midwest Cytochrome P450 Symposium, "Genes to Heme," Purdue University, W. Lafayette, IN; Formal teaching symposium, Entomological Society of America, Baltimore, MD.
- 1993 Symposium, "Environmental chemistry and chemical ecology," Institute for Environmental Studies, UIUC; Symposia, "Host-parasite evolution" and "Oxidative stress and antioxidant mechanisms," Entomological Society of America, Indianapolis, IN.
- 1994 Symposium, "Chemical Ecology," National Academy of Sciences, Washington, DC; Symposium, "Chemical Sourcing in the Tropics," Symposium, "Entomology in the Land Grant University System," Entomological Society of America, Dallas, TX: Founder's Memorial Award Address.
- 1995 Speaker, Plant-Herbivore Interactions Gordon Conference, Oxnard, CA; Plenary speaker, Charles Valentine Riley Centennial, Dept. Entomology, University of Missouri—Columbia; Vice Presidential Symposium, "Evolution of specialization," American Society of Naturalists/Society for the Study of Evolution, Montreal, Quebec; Symposium, "Phytochemical redundancy," Phytochemical Society of North America, Saulte Ste. Marie, Ontario; Symposium, "Genes to heme," Midwest Cytochrome P450 Symposium, Purdue University, West Lafayette, IN, Sept. 15; Speaker, Third International Symposium on Cytochrome P450 Biodiversity, Woods Hole, MA, Oct. 8-12.
- 1996 "Six-legged chemists," Center for Advanced Study Lecture, University of Illinois at Urbana-Champaign, IL, Sept. 18; Plenary speaker, Association of Zoo and Aquarium Docents Annual Meeting, St. Louis, MO, Oct. 5; Tex Frazier Lecturer, American Society of Horticultural Science Annual Meeting, Lexington, KY, Oct. 6 ("Plant secondary metabolites: who, what, when, where, and why"); Informal conference on insect nutrition, Entomological Society of America, Louisville, KY.
- 1997 Symposium, "Good Ideas Gone Bad—Fakes, Frauds and Mistakes in Pest Control," Teaching Conference, Entomological Society of America; R.H. Nelson, Dec. 15-16.
- 1998 Third Gordon Research Conference on Carotenoids, Ventura, CA, Jan. 25-29; Gordon Research Conference on Natural Products, Henniker, NH, July 6; Plenary speaker, "Chemical ecology in bioprospecting," American Society for Pharmacognosy, Orlando, FL, July 20; Sean Duffey Memorial Symposium, Entomological Society of America, Las Vegas, NV, Nov. 10
- 1999 Departmental Centenary Lecturer, Dept. Entomology, Texas A & M University, College Station, TX, March 4; Life history phylogenetics, Section B Symposium, Entomological Society of America, Atlanta, GA, Dec. 12; Plenary speaker, Australian Entomological Congress, Canberra, Australia, Oct. 1; Plenary speaker, Coevolution Symposium, Missouri Botanical Garden, St. Louis, MO, Oct. 9; Symposium, "Intersection of phylogenetics, behavior and life history evolution," Entomological Society of America, Dec. 14.
- 2000 Sondheimer-Simeone Lecturer, International Society for Chemical Ecology, Pocos de Caldas, Brazil, Aug. 11; History of Entomology Symposium, Entomological Society of America, Dec. 6, (prepared text presented by Carol Sheppard due to schedule conflict).
- 2001 Ralph Mumma Symposium, American Chemical Society, Chicago, IL, Aug. 27.; Plenary address, Entomological Society of Canada/JAM Entomological Society of Ontario, Niagara Falls, Ontario, October 22, 2001
- 2002 Plenary lecture, Nalbandov Symposium: A Celebration of Biocomplexity and Biodiversity, co-organizer with J. Cheeseman and C. Shearer, University of Illinois, Urbana, IL, Feb. 9; Plenary Session, Entomological Society of America, "A golden anniversary—fifty years of plant/insect interactions at the Entomological Society of America," Ft. Lauderdale, FL, Nov. 17.
- 2003 Buggy Love: A Celebration of the Life and Work of Thomas Eisner, New York University Institute for the Humanities, New York, NY, Nov. 20
- 2004 Distinguished Speaker, Life Sciences Week, University of Missouri, Columbia, MO, April 4-9, 2004; Symposium, The Teaching of Evolution, Society for the Study of Evolution, Boulder, Colorado, June 28, 2004; Plenary Session—Public Lecture, International Congress of Entomology, Brisbane, Australia (plus 2 symposium talks); 2004 Keynote address, "Spatial data and ecological inquiry," National meeting, Partnerships for Enhancing Expertise in Taxonomy. Allerton Park, Monticello, IL, Sept. 22, 2004; Musquitos V erry Troublesom'—The Insects of Lewis and Clark," Illinois Mosquito and Vector Control Association, November 18, 2004, Champaign, IL
- 2005 "Understanding complex systems" Symposium, "Complexity in a cornfield," University of Illinois at Urbana-Champaign, May 16, 2005; International Society of Chemical Ecology, Plant-insect symposium, July 27, 2005, Washington, DC; Robert MacArthur Plenary Lecture, Ecological Society of America/INTECOL meeting, Montreal, Quebec, Canada, August 8, 2005; Keynote address, "Pollinators, politics, and policies," North American Pollinator Protection Campaign annual meeting, National Zoo, Washington DC October 19, 2005 Department of Entomology Centennial Celebration, University of

- Arkansas, Fayetteville, Arkansas September 29, 2005; Keynote address, “Pollinators, politics, and policies,” North American Pollinator Protection Campaign annual meeting, National Zoo, Washington DC October 19, 2005; Glaser Symposium series, Department of Biological Sciences, Florida International University, Miami, FL December 12-16
- 2006 Max Planck Institute of Chemical Ecology, Biannual Symposium, Plenary Speaker, March 20, 2006 (plenary speaker); Royal Entomological Society, London England, Annual meeting banquet speaker May 3; Insect Molecular Science symposium, Center for Insect Science, University of Arizona, Tucson, AZ, May 22, 2006; Plenary welcome address, International Union for the Study of Social Insects, Washington DC, July 30, 2006 Entomological Society of America national meeting Indianapolis, IN December 2006: symposia “History of Women in Entomology,” and “Entomology Departments in the 20<sup>th</sup> and 21<sup>st</sup> Centuries”
- 2007 Gordon Conference on Plant-Herbivore Interactions, Ventura CA, February 18-24, evening speaker; Keynote speaker, University of Illinois Springfield Biology Symposium, April 20, 2007; Plenary, Society for Molecular Biology and Evolution, Halifax, Nova Scotia, June 27, 2007; Evolution of plant-insect interactions, International Society for Chemical Ecology, Jena, Germany, July 26. 2007: Yale University Charles Remington Memorial Symposium, November 9-10, 2007; American Academy November 10, 2007; Ent Soc Amer December 9-12)
- 2008 International Congress of Entomology, Durban South Africa July 6-12, 2008 (3 symposia scheduled): Entomological Society of America November 16-19, 2008, Reno, Nevada, IPMIS symposium, USDA NRI symposium, Darwin Symposium (“There Must Be A Moth”)
- 2009 USDA Agricultural Outlook Conference Pollination Symposium, Arlington VA February 27, 2009; “Darwin’s *Parsnips*,” Darwin Lecture, Columbia University, March 24, 2009; “Soylent Green + 25” AIBS annual meeting, May 19, 2009; XXII Italian Congress of Entomology, Ancona, Italy, June 15, 2009; Technologically modified Environment - Environmentally modified Technology National Academy of Sciences Karlsruhe Institute of Technology (KIT) October 12 – 16, 2009; Feeny Fling, Retirement Symposium for Paul Feeny Cornell University Ithaca NY October 17, 2009, Ecological Genomics Kansas City, MO November 13-15; Colleagues, Science and Ideas: Investigating Chemicals, Signals, and Interactions”, Entomological Society of America, December 12-15, 2009, Indianapolis, IN
- 2010 Keynote speaker, Gordon Conference on Plant-Herbivore Interactions, Galveston TX, Feb.21, 2010; Keynote, AFRI USDA Workshop, Washington DC (March 23, 2010); Keynote, Michigan Entomological Society, June 26, 2010; Keynote lecture, First International Conference on Pollinators, State College, PA, July 24, 2010; Keynote, Status of Pollinators; Past, Present, Future, North American Pollinator Protection Campaign, Washington, DC, October 20, 2010
- 2011 Keynote Lecture, International Symposium for Biological Control of Weeds, Waikoloa Beach, Hawaii, September 12, 2011; Education through Entertainment symposium, Entomological Society of America, Reno, NV, November 13, 2011; Citizen Science symposium, Entomological Society of America, Reno, NV, November 13, 2011; An Eisnerian view of nature symposium, Entomological Society of America, Reno, NV, November 13, 2011
- 2012 “Postcards from the edge of a leaf—life lessons from a little brown moth,” Frontiers in Life Sciences Symposium Cornell University, Ithaca, NY, April 2, 2012 Lepidoptera monitoring and inventory, symposium at Lepidopterists Society annual meeting, Denver, CO, July 26 2012; “You are what you tweet; communicating entomology 140 characters at a time,” Social media in entomology”, Social Media symposium, Entomological Society of America, Knoxville, TN, November 11, 2012
- 2013 October 24, 2013; “Bees and pesticides and gypsy moths,” Annual Gypsy Moth Review, Evanston, IL, November 5, 2013; Entomological Society of America Annual Meeting, Austin, TX: “Does the honey bee risk cup runneth over”? P-IE Section Symposium: Beyond the LC50: Advancements in Toxicological Research on Pollinators, November 10, 2013; “Impacts of landscape-scale conversion to bioenergy crops on microlepidopteran diversity: Biofuels and LBMs”, P-IE Section Symposium: Biofuel Cropping Systems: Connecting Beneficial Arthropods, Ecosystem Services, and Landscape Effects, November 12, 2013; “Farming out pharmacology: Symbiont detoxification of phytochemicals,” “P-IE Section Symposium: The Effect of Microbes on Insect-Plant Interactions, November 12, 2013; You are what you eat: honey and the honey bee,” P-IE Section Symposium: Connecting Research, Outreach and Regulatory efforts to Protect Honey Bee Health, November 12, 2013

- 2014 “Honeybee cytochrome P450s: how a 6-million-year-old genome copes with pesticide-intensive modern agriculture” in the Biochemical Society/British Ecological Society/Society for Experimental Biology symposium “Impact of Pesticides on Bee Health” January 22-24, London, England; Why not extinction? Keynote lecture, Peggy Notabaert Museum, May 29, 2014; “From entomophobe to entomophile,” Field Museum, Chicago, IL, June 2, 2014; Plenary, “Honey bee risk cup: estimating aggregate exposures to pesticides,” IUPAC Congress, San Francisco, CA, August 10-14, 2014; Plenary, “Predicting the future challenges for entomology; lessons from the past,” 50<sup>th</sup> annual meeting of the Australian Entomological Society, September 29, 2014; Member symposium, “Honey; superfood for bees and people,” Nutrition health and behavior of wild and managed bees, Entomological Society of America, November 16, 2014
- 2015 Keynote, “Examining the Environmental Effects of Practices for Controlling Agricultural Pests (you can’t win)”, Workshop on Comparing the Environmental Effects of Pest Management Practices Across Cropping Systems, Board on Agriculture and Natural Resources, National Academy of Sciences, Washington DC, March 5, 2015 (via Webex); Phytochemical Society of North America, Honey bees as phytochemists: how pollen and nectar are converted into beebread and honey, Urbana, IL, August 10, 2015; “Pollinators and CYP blooms,” Asia-Pacific Association of Chemical Ecologists,” Anaheim, CA, September 28, 2015; Plenary, Sigma Xi Annual meeting, John P. McGovern Award Lecture, Kansas City, MO, October 24, 2015; “*Apis mellifera*: can a 6-million-year-old genome survive the Anthropocene?” Keynote, Entomological Society of Canada annual meeting, Montreal, Quebec, November 11, 2015; Member symposium “CCD: Eight years later,” Entomological Society of America annual meeting, Minneapolis, MN, November 15, 2015; White House Executive Office Transportation Leaders Pollinator Summit, Washington DC, December 3, 2015;
- 2016 Eastern Branch annual meeting Entomological Society of America, Presidential address, Philadelphia, PA, January 6, 2016; Southwestern Branch annual meeting Entomological Society of America, Presidential Address, Tyler, TX, February 23, 2016; Pacific Branch, Honolulu, HI April 4, 2016; Plenary, “Big and small bugs on the big and small screen,” Pacific Branch ESA, Honolulu, HI April 4, 2016; North Central Branch Entomological Society of America annual meeting, Cleveland, OH, June 16-17, Presidential plenary; “Do pollinators need their 5-a-day?”, “Mosquito screens—insects in movies and TV”; Entomological Collections Network, Orlando, FL, September 24, 2016; Opening and closing plenaries, International Congress of Entomology, Orlando, FL, September 25, 30, 2016
- 2017 Annual Research Day, Environmental and Molecular Toxicology Program, Keynote, “Insects and wild parsnips: arms races and peace treaties”, January 20, 2017, Oregon State University, Corvallis, OR; Plenary Address, “Can Science Save the Honey Bees?” Annual meeting, American Association for the Advancement of Science, Boston, MA. February 18, 2017; “The sweet stench of death,” Lecture and workshop, Midwest Ecology and Evolution Conference, March 19, 2017; “Human impacts on insect affairs—turnabout is not fair play,” Jane and Whitney Harris Lecture, Missouri Botanical Garden, St. Louis, MO, March 23, 2017; Symposium in honor of Rachel Galun, Israeli Entomological Society, Volcani Center, Rishon LeTsiyon, Israel, October 18, 2017; “Genomic footprint of eusociality in bees: floral foods and CYPome “blooms”, PBT Section Symposium: Protecting bee pollinators with comparative toxicology and functional genomics”, Entomological Society of America annual meeting, Denver, CO, November 5, 2017; “How to bug a conversation,” Igniting the Spark through Science Communication symposium, Entomological Society of America annual meeting, Denver, CO November 7, 2017; American Chemical Society Midwest Region annual meeting, College of DuPage, Naperville, IL
- 2018 Uniting Infection Biology for One Health, UIUC Sesquicentennial Symposium, panel leader, April 11, 2018; “A Review of Citrus Greening Research and Development Foundation: Fighting a Ravaging Disease,” Webinar, National Academy of Sciences, May 1, 2018; “In my DNA”, Arthropod Genomics Symposium, Urbana, IL; “Pets, not pests”, Human-Animal Institute, Center for Advanced Studies, Urbana, IL, July 10; “Bees and pesticides” Heartland Apicultural Society, St. Louis, MO (also two panels: Pesticides in Agriculture and Future Technologies for Beekeeping), Washington University, July 12-14, 2018; 18<sup>th</sup> Annual North American Pollinator Protection Campaign International Conference, “Sublethal effects of tank-mix pesticides in combination with honey phytochemicals on queen cell nursing behavior and queen quality,” USDA, Washington, DC, October 17, 2018. “Darwin’s parsnips: rapid coevolution between an invasive weed and a specialist caterpillar,” Member Symposium: Rapid Evolution in Biological



- Control, Entomological Society of America/Entomological Society of Canada, Vancouver, BC, November 9, 2018;
- 2019 “The buzz about bees in the news (and other accompanying bee-labored puns”, Amplify the Signal—Science and Sci-Comm Workshop, University of Illinois at Urbana-Champaign, May 14-15, 2019; Honey bees and the four Ps—P450s, p-coumaric acid, pathogens, and pesticides,” Society for Toxicologic Pathology Annual Symposium, Raleigh, NC, June 25, 2019; North American Pollinator Protection Campaign, October 24, 2019; Plenary lecture, Decline and fall of Class Insecta: update on the Insect Apocalypse, Sigma Xi annual meeting, Madison WI, November 15, 2019; “The Insect Apocalypse: death, decline, or delusion? Entomological Society of America, St. Louis, MO, November 19, 2019; “ Watch your language, or “Does grammar and spelling matter?” American Geophysical Union, December 6, 2019
- 2020 American Beekeeping Federation, American Bee Research Conference, American Association of Professional Apiarists (joint meeting), Keynote , Keynote,

### Invited Talks

- 1977 Trent University, Dept. of Chemistry seminar (Peterborough, Ontario).
- 1980 University of Illinois at Urbana-Champaign, Dept. of Entomology Seminar.
- 1981 University of Iowa (Iowa City, IA) Dept. of Botany Seminar; Illinois State University (Bloomington-Normal, IN) Dept. of Biological Science seminar.
- 1982 University of Wisconsin (Madison, WI) Dept. of Entomology seminar.
- 1983 Seminar, Arizona State University, Dept. of Zoology, Tempe, AZ; Northern Arizona University, Dept. of Biological Sciences, Flagstaff, AZ; T. Gunderson Memorial lecturer, Iowa State University (Ames, IA), Dept. of Entomology; Dept. of Entomology, Kansas State University, Manhattan, KS; Dept. of Entomology, University of Maryland, College Park, MD.
- 1984 American Chemical Society Peoria Chapter, Peoria, IL; Dept. of Entomology, University of Delaware, Newark, DE and DuPont Chemical Corp. Newark, DE; Institute of Ecology, University of California at Davis, CA; Zoological Institute, University of Stockholm, Sweden; Dept. of Biology, Penn State University, State College, PA; Dept. of Biology, University of Michigan, Ann Arbor, MI; Dept. of Horticulture, UIUC, IL; Genetic Engineering Seminar, UIUC, IL; Dept. of Entomology, UIUC, IL.
- 1985 Invited instructor, Naturalist-Ecologist Training Program, University of Michigan Biological Station, Pellston, MI; Dept. of Biological Sciences, University of Cincinnati, Cincinnati, OH; Dept. of Entomology, Ohio State University, Columbus, OH; Dept. of Biology, University of Pennsylvania, Philadelphia, PA; Section of Ecology and Systematics, Cornell University, Ithaca, NY; Dept. of Entomology, Colorado State University, Ft. Collins, CO; Dept. of Biology, University of Oregon, Eugene, OR; Dept. of Biology, Northern Illinois University, DeKalb, IL; Dept. of Plant Science, University of British Columbia, Vancouver, BC Canada; Dept. of Zoology, University of Washington, Seattle, WA.
- 1986 Dept. of Biology, University of Missouri-Columbia, Columbia, MO; Dept. of Biology, University of Illinois-Chicago, Chicago, IL; Dept. Neurobiology and Behavior, Cornell University, Ithaca, NY; Dept. Entomology, Purdue University, W. Lafayette, IN; Dept. of Biology, Western Illinois University, Macomb, IL; Dept. Chemistry, Colorado State University, Ft. Collins, CO; Dept. Biology, Princeton University, Princeton, NJ; Dept. of Biology, Rutgers University, Piscataway, NJ; Dept. Entomology, University of California, Davis, CA.
- 1987 Dept. of Biology, Harvard University, Cambridge, MA; Dept. of Entomology, University of Massachusetts, Amherst, MA; Depts. Ecology and Behavioral Biology and Entomology, University of Minnesota, Minneapolis, MN; Dept. Biochemistry, University of Nevada, Reno, NV; Dept. Biology, University of Arizona, Tucson, AZ; Depts. Biology and Entomology, University of Kentucky, Lexington, KY; Dept. Entomology, Michigan State University, East Lansing, MI.
- 1988 Dept. of Entomology, NC State Univ, Raleigh, NC; Dept. Zoology, Duke Univ, Durham, NC; Dept. Biology, University of South Carolina, Columbia, SC; Dept. Ecology and Evolutionary Biology, University of California, Irvine, CA; Dept. Entomology, University of California, Riverside, CA; Dept. Entomology, Louisiana State University, Baton Rouge, LA; Ohio Agricultural Research Development Center and Dept. Entomology, Ohio State University, Wooster and Columbus, OH; Midwest Horticultural Inspection Society, Champaign, IL; Dept. Zoology, University of Texas, Austin, TX.
- 1989 Dept. Biology, University of Missouri, St. Louis, MO; Dept. Ecology and Evolutionary Biology, State University of NY, Stony Brook, NY; Dept. Biology Indiana University, Bloomington, IN; Dept. Chemistry, Cornell University, Ithaca, NY.

- 1990 Dept. Biology, Harvard University, Cambridge, MA; Midwest Conference of Parasitologists/Midwest Tropical Disease Research Conference, UIUC, IL; Illinois State Beekeepers Association, Champaign, IL; Dept. Biol. Sciences, Illinois State University, Normal, IL.
- 1991 Dept. Ecology and Evolutionary Biology, Princeton University, Princeton, NJ; Dept. Biological Science, DePauw University, Greencastle, IN; Dept. Biology, University of Miami, Coral Gables, FL.
- 1992 Bell Laboratories, Murray Hill, NJ; Distinguished Ecologist Series, Program in Ecological Studies, Colorado State University, Ft. Collins, CO.
- 1993 Dept. Biology, Yale University, New Haven, CT; Invitational Lecture Series, Allied Signal Inc., Des Plaines, IL; Dept. of Ecology and Evolutionary Biology, University of Chicago, Chicago, IL.; Eminent Ecologist, Kellogg Biological Station, Hickory Corners, MI; Dept. Entomology, University of Wisconsin, Madison, WI; Science Colloquium, Illinois Wesleyan University, Bloomington, IL; Dept. Biological Sciences, Indiana University, Bloomington, IN.
- 1994 Wake Forest University, Distinguished Lecturer Series, Winston-Salem, NC; Florida Entomological Society, Hutchinson Island, FL.
- 1995 Buffalo Museum of Science, Buffalo, NY; Dept. Biological Sciences, State University of New York, Buffalo, NY; Section of Ecology and Systematics, Cornell University, Ithaca, NY; Dept. Biology, Washington University, St. Louis, MO; Functional Foods for Health, University of Illinois, Chicago, IL; National Academy of Sciences Regional Meeting, University of Chicago, Chicago, IL.
- 1996 Entomological Society of Washington, Washington, DC; Dept. Entomology, University of Georgia, Athens, GA; Lucent Technologies, Murray Hill, NJ; Freund Foundation Lecturer, Dept. Biological Sciences, University of Missouri-St.Louis, St. Louis, MO.
- 1997 Division of Insect Biology, University of California, Berkeley, CA; Zoology Club, Eastern Illinois University, Charleston, IL; Ecology Center, Utah State University, Logan, UT; Distinguished Lecturer, College of Agriculture, Pennsylvania State University, University Park, PA; Dept. Biological Sciences, Western Michigan University, Kalamazoo, MI; 1960 Scholars Distinguished Lecturer, Williams College, Williamstown, MA.
- 1998 Sigma Xi lecturer, University of Illinois-Chicago, Chicago, IL, March 27; Environmental Horizons Conference, UIUC, IL, April 21; American Philosophical Society, Philadelphia, PA, April 25; Functional Foods for Health Annual Retreat, Monticello, IL, May 12; General Research Colloquium, Lucent Technologies, Murray Hill, NJ, June 19; Dept. Entomology, Purdue University, West Lafayette, IN, Sept. 10; Division of Biological Sciences Distinguished Lecture, University of Kansas, Lawrence, KS, Oct. 8; Hefner Life Science lecture, Miami University, Oxford, OH, Oct. 30.
- 1999 Texas A & M Centennial Lecturer, Dept. Entomology, Texas A & M University, College Station, TX, March 10; E.P. Catts Memorial Lecturer, Dept. Entomology, Washington State University, Pullman, WA, March 11; Dept. Entomology and Dept. Zoology joint seminar, Washington State University, Pullman, WA, March 12; Dept. Zoology, University of Washington, Seattle, WA, March 15; Jackson Lecture, Eureka College, Eureka, IL, April 15; Dept. Organismal Biology and Anatomy, University of Chicago, Chicago, IL, May 4; Capitol Science Lecturer, Carnegie Institution of Washington, Washington, DC, May 18; Weese Lecturer, Dept. Zoology, University of Oklahoma, Norman, OK, Oct. 13; Oklahoma Scholar Leadership Enrichment Program, University of Oklahoma, Norman, OK, Oct. 13-17; American Academy of Arts and Sciences Midwest meeting speaker, Oct. 23; Center for Advanced Study Round Table on Social Behavior in Humans and Insects, UIUC, IL, Oct. 26.
- 2000 Physiological and Molecular Plant Biology Program, UIUC, IL, recruiting symposium, Feb. 19; Dept. Biology, Simon Fraser University, Burnaby, BC, Canada, March 16; plenary address, "Invasion USA," Environmental Horizons, March 27; Dept. Entomology, Rutgers University, New Brunswick, NJ, March 31; Iscoll Lecturer, Cornell University, Ithaca, NY, April 13; LACE lecturer, Cornell College, Mt. Vernon, IA, May 11; Alfred Boyce Lecturer, Dept. Entomology, University of California, Riverside, CA, May 24; Ecology and Evolution speaker, University of California, Davis, CA, May 25 & 26; Central States Horticultural Association annual meeting, Lisle, IL, Oct. 24; UIUC Phi Beta Kappa chapter annual meeting, UIUC, IL, Nov. 8; Keck Center for Behavioral Biology, North Carolina State University, Raleigh, NC, Nov. 19.
- 2001 Darwin Lecture, Dept. Biological Sciences, University of Calgary, Calgary, Alberta, Canada, March 12; Entomology lecture, Dept. Biological Sciences, University of Edmonton, Alberta, Canada, March 15; Strickland Lecture, Dept. Biological Sciences, University of Edmonton, Alberta, Canada, March 16; Entomology Graduate Student Organization invited speaker, Dept. Entomology, Iowa State University, Ames, IA, April 2; Miller Lecturer, Iowa State University, Ames, IA, April 2; Food and Drug Administration Regional Testing Laboratory, Jamaica, Queens,

- Aug. 13; Dept. Biological Sciences (2 lectures), Southern Illinois University, Carbondale, IL, Oct. 11.
- 2002 Juanita Greer White Lecture, University of Nevada, Las Vegas, NV, March 18; Dept. Biological Sciences, University of Nevada, Las Vegas NV, March 19; Dept. Entomology, University of Arizona, Tucson, AZ, March 21; Jugatae, Dept. Entomology (cosponsored with Dept. Ecology and Systematics), Cornell University, Ithaca, NY, Nov. 25.
- 2003 Sackler Colloquium, Beckman Center, Irvine, CA, Jan. 19; USDA lecturer, USDA Beltsville, MD, Jan. 31; H.T. Cottle Lecturer, Sul Ross State University, Alpine, TX, March 27; Dept. Entomology, Pennsylvania State University, State College, PA, May 27; Distinguished Chemistry-Life Science Lecture, Virginia Commonwealth University, Richmond, VA, Nov. 12; Distinguished Life Science Lecture and Dept. of Ecology and Evolutionary Biology Lecture, Virginia Tech University, Blacksburg, VA, Nov. 14
- 2004 Darwin Day Lecturer, University of Wisconsin, Whitewater, WI, Feb. 12; Dept. Biological Sciences, Barnard College, New York, NY, March 25; Howard Hughs public lecture, Barnard College, New York, NY, March 25; U.S. Department of Education, European Community-United States Cooperative Program, "SUSPROT: Sustainable Crop Protection in Agriculture" Institut National Agronomique Paris-Grignon, Frederic Marion-Poll class lecture, April 13. 2004; Department of Ecology and Evolutionary Biology, University of Chicago, May 10, 2004
- 2005 G.G.E. Scudder Lecturer, Peter Wild Institute for Interdisciplinary Studies, University of British Columbia, Vancouver BC January 7, 2005; Dept. Entomology, University of Florida, Gainesville, FL, March 27. 2005; Charles Doane Memorial Lecture, University of Wisconsin, Madison, WI, April 1, 2005; Department of Entomology Centennial Celebration, University of Arkansas, Fayetteville, Arkansas September 29, 2005; Florida International University Life Science lecture series December 12-14, 2005
- 2006 Life Science Lecture Series, Elon College, March 1, 2006; University of Sheffield May 4; Sawicki Lecture, Rothamsted Research Station, Harpenden, May 5; Clarke Lecture, University of Wyoming, Laramie, Sept 7-8, 2006
- 2007 Council member research talk, National Academy of Sciences, February 7, 2007, Beckman Center, Irvine, CA; Department of Natural Resources and Environmental Sciences UIUC, March 2, 2007; Department of Entomology, UIUC, March 12, 2007; Department of Biological Sciences/ EpScor, University of Alaska, Fairbanks, AK, March 22, 2007; Plant Physiology and Molecular Biology, UIUC, September 5, 2007; Rutgers University (two seminars), New Brunswick, NJ September 14, 2007; Montreal Botanical Garden, September 25, 2007; Tufts, Department of Biological Sciences (2 seminars), September 27-8, 2007
- 2008 Athaeneum Series, Claremont College February 4, 2008; National Academy of Sciences Distinctive Voices series, Beckman Center, Irvine, CA February 6, 2008; Darwin Day, Idaho State University, Pocatello ID, February 14, 2008; Plenary lecture, Eastern Branch Ent Soc Amer, Syracuse NY March 10, 2008; Graham Lecture, University of Toronto, Toronto, Ontario CAN March 20, 2008; Department of Ecology and Evolution, University of California, Los Angeles, CA, June 4, 2008; Department of Biochemistry, Univesrsity of Nevada, Reno, Nov. 14, 2008
- 2009 Plant Biology Colloquium, UIUC, January 30, 2009; Darwin Day, Columbia University, New York, NY, March 24, 2009; Westbrook lecture, Wagner Free Institute of Science, Philadelphia, PA, March 28, 2009; Missouri Botanical Garden, St. Louis, MO, April 11, 2009; Paul Feeny retirement recognition (Feeny Fling), October 17, 2009 C. P. Alexander Lecture, University of Massachusetts, Amherst, MA, October 19, 2009; Department of Entomology, Michigan State University, East Lansing, MI; Sigma Xi lecture, Michigan State University November 2, 2009; Hageman Lecture, Dept. Biochemistry, Kansas State University, Manhattan KS November 16, 2009
- 2010 Dept. Biological Sciences, Washington University, St. Louis MO January 21, 2010; Michigan Entomological Society, Tustin Michigan, June 25, 2010; Seminar in Ecology and Evolution, University of Amsterdam, The Netherlands, September 23, 2010; Department of Entomology seminar, Virginia Tech, Blacksburg, VA, October 7, 2010; Entomological Society of America L. L. Langstroth symposium, December 12, 2010; Welcome address to new members, Entomological Society of America, December 12, 2010
- 2011 Environmental Protection Agency webinar, "Bees and pesticides," January 13, 2011; Big Ten Distinguished Lecture, Department of Entomology, University of Nebraska, Lincoln, NE, November 3, 2011; "The ABeeC's of CCD," luncheon lecture, Almond Conference, Modesto, CA, December 8, 2011
- 2012 Natural History Seminar, University of Chicago, Chicago, IL, January 10, 2012; A. Watson Armour Research Seminar, Field Museum of Natural History, January 11, 2012; Department of

- Plant Biology, Southern Illinois University, Carbondale, IL January 27, 2012; “Bees and technology,” Agricultural and Biological Engineering Department seminar, UIUC, March 16, 2012; Ned Ames Honorary Lecture, Cary Institute of Ecosystem Studies, Millbrook, NY, April 27, 2012; Dwight DeLong Distinguished Lecture, Ohio Agricultural Research and Development Center, Ohio State University, Wooster, OH, May 16, 2012
- 2013 Department of Entomology Centennial Speaker, Purdue University, West Lafayette, IN, March 21, 2013; Morrow Lecture, Western Illinois University, Macomb, IL; Department of Ecology and Evolution, University of Chicago, April 7, 2013; Roger M. Morrow Lecturer, Western Illinois University, Macomb, IL, April 4, 2013; Annual Ecology and Evolution graduate student retreat, Chicago Botanic Garden/University of Chicago, Chicago, IL, April 7, 2013; George S. Saul Lecture, Department of Biology, Middlebury College, Middlebury VT, September 20, 2013; Predicting the future of entomology—lessons from the past,” First Annual Richards-Hodson Lecture, Department of Entomology, University of Minnesota, St. Paul, MN, October 24, 2013; “Bees and pesticides and gypsy moths,” Annual Gypsy Moth Review, Evanston, IL, November 5, 2013; Entomological Society of America Annual Meeting, Austin, TX: “Does the honey bee risk cup runneth over”? P-IE Section Symposium: Beyond the LC50: Advancements in Toxicological Research on Pollinators, November 10, 2013; “Impacts of landscape-scale conversion to bioenergy crops on microlepidopteran diversity: Biofuels and LBMs”, P-IE Section Symposium: Biofuel Cropping Systems: Connecting Beneficial Arthropods, Ecosystem Services, and Landscape Effects, November 12, 2013; “Farming out pharmacology: Symbiont detoxification of phytochemicals,” “P-IE Section Symposium: The Effect of Microbes on Insect-Plant Interactions, November 12, 2013; You are what you eat: honey and the honey bee,” P-IE Section Symposium: Connecting Research, Outreach and Regulatory efforts to Protect Honey Bee Health, November 12, 2013
- 2014 Friday Seminar Programme, John Innes Plant Research Center, Norwich, UK, March 24, 2014; Rochester Community and Technical College Environmental Science Program, Bees in Crisis: Colony Collapse, Honey Laundering and Other Problems Bee-Setting American Apiculture, Rochester, MN, April 8, 2014; Storer Lectures, Department of Entomology, University of California at Davis, Davis, CA, May 20, 21, 2014; “Real-time evolution of tolerance in the invasive weed *Pastinaca sativa* after re-association with its specialist herbivore *Depressaria pastinacella*,” International Society for Chemical Ecology 30<sup>th</sup> annual meeting, Urbana, IL, July 10, 2014;
- 2015 30<sup>th</sup> Anniversary Ecology and Evolution Department National Academy Lecturer, University of Connecticut, Storrs, March 24, 2015; 10<sup>th</sup> Annual Rieveschl Lecture, Department of Biology, University of Cincinnati, March 25, 26 (two lectures); “How the honey bee makes honey, and how honey makes the honey bee,” Entomological Society of Washington annual meeting, Chevy Chase, MD, June 4, 2015; “The pollinator crisis: are America's bees, flies and butterflies on their last six legs?” and “Can science save the honey bee?”, Quad Cities Pollinator Conference, U.S. Forest Service, Rock Island, IL, June 10, 2015; 2015; “The A-Bee-Cs of pollinator K-3 education” Beginning STEM teachers conference, Champaign, IL, July 29, 2015; Thornton-Massa Lecture, “Insects and wild parsnips: coevolutionary arms races and peace treaties” Colorado State University, Ft. Collins, CO, November 1, “Applied bee-nomics,” Dept. Bioagricultural Sciences and Pest Management, November 2, 2015; AAAS Board lecturer, American Association for the Advancement of Science, Washington, DC, December 18, 2015
- 2016 O’Leary Distinguished Scientist Lecture, Gonzaga University, Spokane, WA, March 21, 2016; Biology Department, Gonzaga University, Spokane, WA, March 22, 2016; Symposium, Pollination, International Congress of Entomology XXV, Orlando, FL, September 25, 2016; Royal Ontario Museum, Toronto, Ontario, November 19, 2016; Grand Challenges Summit, International Congress of Entomology, Orlando, FL, September 28, 2016
- 2017 Entomology Program, “Buzz-kill-can the honey bee survive the 21<sup>st</sup> century?” Oregon State University, Corvallis, OR, January 19, 2017; American Chemical Society AGRO webinar “How to eat a plant—bees vs butterflies”, March 16, 2017; “The sweet stench of death,” Lecture and workshop, Midwest Ecology and Evolution Conference, March 19, 2017; Can the honey bee survive the 21<sup>st</sup> century?” Dept. Biology, California State University-Northridge, May 5, 2017
- 2018 “In my DNA”, 11<sup>th</sup> Annual Arthropod Genomics Symposium, University of Illinois, Urbana, IL, July 8, 2018; 18<sup>th</sup> Annual North American Pollinator Protection Campaign International Conference, “Sublethal effects of tank-mix pesticides in combination with honey phytochemicals on queen cell nursing behavior and queen quality,” USDA, Washington, DC, October 17, 2018.

2019

### **Symposia and Meetings Organized**

- 1983 Planning Committee for 1983 Midwest Population Biology Conference - UIUC
- 1984 National Meeting, Entomological Society of America, San Antonio, TX: Symposium "Insects and photoactive substances in plants"
- 1985 Planning Committee for 36th Annual Meeting of the Lepidopterists' Society – UIUC, IL
- 1986 Symposium coordinator, North Central Branch Meeting of the Entomological Association of America - Section C and organizer of the symposium, "Quantitative genetics in insect/plant interactions," Minneapolis, MN
- 1988 Symposium coordinator, XVIII International Congress of Entomology, Vancouver, B.C., Canada, "In honor of G.H.N. Towers - Phytochemical contributions to plant-insect relations"
- 1995 Vice Presidential Symposium, "Evolution of specialization," American Society of Naturalists, Montreal, Quebec, Canada
- 1996 (with Martin Feder), National Science Foundation Workshop, "Inducible responses to stress--interdisciplinary approaches," May 13-15
- 2000 (with Peter Smallwood), Society for Integrated and Comparative Biology, Atlanta, GA, Jan. 5-7, (co-organized but could not attend)  
Chemical Ecology Workshop: Funding Priorities and Directions for Research, 1-day meeting in Washington, DC, USDA CSREES and A.P. Sloan Foundation, July 13
- 2002 Nalbandov Symposium: A Celebration of Biocomplexity and Biodiversity, co-organizer with J. Cheeseman and C. Shearer, UIUC, IL, Feb. 7-9  
Chair, Local Arrangements Committee, Evolution 2002 (annual meeting of Society for Study of Evolution and Society for Systematic Biology), UIUC, IL, June 28-July 2
- 2003 Chair, National Academy of Sciences Sackler Colloquium, Chemical Communication in a Post-Genomic World (w/ Gene Robinson), Irvine, CA, Jan. 18-19
- 2005 "Writing for the public" Entomological Society of America, Ft. Lauderdale, FL December 13, 2005, co-organizer with Mark Winston
- 2009 American Institute of Biological Sciences annual meeting, "Sustainable Agriculture: Greening the Global Food Supply," May 18-19, 2009, Arlington VA.
- 2009 Program Symposium: Colleagues, Science and Ideas: Investigating Chemicals, Signals, and Interactions", Entomological Society of America, December 12-15, 2009, Indianapolis, IN; ENTCENT 2010, University of Illinois Department of Entomology centennial celebration, December 11, 2010
- 2010 2010 Bee Space – The Final Frontier: The Bicentennial Celebration of Lorenzo Langstroth and Diverse Discoveries in Honey Bee Biology – Gene Kritsky and May Berenbaum, 2010 Entomological Society of America meeting, San Diego, CA, December 12, 2010
- 2011 An Eisnerian View of Nature—Symposium in memory of Thomas Eisner, Ent Soc. Amer, Reno NV, November
- 2012-2013 Organizing committee, 2013 joint meeting of the International Society of Chemical Ecology and Asian-Pacific Association of Chemical Ecologists, Brisbane, 2013
- 2013-2014 Organizing committee, Arthropod Genomics Symposium, Urbana, IL, June 12, 2014
- 2013-2014 Chair, organizing committee, 30<sup>th</sup> annual meeting of the International Society of Chemical Ecology, July 8-12, Urbana, IL, held jointly with the 13<sup>th</sup> annual Chemical Signals in Vertebrates meeting (co-chair Bruce Schulte)
- 2014 Symposium "Arthropod herbivore genomics," International Society of Chemical Ecology, July 9, 2014
- 2016 Organizing/planning committee, International Congress of Entomology/Entomological Society of America annual meeting, Orlando, FL, September 23-30, 2017
- 2018 Planning committee, Uniting Infection Biology for One Health, UIUC Sesquicentennial Symposium April 2018; Planning committee, Challenges for International Scientific Partnerships, regional roundtable/workshop of the American Academy of Arts and Sciences, Beckman Institute, Urbana, IL, April 25, 2018; Planning committee, Arthropod Genomics meeting, UIUC campus, June 7-9, 2018
- 2019 Advancing the Science and Practice of Science Communication: Misinformation about Science in the Public Sphere, Arthur M. Sackler Colloquium, National Academy of Sciences, Beckman Center, Irvine, CA April 3-4, 2019; "

## Graduate and Undergraduate Students

### Major advisor

#### Ph.D. candidates --

- 1987 **James Nitao** "Adaptations to furanocoumarins of *Pastinaca sativa* by *Depressaria pastinacella* (Lepidoptera: Oecophoridae)"  
**Jonathan Neal** "Ecological aspects of insect detoxication enzymes and their interaction with plant allelochemicals"
- 1989 **Keywan Lee** "Enzymatic defenses against plant phototoxins in phytophagous insects"  
**Ellen Heininger** "Effects of furocoumarin and furoquinoline allelochemicals on host-plant utilization by Papilionidae"
- 1990 **Lorne Wolfe** (Ecology Program) "Regulation of reproductive success in a biennial plant *Hydrophyllum appendiculatum*"
- 1991 **Michael Cohen** "Characterization of a hostplant-inducible cytochrome P450 from the black swallowtail caterpillar *Papilio polyxenes* (Lepidoptera: Papilionidae)"
- 1995 **Steven Passoa** "Larval and pupal systematics of the North American Amphisbatinae and Depressariinae (Lepidoptera: Oecophoridae)"  
**Eric McCloud** "Stratospheric ozone depletion and plant-insect interactions: effects of UVB radiation on generalist and specialist herbivores on a tropical tree and a temperate forb"
- 1996 **Chien-Fu Hung** "Isolation and characterization of cytochrome P450s from *Papilio polyxenes* and *Papilio glaucus*"  
**Laura Simms** (Ecology, Ethology, and Evolution) "Plant-plant and plant-insect interactions: direct and indirect effects of neighbors"
- 1997 **Steven Frankel** (Plant Biology) "Light effects on plant chemistry: implications for plants and herbivores"  
**Lisa Carloye** "The effects of synthetic and naturally occurring compounds on microsporidian infection in insects" (coadvisor with J. Maddox)
- 2000 **Ellen Green** "Effects of nutrients and minerals on growth and detoxification in phytophagous insects"
- 2003 **Weimin Li** "Functional characterization and evolutionary analysis of lepidopteran cytochrome P450 genes involved in plant-insect interaction"
- 2003 **Rebecca Petersen** "Interactions among steroid and xenobiotic response cascades in the regulation of CYP6B1"
- 2003 **Xianchun Li** "Molecular definition of cytochrome P450-mediated multiple resistance in *Helicoverpa zea*"
- 2003 **Mark Carroll** "Effects of dietary lutein on the parsnip webworm, *Depressaria pastinacella* (Lepidoptera: Elachistidae)"
- 2007 **Katrina Lustofin** Toxicology of three plant neurotoxins in *Drosophila melanogaster*, *Gallus gallus domesticus*, and *Mus musculus*
- 2008 **Reed Johnson** Toxicogenomics of *Apis mellifera*  
**Bridget F. O'Neill** Indirect effects of elevated carbon dioxide on members of three herbivorous feeding guilds on soybean, *Glycine max*
- 2010 **Guodong Niu** Toxicity of mycotoxins to insects and underlying molecular and biochemical mechanisms  
**Cynthia McDonnell** Regulation of cytochrome P450 genes in *Drosophila melanogaster* by the chemical environment
- 2011 **Terry Harrison** Microlepidoptera of hill prairies in Illinois
- 2014 **Tania Jogesh**, Consequences of global redistribution on the ecology and evolution of the invasive weed *Pastinaca sativa*
- 2015 **Maminirina Randranadrasana**, *Antherina suraka* (Lepidoptera: Saturniidae); ecology, systematics, and potential economic uses to promote conservation in Madagascar
- 2016 **Ling-Hsiu Liao** Behavioral and biochemical processing of natural and synthetic xenobiotics in the western honey bee *Apis mellifera*
- 2018 **Linus Gog** (Plant Biology—coadvised with Evan DeLucia) Hydrogen peroxide from photosynthesis: theory and experiments linking elevated atmospheric CO<sub>2</sub> with C<sub>3</sub> plant chemical defense
- 2019 **Mark Demkovich**, "Identifying mechanisms of pyrethroid resistance in the navel orangeworm and novel methods of control"

#### M.S. candidates --

- 1982 **Pamela Anderson** "A preliminary study of the weevil *Conotrachelus cristatus* on cassava (*Manihot esculenta* Cranz) within an indigenous agricultural system"
- 1983 **James Nitao** "Coniine toxicity and deterrence in *Heliothis zea*"

- David Stone** "Effects of soil compaction on size and vertical distribution of Collembola and mites in a forest soil"
- 1987 **Sherri Sandberg** "Chemical ecology of *Hypericum perforatum* (Guttiferae) and its leaf-tying tortricid (Lepidoptera) herbivores"
- 1988 **Mary Severinghaus** (Biology Program) (nonthesis)
- 1991 **M.A. Hisson** "Immunochemistry of the xanthotoxin-inducible cytochrome P450 in the black swallowtail, *Papilio polyxenes*"
- 1993 **Chui-Ying Li** "Furanocoumarin responses of wild and cultivated parsnip roots to abiotic and biotic stresses"
- Steven Frankel** (Plant Biology) (nonthesis)
- 1994 **Claire Rutledge** "Host defense and host size as determining factors of host specificity in *Eucelatoria bryani* (Diptera: Tachinidae)"
- 1995 **Ellen Green** "An ecological benefit of silk-spinning behavior in the parsnip webworm, *Depressaria pastinacella*"
- 1997 **Mark Carroll** "Octyl acetate and octyl butyrate in wild parsnip, *Pastinaca sativa* (Apiaceae) and their effects on the parsnip webworm, *Depressaria pastinacella* (Lepidoptera: Oecophoridae)"
- 1999 **Rebecca Petersen** "Expression of CYP6B1 and CYP6B3 and furanocoumarin metabolism in different tissues of *Papilio polyxenes* (Lepidoptera: Papilionidae)"
- 2000 **Terry Harrison** "Rutaceae-feeding *Agonopterix* (Elachistidae) in Illinois"
- Duane McKenna** "Ecology, phylogeny and host-usage of North American *Depressaria* (Lepidoptera: Elachistidae)"
- 2001 **Julie Cianfrogna** (Biology, 2001) "Effects of furanocoumarins on feeding behavior and metabolism in *Depressaria pastinacella*, the parsnip webworm"
- 2002 **Kate Best** (Biology) "Effects of 5 $\alpha$ -androst-16-en-3-one (androstenone) on two species of Lepidoptera"
- 2003 **Cynthia McDonnell** "Regulation of cytochrome P450 gene transcription in two species of swallowtail caterpillar"
- 2005 **Jennifer McGovern**, "Metabolic effects of furanocoumarins on two lepidopterans"
- 2006 **Bridget O'Neill** Effects of soybean foliage grown under elevated CO<sub>2</sub> on longevity and fecundity of the Japanese beetle, *Popilla japonica* (Newman)
- 2013 **Katherine Noble** Xenobiotic detoxification in the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae)
- 2014 **Mark Demkovich** Insecticide detoxification in the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae)
- 2015 **Daniel Bush** Facultative mutualism between the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae) and *Aspergillus flavus*
- 2016 **Allen Lawrance** Orientation of polyphagous Lepidoptera to hostplant kairomones.
- Catherine Dana, Impacts of organic and conventional neurotoxic pesticides on a pest and a pollinator in almond agroecosystems (*Prunus dulcis*)
- 2016 **Catherine Dana**, Impacts of organic and conventional neurotoxic pesticides on a pest and a pollinator in almond agroecosystems (*Prunus dulcis*)
- 2017 **Luke Zehr**, Diel patterns of insect herbivory and plant secondary metabolites in understory shrubs on Barro Colorado Island
- 2018 **Michael Wong**, Amelioration of acute and chronic toxicity of imidacloprid by dietary phytochemicals in honey bees (*Apis mellifera*)
- 2019 **Jacob Dixon**, Effects of resveratrol on development of three lepidopteran species varying in diet breadth

*Undergraduates --*

- 1981 **Ralph Becker** (Entomology 290) "Furanocoumarins as autoinhibitors of germination in *Pastinaca sativa*"
- 1983-1985 **Robert Killian** (Entomology 290) "Phototoxicity of plant products to insects"
- 1988-1989 **Darin Dougherty** (Entomology 290)
- 1988-1989 **Andrea Leslie** (Entomology 290) "Role of the osmeterial gland of swallowtail larvae in defense against avian predation" (graduated with honors) (Leslie, A.J. and M.R. Berenbaum, 1990. Role of the osmeterial gland of swallowtail larvae in defense against an avian predator. J. Lep. Soc. 44: 245-251)
- John Thomas** (Entomology 290)
- 1990 **Ellen Green** (Entomology 290) "Evaluation of transgenic tobacco in insect pest management" (graduated with honors)
- 1991 **Rebecca Klaper** (Entomology 290) "Anthocyanin and resistance to UVB irradiation in *Brassica rapa*" (graduated with honors) (Klaper, R. and M.R. Berenbaum, 1996. Effects of anthocyanin content on *Brassica rapa* resistance to UVB radiation. Photochem. Photobiol. 63: 811-813)

- 1991 **Andy Cohen** (Entomology 290)
- 1990-1991 **Gregory Smith** (Entomology 290)
- 1991-1992 **Joseph Lompart** (EEE 290)
- 1992 **Ken Kelley** (Ent. 290)
- Ben Moreno** (Fall)
- 1992-1993 **Cheryl Heinz** "Effects of dietary beta-carboline alkaloids on the feeding efficiencies of larvae of *Trichoplusia ni*" (graduated with high distinction) (Heinz, C.A., A.R. Zangerl, and M.R. Berenbaum, 1996. Effects of natural and synthetic neuroactive substances on the growth and feeding of the cabbage looper *Trichoplusia ni*. Ent. Exp. Appl. 80: 443-451.
- 1992 **John Martini**
- 1993 **Barbara Ria Barrido** (Spring) A test of the efficacy of ultrasonic mosquito repellents. (1993 Vector Control Bull North Central States)
- 1993 **Amanda Nadolski** (Spring/Summer) "Effects of d-alanine on the silk production of the parsnip webworm *Depressaria pastinacella* (Lepidoptera: Oecophoridae)" (graduated with honors)
- 1994 **Christian DuBois** (Fall/Spring) "Behavioral response of *Trichoplusia ni* larvae to phytochemical induction in wild parsnip" (graduated with distinction)
- Chris Stoeckner** (Spring)
- David Lohman** (Summer-- Hughes student, Bradley University) Impact of floral herbivory by parsnip webworm (Oecophoridae: *Depressaria pastinacella* Duponchel) on pollination and fitness of wild parsnip (Apiaceae: *Pastinaca sativa* L.) (Lohman, D., A.R. Zangerl, and M.R. Berenbaum, 1996. Impact of floral herbivory by parsnip webworm (Oecophoridae: *Depressaria pastinacella* Duponchel) on pollination and fitness of wild parsnip (Apiaceae: *Pastinaca sativa* L.). Am. Midl. Nat. 136: 407-412.
- Rae Hafer** (Summer--Hughes student, Reed College)
- 1995-1996 **Erika Young**
- 1996 **Alex Sauper** (Fall)
- 1996 Amy Hanlon (Summer-Hughes student, Pomona College) (Carroll, M., A. Hanlon, T. Hanlon, A. R. Zangerl, and M. R. Berenbaum, 1997. Behavioral effects of carotenoid sequestration by the parsnip webworm, *Depressaria pastinacella*. J. Chem. Ecol. 23: 2707-2719.
- Tanya Hanlon (Summer-Hughes student, Pomona College)
- 1998 **M. A. Macon** (Summer) "Chrysalis" (play)
- 1999 **C. Lydia Wraight**--"A yellow-eyed mutant of *Trichoplusia ni* (Lepidoptera: Noctuidae)" Wraight, C. L., E. S. Green, and M. R. Berenbaum, 1999. A yellow eye color mutation in the cabbage looper, *Trichoplusia ni* (Lepidoptera: Noctuidae). Ann. Ent. Soc. Amer. 92: 447-450.
- "Absence of *Bacillus thuringiensis* endotoxin toxicity to black swallowtail larvae under field conditions" (graduated with distinction) (2000 PNAS)
- Wraight, C.L., A. R. Zangerl, M. Carroll, and M. R. Berenbaum, 2000. Absence of toxicity of *Bacillus thuringiensis* pollen to black swallowtails under field conditions. Proceedings of the National Academy of Sciences 97: 7700-7703.
- 1999 **Leslie Boby**
- 2000 **Daniel Skirvin**
- 2001 **Jennifer McGovern**
- Freddy Escorcía**--Howard Hughes program
- 2002 **Paul Cziko**
- 2003 **Linus Gog**--Howard Hughes Program, Autotoxic effects of essential oils on photosynthesis in parsley, parsnip, and rough lemon Gog, L., M. R. Berenbaum, E. DeLucia, and A. R. Zangerl. 2005 Autotoxic effects of essential oils on photosynthesis in parsley, parsnip and rough lemon." Chemoecology 15: 115-119.
- 2005 **Jennifer Lauren Chambers** Benefits of trenching behavior in the context of an inducible defense Chambers JLE, Berenbaum MR, Zangerl AR. 2007. Benefits of trenching behavior in the context of an inducible defense. *Chemoecology*. 17(3):125-130,
- 2006 **Megha Maka**—James Scholar
- 2011 **Alan Yanahan**— Role of arthropod community and trophic structure in biofuel crop litter decomposition Zangerl, A.R., S. Miresmailli, P. Nabity, A. Lawrance, A. Yanahan, C.A. Mitchell, K.J. Anderson-Teixeira, M.B. David, M.R. Berenbaum, and E. DeLucia, 2013. Role of arthropod communities in bioenergy crop litter decomposition. *Insect Science* 20: 671-678.
- Allen Lawrance**—Effects of a naturally occurring and a synthetic synergist on toxicity of three insecticides and a phytochemical to navel orangeworm Niu, G., H. S. Pollock, A. Lawrance, J. Siegel, and M. R. Berenbaum. 2012. Effects of a naturally occurring and a synthetic synergist on



the toxicity of three insecticides and a phytochemicals to the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae). *Journal of Economic Entomology* 105: 410-417.

**Robert Orpet**-- Silica and nitrogen modulate physical defense against herbivores in bioenergy crops *Miscanthus x giganteus* and *Panicum virgatum*. Nabity, PD, R Orpet, S Miresmailli, MR Berenbaum, EH DeLucia, 2012. Silica and nitrogen modulate physical defense against herbivores in bioenergy crops *Miscanthus x giganteus* and *Panicum virgatum*. *J. Econ. Entomol.* 105: 878-883

2014-2015

**Brooks Hauser**

2015

**Alejandro Zavala, Riley Donohoe**

2017

**Lizzy Dabek** (recipient of Dept. Entomology Undergraduate Research Award)

2019

**Jihoo Kim**

*Postdoctoral Associates* –

Runlin Ma

Suzanne Timmermann

Zhimou Wen

Wenfu Mao

Eva Castells

Jorge Zavala

Saber Miresmailli

Terry Harrison

Bernarda Calla

Ling-Hsiu Liao

*Graduate students - minor member of committee*

*M.S. candidates --*

1982

Hilary de Alwis

1988

Keith Hunter

Joel Siegel

Philip Lewis

1984

Steve Heydon

1991

Dawn Dockter

Rebecca Grosser

Karlene Ramsdell

Laura Simms

1993

Honghong Zhang

1985

Marilyn Morris

Leslie Deem-Dickson

1986

Thomas Carrel (Plant Biology)

Tugrul Giray

1987

Yanli Deng

1995

Sean Collins

2001

Jodie Ellis

Christine Armer

Peter Reager

1997

Laura M. Heuser Kimball

Robert Moore

1998

Ria Barrido

Dimitry Novikov

Hilary Reno

Kay Edly

1999

Michael Slamecka

2003

Katharina Rothwangl

John Tooker

Jesse Albertson

Matthew Ginzel

Emerson Lacey

2005

Clark Danderson (Plant Bio)

2007

Bridget Wille (Crop Sci)

2006

Sindhu Krishnankutty

2007

Emily Kluger

2007

Maminirina Randrianandrasana

Joel Morris

2010

Stephanie Dold

2011

Jaqueline O'Connor

Nicholas Naeger

2012

Johnny Yu

2013

Andrea Walker

2015

Brittany Buckles

2016

Charles Dean, Scott Cinel, Chip Austin

2018

Christian Millan-Hernandez, Brendan Morris

*Ph.D candidates --*

1984

John Anderson

1984

Richard Lindroth (Ecol)

Eugene Miliczky

Michael Vanni (EEE)

1985

Joel Siegel

1987

Betsy Desy (Ecology Program)

1986

Richard Lampman

1987

Ken Spitze (Ecol Ethol Evol)

1988

William Capman (Ecology)

1988

Pat Thomas (Ecol Ethol Evol)

	David C. Smith	1989	Tom Seibert (Ecol. Program)
1987	Randy Cohen	1989	Doris Goldman (Ecol Ethol Evol)
1987	Edward Sakufiwa	1990	Anita Brinker (Plant Biology)
	Lane Smith		Susan Coon (Geography)
1988	Nathan Schiff	1993	Robert Melton (Ecol Ethol Evol)
1990	Harry Bottenberg	1993	Linda Ross (Coll. Edu, qual. exam)
1990	Bruce Steinly	1990	Carol Kelly (Plant Biology)
1990	Jussara Prado	1993	Archana Asthana (Plant Biology)
1995	Gwen Fondufe	1994	Laura Simms (Ecol. Ethol. Evol.)
1996	Tugrul Giray	1994	Hattie Prapaipong (Biochemistry)
1997	Phillip Lewis	1995	David Clark (Plant Biology)
1998	Angel Gonzalez	1996	Karen Readell (Plant Biology)
1998	Claire Rutledge	1996	Lyle Trumbull (Ecol. Ethol. Evol.)
2000	Karen McClellan	1998	Michael Persans (Plant Biology)
2000	M. Alleyne	2001	Jeff Zimpfer (NRES)
2000	Hilary Reno	2002	Tanya Jackson (Plant Biology)
2002	Honghong Zhang	2002	James Frelichowski (NRES)
2003	John Tooker	2002	Nele Gheldof (Food Science)
2004	Jeffrey Gilardi	2004	Paul Strode (NRES)
		2004	Rachel Knepp (PlantBio)
2005	Harland Patch	2005	Yan Li (PMPB)
2006	Katrina Lustofin	2006	Renato Borgigno (Nutrition)
2007	Daniela Takya	2007	Jennie Tang (Plant Bio)
2007	Ephantus Juma Muturi	2007	Sanjeewa Rupasinghe (CDB)
2007	Emerson Lacey	2007	Amy Toth (PEECB)
2008	Lisa Knolhoff	2008	Chance Riggins (PI Bio)
2009	Peter Reagel	2009	Matthew Richardson (PEEC)
		2010	Clare Casteel (Plant Bio, coadvisor)
2012	Mathys Meyer	2012	Paul Nabity (PI Bio)
2012	Sindhu Krishnankutty		
2012	Lauren Kent		
2013	Doris Lagos		
2013	Marsha Wheeler		
2014	Diana Arias Penna		
2016	Allison Gardner		
2017	Laura Steele, Keon M. Seong	2018	Andrew Sweet (PEEC)
2018	Linnea Meier, Erin Updyke		
2019	Rafael Achury, Nathalie Baena		
2019	Allison Parker, Todd Hunter		

*Invited external examiner*

Alfonso Pescador, Dept. Biology, University of Pennsylvania  
 Don Champagne, Dept. Botany, University of British Columbia  
 Christine Murray, Dept. Biology, University of Ottawa (1996)  
 S. Raghu, Dept. Biology, Griffith University, Queensland, Australia (2002)  
 Anke Steppuhn, Biology Department, Friedrich-Schiller-Universitat (2007)  
 Henry Hock Wee Chung, Dept. Biology, University of Melbourne (2008)

*High school students (students in the laboratory prior to 2010 are not included)*

2010 Andrew Lofdahl, Daniel Pearlstein, Danny Ge, Victoria Wong, Daniel Cheng (Urbana University Laboratory High School)  
 2012 Freddie Stavins (Urbana University Laboratory High School)  
 2013 Vikram Bagchi, Brooks Hauser, Sarah Lee (Urbana University Laboratory High School)  
 2015 Sarah Lee  
 2016 Kathryn Dullerud  
 2018 Jack Easley, Vicente Aldunate

## Courses Taught

Ent. 105 (IB109)--Insects and People; Spring 1989, 1990, 1991, 1992, 1993 (with honors section), 1994 (with honors section), 1995, 1996, 1997, 1998 (with honors/Discovery sections), 1999 (with honors/Discovery sections), 2000 (w/ Honors and Discovery sections), 2002 (with Honors section), 2003 (with Honors/Discovery sections), 2004 (with Honors section), 2005 (with Honors section) (1 guest lecture 2006), 2007, 2008 (with Honors section), 2009, 2010, 2011, 2013, 2014, 2015, 2016, 2017

Ent. 315 (IB444) --Insect Ecology; Spring 1981, 1982, 1983, 1984, 1985, 1986, 1988, Fall 1989, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014

Bio. 324 (IB445) -Chemical Ecology (with D. Seigler); 1983, 1984, 1985, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012

IB435—Critical Evaluation of Herbal Remedies Spring 2018, Spring 2019

IB199—Discovery course: Media Poisons (Spring 2006); Discovery course: CSI Biology (Spring 2007); Honey (2010, 2011); Biology of Science Fiction Films (Fall 2012)

IB299—Independent research experience for undergraduates (Fall 2017)

IB199—Invasion biology (A. Suarez), 1 guest lecture

IB299—Introduction to Biological Research (one section-4 students) (2017)

IB372—Honors Biology Ecology and Evolution, 1 guest lecture (2012, 2014)

IB496—Special topics: Insect-plant chemical ecology (Fall 2014)

IB503—Genomic Analysis of Insects (1 guest lecture, 2013, 2015)

IB599—Introduction to Beekeeping, 1 guest lecture (Summer 2010, 2011)

Ent. 316--Insect Ecology Laboratory; Spring 1982

Ent. 426 (ENT526/IB526)--Insect Ecology Seminar -Spring 1983, 1989, 1992 (with G. Robinson), 1995 (with H. Robertson), Fall 1997, Spring 2001. Spring 2007 (w/ A. Zangerl as IB526), Fall 2007 (w/ Sydney Cameron); Fall 2011; Integrated Pest Management Seminar Fall 1991, 2001, 2002, 2003;

Ent. 301--Introduction to Entomology, Guest lecture, Summer 2000

Ent. 321--(Offered Fall 1982 as Ent. 490b)--Biological Control of Insect Pests and Weeds. 9 lectures in Fall 1982

Ent. 304 (IB504)--Genomic Analysis of Insects, guest lecture Spring 2001, 2002, 2003, 2009, 2011, 2013, 2017

Ent. 319--Insect Pest Management, Guest lecture, Fall 1993, 1999, 2002

Ent. 120--Agricultural Entomology, Guest lectures (2), Fall 1995

Bio. 104--Animal Biology; 7 lectures in Spring 1981, 22 lectures in Spring 1982; 7 lectures in Fall 1984, 15 lectures Spring 1985, 11 lectures Spring and Fall 1986, 7 lectures Spring and Fall 1988, 1989

Anthro 246—Forensic Science (guest lecture 2009, 2012)

Bio. 123--Adventures in Life Sciences--guest lecture fall and spring 1984, 1985, 1986, 1987, 1988

Bio. 309--Ecological Genetics--guest lecture Oct. 29, 1999

Bio. 390--Adventures in Life Sciences (2 lectures, Spring 1998)

Biochem 360--Guest lecture, Spring 2004

Crop Sci 337--Guest lecture Spring 2002

LAS101—Freshman Seminar (1 guest lecture, Fall 2010)

EEE 452--Plant Ecology Seminar Fall 1993 (with J. Conner)

EEE 490--Coevolution seminar Fall 1983 (in conjunction with Mary Willson)

ENVST 250--1 guest lecture Fall 2002, 2003, 2004

ENVST 496--Environmental Toxicology Seminar (Fall 1995 coordinator; guest lecturer Fall 1996)

ENVST 236--Tomorrow's Environment (one lecture fall 1995)

ENVST 360—Seminar in Environmental Studies (one lecture fall 2004, fall 2005)

CHP 295/ENVST 250 Seminar in Environmental Studies--1 lecture, Fall 2002, 2003

GK12 seminar—1 lecture (Spring 2008)

IB107 Global change biology—1 lecture (Fall 2008, Fall 2009)

IB202 Form and Function—1 guest lecture (Spring 2011)

IB446B Topics in Ecology and Evolution--1 lecture Fall 2003

IB546B Topics in Ecology and Evolution—1 lecture Fall 2006

IB496 Special Topics Beekeeping—1 lecture Summer 2010, 2011

IB299—Discovery course in invasion biology, 1 lecture

IB496--Introduction to Beekeeping, 1 lecture Summer 2010

LAS100—Freshman Seminar (1 lecture, 2010)

MCB 493—Biosecurity (1 guest lecture, 2009)

Pl. Bio. 414--Plant/Insect Interactions: seminar Fall 1990 (with C. Labandeira and Plant Biology Faculty)

Pl. Bio. 418--Plant Ecology Seminar Spring 1992, Fall 1997, 1999

Pl. Bio. 263--Plants and Their Uses -- 7 lectures, 1994; 2 lectures 1995

Pl. Bio. 234--Form and Function in Flowering Plants -- guest lecture, 1988, 1993  
 Psych. 350--Genes and Behavior--guest lecture spring 1998  
 Hist. 160--Environmental History--guest lecture fall 1998, 1999, 2000  
 Honors program--Scholar Adventurer presentation, Fall 1986  
 Hewlett Faculty Seminar in Environmental History, Spring 1998  
 Vet. Bio. 199 Environmental Toxicology Discovery, Fall 2001 (1 lecture)  
 VB551 Ecotoxicology (Fall 2010 1 guest lecture)  
 U.S. Department of Education, European Community-United States Cooperative Program, "SUSPROT: Sustainable Crop Protection in Agriculture" Institut National Agronomique Paris-Grignon, Frederic Marion-Poll class lecture, April 13. 2004  
*Osher Lifelong Learning Institute*—"Don't Bee Afraid" (8 lectures), Spring 2008; "Biodiversity: who cares?" Spring 2010  
 Spring 2019, "Honey I'm Buzzed: The amazing history and current status of bees, booze, and other beverages"  
 (enrollment=100)

### Committee Assignments

1980-1981 Library (SOLS); Instruction and Policy; Search Committee-Medical Entomologist (ENT)  
 1981-1982 Instruction and Policy (chair); Greenhouse Committee (chair); Graduate Student Administration Committee; Dept. Seminar (chair) spring semester; Ecology Program-Executive Committee  
 1982-1983 Instruction and Policy; Graduate Student Administration Committee; Greenhouse Committee (chair); Ecology Program-Executive Committee  
 1983-1984 Courses and Curriculum Committee (SOLS); Graduate Student Administration Committee (chair); Ecology Program - Executive Committee; Fellowship Committee (SOLS); Greenhouse Committee (chair)  
 1984-1985 Dept. Seminar (Chair); Greenhouse Committee (Chair); Courses and Curriculum Committee (SOLS); Ecology Program Executive Committee; Search Committee-Economic Entomologist (NHS); Ad hoc Committee to Evaluate Freshman Biology (SOLS)  
 1985-1986 Dept. Awards; Greenhouse Committee (Chair); Dept. Seminar (Chair); Environmental Health (SOLS); Ecology Program (Chair of Executive Committee); Search Committee-Theoretical Population Biologist (EEE); Search Committee-Insect Geneticist (ENT)  
 1986-1987 Greenhouse Committee (Chair); Dept. Seminar (Chair) - Fall semester; Plant Ecologist Search Committee (NHS); Biology 110-111 Reorganization Committee (SOLS)  
 1987-1988 Admissions Committee (LAS); Faculty Senate representative (University); Dept. Greenhouse (chair); Dept. Awards; Dept. Seminar (chair); Committee on Program Evaluation (University)  
 1988-1989 Admissions Committee (LAS); Faculty Senate representative (University); Committee on Program Evaluation (University); Dept. Greenhouse (Chair); Dept. Seminar (Chair); Dept. Awards; Search Committee-Entomologist (ENT); Search Committee-Ecological Geneticist (EEE); Search Committee-Director of SOLS (LAS)  
 1989-1990 Faculty Senate Representative (University); Dept. Greenhouse (chair); Dept. Seminar (chair) Graduate Student Administration Committee; Environmental Health and Safety (SOLS); Committee on Program Evaluation (University); Search Committee - Entomologist (ENT)  
 1990-1991 MillerComm (University); Faculty-Senate Representative (University); Honors Program (LAS); Graduate Student Administration Committee; Dept. Promotion and Tenure; Dept. Greenhouse (chair)  
 1991-1992 MillerComm (University); Honors Program (LAS); Graduate Student Administration Committee (Chair); Fulbright Campus Screening Committee (University); Dept. Promotion and Tenure; Dept. Greenhouse (chair); Search committee-Behavioral Ecologist (EEE); Search committee-Biological Control (NHS)  
 1992-1993 Miller Comm (University); Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee (SOLS); Steering Committee, Environmental Toxicology Program (I.E.S.); University and Planet Earth Planning Committee (University); Faculty Study in a Second Discipline Committee (LAS); Task Force on the Environment (University) H.H. Ross Award, Selection Committee (NHS); Natural Resources, Ecology, and Conservation Biology Executive Committee; Search Committee-Biological Control (NHS); Clare Booth Luce Award Committee (University); Scientific Advisory Committee to Vice Chancellor for Research (University)  
 1993-1994 Library (SOLS); Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and SOLS Executive Committee; Steering Committee, Environmental Toxicology Program (I.E.S.) Task Force on the Environment (University); H.H. Ross Award, Selection Committee (NHS); Natural Resources, Ecology, and Conservation Biology Executive Committee; Search Committee-Biological Control (NHS); Scientific Advisory Committee to Vice Chancellor for Research (University); Search Committee - Dean (LAS); Executive Committee (SOLS)  
 1994-1995 Dept. Promotion and Tenure; Executive Committee (LAS); Dept. Greenhouse (Chair); Head, Dept. Entomology and SOLS Executive Committee; Steering Committee, Environmental Toxicology Program

- (I.E.S.); Natural Resources, Ecology, and Conservation Biology Executive Committee; Miller Lecture Committee (University); Scientific Advisory Committee to Vice Chancellor for Research (University); Olga Nalbanov Lecture Committee (University)
- 1995-96 Dept. Promotion and Tenure; Library Committee (SOLS); Executive Committee (LAS)  
Dept. Greenhouse (Chair); Dept. Seminar (spring semester); Head, Dept. Entomology and and SOLS Executive Committee; Steering Committee, Environmental Toxicology Program (I.E.S.); Miller Lecture Committee (University); Scientific Advisory Committee to Vice Chancellor for Research (University); Honorary Degree Committee (University); Faculty/Student Senate; Search Committee, Head of Natural Resources and Environment (AG); Olga Nalbandov Symposium Committee, Chair (University); Chancellor's Distinguished Lecture Committee (University); Friends of the Library Board; H.H. Ross Award Selection Committee (NHS); LAS Environmental Studies Planning Committee (LAS)
- 1996-97 Dept. Promotion and Tenure; Library Committee (SOLS); Executive Committee (LAS)  
Dept. Greenhouse (Chair); Head, Dept. Entomology and and SOLS Executive Committee; Steering Committee, Environmental Toxicology Program (I.E.S.); Miller Lecture Committee (University); Scientific Advisory Committee to Vice Chancellor for Research (University); Honorary Degree Committee (University); Faculty/Student Senate (University); Olga Nalbandov Symposium Committee, Chair (University); Endowed Appointments Committee (University); Friends of the Library Board; H.H. Ross Award Selection Committee (NHS); Environmental Council (University); Vice-Chair, Campus Charitable Fund Drive; Planning committee, Program in Ecology and Evolution (SIB); Advisory council, Center for Advanced Studies (University)
- 1997-98 Dept. Promotion and Tenure; Library Committee (SOLS); Dept. Greenhouse (Chair); Head, Dept. Entomology and and SOLS Executive Committee/SIB Advisory Committee; Miller Lecture Committee (University); Scientific Advisory Committee to Vice Chancellor for Research (University); Committee on Committees (University); Faculty/Student Senate (University); Olga Nalbandov Symposium Committee, Chair (University); Endowed Appointments Committee (University); H.H. Ross Award Selection Committee (NHS); Environmental Council (University); Advisory board, Campus Charitable Fund Drive; Chair, Committee on Natural Areas (University); Planning committee, Program in Ecology and Evolution (SIB); Search Committee, Behavioral Ecologist (SIB); Advisory council, Center for Advanced Studies (University)
- 1998-99 Dept. Promotion and Tenure; Library Committee (SOLS); Dept. Greenhouse (Chair); Head, Dept. Entomology and and SOLS Executive Committee/SIB Advisory Committee; Miller Endowment Committee (University); Research Policy Committee for the Vice Chancellor for Research (University); Honorary Degree Committee (University); Faculty/Student Senate (University); Endowed Appointments Committee (University); H.H. Ross Award Selection Committee (NHS); Biotechnology Council (University); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Limited submissions review panel (University); Search Committee, Associate Director, Center for Advanced Studies
- 1999-2000 Dept. Promotion and Tenure; Library Committee (SOLS); Dept. Greenhouse (Chair); Head, Dept. Entomology and and SOLS Executive Committee/SIB Advisory Committee; Miller Endowment Committee (University); Research Policy Committee for the Vice Chancellor for Research (University); Honorary Degree Committee (University); Faculty/Student Senate (University); Endowed Appointments Committee (University); H.H. Ross Award Selection Committee (NHS); Biotechnology Council (University); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Limited submissions review panel (University)
- 2000-2001 Dept. Promotion and Tenure; Library Committee (SIB); Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; Provost's Committee on Gender Equity (University); Research Policy Committee for the Vice Chancellor for Research (University); Honorary Degree Committee (University); Faculty/Student Senate (University); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory council, Center for Advanced Studies (University)
- 2001-2002 Dept. Promotion and Tenure; Library Committee (SIB); Dept. Greenhouse (Chair); Head, Dept. Entomology and and Executive Committee/SIB; Provost's Committee on Gender Equity (University); Research Policy Committee for the Vice Chancellor for Research (University); Honorary Degree Committee (Chair) (University); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Distinguished Faculty Achievement in International Studies (University); Chair, Search Committee, Endowed Chair in Toxicology (Department)
- 2002-2003 Dept. Promotion and Tenure; Library Committee (SIB); Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; Provost's Committee on Gender Equity (University); Executive Committee,

- 2003-2004 College of Liberal Arts and Sciences (LAS); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory council, Center for Advanced Studies (University); Distinguished Faculty Achievement in International Studies (University); Chair, Search Committee, Endowed Chair in Toxicology (Department); Environmental Toxicology Steering Committee  
Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; Executive Committee, College of Liberal Arts and Sciences (LAS) (vice-chair); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Chair, Search Committee, Endowed Chair in Toxicology (Department); Search Committee, Insect Sociogenomics (Department); Environmental Council (Campus); Provost's Committee on Public Service and Public Engagement (Campus); Cell and Molecular Biology Training Grant Admissions Committee; Medical Scholars Program Steering Committee; Environmental Toxicology Steering Committee
- 2004-2005 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Search Committee, Arabidopsis genomics (IGB); Environmental Council (Campus); Cell and Molecular Biology Training Grant Admissions Committee; Medical Scholars Program Steering Committee; Environmental Toxicology Steering Committee; Chancellor Search Committee; Planet Earth Challenges to Survival Forum planning committee
- 2005-2006 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Cell and Molecular Biology Training Grant Admissions Committee; Medical Scholars Program Steering Committee; Environmental Toxicology Steering Committee; LAS Teaching Academy New Faculty Orientation, Allerton Park, Monticello, IL August 20, 2005; LAS Named Appointments committee; Chair, Campus Endowed Appointments Committee; Academic Leadership seminar, "How to run a successful department," Provost's Office, November 1, 2005; Campus Honors Program application review committee; Campus Charitable Fund Drive campus committee;
- 2006-2007 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; LAS Executive Committee (College); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Cell and Molecular Biology Training Grant Admissions Committee; Medical Scholars Program Steering Committee; Environmental Toxicology Steering Committee; Chair, Campus Endowed Appointments Committee; Advisory Committee, Vice President for Academic Affairs (University), Campus Honors Program application review committee, Campus Charitable Fund Drive campus committee (co-chair 2006-7), Research Policy Committee (OVCR)
- 2007-2008 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; LAS Executive Committee (College); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Cell and Molecular Biology Training Grant Admissions Committee; Medical Scholars Program Steering Committee; Search Committee, Medical Entomologist, Illinois Natural History Survey; Chair, Campus Endowed Appointments Committee; Campus Charitable Fund Drive campus committee (Chair), Research Policy Committee (OVCR)
- 2008-2009 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; LAS StAR Committee (College); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Medical Scholars Program Steering Committee; Chair, Campus Endowed Appointments Committee; Campus Charitable Fund Drive campus committee
- 2009-2010 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; LAS StAR Committee (College); H.H. Ross Award Selection Committee (NHS); Chair, Committee on Natural Areas (University); Advisory Council, Center for Advanced Studies (University); Campus Charitable Fund Drive campus committee; Vice-chair, Presidential Search Committee (University)
- 2010-2011 Dept. Promotion and Tenure; Dept. Greenhouse (Chair); Head, Dept. Entomology and Executive Committee/SIB; LAS Executive Committee; LAS StAR Committee (College); Medical Entomology Search Committee (NHS); Chair, Committee on Natural Areas (University); H.H. Ross Award Selection Committee (NHS); Campus Review of Doctoral Programs (VCR); Campus Leadership Retreat panel, "How To Maintain a Healthy Department," I-Hotel, August 16, 2010; Olga G. Nalbandov Endowment Committee; LAS Named Professorships Committee

- 2011-2012 Dept. Promotion and Tenure; Head, Dept. Entomology and Executive Committee/SIB; SIB Communications Committee; LAS Executive Committee; LAS StAR Committee (College); Chair, Committee on Natural Areas (University); H.H. Ross Award Selection Committee (NHS); Postdoctoral Affairs Committee (University)
- 2012-2013 Dept. Promotion and Tenure; Head, Dept. Entomology; SIB Executive Committee; SIB Communications Committee; Chair, Committee on Natural Areas (University); Ross Award Committee (UIUC-INHS); Biology Librarian Selection Committee (University); Siebel Chair-Historian of Science Search Committee (History); Centennial Scholars Selection Committee (LAS); Chancellor's Visualizing Excellence Seminar Committee
- 2013-2014 Dept. Promotion and Tenure; Head, Dept. Entomology; SIB Executive Committee; SIB Communications Committee; Chair, Committee on Natural Areas (University); Ross Award Committee (UIUC-INHS); Biocomplexity Theme Review Committee (Chair), Institute of Genomic Biology; Olga G. Nalbandov Symposium award committee
- 2014-2015 Dept. Promotion and Tenure; Head, Dept. Entomology; SIB Executive Committee; SIB Communications Committee; Chair, Committee on Natural Areas (University); Ross Award Committee (UIUC-INHS); Goldwater Scholarship Committee (Campus); Search Committee, natural areas technician, Committee on Natural Areas;
- 2015-2016 Dept. Promotion and Tenure; Head, Dept. Entomology; SIB Executive Committee; SIB Communications Committee; Chair, Committee on Natural Areas (University); Ross Award Committee (UIUC-INHS); Goldwater Scholarship Committee (Campus); Search Committee, natural areas technician, Committee on Natural Areas
- 2016-2017 Head, Dept. Entomology; Dept. Promotion and Tenure; SIB Executive Committee; Chair Committee on Natural Areas (University); H.H. Ross Award Committee co-chair (UIUC-INHS); Nalbandov Committee (Campus); Goldwater Scholarship Committee (Campus); Campus Awards and Honors Committee
- 2017-2018 Head, Dept. Entomology; Dept. Promotion and Tenure; SIB Executive Committee; Committee on Natural Areas (University); H.H. Ross Award Committee co-chair (UIUC-INHS); Nalbandov Committee (Campus); Goldwater Scholarship Committee (Campus); Campus Awards and Honors Committee

### **Professional Service**

- 1982 Ad hoc Editor of Ecotoxicology, Ecology
- 1982-1985 Associate Editor of Entomology, American Midland Naturalist
- 1987-1989 Associate Editor, CRC Reviews in Plant-Insect Interactions
- 1990-1995 Associate Editor, Evolution
- 1990- Associate Editor, Journal of Chemical Ecology
- 1990- Associate Editor, Chemoecology
- 1998- Editorial Board, Proceedings of the National Academy of Sciences
- 1996- Editor, Annual Review of Entomology (Editor in chief, 1998- )
- 2006- Founding Editorial Board Member, Journal of Arthropod-Plant Interactions
- 1989 Council member, American Genetic Association
- 1990-1992 Council member, International Society for Chemical Ecology
- 1992 Member, Sewall Wright Award nominations committee American Society of Naturalists
- 1994-1995 Vice President, American Society of Naturalists
- 1994-1995 President, Council of Entomology Department Administrators
- 1993-1994 American Association for the Advancement of Science, Nominating Committee (Biology Division)
- 1995-1996 American Association for the Advancement of Science, Nominating Committee (Biology Division), chair
- 1986, 1987, Panel member, USDA Competitive Grants Program, Entomology
- 1988, 1990
- 1994 Panel member, USDA Competitive Grants Program, Assessing Pest Control Strategies
- 1987 Panel member, NSF Oversight Committee - Ecology Program
- 1988 Panel member, NSF Presidential Young Investigator Advisory Panel
- 1994 Panel member, NSF Population Biology Panel
- 1996, 1997 Panel member, NSF Ecological and Evolutionary Physiology Panel
- 1992-1993 Panel manager, USDA Competitive Grants Program Entomology Panel
- 1994 Peer review panel, Boyce Thompson Institute Plant Protection Program (chair)
- 1995 External reviewer, Dept. Entomology, Ohio State University
- 1995-2000 Member, Board on Agriculture, National Research Council
- 1996-1999 Member, Board on Environmental Studies and Toxicology, Nat. Research Council

1996 Member, National Research Council Committee to review research-doctorates programs in agricultural sciences, October 26-27

1997-1997-1998 Member, Office on the Public Understanding of Science, National Academy of Sciences  
Chair, OPUS Panel for the National Science Education Standards and Television Project

1994-1994-1995 Board of Directors, Xerces Society  
Fulbright Selection Committee, Biology

1996 External review committee, Dept. Entomology, Univ. Maryland

1996 External review committee, Dept. Entomology, Cornell University

1997 External reviewer, Graduate Group in Agricultural and Environmental Chemistry, University of California, Davis, CA

1998-1999 Member, Board on Natural Resources and Conservation, State of Illinois

1996-1999 Founder's Memorial Award Committee, Entomological Society of America

1996-1998 Common Names Committee, Entomological Society of America

1998 Common Names Committee, Entomological Society of America, chair

1998-2000 National Awards Committee, North Central Branch, Entomological Society of America

1998-1999 External review of biological programs, committee co-chair, Smithsonian Institution

1998-2000 Chair, National Research Council Committee on the Future of Pesticides in Agriculture

2000 Member, National Academy of Sciences Nominating Committee

2001 Member, External Advisory Committee, Keck Center for Behavioral Biology, North Carolina State University; National Research Council; Reviewer for: National Academy of Sciences Committee on Environmental Impacts Associated with Commercialization of Transgenic Crops, 2001

1998 National Awards Committee, North Central Branch, Entomological Society of America

2001-2004 Chair, Section 27, National Academy of Sciences

2002-2002-2002 Member, Advisory Board, Joseph Henry Press Biographies of Women, Sept.  
Member, Advisory Board, Joseph Henry Press Popular Science Series

2002 Chair (w/ Terry Medley), Workshop on Eradication and Control of Invasive Species, Board on Agriculture and Natural Resources, Washington, DC, Nov. 15

2002-2003-5 Nominations Committee, Class II, American Academy of Arts and Sciences  
Report Review Committee, NAS/NRC

2003 External review committee, Dept. Environmental Science, Policy and Management, University of California at Berkeley, Berkeley, CA, March 12-14

2003-2006 Chair, Board on Agriculture and Natural Resources, National Academy of Sciences

2003 Selection Committee, National Academy of Sciences Keck Science Communication Award Committee

2003 External Review Committee, Dept. Biology, University of Pennsylvania, May 22-23

2003 Selection Panel, 2003 ARS Science Hall of Fame Awards program, June 10

2003-2006 Temporary Nominating Group for Increasing Representation of Younger Members, Class II, National Academy of Sciences

2003-2004 Exernal Evolutionary Advisory Committee, Columbia University, New York, NY

2004 Selection Committee, National Academy of Sciences Keck Science Communiton, Award Committee

2004-2004-2007 Council, National Academy of Sciences  
Board of Directors, Conservation through Poverty Alleviation International (silk project)

2005 External Review Committee (Chair), Department of Biology, University of Nevada, Reno, NV, May 9-10, 2005

2005-2008 Report Review Committee, National Research Council

2005-2008 External Advisory Committee, Life Sciences, Cornell University, Ithaca, NY

2005-2006 Weizmann Institute Women and Science Nominations Committee, New York, NY

2005 USDA-NSF Interagency PI Meeting: Role of Applied and Basic Research in the Management of Biological Invasions" USDA-CSREES/NSF, October 17, 2005

2006 Chair, National Research Council Committee on the Status of Pollinators

2006 Kansas State University Targeted Excellence Program review; National Science Foundation Ecological and Evolutionary Physiology panel, April 23-26, 2006

2006-7 NAS Council designate to NAS Governing Board

2006 Search Committee for Editor-in-chief, Proceedings of the National Academy of Sciences

2006 Koshland Museum advisory board (NAS)

2006 Reviewer--draft chapter 4.1 of the USDA/APHIS - Biotechnology Regulatory Services (BRS) Draft Programmatic Environmental Impact Statement for the revision of its CFR Part 340 regulations



- 2006-7 Board of Directors, Xerces Society (President) Board of Directors, Conservation through Poverty Alleviation International (silk project) National Awards Committee, North Central Branch, Entomological Society of America, 1998- Member, Report Review Committee, National Research Council, 2003- Membership Committee, Class 2, American Academy of Arts and Sciences 2006 Advisory Board, Max Planck Institute of Chemical Ecology, Jena, Germany, 2003-2007 Elected member, Council, National Academy of Sciences, 2004-2007 Chair, National Research Council study on pollinator decline, 2005-2006 Koshland Museum advisory board (NAS) External Advisory Committee, Life Sciences, Cornell University, Ithaca, NY 2006- Weizmann Institute Women and Science Nominations Committee, New York, NY, 2006 Proceedings of the National Academy of Sciences: search committee for new editor 2006 NAS Council representative to National Academy of Sciences Governing Board 2006-7 Reviewer, draft chapter 4.1 of the USDA/APHIS - Biotechnology Regulatory Services (BRS) Draft Programmatic Environmental Impact Statement for the revision of its CFR Part 340 regulations
- 2007-8 Board of Directors, Xerces Society (President); Board of Directors, Conservation through Poverty Alleviation International (silk project) National Awards Committee, North Central Branch, Entomological Society of America, 1998- Member, Report Review Committee, National Research Council, Membership Committee, Class 2, National Academy of Sciences, Advisory Board, Max Planck Institute of Chemical Ecology, Jena, Germany, Koshland Museum advisory board (NAS), External Advisory Committee, Life Sciences, Cornell University, Ithaca, NY, Proceedings of the National Academy of Sciences Editorial Committee, At-large representative to National Academy of Sciences Governing Board
- 2008-9 Board of Directors, Xerces Society (President), Board of Directors, Conservation through Poverty Alleviation International (silk project) National Awards Committee, North Central Branch, Entomological Society of America, Member, Report Review Committee, National Research Council, Membership Committee, Class 2, National Academy of Sciences, Koshland Museum advisory board (NAS), External Advisory Committee, Life Sciences, Cornell University, Ithaca, NY, Proceedings of the National Academy of Sciences Editorial Committee, At-large representative to National Academy of Sciences Governing Board, President-elect, American Institute of Biological Sciences, 2008-9; Conservation Fellow, St. Louis Zoo; Selection Committee, E.O. Wilson Naturalist Awards, American Society of Naturalists 2007-10; National Academy of Sciences Evolution/Culture Symposium Advisory Board; National Academy of Sciences Science & Entertainment Exchange
- 2009-10 Board of Directors, Xerces Society (President ), Board of Directors, Conservation through Poverty Alleviation International (silk project) National Awards Committee, North Central Branch, Entomological Society of America, Koshland Museum advisory board (NAS), External Advisory Committee, Life Sciences, Cornell University, Ithaca, NY, Proceedings of the National Academy of Sciences Editorial Committee, President, American Institute of Biological Sciences, 2008-9; Conservation Fellow, St. Louis Zoo; Selection Committee, E.O. Wilson Naturalist Awards, American Society of Naturalists 2007-10; National Academy of Sciences Evolution/Culture Symposium Advisory Board; National Academy of Sciences Science & Entertainment Exchange; Chair, National Research Council Committee on the Classification of the Light Brown Apple Moth
- 2010-11 Board of Directors, Xerces Society (President), Board of Directors, Conservation through Poverty Alleviation International, National Awards Committee, Entomological Society of America, Koshland Museum advisory board (NAS), Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; E.O. Wilson Naturalist Awards, American Society of Naturalists 2007-10; National Academy of Sciences Evolution/Culture Symposium Advisory Board; National Academy of Sciences Science & Entertainment Exchange; Past President, American Institute of Biological Sciences, National Research Council Division of Earth and Life Sciences Advisory Board; President, Council of Entomology Department Administrators; Council, International Congress of Entomology; Cozzarelli Prize Committee, Proceedings of the National Academy of Sciences; External review committee, Dept. Ecology and Evolutionary Biology, Yale University, New Haven, CT; 2010 AAAS Early Career Award for Public Engagement with Science Selection Committee, 2010-2011; L'Oréal USA Fellowships for Women in Science Jury; Monitor, National Research Council Study Committee on Use of Mycoherbicides, 2011; President's Council of Advisors on Science and Technology, Strategy workshop, May 26, 2011
- 2011-2012 Board of Directors, Xerces Society (President), Board of Directors, Conservation through Poverty Alleviation International, Koshland Museum advisory board (NAS, Chair 2011-), Board of Directors American Association for the Advancement of Science, Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Evolution/Culture Symposium Advisory Board; National

Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; Council, International Congress of Entomology; National Research Council Report Review Committee, 2012-2014; AAAS Early Career Award for Public Engagement with Science Selection Committee, 2011-2012; L'Oréal USA Fellowships for Women in Science; Global partnership promoting Science Education through Engagement Board of Advisors GSEE/Illinois; Member, Board of Directors/Council, American Association for the Advancement of Science;

2012-2013 Board of Directors, Xerces Society (President), Board of Directors, Conservation through Poverty Alleviation International, Koshland Museum advisory board (NAS, Chair 2011-), Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; National Research Council Report Review Committee 2012; Council, International Congress of Entomology; American Association for the Advancement of Science Early Career Public Engagement Award Committee, 2012; Member, American Association for the Advancement of Sciences Board of Directors, 2012-2014; Global partnership promoting Science Education through Engagement Board of Advisors GSEE/Illinois, 2012; Chair, Keck Communications Committee (NAS); US EPA FIFRA Scientific Advisory Panel on Bees and Pesticides, September 2012; National Stakeholders Conference on Honey Bee Health Committee, October 2012; Chair, Keck Communications Awards Committee, National Academy of Sciences; Chair, Public Interfaces Round Table, Division of Earth and Life Studies, National Research Council

2013-2014 Vice-President Elect, Entomological Society of America, Board of Directors, Xerces Society (President), Board of Directors, Conservation through Poverty Alleviation International, Koshland Museum advisory board (NAS, Chair 2011-), Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; National Research Council Report Review Committee; Council, International Congress of Entomology; Member, American Association for the Advancement of Sciences Board of Directors, 2012-2014; Global partnership promoting Science Education through Engagement Board of Advisors GSEE/Illinois, 2012; Chair, Keck Communications Committee (NAS); Chair, Keck Communications Awards Committee, National Academy of Sciences; External Advisory Committee for the Biology Directorate National Science Foundation;

2014-2015 Vice President Entomological Society of America, Scientific advisor, Provivi (Santa Monica, CA); Board of Directors, Conservation through Poverty Alleviation International, Scientific Advisory Committee Xerces Society for Invertebrate Conservation, Koshland Museum advisory board (NAS, Chair 2011-), Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; Council, International Congress of Entomology; Member, American Association for the Advancement of Sciences Board of Directors, 2012-2016; Chair, Keck Communications Committee (NAS); External Advisory Committee for the Biology Directorate National Science Foundation; Board of Reviewing Editors, Science Magazine; Nominating Committee, National Academy of Sciences 2015; Vice-President Entomological Society of America (President in 2016); Government Accounting Office (GAO) review of congressionally mandated GAO Stakeholder List for Bee Health Review (March 2015); nEUROSTRESSPEP Project External Advisory Board EC Horizon 2020 Project nEUROSTRESSPEP Novel biocontrol agents for insect pests from neuroendocrinology

2015-2016 President Entomological Society of America, Scientific advisor, Provivi (Santa Monica, CA); Board of Directors, Conservation through Poverty Alleviation International, Scientific Advisory Committee Xerces Society for Invertebrate Conservation, Koshland Museum advisory board (NAS, Chair 2011-2016), Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; Council, International Congress of Entomology; Member, American Association for the Advancement of Sciences Board of Directors, 2012-2016; Chair, Keck Communications Committee (NAS); External Advisory Committee for the Biology Directorate National Science Foundation; Board of Reviewing Editors, Science Magazine; Nominating Committee, National Academy of Sciences 2015; President Entomological Society of America (Past President 2017); Government Accounting Office (GAO) review of congressionally mandated GAO Stakeholder List for Bee Health Review (March 2015); nEUROSTRESSPEP Project External Advisory Board EC Horizon 2020 Project nEUROSTRESSPEP Novel biocontrol agents for insect pests from neuroendocrinology; external reviewer, IUCN Commission on

- Ecosystem Management & Species Survival Commission Task Force on Systemic Pesticides; external reviewer, University of Chicago, press office of the White House Office of Science and Technology Policy June 2015 to 31 May 2019 External Expert Advisory Board (EEAB); NEON; External review committee, Basic Sciences Division, University of Chicago, Chicago, IL October 2015; White House Executive Office Transportation Leadership Summit December 2015;
- 2016-2017 Proceedings of the National Academy of Sciences Editorial Committee, Journal of Chemical Ecology editorial committee, Annual Review of Entomology Editor-in-chief; National Academy of Sciences Science & Entertainment Exchange; National Research Council Division of Earth and Life Sciences Advisory Board; Council, International Congress of Entomology (Chair, 2016-); Member, American Association for the Advancement of Sciences Board of Directors, 2012-2016; Chair, Keck Communications Awards Committee, National Academy of Sciences; External Advisory Committee for the Biology Directorate National Science Foundation; President/Past President Entomological Society of America (2016/2017) ; National Academy of Sciences Food and Agriculture Award selection committee; NAS Ford Foundation Fellowship program panel (2017)
- 2017-2018 Xerces Society for Invertebrate Conservation Scientific Advisory Board, Board of Directors Conservation through Poverty Alleviation International, National Academy of Sciences Science & Entertainment Exchange; Council International Congress of Entomology (Chair, 2016-); Member American Association for the Advancement of Sciences Board of Directors, 2012-2018; Chair Keck Communications Awards Committee National Academy of Sciences; Past President Entomological Society of America (2017); National Academy of Sciences Food and Agriculture Award selection committee (2016-2017); NAS Ford Foundation Fellowship panel (2017), L'Oreal for USA Women in Science Fellowships; ; National Research Council Committee on Citrus Greening, 2/2017-1/2018; National Academies of Science, Engineering and Medicine Committee on the Status of Women in Science, Engineering and Medicine
- 2018-2019 Xerces Society for Invertebrate Conservation Scientific Advisory Board, Board of Directors Conservation through Poverty Alleviation International, National Academy of Sciences Science & Entertainment Exchange; Council International Congress of Entomology (Chair, 2016-); Member American Association for the Advancement of Sciences Board of Directors, 2012-2018; Chair Keck Communications Awards Committee National Academy of Sciences; Science Policy Committee, Entomological Society of America; National Academy of Sciences Food and Agriculture Award selection committee; NAS Ford Foundation Fellowship panel (2017), L'Oreal for USA Women in Science Fellowships; National Research Council Committee on Citrus Greening, 2/2017-1/2018; National Academies of Science, Engineering and Medicine Committee on the Status of Women in Science, Engineering and Medicine
- 2019-2020 Board of Directors Conservation through Poverty Alleviation International, National Academy of Sciences Science & Entertainment Exchange; Council International Congress of Entomology (Chair, 2016-); Member American Association for the Advancement of Sciences Board of Directors, 2012-2018; National Academies of Science, Engineering and Medicine Committee on the Status of Women in Science, Engineering and Medicine: Member, National Research Council Committee, *Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine: Opening Doors*

## Reviewing

### Journals

*Acta Oecologica; African Journal of Food Science; American Entomologist; American Midland Naturalist; American Naturalist; American Zoologist; Annals of the Entomological Society of America; Apidologie; Archives of Biochemistry and Biophysics; Archives of Insect Biochemistry and Physiology; Biochimica Biophysica Acta; BioEssays; Biology Letters (Royal Society); BioScience; Biotropica; Brains Behavior and Immunity. Canadian Journal of Zoology; Cellular and Molecular Life Sciences; Clinical Infectious Disease; Comparative Biochemistry and Physiology; Current Opinion in Insect Science; Ecology; Ecotoxicology and Environmental Safety; Economic Botany; Entomologia Experimentalis et Applicata; Entomological News; Environmental Entomology; Evolution; Environmental Microbiology and Environmental Microbiology Reviews; European Journal of Entomology; Experientia; Fish Physiology and Biochemistry; Frontiers in Ecology and the Environment; Frontiers in Plant Science; Functional Ecology; Gene; Genetica; Insect Biochemistry and Molecular Biology; Insect Molecular Biology; International Wildlife; Journal of Agricultural and Food Chemistry; Journal of Animal Ecology; Journal of Arid Environments; Journal of Biochemical and Molecular Toxicology; Journal of Chemical Ecology; Journal of Economic Entomology; Journal of Ethnobiology; Journal of Ethnopharmacology; Journal of Insect Behavior; Journal of Insect Physiology; Journal of Insect Science; Journal of Invertebrate Pathology; Journal of Natural Products; Journal of the Kansas Entomological Society; Journal of the Lepidopterists' Society; Marine Ecology Progress Series; Molecular Breeding; Molecular Ecology; Natural Products and Health; Nature; New Phytologist; Oecologia; Oikos; Paleobiology, Physiological Zoology; Phytochemistry; Phytoparasitica; Plant Cell and Environment; Plant Cell Reports; Plant Physiology; PLoS ONE;*

*Proceedings of the National Academy of Sciences; Proceedings of the Royal Society of London; Quarterly Review of Biology; Radiation Research; Revista Colombiana de Entomologia; Science; Soil Biology and Biochemistry; The Plant Journal; Trends in Ecology and Evolution*

Grant programs

National Science Foundation Ecology; National Science Foundation Ecological/Evolutionary Physiology; National Science Foundation Systematic Biology; National Science Foundation Metabolic Biology; National Science Foundation Chemistry of Life Processes; National Science Foundation Biological Instrumentation; National Science Foundation Population Biology; National Science Foundation Psychobiology; National Science Foundation Division of International Programs  
U.S.D.A. Competitive Grants Program--Plant Biology and Human Nutrition Program; U.S.D.A. Bi-National Agricultural and Development Fund; U.S.D.A. Small Business Innovative Research Grant Program; USDA Forest Biology Program  
T.F. and K.M. Jeffress Research Grant-Sovran Bank and VA Academy of Science  
Smithsonian Scholarly Studies Program  
Strategic Grants Program/Natural Science and Engineering Research Council of Canada, Food/Agriculture Area  
Natural Science and Engineering Research Council/Cell Biology and Genetics  
National Geographic Society  
MONTS (Montanans on a New Trac for Science)  
Basic Research Foundation, Israel Academy of Sciences and Humanities  
National Institutes of Health, Behavioral Medicine Special Emphasis Panel  
American Philosophical Society Lews and Clark Grants Program  
American Philosophical Society Franklin Research Grant Program  
Netherlands Research Council on Earth and Life Sciences  
South Carolina EPSCoR Program and BRIN Collaborative Research Program  
Center for Advanced Study in the Behavioral Sciences (2003)  
French National Research Agency (ANR: <http://www.agence-nationale-recherche.fr/Intl>) 2009, 2012  
Israel Science Foundation (2010)  
King Abdullah University Science and Technology program (2011, 2012)  
Agence Nationale de la Recherche (France) Programme Contaminants et Environnements: metrologie, sant , adaptibilite, comportements et usages  
Open Programme of the NWO Research Council for Earth and Life Sciences (2013) (Netherlands Organization for Scientific Research)  
Science agencies: United Nations Intergovernmental Platform on Biodiversity and Ecosystem Services Pollination Assessment Report (Chapters 2 and 3)  
American Philosophical Society Kaufman Postdoctoral Fellowship Program; Prairie Research Institute Collaboration Seed Fund; BBSRC Biosciences for the Future Program (UK); USDA AFRI Exploratory Program; NSF Division of Environmental Biology  
Google Impact Challenge

*Publishers (partial list)*

1986 Oxford University Press, review of advanced evolution text; Wadsworth Publishing Co. review of ecology text; Sinauer Associates, review of nonmajors biology text  
1993 Harcourt Brace Jovanovich, review of C. Krebs Ecology text  
2000 Smithsonian Institution Press, review of "Insects in Question," book proposal;  
Johns Hopkins Press, review of butterfly book proposal  
2005 Sinauer—review of ecology section of Purves et al. Life biology textbook  
2008 Oxford Press—review of two book manuscripts; Bloomsbury Press-review of one book manuscript  
2009 Harvard University Press—review of one book manuscript  
2013 Oxford University Press—review of one book manuscript

*Judge*

Student paper competition, Entomological Society of America National Meeting, Dec. 1985, Dec. 1989

*Consulting*

Mars, Inc. edible insects conference August 30, 2011; Provivi, Scientific advisor, 2014-2015

**Membership in Professional Societies**

American Association for the Advancement of Science; Sigma Xi; Entomological Society of America

Ecological Society of America; International Society for Chemical Ecology; Society for the Study of Evolution  
Phytochemical Society of North America (invited member 1985-1995); Lepidopterists Society; American Institute of  
Biological Sciences

### Public Service/Continuing Education

- 1981 Script for slide presentation, "Natural History of Illinois--a perspective," presented locally at Illini Union, Anita Purves Nature Center, Natural History Survey, Audubon Society, and shown throughout the Midwest at over thirty educational institutions.
- 1982- WILL-AM, "Focus 580" phone-in show, "Insect facts and insect natural history," Aug. 6, 1982; May 28, 1985; May 30, 1986; Aug. 5, 1986; Feb. 20, 1987; June 17, 1987; Aug. 17, 1987; Feb. 25, 1988; July 26, 1988; Sept. 22, 1988; Feb. 24, 1989; May 18, 1989; Aug. 16, 1989; April 23, 1990; July 13, 1990; Oct. 9, 1990; Feb. 22, 1991; April 24, 1991; June 12, 1991; Feb. 22, 1992; June 2, 1992; Aug. 7, 1992; Feb. 25, 1993; April 23, 1993; July 5, 1993; Aug. 18, 1993; Feb. 24, 1994; May 6, 1994; June 23, 1994; Feb. 23, 1995; May 11, 1995; July 17, 1995; Sept. 19, 1995; Feb. 22, 1996; April 23, 1996; July 11, 1996; Sept. 12, 1996; Feb. 20, 1997; May 1, 1997; June 17, 1997; Aug. 22, 1997; Feb. 24, 1998; May 20, 1998; Aug. 20, 1998; Feb. 18, 1999; May 25, 1999; Aug. 12, 1999; Feb. 22, 2000; April 6, 2000; June 28, 2000; Oct. 5, 2000; Feb. 20, 2001; May 24, 2001; Aug. 22, 2001; MISSING, Feb. 12, 2003; July 9, 2003, Feb. 24, 2004. June 24, 2004; February 17, 2005; August 24, 2005; February 10, 2006; (post-2006 appearances listed yearly)
- 1982-1989 WEFT-FM 90.1, "Those amazing insects," continuing weekly series of 5-minute spots on insects (1985 winner of "Outstanding Short Program" award)
- 1983 Nature walks for naturalists at Homer Lake Forest Preserve, Sept. 28
- 1984 First Annual Insect Fear Film Festival, March 23-24, sponsored by the Department of Entomology and the Entomology Graduate Student Association; "Insects as Chemists", 45-minute slide presentation for Audubon Society, April 6; Statewide Radio Service interview-UIUC (T. Jones, May 8, 1984; R. Nellis, Sept. 16, 1986); PM Magazine, WCIA-TV Channel 3 interview about insects, June 7; "Bug drugs--Medicinal uses of insects," Biomedical Careers Program, Rutgers University-Piscataway, NJ, July 18; Canadian Broadcasting Corporation, 30-minute television broadcast on chemical ecology (Filmed August 14-16, aired Nov. 6, 1985 in Canada)
- 1985 Second Annual Insect Fear Film Festival, Feb. 22-23; "What's eating you? Insect medical pests," Biomedical Careers Program, Rutgers University-Piscataway, NJ, June 5; "Mother Nature's munitions plants", 45-minute slide presentation for Audubon Society, Dec. 3
- 1986 Third Annual Insect Fear Film Festival, Feb. 21-22; Local panel member for Sigma Xi Teleconference on Biodiversity; "Insect trick or treat", Ladies' Art Club of Champaign; Lecture-demonstration for Saturday Scholars, Plainfield School District, Plainfield, IL, Nov. 15
- 1987 Fourth Annual Insect Fear Film Festival, Feb 20-21; Review of nonmajors biology text for Times-Mirror-Mosby; Lecture-demonstration for Corridor Program, Naperville School District, Naperville, IL, Oct. 24; University High School Science Club, Sept. 28
- 1988 "Cellar dwellers," Audubon Sunday Series, Jan. 24; Fifth Annual Insect Fear Film Festival, Feb. 26-27; Champaign Nursing Home, "Insects and Music," Spring 1988; Review of entomology book prospectus for Methuen; Urbana Rotary, "Don't bug me, I'm an entomologist", June 28; Presentation for Columbia Middle School Science Class, Sept. 29
- 1988-89 National Geographic Society consultant
- 1989 Lecture-demonstration for Saturday Scholars Program, Belleville School District, Belleville, Illinois, Feb. 18; Illinois Mathematics and Science Academy, Jan. 28; Champaign-Ford Counties, Danville Area Community College, March 18; Glenbrook North High School, Northbrook, IL., May 13; "Winter Insects" Anita Purvis Nature Center, Urbana Park District, Feb. 21; Sixth Annual Insect Fear Film Festival, Feb. 25; UIUC Admissions office "Meet the Faculty," July 13; Veterinary Nonacademic Employee awards ceremony, "Non-acs, gnats and nibblers," Sept.13; YMCA "Know your university" seminar, "Insects and culture," Oct. 31; Illinois Science Teachers Association Convention, "The American insect melting pot," Nov. 3; Illinois Mosquito Vector Control Association meeting, "Mosquitoes in the movies," Oct. 12; East Central Illinois Vet. Med. Assoc. banquet, "Pet peeves - insect veterinary problems," Dec. 7
- 1990 Sierra Club, Champaign, IL, "Insects as endangered species," Feb. 15; "Insects: Aliens from Planet Earth," William Staerkel Planetarium, Parkland College, Feb. 3; "Bugs in the Bible," Sinai Temple, Feb. 11; "Insects as herb fanciers," Urbana Herb Society, Feb. 7; Seventh Annual Insect Fear Film Festival, Feb. 24; "Insect walk," UIUC Alumni Association Camp, Allerton Park, Monticello, IL, Aug. 2; Afternoon Digest, WILL-AM, June 13; Review of textbook for University of Arizona Press
- 1991 Eighth Annual Insect Fear Film Festival, Feb. 24; Saturday Science Program, Mahomet School District, March 16; Champaign Medical Society, April 11; National Academy of Science Advisory Panel, "Infinite Voyage", PBS;

- University High School Summer Camp, June 28; Saturday Scholars Program, Plainfield Community Consolidated Schools, Oct. 12
- 1992 Campus Round Table, Feb. 13; Indian Prairie Educational Foundation, Waubonsie Valley High School, Naperville, IL, March 20; Plenary speaker, Peoria Academy of Science annual meeting, Peoria, IL, April 10; "Treehouse Radio," WILL AM 580, June 29; "Backyard beasts," Carrie Busey elementary school, July 3; Review of text for Grolier's Book of Knowledge; Illini Excursions, Faculty-student horseback ride, Moraine View State Park, Sept. 13; Organization of Women in Science, panel discussion on academic career choices, Sept. 16
- 1993 Leal School Science Enrichment Program, "Smelly bugs and why they smell," March 17; "Illinois Beginning with Women" Conference member of "Professional and Personal Lives of Women Scientists" panel; College of Liberal Arts and Sciences Jubilee Lecture, "Plant secondary metabolism: (plant) sex, (human) drugs, and (insect) rock and roll," Nov. 23; Review of article for Prevention Magazine
- 1993 Scientific advisor to Marco Visalberghi, Paneikon Films, Rome, Italy (nature documentary for television)
- 1994 Eleventh Annual Insect Fear Film Festival, Feb. 26; "Insects for lunch," Champaign Noon Kiwanis, April 14; Interview on "Whaddya Know," Wisconsin Public Radio, April 23; "Bugs in business," Clinton Rotary, May 2; Presentation for Washington School third graders, May 5; Howard Hughes Awards banquet, School of Life Sciences, "Images of the scientist -- moving and otherwise," April 28; Champaign Lions Club, "Insects for lunch," Aug. 17; Champaign County Forest Preserve, Homer Lake Volunteer Appreciation Day, "Insect invaders," Sept. 1; Scientific advisor, script consultant, Kinetic City Super Crew (AAAS); Scientific advisor/script consultant, National Geographic Television; UIUC Alumni Association, "Insects--Aliens from Planet Earth" UIUC Natural History Museum, Sept. 25; Creative Discovery Preschool, "Insects are such fussy eaters," Sept. 27
- 1995 Interview, "Fresh Air with Terry Gross," NPR, Feb. 21; Twelfth Annual Insect Fear Film Festival, Feb. 25; Sigma Xi Induction Ceremony, "Entomophobia," April 25; UIUC Biology Club, "Model insects in biology," April 26; Scientific advisor, National Geographic Television; Insect get-acquainted, Parkland College for Kids, July 5; Illinois State Teachers Association, Keynote speaker, Springfield, IL, Sept. 29; Creative Discovery PreSchool, "Insect chemists," Sept. 26; Countryside School, "Insects--good, bad, and ugly," presentation for fourth and fifth graders, "Do you eat like a bug?" presentation for second and third graders, Oct. 19; Champaign Public Library Writers Live series, "Buzzwords and beelines: writing about insects," Oct. 24; University of Illinois Illini Days, faculty presentation, Oct. 27
- 1996 Thirteenth Annual Insect Fear Film Festival, Feb. 24; Eleventh Annual Enhancing Chemistry Conference, "Plant chemical warfare," Beckman Institute, March 8; Discovery Place Children's Museum, "Fun with insects," 90-minute program, April 6; In-Depth Look faculty, UIUC Admissions Office, April 1; Leal School, "What's a bug?" K-2, and "Real life insect monsters," Grades 3-5, May 6; Carle Pavilion, resident children, "Moths and Mothra," May 10; Bresnan Senior Center, "Summer insects," June 21; Champaign Public Library, "An earful of corn insects," July 8; Advisor, CBC documentary on prairie insects (Ray Burley, director); Urbana Exchange Club, "Insects--good, bad, and indifferent," Aug. 7; Insect Expo, UIUC Stock Pavilion, Sept. 28; J. W. Powell Audubon Society, Normal Public Library, Nov. 10; "Insect homes and habitats," Colonel Wolfe School, K/1, Dec. 18
- 1997 "Insect Fear Films," Campus Round Table, Feb. 13; Fourteenth Annual Insect Fear Film Festival, Feb. 22; "Plant-insect interactions," Natural Areas Study Group, Anita Purvis Nature Center, Urbana, IL, Feb. 18; Meet the faculty, Florida Avenue Residence Hall Evening Program, March 17; "I Love to Read" about insects, Thomas Paine Elementary School, Urbana, IL, April 10
- 1997 Career Day, "Being a scientist," Urbana Middle School; 30 minute presentations to three 8th grade classes, April 17; Dial Club, "Gut reactions--how caterpillars eat plants," April 22; Parkland College for Kids, "Insects on the move," June 17; "Insects--getting a leg up on the competition," Urbana Park District Summer Camp, Anita Purves Nature Center, Urbana, IL, July 1; "How insects wing it," Urbana High School Summer Bridge Program, Urbana, IL, July 16; "Insects," Kaufman Lake Day Camp, Champaign, IL, July 18; Panelist, "Improving diversity and inclusivity in the field of science," Howard Hughes Undergraduate Program, Aug. 4; "Honey as a nutraceutical," UIUC Short Course for Beekeepers, Aug. 23; "Books, bugs, and badinage," Illinois Association of College Booksellers, Oct. 14; Panel on "Achieving balance in your life," CIC Women in Science and Engineering Student Leadership Conference Program, UIUC, Nov. 16
- Champaign County Audubon Society, "The birds and the bees and the other bugs," Dec. 4
- Scholars Day, Opportunities for female undergraduates in science at UIUC, Dec. 6
- 1998 "How insects eat plants," Holy Cross Brownie Troop 388, Champaign, IL, Jan. 22; "Alien biology," William Staerckel Planetarium, Parkland College, Champaign, IL, Feb. 6; Review of popular science book on forensic entomology for Harvard University Press; "Insects in the herb garden," Monticello Herb Society, Allerton Park, Feb. 22; Professor-at-lunch, Armory House, March 31; "Dr. Bambi Berenbaum and real women entomologists," Home Hi, Urbana, IL, April 9; "I Love to Read" books about insects, Thomas Paine Elementary grades 4/5, April 9; "Aquatic insects are all wet," Izaak Walton League State Convention, Urbana, IL, April 18; Consultant on "Man Eating Bugs," by Peter Menzel and Faith Menzel; Master Naturalist class on insects, Anita Purvis Nature Center, Urbana, IL, June 14; Milt

- Rosenberg show, WGN Chicago (2-hour phone-in), July 21; "Insect asides," Danville Garden Club, July 28; Review of popular entomology text, Oregon State University Press; Consultant, Ranger Rick Magazine
- 1999 "Opportunities in wildlife biology," Troop 534 Green Meadow Girl Scout Troop, Feb. 22; Natural History New Zealand interview, (for Animal Planet), March 22; "I Love to Read" about insects, Mrs. Mann's 3rd grade, Thomas Paine Elementary School, April 8; "Human parasites," Champaign Medical Society, Urbana, IL, April 8; "How to Raise Bugs for Science and Fun," Tiger Cubs, Urbana, IL, April 19; "Insects--we've got a million of 'em!" Learning Tree elementary school, April 27; Fact checking for Click Magazine article on ants, April 16; "Butterflies and caterpillars," Nature Day Camp, Anita Purvis Nature Center, Urbana, IL, June 18; "Amazing insects," Earthscope Camp, Anita Purvis Nature Center, Urbana, IL, June 23; "Baby bugs," Purple Room, Caring Place Summer Camp, Urbana, IL, July 8; Review of text about mantis rearing for Johns Hopkins Press; "Prairie insects," presentation to Tiffany Clark's Grade 3/4 class Leal School, Urbana, IL, Sept. 10 ; "Prairie plants," accompanied Tiffany Clark's Grade 3/4 class at Leal School, Urbana, IL on tour of Meadowbrook Prairie, Sept. 14; "Insect diversity," Countryside School Grades 2/3, Champaign, IL, Sept. 16; Interview, "The Power of Ideas," television program in Norman, OK, Oct. 15
- 2000 Consultant and fact-checker, SuperScience Scholastic Magazine, Jan. ; Focus 580, WILL AM, Feb. 22; "Let's rustle up some grubs!" Home Hi School, Feb. 23; Consultant and interviewee, National Geographic "The Shape of Life" ; 17th Annual Insect Fear Film Festival, UIUC, Feb. 26; WHCU AM Radio, Ithaca, NY, "Chemical ecology," April 13; Mrs. Smith's fifth grade, Leal Elementary School, "What do insects eat?" April 18; Bug-o-rama, Orpheum Children's Science Museum, Champaign, IL, June 17; Urbana Park District Nature Daycamp, Anita Purvis Nature Center, Urbana, IL, June 23; Focus 580, Radio talk show, WILL-AM, June 28; American Communications Institute ("The Osgood Files") consultant; Review of manuscript, "Field Guide to Butterflies of Illinois," for Illinois Natural History Survey Publications; UIUC Extension Annual Conference workshop, "Dancing in the genetically engineered mine fields: communicating with media with different agendas," Oct. 26; Review of manuscript for Natural History Magazine, Nov. 8; "Plants and habitats," UIUC Conservatory tour for Mr. Huff's fourth grade class, Leal Elementary School, Dec. 11
- 2001 UIUC Chancellor's Conference, "The Contemporary Land-Grant University and the Challenge of Public Service," reactor, Jan. 31; 18<sup>th</sup> Annual Insect Fear Film Festival, Feb. 24; CU Foundation Science Buddies program, Nancy Chick's self-contained gifted grade 3-4, Dr. Howard Elementary School, "Insects and the food web," April 24; "Birds and Nature with Scott Shalaway," WPPT 1360 AM Pittsburg, PA radio interview March 23; "I Love to Read Day," at Thomas Paine Elementary School, 4<sup>th</sup> grade class, "Sea monkey and other arthropod pets," April 11
- Fact-checking and script consulting for Robert David, Disney Productions, for animated television series; "Competition, predation, and symbiosis," Home Hi 7/8 grade science, Oct. 31
- Parenting Magazine, consulting on article about insects in gardens, Dec. 3
- 2001 Script consultant, "Stanley," Disney Studio, Dec; "Insect parasites and other unwelcome presents," lecture at Home Hi, Dec. 17
- 2002 19<sup>th</sup> Annual Insect Fear Film Festival, UIUC, Urbana, IL, Feb. 9; "Useful insects, to spin and dye for," lab exercise for Home Hi Middle School, Feb. 13; Fact-checking and script consulting for Robert David, Disney Productions, for animated television series, "Stanley"; "Bug poetry," I Love to Read Day, Thomas Paine Elementary School, Mrs. Hamilton's first grade class, April 12 ; "Joyful Noises, insect style," Home Hi 5<sup>th</sup>/6<sup>th</sup> grade, May 1; "Insects in white hats—beneficial insects in the garden," Classified Employees Association Luncheon, UIUC, May 2; "Follow your dreams...even if you end up as an entomologist," First Presbyterian Church, May 5; "How to raise and train insects," Home Hi, May 24; "Environmentally speaking with Bob Lebensold," WVOX 1460 New Rochelle (guest interview), May 28; Focus 580, WILL AM, May 30; Advisor to "Rats, Bats, and Bugs," History Channel documentary (Chris Gidez), June; Circle Academy (Cunningham Children's Home), Insectary tour, July 9; Beetlemania, Orpheum Children's Science Museum, Champaign, IL, Aug. 3; Focus 580 WILL AM, Insect phone-in show, Aug. 5; UIUC Beekeeping short course, "Nutraceutical value of honey," Urbana, IL, Aug. 17; "From entomophobe to entomophile," Prairie Flowers program, St. Patrick's Church, Sept. 25; "Monster on the Campus," Mid-America College Health Professionals Conference, UIUC, IL, Nov. 4; "Metamorphosis," Phi Kappa Phi induction, UIUC, IL, Nov. 11
- 2003 Consultant, Martha Stewart Kids Magazine, issue on insects, Jan.; Know Your University, "Inside the Insect Fear Film Festival," YMCA, Feb. 11; "Bees in business," Home Hi Middle School for Girls, Feb. 12; Focus 580, WILL-AM radio phone-in show, Feb. 13; 20<sup>th</sup> Annual Insect Fear Film Festival, Feb. 15
- Girlzone, "Insects, behave yourselves!" March 22; Interview with Patricia Murphy of Pattycake Productions for a childrens' book on entomologists and their careers, March; College of Liberal Arts and Sciences "Incomplete thoughts on the Incomplete List," Teaching Awards banquet, April 9; "Plant-insect interactions—the bugs and the bees," Home Hi Middle School for Girls, April 14; "Spring into butterflies," St. Joseph's Women's Club, April 21; After-dinner remarks, Appreciation evening for Dean Jesse Delia, May ; Insect Safari, Nature Day Camp, Urbana

- Park District Anita Purvis Nature Center, June 16; “Picnic insects,” Orpheum Children’s Science Museum, Weekend Wizards Program, July 12; Fact checking, “I Like Science,” Studying Insects with a Scientist,” by Patricia Murphy, Enslow Pub. Inc. ; Focus 580 radio show, WILL AM, Aug. 27; Illinois Program of Research in the Humanities panel: “The Challenge of Creationism,” Sept. 8; “Invasive species—bees and mites,” Home Hi 7<sup>th</sup>/8<sup>th</sup> grade science class, Oct. 7
- 2004 “Insect hide and seek,” 4<sup>th</sup>/5<sup>th</sup> grade, Martin Luther King School, Urbana, IL, Feb. 5; “Insects—aliens underfoot,” Torch Club, Champaign, IL, Feb. 9; “Native American entomophagy,” Home Hi Middle School for Girls, Urbana, IL, Feb. 18; Focus 580, WILL AM-580, Insect Fear Film Festival and other entomological issues, Feb. 24 ; “Exploring the insect colonies,” 6/7 grades, Home Hi, Feb. 27 Alfred P. Sloan Foundation Public Understanding of Science film project—script reader; Reading, “Fly on the wall,” Publication launch of Ninth Letter, UIUC, Urbana, IL April 16. 2004; Wildlife Medical Clinic, UIUC Veterinary College, “Turnabout is fair play—insect conservation,” April 28, 2004; Focus 580 WILL AM, June 24, 2004; Keynote speaker, Illinois Master Gardeners annual meeting, Decatur IL September 12, 2004
- 2005 Celebrity judge, Cub Scout Troop cake bake-off, January 24, 2005; February 17, 2005, WILL AM 580, Focus 580, insect phone-in show; February 19, 2005, 22<sup>nd</sup> Annual Insect Fear Film Festival; Café Scientifique, Unitarian Church, Gainesville, FL, March 26, 2005; Girls Club of the Orpheum Children’s Science Museum spring tea May 7, 2005 (advisory board); Class of 1975 Reunion Panel Discussion on Bioterrorism, Yale University, New Haven, CT. May 28, 2005; BioBlitz, dragonflies, Anita Purves Nature Center, Urbana, IL, June 25, 2005; Champaign County Lions Club, Insects: Aliens from Planet Earth, July 20, 2005; “Bugs in the Bible,” Sinai Temple Summer Camp, August 11, 2005; Summer insects, Focus 580, WILL AM 580, August 24, 2005; “Edible insects,” Erin Broadrick’s 2<sup>nd</sup> grade class, Barkstall Elementary, Champaign, IL August 29, 2005
- 2006 Focus 580, WILL AM 580, February 10, 2006; 23<sup>rd</sup> Annual Insect Fear Film Festival, February 17, 2006; Prairie School Girl Scout troop, February 23, 2006; Focus 580 WILL AM May 26, 2006; “Insects in the News,” BigTenPlus News Directors annual gathering, June 8, 2006; Forensic entomology unit, Forensic Science Camp, Orpheum Children’s Science Museum, July 20, 2006; Focus 580, WILL AM 580, August 1, 2006; Chicago Humanities Festival November 11, 2006 (Loyola University)
- 2007 Focus 580 WILL AM 580 February 22, 2007; 24<sup>th</sup> Annual Insect Fear Film Festival February 24, 2007; Worth/Freeman Biology Teaching Workshop, Innovations in biology instruction, Freeman Sinauer “Incorporating popular culture into biology education,” March 9, 2007, Chicago, IL; Science Fridays with Ira Flatow, 3/9/07; KQED San Francisco Forum with Dave Iverson, March 9, 2007; March 9, 2007; Testimony, House Subcommittee on Horticulture and Organic Agriculture, March 29, 2007; media interviews too numerous to recount April-June, including Public Radio International, WBBM Chicago, NPR Morning Edition, WTOA, the Roseanne Barr show, FoxNews St. Louis, RFD Radio Network, New York Times, Smithsonian, Chemistry and Engineering News, Science Magazine, Marketwatch.com, and PBS Television; Focus 580 AM 580, May 29, 2007; June 9, 2007 Midwest Beekeeping Symposium, Crystal Lake, IL (1 talk on pollinators, 1 talk on honey as nutraceutical); Focus 580 June, 2007; CFAR Hill Lecture Series, National Pollinator Week, June 25, 2007; Testimony, House Committee on Natural Resources, June 26, 2007; Focus 580, August 9, 2007; Champaign West Rotary, Bees CCD and the GNP, August 15, 2007; Urbana Rotary, Bees and pollination, August 21, 2007; TV Ontario, The Agenda with Steve Paikin, taped September 24, 2007; Saturday Night Live at Clark Lindsey, “Where did all the bees go?” October 13, 2007; Focus 580, WILL AM 580, October 22, 2007; Sinai Temple Chai Senior Group, “Plight of the Bumble Bees,: December 5, 2007
- 2008 Series of 8 lectures, Osher Lifelong Learning Center, “Don’t Bee Afraid—all about bees”), January 31-March 11, 2008; “The ABeeCs of Illinois Bees,” Agora Week class, University Laboratory High School, February 19-22, 2008; 25<sup>th</sup> Annual Insect Fear Film Festival, UIUC, Urbana, IL February 23, 2008; “Hi, honey!” Girl Scouts Prairie School chapter, February 28, 2008; Women in Power panel, Women in Math, Science and Engineering UIUC, March 24, 2008; Mick Kjar show, KQLX, Fargo North Dakota, Colony Collapse Disorder April 2, 2008; Senate briefing, Pollnation and Agricultural Security, April 9, 2008; “Status of pollinators: a report and a response,” Beekeeping Short Course, UIUC, April 12, 2008; “Naked Beauty,” Disney Nature film project; Advisor, “Queen of the Sun,” Taggart Siegel; Keynote lecture, “Colony Collapse Disorder,” Associated Illinois Milk, Food and Environmental Sanitarians annual meeting, Bloomington IL, May 6, 2008; Focus 580 WILL AM580, May 15, 2008; “Honey and honey bees,” Slow Foods Los Angeles, Los Angeles, CA, June 5, 2008; Pollination in the classroom, AIMS workshop, MSTE, UIUC, June 10, 2008; August 20, 2008, KQED “Buzz Kill NRDC” w/ Dave Iverson; “Bee-gone,” Isaak Walton League, Mahomet, IL September 11, 2008; Science Friday Bug-a Boo, <http://www.sciencefriday.com/videos/watch/10175> October 31, 2008;
- 2009 “BSI—the case of the disappearing bees,” Fermilab Lecture, Batavial IL, January 16. 2009; “Research can help the world,” Undergraduate Research Symposium kickoff, UIUC, February 11 2009; “Meet the



Scientists,” American Association for the Advancement of Science, Chicago, IL, February 14, 2009; Dial Club, February 23, 2009; Focus 580, WILL AM580, February 24, 2009; 26<sup>th</sup> Annual Insect Fear Film Festival, Centipede Cinema, February 28, 2009; “Insects—who needs them?” Illinois Corn Breeders School, Champaign, IL, March 2, 2009; Urbana Exchange Club, “CCD and GNP,” March 4, 2009; Wagner Institute, Philadelphia, PA, March 28, 2009; Missouri Botanic Garden, St. Louis, MO, April 23, 2009; Interview KMOX and KSKD, St. Louis, April 23, 2009; UIUC Beekeeping Short Course, Bees and pesticides, April 4, 2009; Interview with Richard Nardi, Acting Director, Undergraduate Rhetoric Program, for instructional video May 8, 2009; Focus 580 WILL AM580 May 26, 2009; 6/2009-6/2010CS-Fly, Orpheum Children’s Science Museum forensic science camp, July 10, 2009; Aliens on Planet Earth, Orpheum Children’s Science Museum Get Buggy camp, July 13, 2009; WILL AM 580 Focus 580 July 31, 2009; PRI’s The World with Marco Werman, DDT—the Lesser of Two Evils? Interview podcast and online forum August 7-14, 2009’ NASA interview with Adam Voiland about citizen science and pollinators August 13, 2009; Executive Club Luncheon, “Queen (bee) for a day,” Champaign Country Club, Champaign, IL, August 20, 2009; WILL AM Focus 580 August 25, 2009; WILL AM Focus 580 August 25, 2009; week of August 25, 2009, BBC ScienceAction Now, BBC Material World, BBC Radio Five Live, Jop de Vrieze. Wetenschapsredactie, NRC Handelsblad, Popular Science Magazine, Times of London, New Scientist, The Scientist, Time Magazine, Fox News Channel, Bloomberg News; New York Times news forum, August 29-30, 2009; Campus Round Table, Pollinarium, September 10, 2009; Girls Do Science, Flowers and Pollinators, Pollinarium, Urbana IL, September 12, 2009; Insect masquerade, New York University Wonder Cabinet, October 31, 2009; Insect ant-ics, Chicago Humanities Festival November 8, 2009; Interview with Robert Krulwich, ABC Radio, November 12, 2009 (“There’s a fly in my urinal”)

2010 “All about ants,” Pam Olsen’s girl scout troop 2222, Methodist Church, Urbana IL February 25, 2010; Focus 580 WILL AM February 26, 2010; 27<sup>th</sup> Annual Insect Fear Film Festival, UIUC, February 27, 2010; “Insect fear films” interview for CBC Radio Definitely Not the Opera, April 20, 2010; Virtual Symposium on Visual Culture and Evolution, Advisory Committee and Participant, April 4-14, 2010; Bug Night, B.T. Washington Elementary School, Champaign, IL, May 12, 2010; WILL AM Focus 580 May 16, 2010; Illinois State Beekeepers Association, Wadsworth, IL, June 12, 2010 (“Bees and pesticides,” “UI Pollinarium”); Focus 580, WILL AM, June 29, 2010; Illini Union Off the Page Book Festival, “The Earwig’s Tail,” July 12, 2010; “The Billion-Bug Highway,” interview with Robert Krulwich, ABC Radio, July 15, 2010; Keynote lecture, Association of Education and Research Greenhouse Curators, July 27, 2010; Pollinator Conservation short course, Xerces Society, U.S. Cooperative Extension, July 29, 2010; Focus 580, WILL AM, August 31, 2010; C-U Sunrise Rotary, Business of bees, September 3, 2010; “Bugging Out,” National Academy of Sciences Science and Entertainment Exchange, Los Angeles, CA, October 14, 2010; St. Louis SciFest, Colony Collapse Disorder, St. Louis, MO, October 16, 2010; USA Science and Engineering Festival, National Mall, National Academy of Sciences tent, “The Buzz on Bees,” October 24, 2010; Focus 580, WILL-AM, October 25, 2010; Lunch break segment, WGN News, “Cooking with honey,” December 16, 2010; NPR Science Friday with Ira Flatow, “Bee Bonanza: From Beekeeping to Big Business,” December 24,

2011 Focus 580, WILL-AM 580, February 22, 2011; 28<sup>th</sup> Annual Insect Fear Film Festival, February 26, 2011; “CCD update” and “Honey and health” at Buzz into Beekeeping workshop, Kankakee River Valley Beekeeping Association, Bourbonnais, IL, March 12, 2011; March 29, 2011 Treehugger online interview; March 31, 2011 Interview, Savvy Soumya Misra Assistant Coordinator Food Safety and Toxins Centre for Science and Environment 41, Tughlakabad Institutional Area New Delhi, India; College of LAS Admitted Students reception, March 30, 2011; Interview MongaBay.Com April 3, 2011; Campus Middle School 7<sup>th</sup> grade “Hands-on Entomology,” April 7, 2011; Phone-in show, “Bees in crisis,” KPCC Public Radio, Pasadena, CA April 14, 2011; interview with Huffington Post about Mongolian deathworms, April 20, 2011; Champaign Exchange Club, “The buzz on bees,” Champaign, IL, April 25, 2011; Interview with Science and Entertainment Exchange, June 8, 2011; “Honey I’m Homemade,” Illinois State Beekeepers Association, Champaign, IL, June 25, 2011; WILL AM 580 Afternoon Magazine, Pollinarium programs, August 5, 2011; UI Pollinarium, Colony Collapse Disorder update, August 7, 2011; WILL AM 580 Focus 580, Bees in the news; ABC News bee stings August 26 2011; Chicago Tribune CCD September 1, 2011; Champaign Lunchtime Rotary, “Bed bugs,” October 12, 2011; Big Ten Housing Conference, “Honey and housing,” Urbana, IL, October 25, 2011; Honey chemistry, Peggy Notebaert Museum, October 29, 2011; “How to talk to the public about science,” lecture/workshop for the Society for Postdoctoral Scholars, University of Illinois Urbana-Champaign, November 9, 2011; “History of honey,” Garfield Park Conservatory Beekeeping Workshop, Garfield Park Conservatory, Chicago, IL, November 19, 2011

- 2012 Fourth Dimension Fourth Presbyterian Church Chicago, IL January 13, 2012; Southern Illinois Audubon Society, Carbondale, IL, January 27, 2012; interview for Naomi Klein January 31, 2012; Insects, Valentines and IFFF, Focus 580 February 14, 2012; “Beespotter,” MSTE Lunch, Champaign, IL, February 17, 2012; 29<sup>th</sup> Annual Insect Fear Film Festival, February 25, 2012; “Bees and pesticides,” Missouri State Beekeepers Association, St. Louis, MO, March 9, 2012; “Monitoring butterflies,” Illinois Butterfly Monitoring Network annual meeting, Peggy Notabaert Museum, Chicago, IL, March 10, 2012; “Bees and technology,” Agricultural and Biological Engineering Department seminar, UIUC, March 16, 2012; “Sex and the single parsnip,” Plant Biology Colloquium, Dept. Plant Biology, UIUC, March 16, 2012; “Bees and pesticides,” Beekeeping Short Course, University of Illinois, Urbana, IL, March 31, 2012; “The secret life of parsnips,” Webster Grove Nature Study Group, Webster Grove, MO, May 10, 2012; Back Yard Beekeepers, Weston, CT, May 29, 2012; Chicago Tribune interview, “Extreme Bugs,” Brookfield Zoo, June 4, 2012; WILL AM Focus 580 June 29, 2012 (David Inge’s final show); Urbana Rotary, “Micro-moths,” Urbana IL, August 7, 2012; “Biofuel and biodiversity,” Grand Prairie Friends, Anita Purves Nature Center, Urbana, IL September 28, 2012; “My Life on the Bee List,” Fourth Annual Beekeeping Forum, Garfield Park Conservatory, Chicago, IL November 17, 2012; Review of manuscript of “A Taste of Honey” by Marie Simmonds; review of “The Colony” science fiction manuscript by Alison Colucc; NPR interview, “Counting bugs in Panama,” December 14, 2012
- 2013 Keynote, “Honey bee health update: state of affairs and affairs of state,” American Beekeeping Federation, Hershey Pennsylvania, January 9, 2013; Ladies Art Club, “Thirty years of insect fear films,” Champaign, IL January 16, 2013; Pest Control Technologies Magazine interview with Kristen Hampshire, “Do pest insects have personalities?” February 2013; WILL AM580 Focus 580, February 21, 2013; 30<sup>th</sup> Annual Insect Fear Film Festival (“Ins-X Files”), February 23, 2013; consulting with Lucy Wells, Silverback Films, for Discovery Channel documentary on North American wildlife (nutritional content of grasshoppers), February 28, 2013; LAS Admitted Students Day presentation, “Why everyone should know something about insects,” March 8, 2013; Urbana Exchange Club, “Update on pollinators,” March 28, 2013; Pest Control Technologies podcast with Brad Harbison, “Insect personalities and pest management professionals,” April 16, 2013; “More than honey” discussion panel, Art Theatre, Champaign, IL, April 16, 2013; review of “Special Delivery: A Butterfly Story,” book for children by Loree Griffith Burns, April 2013; Marketplace Morning Report American Public Media, “Ants and the corporate ladder” May 2, 2013; National Stakeholders Conference on Honey Bee Health Report release press conference, May 2, 2013; “From entomophobe to entomophile,” banquet speaker, Illinois Junior Science Academy, UIUC, Urbana, IL, May 3, 2013; Bloomberg View, NPR, KCBS, many other venues, bees and pesticides, May 6-9, 2013; Interview with Seth Borenstein, Associated Press, “Bugged by the billions: periodical cicadas,” May 7, 2013; WILL AM Focus 580, “What’s up with the bees?,” May 8, 2013; Interview with Arshon Howard, Medill News, “Edible insects in Chicago” May 20, 2013; interview with Josie Glausiusz, *American Scholar* interview, May 28, 2013; Interview with Maine Public Radio about bee nutrition, June 5, 2013; June 12, 2013, interview on honey chemistry for digital magazine The Column, LCGC; June 14, 2013, interview for digital magazine Vetstreet.com on bee health; “Applied Bee-nomics,” Congressional Hill Lunch-n-Learn seminar, June 16, 2013; Stakeholder meeting, “Open dialogue—research priorities, translating research from hive to honey and other products”, American Farm Bureau, CropLife America, June 16, 2013; Kathleen Dunn call-in show, “Honeybee health,” Wisconsin Public Radio, June 19, 2013; “Pollination fascination—pollinator genomics”, UI Pollinarium, June 30, 2013; New technologies for U.S. apiculture, Suzanne Zionts and Stephanie Becker, Al Jazeera America, August 5, 2013; Alexandra Sifferlin, Time.com, entomophagy and food security query, August 20, 2013; Neonicotinoids and pest control operators, Ann Nagro, Pest Control Technology magazine, August 26, 2013; Interview and podcast with Adrian Smith, aodpod.com, Origins, September 4, 2013; Interview with Seth Shostak, “Disappearing bees,” Big Picture Science radio and podcast, September 4, 2013; Interview, “Is there a bee crisis?” Richard Wills, Pittsburg Tribune-Review, September 13, 2013; George S. Saul Public Lecture, Middlebury College, Middlebury VT, September 19, 2013; Happy Chocolate-Covered Insect Day,” Focus 580 WILL AM 580, Urbana, IL, October 14, 2013; “Insects: Aliens from Planet Earth, Public Lecture St. Paul Student Center Theater, University of Minnesota, St. Paul, MN, October 24, 2013; How the honey bee genome project is revolutionizing pollinator research” AgMasters Conference, Champaign, IL December 2, 2013; Interview with Joel Brownstein, LiveScience, on tobacco hornworm defense; interview with Susan Milius, Science News, on tobacco hornworm defense, December 30, 2013;
- 2014 Interview with Paul Wood, Champaign-Urbana News Gazette, powder-post beetles in Spurlock, “Exhibiting an intolerance for pests,” January 18, 2014; Interview with Voice of Russia, Bees and Pesticides, London, UK, January 24, 2014; Interview with Seth Borenstein, Associated Press, “Zom-bees”, January 29, 2014; Pesticides, WILL AM Focus 580, February 18, 2014; Interview with Seth Borenstein, Associated Press, disease associations between honey bees and bumble bees, February 19, 2014; Interview with Chicago Reader, Extinction, May 2014; Interview

with WBEZ Chicago, Extinction May 2014; Field Museum Women in Science, “Metamorphosis—from entomophobe to entomophile”, Chicago, IL, June 14, 2014; Genetically Engineered Arthropod Fear Film Festival, Arthropod Genomics Symposium, UIUC, Urbana, IL, June 13, 2014; “Applied Bee-nomics” and “Honey: Superfood for bees and people”, Maryland State Beekeepers Association, Beltsville, MD, June 14, 2014; Advising on set and script of “Food” (feature film), June 4-June 30; “Why I Study Bees,” Pollen Power Camp for middle-school girls, Institute for Genomic Biology, July 9, 2014; script consult with Sean Gesell, NAS Science and Entertainment Exchange, August 1, 2014; io9 online interview on bee decline, August 6, 2014; Interview with David Inge, WILL TV August 6, 2014; Interview Centralia Morning Sentinel, “Where are all the butterflies?” August 8, 2014; “Bees and pesticides: lessons from the past,” UI Pollinatarium, Urbana, IL, August 17, 2014; Pittsburgh Tribune-Review, Robo-bees, August 21, 2014; National Geographic, insect infestations (Jane Lee), September 18, 2014 “Does the honey bee risk cup runneth over?,” CropLife America, Washington, DC, October 16, 2014; Woollyworms, discussion with Mark Torregrosa, MLive.com, October 21, 2014

2015 Interview, Mike Haile, Lite Rock 97.5 What’s in store for the Insect Fear Film Festival?, February 26 2015; Interview, Jim Meadows, Female entomologist fear films, WILL AM 580, February 26, 2015; 32<sup>nd</sup> Annual Insect Fear Film Festival, February 28, 2015; Daily Illini interview, March 17, 2015; BBC World Service Forum, “Myths,” “60-second idea to save the world,” May 13, 2015 (airing May 30, 2015); NPR’s Here and Now with Jeremy Hobson, “White House Unveils Plan To Save Pollinators,” May 19, 2015; White House Plan, ScienceInsider, May 20, 2015 ; “White House Plan,” WILL-AM, May 19, 2015; EPA plan to protect bees, Seth Borenstein, Associated Press, May 26, 2015; Bees in crisis, Michael Lev, Chicago Tribune, May 26, 2015; Mark Hay, BRIO Media, “Casu marzu,” June 2, 2015; Skype interview with Gabriella Nafie, Winner of Disney Create Tomorrowland =X-Prize Challenge; Declining bee populations, Lauren Williamson, Chicago Magazine, June 30, 2015; Beespotter, interview with Anthony Watt, Moline Dispatch and Rock Island Argus; “How I became a scientist,” Pollen Power program for middle school girls, Urbana, IL July 7, 2015; interview about bumble bees with Malcolm Ritter, Associated Press, July 7; “Saturday Night Hive: Can science save the honey bee?” Saturday Night Live at Clark-Lindsey Retirement Village, Urbana, IL, July 11, 2015; “Honey bee update: the hive as Whoville” Pollination Fascination, UI Pollinatarium, Urbana, IL, July 12, 2015; WTTW-TV Chicago, interview on Chicago Tonight, July 27, 2015; Michael Torrice, Chemical and Engineering News, “Furanocoumarins and giant hogweed,” August 17, 2015; Brooke Borel, Popular Science, “Bugs at Burning Man”; Science Advances—Ashley Taylor, The Scientist; Gwen Pearson, Wired; Tim Wogan, Chemistry World; Sarah Everts—Chem &Eng News; Science Soiree South Pasadena, CA, September 24, 2015; Integrative Illini, October 21, 2015; Interview, Elizabeth Sears, Women in Illinois, October 9, 2015

2016 Review of “Insect defenses,” by Ellen Lambeth, Ranger Rick Magazine January 12, 2016; Interview with Brooke Borel, The Verge, bedbug genome project, January 13, 2016; Interview about the exploding insects and 33<sup>rd</sup> Annual Insect Fear Film Festival, WILL AM 580, February 26, 2016; “Social science, honey bee style,” Social Science Club, Champaign, IL, March 3, 2016; O’Leary Public Lecture, “Can science save the honey bee?” Gonzaga University, Spokane, WA, March 22, 2016; Associated Press, “Garden-care giant to drop chemicals linked to bee declines,” interview with Dan Elliott, April 12, 2016; “Bees and their food; you aren’t always what you eat”, UIUC Beekeeping Short Course, Urbana, IL, April 16, 2016; Interview with Lisa Palmer, Yale360, “How rising CO2 levels may contribute to die-off of bees” May 4, 2016; Interview with Seth Borenstein, AP, Colony loss report, May 9, 2016; Interview with Jeremy Hobson, NRP Here and Now, Honey bee status report, May 11, 2016; Champaign Lions Club, “Zika”, Urbana, IL, May 11, 2016; Doug Main, Urban bees, Newsweek, May 18, 2016; “Urban beekeeping/Urban Nature”, Dan Protess, NPR, June 21, 2016; “Bees are what they eat,” 4H Camp, Pollinatarium June 27, 2016; “How to become an entomologist,” Pollen Power Camp, Institute for Genomic Biology, June 27, 2016; Sean Kennedy, “Where are all the fireflies”, Curious City, July 6, 2016; Interview with Tawnell Hobbs, Wall Street Journal July 25, 2016 Little Herds and Bug Buffets; “Honey bee health update”, UI Pollinatarium, Urbana, IL, August 7, 2016; HoneyLove natural beekeeping conference, Pasadena, CA, August 19, 2016; Paige Embrey, author, book on native bees, August 30, 2016

2017 “Says You,” NPR, guest panelist for two episodes taped February 4, Foellinger Auditorium, Urbana, IL (WILL benefit); Ask Me Anything Reddit, February 14, 2017 (with Gene Robinson); The 21<sup>st</sup>, WILL AM 580, February 23, 2017; 34<sup>th</sup> Annual Insect Fear Film Festival, February 25, 2017; Brunch for filmmakers and entomologists, with festival guest/film producer Paul Hertzberg, Morrill Hall, February 26, 2017; “Bee-reft—why pollinator decline matters”, St. Louis Zoo Lecture Series, St. Louis, MO, March 22, 2017; Honey bee health update-2017”, Beekeeping Workshop, McLean County Extension, April 15, 2017; CU March for Science, “Nine reasons science would be an awful boyfriend,” April 22, 2017; “How I became an entomologist”, Pollen Power camp, Institute for Genomic Biology, Urbana, IL, July 11, 2017; Interview

with Alex Bjerga, Bloomberg News (Time Magazine), August 1, 2017; Jessica Kunz WCIA-TV, “Researchers helping bee populations” August 9, 2017; “Science fiction films in the classroom—teaching through bad examples”, MSTE Friday Lunch, UIUC, September 8, 2017; Interview with Christopher Borrelli, Chicago Tribune, Illinois’ vanishing bugs and why it matters to Earth, September 22, 2017; “Authors and appetites,” Luncheon speaker, PEO, Urbana, IL September 23, 2017; “Pollinators in danger”, Champaign Rotary West, Round Barn Center, Champaign, IL, September 27, 2017; Seth Borenstein, AP News, bumble bees and climate change,” October 1, 2017; Donna DeFranco, PCT Magazine, “Insect urban legends,” October 2, 2017; “Coveting nature: insects in art”, Krannert Art Museum, October 4, 2017; Interview, Cici Zhang, Scholastic Magazine, October 25, 2017; Science fiction films in the classroom: teaching science through bad examples,” National Association of Biology Teachers Annual Conference, St. Louis, MO, November 11, 2017

2018 Power of the Alumni annual conference research presentation, Champaign, IL, February 11, 2018; Interview with Christine Koh, WILL-AM, February 21, 2018; 35<sup>th</sup> Annual Insect Fear Film Festival February 24, 2018; Interview on edible insects, Adam Cohen, Kellogg School of Journalism, Northwestern University, March 4, 2018; “Pheromones”, Science on screen, Art Theater, March 5, 2018; Interview on neonicotinoid metabolism Catherine Offord, New Scientist, March 20, 2018; NPR interview on agricultural science funding, March 30, 2018; “Bees and pesticides—old and new”, Beekeeping Short Course, Urbana, IL, April 7, 2018; Interview with Neha Jain, GotScience blog, February 12, 2018; Insect fear, WILL-AM, February 22, 2018; 35<sup>th</sup> Annual Insect Fear Film Festival, February 24, 2018; Interview, state of federal funding for agricultural research, Madelyn Beck, Tri-States Public Radio, Galesburg, IL, March 29, 2017; Jody Green, “Women in Entomology” Arthro-podcast, April 4, 2018; “Bees and pesticides, old and new,” Beekeeping Short Course, Institute for Genomic Biology, April 7, 2018; “Academic Excellence—Entomological superheroes”, Provost’s Academic Excellence celebration, May 1, 2018; “Bees on stamps”, Champaign Urbana Stamp Club, Urbana Free Library, May 7, 2018; “Pets, not pests—arthropods as companion animals”, Second Annual Human-Animal Studies Summer Institute, University of Illinois, Urbana, IL, July 10, 2018; “Fungicide effects on bees,” Heartland Apicultural Society, Washington University, St. Louis, MO, July 12, 2018; “That time I met President Obama,” Pollen Power Camp, July 26, 2018; Interview with Sean, Apocalypse NowThis, for documentary on the arthropocalypse, July 25, 2018; “Bees and bourbon,” Morton Arboretum, Lisle, IL, August 7, 2018; “From entomophobe to entomophile,” Biosciences Journal Club, UIUC, Urbana, IL, October 10, 2018; Genomics for Judges, Institute for Genomic Biology, November 20, 2019; “Solving problems as a leader,” Professional Skills for Careers in the Biosciences “ Institute for Genomic Biology, December 6, 2018

2019 “Spider nebulas and nebulous spiders,” Staerkel Planetarium, Champaign, IL, February 1, 2019; “Honey, I’m spirited: honey and alcoholic beverages,” Arcadia Café; Lumen Events, February 23, 2019; February 2, 2019; Discussion with Ed Yong on the Arthropocalypse, The Atlantic, February 13, 2019; Visits with Congressional staffers for E. Berniece Johnson and John Shimkus, February 15, 2019; WILL AM 580 “IFFF-termites”, February 19, 2019; Q96 radio interview with Stevie Jay, IFFF, February 20, 2019; “Honey I’m buzzed,” Arcadia Café/Lumen, Urbana, IL, February 20, 2019; Linotype, genotype, and stereotype: genomics and reporters in the movies,” Genomics for Journalists, Institute for Genomic Biology and SciLine, March 25, 2019; “The mystery of the disappearing bees,” DecisionTown in the World of Genomics, Institute of Genomic Biology and National Academy of Sciences, April 13, 2019; “My life on the bee-list”, Amplify the Signal workshop, UIUC, Urbana, IL, May 9, 2019; “GMO Mosquitoes — OMG! Cultural Perceptions of Genetic Modification for Mosquito Control”, ISEE Critical Conversations University Club, Chicago, IL, May 23, 2019; “Networks of pollinators”, Phil Theta Kappa International Honor Society, Parkland College, June 1, 2019; Las Vegas grasshoppers Neil Vigdor, New York Times July 27, 2019; Las Vegas grasshoppers, Jeremy Hobson, NPR Here and Now, July 29, 2019; Insect Apocalypse, Peggy Notebaert Museum, October 3, 2019

## Publications

### Books Authored

Berenbaum, M., 1989. *Ninety-nine gnats, nits and nibblers*. Champaign: University of Illinois.

Berenbaum, M., 1993. *Ninety-nine more maggots, mites, and munchers*. Champaign: University of Illinois (named one of Choice’s outstanding academic books of 1995).

Berenbaum, M.R., 1995. *Bugs in the System: Insects and their Impact on Human Affairs*. Reading (MA): Addison Wesley.

Berenbaum, M. R., 2000. *Buzzwords: A Scientist Muses On Bugs, Sex, and Rock and Roll*. Washington: Joseph Henry Press. (on Library Journal’s List of Best Sci-Tech Books of 2000).

Berenbaum, M. R., 2009. *The Earwig’s Tail: A Modern Bestiary of Multi-legged Legends*. Cambridge: Harvard University Press.

- Berenbaum, M. R., 2010. *Honey I'm Home-Made: Sweet Treats from the Beehive Across the Centuries and Around the World*. Champaign: University of Illinois Press.
- Berenbaum, M.R., 2012 (anticipated). *The Secret Life of Parsnips*. Urbana: University of Illinois Press.
- Berenbaum, M.R., 2019 (anticipated). *Honey I'm Buzzed: honey and beer, bourbon, and other beverages*.

### Works Edited

- Berenbaum, M.R., J. Ridsdill-Smith, M. Whitten, P. Weintraub, 2020. *An Important and Victorious Science: Past, Present, and Future of the International Congresses of Entomology*. Oxford: Thomas Say Publications in Entomology. 18 chapters.
- Berenbaum, M. (editor) 1986. *Insects and photoactive substances in plants*. Eleven papers published as separate issue of *J. Chem. Ecol.* 12 (4).
- Rosenthal, G. and M. Berenbaum (eds.) 1992. *Herbivores: Their Interaction with Secondary Plant Metabolites*. 2nd edition. New York: Academic Press.
- Berenbaum, M.R., 1996. Evolution of specialization. *Amer. Naturalist supplement* (Vice Presidential Symposium volume; half of issue 148S(3)).
- Berenbaum, M.R. and G. R. Robinson 2003. Chemical communication in a post-genomic world. *Proceedings of the National Academy of Sciences (USA)* 100: (Supplement 2) 14513-14600 (17 papers).
- National Academy of Sciences, 2006. *Status of Pollinators in North America*, Washington: National Academies Press (chair of committee).
- National Academy of Sciences 2009. Review of U.S. Department of Agriculture's Animal and Plant Health Inspection Service (APHIS) Response to Petitions to Reclassify the Light Brown Apple Moth as a Non-actionable Pest. Washington: National Academies Press (chair of committee).
- Meinwald, J. and M. R. Berenbaum, eds., 2012. Issue of *Daedalus* (American Academy of Arts and Sciences) dedicated to the future of 21<sup>st</sup> century science (12 contributors).

### Book Chapters

- Berenbaum, M. 1986. Post-ingestive effects of phytochemicals on insects; on Paracelsus and plant products, Chapter 5 in T.A. Miller and J. Miller (eds.), *Insect-Plant Interactions*. New York: Springer-Verlag (Springer Series in Experimental Entomology), pp. 121-153.
- Berenbaum, M. 1986. Ecological interactions. Contribution in *Yearbook of Science and Technology; Suppl. to Ency. of Science and Technology* (5th ed.) NY: McGraw-Hill, pp. 164-167.
- Berenbaum, M. 1986. Target site insensitivity in plant insect interactions. In L. Brattsten and S. Ahmad (eds). *Molecular Mechanisms in Insect-Plant Associations*. NY: Plenum Press, pp. 257-272.
- Berenbaum, M. and J. J. Neal, 1987. Interactions among allelochemicals and insect resistance in crop plants. In G. Waller, ed. *Allelochemicals Role in Agriculture and Forestry*. Washington: ACS Symposium Series, No. 330: 416-430.
- Berenbaum, M. 1987. Charge of the light brigade; insect adaptations to phototoxins. In *Light-activated Pesticides* (J.R. Heitz and K.R. Downum, eds.). Washington; ACS Symposium, Series 339: 206-216.
- Berenbaum, M. 1988. Allelochemicals in insect-microbe-plant interactions, agents provocateurs in the coevolutionary arms race. In *Novel Aspects of Insect-Plant Interactions*. P. Barbosa and D. Letourneau, eds. NY: Wiley and Sons. pp. 97-123.
- Berenbaum, M. and A. Zangerl. 1988. Stalemates in the coevolutionary arms race; synergism, syntheses and sundry other sins. In *Chemical Coevolution*, K. Spencer, ed. NY: Academic Press, pp. 113-132.
- Berenbaum, M. 1988. Effects of electromagnetic radiation on insect-plant interactions. Chap. 5 in E.A. Heinrichs, ed. *Plant Stress- Insect Interactions*. NY: J. Wiley and Sons, Inc., pp. 167-185.
- Weis, A. and M. Berenbaum. 1988. Herbivorous insect/plant interactions. Chap. 4 in W.G. Abrahamson ed. *Plant-Animal Interactions - A textbook*. NY: MacMillan, pp. 140-183.
- Berenbaum, M. 1989. North American Ethnotanicals as sources of novel plant-based insecticides. In *Pesticides of Plant Origin: Biological Activity of Plant Secondary Metabolites to Pest Organisms*. J.T. Arnason, B.J.R. Philogene and P. Morand, eds. ACS Symp. Ser. 387, Washington, D.C., pp. 11-24 (reprinted in Chem Tech).
- Berenbaum, M.R., M. Cohen and M.A. Schuler, 1990. Cytochrome P450 in plant-insect interactions: inductions and deductions. In H. Hagedorn, J. Hildebrand, M.G. Kidwell and J. Law, eds. *Molecular Insect Science*. NY: Plenum Publishing Co., pp. 257-262.
- Berenbaum, M.R., 1990. Plant consumers and plant secondary metabolites: past, present, and future. In J. Antonovic and D. Futuyma, eds. *Oxford Rev. Evol. Biol.* 7: 285-307 (Oxford University Press).
- Berenbaum, M.R., 1990. Coevolution between herbivorous insects and plants: tempo and orchestration. In F. Gilbert, ed. *Insect Life Cycles*. London: Springer Verlag, pp. 87-99.
- Berenbaum, M.R. 1991. Coumarins. In G. Rosenthal and M. Berenbaum (eds.) *Herbivores Their Interactions with Secondary Plant Metabolites*. NY: Academic Press, vol. 1, pp. 221-249.

- Berenbaum, M. and A. Zangerl. 1992. Quantification of chemical coevolution. In R. Fritz and E. Simms, eds. *Plant Resistance to Herbivores and Pathogens: Ecology, Evolution, and Genetics*. Chicago: University of Chicago Press, pp. 69-87.
- Berenbaum, M. and D. Seigler. 1992. Biochemicals: engineering problems for natural selection. *Insect Chemical Ecology. An Evolutionary Approach*, B.D. Roitberg and M.B. Isman eds. NY: Routledge, Chapman and Hall, pp. 84-121.
- Berenbaum, M.R. and A.R. Zangerl, 1992. Genetics of secondary compound production and chemically based resistance. In G. Rosenthal and M. Berenbaum (eds.) *Herbivores Their Interaction with Secondary Plant Metabolites*. NY: Academic Press, vol. 2, pp. 415-439.
- Berenbaum, M.R., M.B. Cohen, and M.A. Schuler, 1992. Cytochrome P450 monooxygenases in oligophagous Lepidoptera in *Molecular Mechanisms of Insecticide Resistance: Diversity among Insects*. (C. Mullin and J. Scott, eds). American Chemical Society Symp. Series 505: 114-124.
- Berenbaum, M.R., 1995. Metabolic detoxification of plant prooxidants. In S. Ahmad, ed. *Oxidative Stress and Antioxidant Defense in Biology*. NY: Routledge, Chapman and Hall, pp.181-209.
- Berenbaum, M.R., 1995. Chemistry and oligophagy in the Papilionidae. In J.M. Scriber, ed. *Swallowtail Butterflies: Ecology and Evolutionary Biology*. Gainesville: Scientific Publishers, pp. 27-38.
- Berenbaum, M.R. and A.R. Zangerl, 1996. Phytochemical diversity: adaptation or random variation? In *Phytochemical Diversity and Redundancy in Ecological Interactions* (J. Romeo et al., eds). New York: Plenum Press (Rec. Adv. Phytochem. 30: 1-24).
- Berenbaum, M.R. and A.R. Zangerl, 1998. Population-level adaptation to hostplant chemicals: the role of cytochrome P450 monooxygenases. In S. Mopper and S. Strauss, editors. *Genetic Variation and Local Adaptation in Natural Insect Populations: Effects of Host Plant, Life History, and Behavior*. New York: Chapman and Hall, pp. 91-112.
- Berenbaum, M.R. and Zangerl, 1998. Genetic variation in biochemically based resistance to insecticides and plant allelochemicals. In H. Olf, R. Drent, and V. Brown, eds. *Herbivores, Plants, and Predators*. London: Blackwell, pp. 55-84.
- Berenbaum, M.R. and A. R. Zangerl, 1999. Coping with life as a menu item: inducible defenses in plants. In R. Tollrian and C. D. Harvell, editors. *The Ecology and Evolution of Inducible Defenses*. Princeton: Princeton University Press, pp. 10-32.
- Berenbaum, M.R., 1999. Animal-plant warfare: molecular basis for cytochrome P450-mediated natural adaptation. In A. Puga and K. B. Wallace, eds. *Molecular Biology of the Toxic Response*. Philadelphia: Taylor and Francis, pp. 553-571.
- Berenbaum, M.R., 2001. Plant-herbivore interactions. C. W. Fox, D. A. Roff, and D. J. Fairbairn, eds. *Evolutionary Ecology: Concepts and Case Studies*. Oxford University Press, pp. 303-314.
- Berenbaum, M.R. 2001. Relaciones entre Frugívoros y Plantas: intermediación química en la dispersión de frutos. pp. 377-399, Chapter 9 in: A.L. Anaya, F.J. Espinosa-García, and R. Cruz-Ortega, editors. *Relaciones Químicas entre Organismos: aspectos básicos y perspectivas de su aplicación*. Instituto de Ecología, UNAM y Plaza y Valdés, S.A. de C.V. México.
- Berenbaum, M. R., 2006. Celluloid Entomology. Challenges within Entomology: A Celebration of the Past 100 Years and a Look to the Next Century. K. Heinz, R. Frisbie, and C. Bograhn, ed. College Station: Texas A & M University. In press.
- Berenbaum, M.R. and P. Feeny, 2006. Chemical mediation of hostplant specialization: the *Papilio* paradigm. In K. Tilmon, ed. *Evolutionary Biology of Plant and Insect Relationships*. Davis: University of California Press
- Berenbaum, M.R. 2006. Cultural contributions of insects beyond agri-culture. In R. Footit, ed. *Insect Biodiversity: Science and Society*. Blackwell.
- Berenbaum, M.R. 2006. On the literary life of insects. Chap.1 in E. Brown, ed. *Insect Poetics*. University of Minnesota Press.
- Ort, D.R., E.A. Ainsworth, M. Aldea, D.J. Allen, C.J. Bernacchi, M.R. Berenbaum, G.A. Bollero, G. Cornic, P.A. Davey, O. Dermody, F.G. Dohleman, J.G. Hamilton, E.A. Heaton, A.D.B. Leakey, J. Mahoney, T.A. Mies, P.B. Morgan, R.L. Nelson, A. Rogers, A.R. Zangerl, X-G Zhu, E.H. DeLucia, S.P. Long. 2006. SoyFACE: The effects and interactions of elevated [CO<sub>2</sub>] and [O<sub>3</sub>] on soybean. Pages 71-86 in: *Managed ecosystems and CO<sub>2</sub>: Case studies, processes and perspectives*. Ecological Studies, Vol. 187; Nösberger, J.; Long, S.P.; Norby, R.J.; Stitt, M.; Hendrey, G.R.; Blum, H. (Eds.); Springer Verlag, 459 p.
- Berenbaum, M. R., 2006. Celluloid entomology In K Heinz, RE Frisbie and CE Bogran, eds, *Entomology at the Land Grant University: Perspectives from the Texas A & M University Department Centenary*. College Station: Texas A & M University.
- Berenbaum, M.R. and P. Feeny, 2007. Chemical mediation of hostplant specialization: the papilionid paradigm. Pages 3-19 in K. Tilmon, ed., *Specialization, Speciation, and Radiation: The Evolutionary Biology of Herbivorous Insects* University of California Press.
- Berenbaum, M., 2008. Insect Biodiversity: Millions and millions. In R. Footit and P. Adler, Eds., *Insect Biodiversity: Science and Society*, Blackwell Publishing, pp. 576-582. (Second edition, 2015).
- Berenbaum, M and R. Leskosky, 2009. Movies, Insects In. *Encyclopedia of Insects* (2<sup>nd</sup> Ed.), University of California Press.
- Berenbaum, M. R. 2010. There must be finches—Charles Darwin, prickly pears and pollination biology. In P. Grant and R.

- Grant, eds. In Search of the Causes of Evolution: from Field Observations to Mechanisms. Princeton: Princeton University Press.
- Berenbaum, M.R., 2010. Chapters 54-59 in Life, D. Sadava, C. Heller, D. Hillis and M. Berenbaum, Sunderland: Sinauer Associates. (10<sup>th</sup> edition 2013).
- Berenbaum, M.R. and M. A. Schuler, 2010. Elucidating evolutionary mechanisms in plant-insect interactions: key residues as key innovations. In M. Bell, D. Futuyma, W. F. Eanes and J.S. Levinton, eds. Evolution Since Darwin: The First 150 Years. Sunderland: Sinauer Associates.
- Berenbaum, MR, 2016. Are mammals just furry insects? Convergences in mammalian and insect chemical ecology. Chapter 1 in Chemical Signals in Vertebrates 13 (B. Schulte, T. Goodwin, M. Ferkin, editors). Springer.
- Berenbaum, M.R., 2018. Insect knowledge in the Middle Ages. Varrack Nazari, editor. London: Bloomsbury Press.
- Calla, B. and M.R. Berenbaum, 2020. Cytochrome P450s in the era of transcriptomics. Chapter 6 in M. Shelomi, ed. Transcriptomics in Entomological Research. Boston: CABI. pp. 99-112.

### Refereed Journal Articles

- Berenbaum, M., 1978. Toxicity of a furanocoumarin to armyworms: a case of biosynthetic escape from insect herbivores. *Science* 201: 532-534.
- Berenbaum, M., 1978. *Taenidia integerrima*, a new foodplant record for *Papilio polyxenes*. *J. Lep. Soc.* 32: 303-304.
- Berenbaum, M., 1980. Adaptive significance of midgut pH in larval Lepidoptera. *Am. Nat.* 115: 138-146.
- Berenbaum, M., 1981. Note on an oviposition "mistake" by *Papilio glaucus* (Papilionidae). *J. Lep. Soc.* 35: 75.
- Berenbaum, M., 1981. Effects of linear furanocoumarins on an adapted specialist insect (*Papilio polyxenes*). *Ecological Entomology* 6: 345-351.
- Berenbaum, M., 1981. Patterns of furanocoumarin production and insect herbivory in a population of wild parsnip (*Pastinaca sativa* L.). *Oecologia* 49: 236-244.
- Berenbaum, M., 1981. Patterns of furanocoumarin distribution and insect herbivory in the Umbelliferae: plant chemistry and community structure. *Ecology* 62: 1254-1266.
- Berenbaum, M. and P. Feeny, 1981. Toxicity of angular furanocoumarins to swallowtails: escalation in the coevolutionary arms race. *Science* 212: 927-929.
- Berenbaum, M., 1982. New hostplant records for *Agonopterix clemensella* (Lepidoptera: Oecophoridae). *J. Lep. Soc.* 36: 160.
- Berenbaum, M., 1983. Coumarins and caterpillars: a case for coevolution. *Evolution* 37: 163-179.
- Berenbaum, M., 1983. Coumarins and caterpillars: a case for coevolution. *BioScience* 33: 194-195 (condensation).
- Berenbaum, M. and S. Passoa, 1983. Notes on the biology of *Agonopterix alstroemeriana* with descriptions of the immature stages. (Lepidoptera: Oecophoridae). *J. Lep. Soc.* 37: 39-45.
- Rausher, M. and M. Berenbaum, 1983. A natural occurrence of intertribal copulation in the Papilionidae. *J. Lep. Soc.* 37: 81-82.
- Berenbaum, M. and E. Miliczky, 1984. Mantids and milkweed bugs: efficacy of aposematic coloration against invertebrate predators. *Am. Midl. Nat.* 111: 64-68. (abstracted in *Science News*, Geo).
- Berenbaum, M., 1984. Effects of tannin ingestion on two species of papilionid caterpillars. *Ent. Exp. Appl.* 34: 245-250.
- Berenbaum, M., A.R. Zangerl and J.K. Nitao. 1984. Furanocoumarins in seeds of wild and cultivated parsnip (*Pastinaca sativa*). *Phytochemistry* 23: 1809-1810.
- Berenbaum, M. 1985. Brementown revisited: allelochemical interactions in plants. *Rec. Adv. Phytochem.* 19: 139-169.

- Steinly, B. and M. Berenbaum, 1985. Histopathological effects of tannins on the midgut epithelium of *Papilio polyxenes* and *Papilio glaucus*. Ent. Exp. Appl. 11: 1349-1358.
- Berenbaum, M. and J. Neal, 1985. Synergism between myristicin and xanthotoxin, a naturally co-occurring plant toxicant. J. Chem. Ecol. 11: 1349-1358.
- Tuveson, R.T., M. Berenbaum and E. Heininger, 1986. Inactivation and mutagenesis by phototoxins using *Escherichia coli* strains differing in sensitivity to near and far-ultraviolet light. J. Chem. Ecol. 12: 933- 948.
- Berenbaum, M.R. and A.R. Zangerl, 1986. Variation in seed furanocoumarin content within the wild parsnip (*Pastinaca sativa*). Phytochemistry 25: 659-661.
- Berenbaum, M.R., A.R. Zangerl and J.K. Nitao, 1986. Constraints on chemical coevolution; Wild parsnips and the parsnip webworm. Evolution 40: 1215-1228.
- Zangerl, A.R. and M.R. Berenbaum, 1987. Furanocoumarins in wild parsnips: effects of photosynthetically active radiation, ultraviolet light and soil nutrients. Ecology 68: 516-520.
- Larson, R.A. and M.R. Berenbaum, 1988. Environmental phototoxicity. Environmental Science & Technology 22: 354-360.
- Nitao, J. and M. Berenbaum, 1988. Laboratory rearing of the parsnip webworm, *Depressaria pastinacella* (Lepidoptera: Oecophoridae). Ann. Ent. Soc. Amer. 81: 485-487.
- Larson, R.A., K. Marley, R. Tuveson and M. Berenbaum, 1988. Beta-carboline alkaloids: mechanisms of phototoxicity to bacteria and insects. Photochem. Photobiol. 48: 665-674.
- Berenbaum, M.R. and R.A. Larson, 1988. Flux of singlet oxygen from leaves of phototoxic plants. Experientia 44: 1030-1031.
- Leskosky, R.J. and M.R. Berenbaum, 1988. Insects in animated films; or, not all "bugs" are bunnies. Bull. Ent. Soc. Amer. 34: 55-63.
- Neal, J. and M. Berenbaum, 1989. Decreased sensitivity of mixed-function oxidases from *Papilio polyxenes* to inhibitors from host plants. J. Chem. Ecol. 15: 439-446.
- Sandberg, S. and M. Berenbaum, 1989. Leaf-tying by tortricid larvae as an adaptation for feeding on phototoxic *Hypericum perforatum*. J. Chem. Ecol. 15: 875-885.
- Berenbaum, M. and M. Isman, 1989. Herbivory in holometabolous and hemimetabolous insects: contrasts between Orthoptera and Lepidoptera. Experientia 45: 229-236.
- Cohen, M.B., M.R. Berenbaum and M.A. Schuler. 1989. Induction of cytochrome P450-mediated detoxification in the black swallowtail. J. Chem. Ecol. 15: 2347-2355.
- Zangerl, A., M.R. Berenbaum and E. Levine, 1989. Genetics of seed chemistry and morphology in *Pastinaca sativa*. (Umbelliferae) J. Heredity 80: 404-407.
- Lee, K. and M.R. Berenbaum, 1989. Action of antioxidant enzymes and cytochrome P450 monooxygenases in the cabbage looper in response to plant phototoxins. Arch. Insect Biochem. Phys.: 10: 151-162.
- Berenbaum, M.R., A.R. Zangerl and K. Lee, 1989. Chemical barriers to adaptation by a specialist herbivore. Oecologia 80: 501-506.
- Tuveson, R.W., R.A. Larson, K.A. Marley, G. Wang and M.R. Berenbaum, 1989. Sanguinarine, a phototoxic H<sub>2</sub>O<sub>2</sub> producing alkaloid. Photochem. Photobiol. 50: 733-758.
- Berenbaum, M. R., 1990. The natives knew—to find effect pesticides, examine American-Indian writings. Chemtech, 1990 (May): 275-279.



- Berenbaum, M., 1990. Evolution of specialization in insect-umbellifer associations. *Ann. Rev. Ent.* 35: 319-343.
- Zangerl, A.R. and M.R. Berenbaum, 1990. Furanocoumarin induction in wild parsnip: genetics and populational variation. *Ecology* 71: 1933-1940.
- Lee, K. and M. R. Berenbaum, 1990. Defense of parsnip webworm against phototoxic furanocoumarins: the role of antioxidant enzymes. *J. Chem. Ecol* 16: 2451-2460.
- Cohen, M.B., M.R. Berenbaum and M.A. Schuler, 1990. Immunochemical analysis of cytochrome P450 monooxygenase diversity in the black swallowtail caterpillar, *Papilio polyxenes* *Insect Biochem.* 20: 777-783.
- Berenbaum, M.R. and K. Lee, 1990. Toxicity of nonhost phototoxins to a specialist insect. *Chemoecology* 1: 81-85.
- Leslie, A.J. and M.R. Berenbaum, 1990. Role of the osmeterial gland of swallowtail larvae in defense against an avian predator. *J. Lep. Soc.* 44: 245-251.
- Berenbaum, M.R., 1990. "Coevolution" between parsnip webworms and wild parsnips: should the "co" go? *Symp. Biol. Hung.* 39: 331-336.
- Zangerl, A., J. Nitao and M.R. Berenbaum, 1991. Parthenocarpic fruits in wild parsnip: decoy defense against a specialized herbivore. *Evol. Ecol.* 5: 136-145 (featured in News and Views, *Nature* 351:189).
- Berenbaum, M. R., 1991. Comparative processing of allelochemicals in the Papilionidae (Lepidoptera). *Arch. Insect Biochem. Physiol.* 17(4): 213-222.
- Berenbaum, M.R., J.K. Nitao, and A.R. Zangerl, 1991. Adaptive significance of furanocoumarin diversity in *Pastinaca sativa* (Apiaceae). *J. Chem. Ecol.* 17: 207-215.
- Berenbaum, M.R. and A. Zangerl, 1991. Acquisition of a native host plant into the diet of an introduced oligophagous herbivore. *Oikos*: 62: 153-159.
- Lee, K. and M.R. Berenbaum, 1992. Ecological aspects of antioxidant enzymes and glutathione-S-transferases in three *Papilio* species. *Biochem. Syst. Ecol.* 20: 197-207.
- Berenbaum, M.R. and A.R. Zangerl, 1992. Genetics of physiological and behavioral resistance to host furanocoumarins in the parsnip webworm. *Evolution* 46: 1373-1384.
- Berenbaum, M.R., B. Moreno, and E. Green, 1992. Soldier bug predation on swallowtail caterpillars: circumvention of defensive chemistry. *J. Insect Behavior* 5: 547-553.
- McCloud, E., M. Berenbaum, and R. Tuveson, 1992. Furanocoumarin content and phototoxicity of rough lemon (*Citrus jambhiri*) foliage exposed to enhanced UVB irradiation. *J. Chem. Ecol.* 18: 1125-1137.
- Cohen, M.B., M.A. Schuler, and M.R. Berenbaum, 1992. A host-inducible cytochrome P450 from a host-specific caterpillar: molecular cloning and evolution. *Proceedings of the National Academy of Science* 89: 10920-10924.
- Zangerl, A.R. and M.R. Berenbaum, 1992. Oviposition patterns and hostplant suitability: parsnip webworms and wild parsnip. *Am. Midl. Nat.* 128: 292-298.
- Zangerl, A.R. and M.R. Berenbaum, 1993. Plant chemistry and insect adaptations to plant chemistry as determinants of hostplant utilization patterns. *Ecology* 74: 478-504.
- Lee, K. and M.R. Berenbaum, 1993. Food utilization and antioxidant enzyme activities of black swallowtail in response to plant phototoxins. *Archives of Insect Biochemistry and Physiology* 23: 79-89.
- Barrido, R., J. Brown. R. Novak, and M. Berenbaum, 1993. A test of the efficacy of ultrasonic mosquito repellents vector control. *Vector Control Bull. North Central States* 2(2): 65-69.

- Berenbaum, M.R. and A.R. Zangerl, 1993. Furanocoumarin metabolism in *Papilio polyxenes*: genetic variability, biochemistry, and ecological significance. *Oecologia* 95: 370-375.
- Berenbaum, M.R., E.S. Green, and A.R. Zangerl, 1993. Web costs and web defense in the parsnip webworm *Depressaria pastinacella* (Lepidoptera: Oecophoridae). *Environmental Entomol.* 22: 791-795.
- Asthana, A., E.S. McCloud, M.R. Berenbaum and R.W. Tuveson, 1993. Phototoxicity of *Citrus jambhiri* to fungi under enhanced UV-B radiation: role of furanocoumarins. *J. Chem. Ecol.* 19: 2813-2830.
- McCloud, E.S. and M.R. Berenbaum, 1994. Stratospheric ozone depletion and plant-insect interactions: elevated UVB radiation alters the foliage quality of *Citrus jambhiri* for *Trichoplusia ni*. *J. Chem. Ecol.* 20: 525-539.
- Ma, R., M.B. Cohen, M.R. Berenbaum, and M.A. Schuler, 1994. Black swallowtail (*Papilio polyxenes*) alleles encode cytochrome P450s that selectively metabolize linear furanocoumarins. *Archives Biochem. Biophys.* 310: 332-340.
- Berenbaum, M.R. and T. Harrison, 1994. *Agonopterix alstroemeriana* (Oecophoridae) and other lepidopteran associates of poison hemlock (*Conium maculatum*) in east central Illinois. *Great Lakes Entomologist* 27: 1-5.
- Prapaipong, H., C. Hung, M.R. Berenbaum and M.A. Schuler, 1994. The role of P450s in insect-plant interactions. *Proc. 8th Int. Conf. Cyt. P450. J. Libbey Eurotext Ltd.*, pp. 249-255.
- Berenbaum, M.R. and A.R. Zangerl, 1994. Costs of inducible defense in insects: effects of protein limitation on growth, silk production, and detoxification in parsnip webworms. *Ecology* 75: 2311-2317.
- Green, E. and M.R. Berenbaum, 1994. Phototoxicity of citral to *Trichoplusia ni* (Lepidoptera: Noctuidae) and its amelioration by vitamin A. *Photochem. Photobiol.* 60: 459-462.
- Hung, C.F., H. Prapaipong, M.R. Berenbaum and M.A. Schuler, 1994. Differential induction of cytochrome P450 transcripts in *Papilio polyxenes* by linear and angular furanocoumarins. *Insect Biochem. Mol. Biol.* 25: 89-99.
- Prapaipong, H., M.R. Berenbaum and M.A. Schuler, 1994. Transcriptional regulation of the *Papilio polyxenes CYP6B1* gene. *Nucleic Acid Res.* 22: 3210-3217.
- Berenbaum, M.R., 1995. Chemical defense: theory and practice. *Proc. Nat. Acad. Sci.* 92: 2-8.
- Berenbaum, M.R., 1995. Turnabout is fair play: secondary roles for primary metabolites. *J. Chem. Ecol.* 21: 125-139.
- Hung, C.F., T.L. Harrison, M.R. Berenbaum, and M.A. Schuler, 1995. CYP6B3--a second furanocoumarin-inducible cytochrome P450 expressed in *Papilio polyxenes*. *Insect Molecular Biology* 4: 149-160.
- Berenbaum, M.R., 1995. Aposematism and mimicry in caterpillars. *J. Lep. Soc.* 49: 44-55.
- Berenbaum, M.R., 1995. Phototoxicity of plant secondary metabolites; insect and mammalian perspectives. *Arch. Insect Biochem. Physiol.* 29: 119-134.
- Zangerl, A.R. and M.R. Berenbaum, 1994/5. Costs of inducible defense in plants: effects of light and nutrient limitation of furanocoumarin production in wild parsnip. *Chemoecology* 5/6: 37-42.
- Klaper, R. and M.R. Berenbaum, 1996. Effects of anthocyanin content on *Brassica rapa* resistance to UVB radiation. *Photochem. Photobiol.* 63: 811-813.
- Heinz, C.A., A.R. Zangerl, and M.R. Berenbaum, 1996. Effects of natural and synthetic neuroactive substances on the growth and feeding of the cabbage looper *Trichoplusia ni*. *Ent. Exp. Appl.* 80: 443-451.
- Berenbaum, M.R., 1996. On the evolution of specialization (introduction to symposium volume). *Am. Nat.* 148: S78-S83.

- Berenbaum, M.R., C. Favret, and M.A. Schuler, 1996. On defining "key innovations" in an adaptive radiation: cytochrome P450s and Papilionidae. *Am. Nat.* 148: S139-A155.
- Lohman, D., A.R. Zangerl, and M.R. Berenbaum, 1996. Impact of floral herbivory by parsnip webworm (Oecophoridae: *Depressaria pastinacella* Duponchel) on pollination and fitness of wild parsnip (Apiaceae: *Pastinaca sativa* L.). *Am. Midl. Nat.* 136: 407-412.
- Hung, C.-H., R. Holzmacher, E. Connolly, M. Berenbaum, and M. Schuler, 1996. Conserved promoter elements in the *CYP6B* genes suggest common ancestry for cytochrome P450 monooxygenases mediating furanocoumarin detoxification. *Proceedings of the National Academy of Sciences* 93: 12200-12205.
- Zangerl, A.R., E.S. Green, R. L. Lampman, and M. R. Berenbaum, 1997. Phenological changes in primary and secondary chemistry of reproductive parts of *Pastinaca sativa*. *Phytochemistry* 44: 825-831.
- Zangerl, A.R., A. M. Arntz, and M.R. Berenbaum, 1997. The physiological price of an induced chemical defense: photosynthesis, respiration, biosynthesis, and growth. *Oecologia* 109: 433-441.
- Hung, C.-H., M. Berenbaum, and M. Schuler, 1997. Isolation and characterization of CYP6B4, a furanocoumarin-inducible cytochrome P450 from a polyphagous caterpillar (Lepidoptera: Papilionidae). *Insect Biochem. Mol. Biol.* 27: 377-385.
- Carroll, M., A. Hanlon, T. Hanlon, A. R. Zangerl, and M. R. Berenbaum, 1997. Behavioral effects of carotenoid sequestration by the parsnip webworm, *Depressaria pastinacella*. *J. Chem. Ecol.* 23: 2707-2719.
- Zangerl, A.R., M.R. Berenbaum, 1997. Cost of chemically defending seeds – furanocoumarins and *Pastinaca sativa*. *American Naturalist.* 150: 491-504.
- Carloye, L., J. V. Maddox, and M. R. Berenbaum, 1998. Influence of natural and synthetic compounds on the infectivity of a *Vairimorpha* (Microspora) sp. in *Trichoplusia ni* (Lepidoptera: Noctuidae) larvae. *Environmental Entomology* 27: 976-983.
- Frankel, S., G. Robinson, and M. R. Berenbaum, 1998. Antioxidant capacity and correlated characteristics of 14 monofloral honeys. *J. Apicultural Res.* 37: 27-31.
- Berenbaum, M. R. and A. R. Zangerl, 1998. Chemical phenotype matching between a plant and its insect herbivore. *Proceedings of the National Academy of Sciences U.S.A.* 95: 13743-13748.
- Zangerl, A. R. and M. R. Berenbaum, 1998. Damage inducibility of primary and secondary metabolites in *Pastinaca sativa*. *Chemoecology* 8: 187-193.
- Green, E.S., A.R. Zangerl, and M.R. Berenbaum, 1998. An ecological benefit of silk-spinning behavior in the parsnip webworm, *Depressaria pastinacella* (Lepidoptera: Oecophoridae). *J. Insect Behavior* 11: 761-772.
- Frankel, S. and M. R. Berenbaum, 1999. Effects of light regime on antioxidant content of foliage in a tropical forest community. *Biotropica* 31: 422-429.
- Timmermann, S., A. R. Zangerl, and M. R. Berenbaum, 1999. Differential accumulation of ascorbic acid in two species of lepidopteran larvae. *Archives Insect Biochem. Physiol.* 42: 26-36.
- Timmermann, S. and M. R. Berenbaum, 1999. Uric acid in swallowtail caterpillars: chemical mimicry or antioxidant defense? *J. Lep. Soc.* 53: 104-107.
- Wright, C. L., E. S. Green, and M. R. Berenbaum, 1999. A yellow eye color mutation in the cabbage looper, *Trichoplusia ni* (Lepidoptera: Noctuidae). *Ann. Ent. Soc. Amer.* 92: 447-450.
- Berenbaum, M.R., and Passoa, S., 1999. Generic phylogeny of North American Depressariinae (Lepidoptera: Elachistidae) and hypotheses about coevolution. *Annals of the Entomological Society of America*, 92(6): 971-986.

- Carroll, M.J., A.R. Zangerl, and M. R. Berenbaum, 2000. Octyl acetate and octyl butyrate in the mature fruits of the wild parsnip, *Pastinaca sativa* (Apiaceae). *J. Heredity* 91: 68-71.
- McCloud, E. and M. R. Berenbaum, 2000. Effects of enhanced UVB radiation on a weedy forb (*Plantago lanceolata*) and its interactions with a generalist and specialist herbivore. *Ent. Exp. Appl.* 93: 233-247.
- McCloud, E. and M. R. Berenbaum, 2000. Effects of seasonal variation in UV-B on a temperate perennial forb. *Plant Ecology* 146: 61-66.
- Li, X., A.R. Zangerl, M. A. Schuler, and M. R. Berenbaum, 2000. Cross-resistance between alpha-cypermethrin and xanthotoxin in *Helicoverpa zea*. *J. Econ. Entomol.* 93: 19-25.
- Li, X., M. A. Schuler, and M. R. Berenbaum, 2000. Molecular cloning and expression of CYP6B8, a xanthotoxin-inducible cytochrome P450 cDNA from *Helicoverpa zea*. *Insect Molecular Biology* 30: 75-84.
- Wraight, C.L., A. R. Zangerl, M. Carroll, and M. R. Berenbaum, 2000. Absence of toxicity of *Bacillus thuringiensis* pollen to black swallowtails under field conditions. *Proceedings of the National Academy of Sciences* 97: 7700-7703.
- Chen, L., A. Mehta, M. R. Berenbaum, A. R. Zangerl, and N. Engeseth, 2000. Honeys from different floral sources as inhibitors of enzymatic browning in fruit and vegetable homogenates. *J. Ag. Food Chem.* 48: 4997-5000.
- Li W. Berenbaum MR. Schuler MA. 2001. Molecular analysis of multiple CYP6B genes from polyphagous *Papilio* species. *Insect Biochemistry & Molecular Biology.* 31: 999-1011.
- Berenbaum, M.R., 2001. Chemical mediation of coevolution: phylogenetic evidence for Apiaceae and associates. *Ann. Mo. Bot. Gard.* 88: 45-59.
- Hamilton, J., A. R. Zangerl, E. Delucia and M. R. Berenbaum, 2001. The carbon/nutrient balance: its rise and fall. *Ecology Letters* 4: 86-95.
- Petersen, R. A., A. R. Zangerl, M. R. Berenbaum, and M. A. Schuler, 2001. Expression of CYP6B1 and CYP6B3 cytochrome P450 monooxygenases and furanocoumarin metabolism in different tissues of *Papilio polyxenes* (Lepidoptera: Papilionidae). *Insect Biochem. Mol. Biol.* 31: 679-69
- Harrison, T., A. R. Zangerl, M. A. Schuler, and M. R. Berenbaum, 2001. Developmental variation in cytochrome P450 expression in *Papilio polyxenes*. *Arch. Insect Biochem Physiol.* 48: 179-189
- McKenna, D. D., K. M. McKenna, S. B. Malcolm, and M. R. Berenbaum, 2001. Roadkill Lepidoptera: implications of roadways, roadsides, and traffic rates for the mortality of butterflies in central Illinois. *J. Lep. Soc.* 55: 63-68.
- Zangerl, A.R., D. McKenna, C. L. Wraight, P. Ficarello, R. Warner and M. R. Berenbaum, 2001. Effects of exposure to event 176 Bt corn pollen on monarch and black swallowtail caterpillars under field conditions. *Proc. Nat. Acad. Sci. USA* 98: 11908-11912.
- Green, E.S., A. R. Zangerl, and M. R. Berenbaum, 2001. Effects of phytic acid and xanthotoxin on growth and detoxification in caterpillars. *J. Chem. Ecol.* 27: 1763-1773.
- McKenna, D. D., A. R. Zangerl, and M. R. Berenbaum, 2001. Native hymenopteran predator of *Agonopterix alstroemeriana* (Lepidoptera: Oecophoridae) in east-central Illinois. *Great Lakes Ent.* 34: 71-75.
- Carroll, M. J. and M. R. Berenbaum, 2001. Behavioral responses of the parsnip webworm to hostplant volatiles. *J. Chem. Ecol.* 28: 1365-1375.
- Zangerl, A.R., J. G. Hamilton, T. J. Miller, A. R. Crofts, K. Oxborough, M. R. Berenbaum, and E. H. DeLucia, 2002. Impact of folivory on photosynthesis is greater than the sum of its holes. *Proc. Natl. Acad. Sci. USA* 99: 1088-1091.

- Li, X., M. A. Schuler, and M. R. Berenbaum, 2002. CYP6B and actin genes expressed in *Helicoverpa zea* and *H. armigera*: paralogy/orthology identification, gene conversion, and evolution. *Insect Biochem. Mol. Biol.* 32: 311-320.
- Chen, J.-S., M.R. Berenbaum and M.A. Schuler. 2002. Amino acids in SRS1 and SRS6 are critical for furanocoumarin metabolism by CYP6B1v1, a cytochrome P450 monooxygenase. *Insect Mol. Biol.* 11: 175-186.
- Eisner, T. and M. Berenbaum, 2002. Chemical ecology: missed opportunities? *Science* 295: 1973 (editorial).
- Li, X., M. R. Berenbaum and M. A. Schuler, 2002. Plant allelochemicals differentially regulate *Helicoverpa zea* cytochrome P450 genes. *Insect Molecular Biology.* 11(4): 343-351.
- Berenbaum, M.R., 2002. Post-genomic chemical ecology: From genetic code to ecological interactions. *J. Chem. Ecol.* 28: 873-896.
- Cianfrogna, J., A. R. Zangerl, and M. R. Berenbaum, 2002. Dietary and developmental effects on furanocoumarin metabolism in an oligophagous insect. *J. Chem. Ecol.* 28(7): 1349-1364.
- Cianfrogna, J., A.R. Zangerl, and M.R. Berenbaum, 2002. Effects of furanocoumarins on feeding behavior of parsnip webworms (*Depressaria pastinacella*) *J. Chem. Ecol.* 28: 1365-1375.
- Li, X.C., M.R. Berenbaum, M.A. Schuler, 2002. Cytochrome P450 and actin genes expressed in *Helicoverpa zea* and *Helicoverpa armigera*: paralogy/orthology identification, gene conversion and evolution *Insect Biochemistry & Molecular Biology.* 32(3): 311-320.
- Nitao, J., J. Hamilton, A. Zangerl, E DeLucia, and M. Berenbaum, 2002. CNB—Requiescat in pace? *Oikos* 98: 540-546.
- Zangerl, A.R., T. Huang, J. McGovern, and M. R. Berenbaum, 2002. Paradoxical host shift in *Depressaria pastinacella* in North America: is enemy-free space involved? *Oikos* 98: 131-136.
- Li, X., M. A. Schuler and M. R. Berenbaum, 2002. Jasmonate and salicylate induce expression of cytochrome P450 genes in insects. *Nature* 419: 712-715.
- Li, W., R. A. Petersen, M. A. Schuler and M.R. Berenbaum. 2002. CYP6B cytochrome P450 monooxygenases from *Papilio canadensis* and *Papilio glaucus*: potential contributions of sequence divergence to host plant associations *Insect Molecular Biology* 11: 343-351.
- Nitao, J.K., A.R. Zangerl, M.R. Berenbaum, 2002. CNB: requiescat in pace? *Oikos.* 98(3): 540-546
- McKenna, D.D. and M. R. Berenbaum, 2003. A field investigation of *Depressaria* (Lepidoptera: Oecophoridae) host plants and ecology in the western United States. *J. Lep. Soc.* 57: 36-42.
- Petersen, R., H. Prapaipong, M.R. Berenbaum, and M.A. Schuler. 2003. Transcriptional response elements in the promoter of CYP6B1v3, an insect P450 gene regulated by plant chemicals. *Biochim. Biophys. Acta* 1619: 269-282.
- Zangerl, A.R. and M. R. Berenbaum, 2003. Phenotype matching in wild parsnip and parsnip webworms: causes and consequences. *Evolution* 57: 806-815.
- Nitao, J.K., M. Berhow, S. M. Duval, D. Weisleder, S. F. Vaugh, A. R. Zangerl, and M.R. Berenbaum, 2003. Characterization of furanocoumarin metabolites in the parsnip webworm, *Depressaria pastinacella*. *J. Chem. Ecol.* 29: 671-682.
- Wen, Z., L Pan, M. R. Berenbaum, M. A. Schuler, 2003. Metabolism of linear and angular furanocoumarins by *Papilio polyxenes* CYP6B1 coexpressed with NADPH cytochrome P450 reductase. *Insect Biochem. Mol. Biol* 333: 937-947.
- Baudry, J., W Li, L. Pan, M.R. Berenbaum, M.A. Schuler, 2003. Molecular docking of substrate and inhibitors in the catalytic site of CYP6B1, an insect cytochrome P450 monooxygenase. *Protein Engineering* 16: 577-587.

- Zangerl, A, M. Berenbaum, E. DeLucia, J.K. Nitao. 2003. Fathers, fruits and photosynthesis: pollen donor effects on fruit photosynthesis in wild parsnip. *Ecol. Lett.* 6: 996-970.
- Li, W.M., M.A. Schuler, and M.R. Berenbaum, 2003. Diversification of furanocoumarin-metabolizing cytochrome P450 monooxygenases in two papilionids: Specificity and substrate encounter rate. *Proceedings of the National Academy of Sciences.* 100(Suppl2): 14593-14595.
- Cozzarelli, N.R., J. Halpern, J.P. Allison, H.C. Andersen, F.M. Ausubel, R.N. Beachy, J.A. Beavo, S.J. Benkovic, M.R. Berenbaum, E.R. Berlekamp, B.J. Berne, P.J. Bjorkman, P. Borst, D. Botstein, M.B. Burg, C.R. Cantor, A. Cerami, M.J. Chrispeels, M.T. Clegg, J.M. Coffin, S.N. Cohen, J.E. Dahlberg, C. de Boer, P.V. De Camilli, W.F. Doolittle, et.al. 2003. Uncensored exchange of scientific results. *Proceedings fo the National Academy of Sciences of the United States of America.* 100(4): 1464.
- Petersen, R. A., H. Niamsup, M.R. Berenbaum, M.A. Schuler, 2003. Transcriptional response elements in the promoter of CYP6B1, an insect P450 gene regulated by plant chemicals. *Biochimica et Biophysica Acta-General Subjects.* 1619(3): 269-282.
- Li, X., J. Baudry, M. R. Berenbaum, and M. A. Schuler. 2004. Structural and functional divergence of insect CYP6B proteins: from specialist to generalist P450. *Proc. Natl. Acad. Sci. USA* 101: 2939-2944.
- Brown RP., M.A. Schuler, and M.R. Berenbaum. 2004. Transcription of a lepidopteran cytochrome P450 promoter is modulated by multiple elements in its 5'UTR and repressed by 20-hydroxyecdysone. *Insect. Mol. Biol.* 13: 337-347
- Pan, L, Z. Wen, J. Baudry, M. R. Berenbaum, M. A. Schuler, 2004. Identification of variable amino acids in the SRS1 region of CYP6B1 modulating furanocoumarin metabolism. *Archives of Biochem. Biophys.* 422: 31-41.
- Ode, P., M. R. Berenbaum, A. R. Zangerl, I.A. W. Hardy. 2004. Tritrophic effects of wild parsnip chemistry on the parasitoid, *Copidosoma sosares* *Oikos* 104: 388-400.
- Hamilton, J.G., A.R. Zangerl, M.R. Berenbaum, J. Pippen, M Aldea, E.H. DeLucia, 2004. Insect herbivory in an intact forest understory under experimental CO2 enrichment. *Oecologia* 138: 566-573.
- Li, W., M. A. Schuler, A. R. Zangerl., and M.R. Berenbaum. 2004 Characterization and evolution of furanocoumarin-inducible cytochrome P450s from the parsnip webworm, *Depressaria pastinacella*. *Insect Molecular Biology* 13: 603-613
- Zangerl, A. R. and M.R. Berenbaum, 2004. Genetic variation in primary metabolites of *Pastinaca sativa*; can herbivores act as selective agents? *J. Chem. Ecol.* 30: 1985-2002.
- Sasabe, T., Z. Wen, M. Berenbaum and M.A. Schuler. 2004. Molecular analysis of CYP321A1, a novel cytochrome P450 involved in metabolism of allelochemicals (furanocoumarins) and insecticides (cypermethrin) in *Helicoverpa zea*. *Gene* 338: 163-175
- McDonnell, CM, RP Brown, MR Berenbaum, MA Schuler, 2004. Conserved regulatory elements in the promoters of two allelochemical-inducible cytochrome P450 genes differentially regulate transcription *Insect Biochem. Mol. Biol.* 34: 1129-1139
- Harrison, T L. and M.R. Berenbaum. 2005. Rutaceae-feeding *Agonopterix* (Hübner) (Lepidoptera: Elachistidae) in Illinois. *Proc. Ent. Soc. Wash.* 107: 162-175
- Aldea, M., J.G. Hamilton, J.P. Resti, A. Zangerl, M.R. Berenbaum, E. H. DeLucia, 2005 Indirect effects of insect herbivory on leaf gas exchange in soybean. *Plant Cell and Environment* 28: 402-411.
- Hamilton, J.G., O. Dermody, M. Aldea, A.R. Zangerl, A. Rogers, M. Berenbaum, and E. H. DeLucia. 2005 Anthropogenic changes in tropospheric composition increases susceptibility of soybean to insect herbivory. *Environmental Entomol.* 34: 479-485.

- Gog, L., M. R. Berenbaum, E. DeLucia, and A. R. Zangerl. 2005 Autotoxic effects of essential oils on photosynthesis in parsley, parsnip and rough lemon." *Chemoecology* 15: 115-119.
- Castells, E, MA Berhow, SF Vaughn and MR Berenbaum, 2005 Geographic variation in alkaloid production in *Conium maculatum* populations experiencing differential herbivory by *Agonopterix alstroemeriana*. *J. J Chem Ecol* . 31: 1693-1709
- Wen, Z; Baudry, J; Berenbaum, M; Schuler, M 2005 Ile115Leu mutation in the SRS1 region of an insect cytochrome P450 (CYP6B1) compromises substrate turnover via changes in a predicted product release channel *Protein Engineering, Design, and Selection (PEDS)* 18(4):191-199
- Knepp, RG, JG Hamilton, JE Mohan, AR Zangerl, MR Berenbaum and EH DeLucia, 2005 Elevated CO2 reduces leaf damage by insect herbivores in a forest community. *New Phytologist* 167: 207-218.
- Brown RP, CM McDonnell, MR Berenbaum, MA Schuler 2005. Regulation of an insect cytochrome P450 monooxygenase gene (*CYP6B1*) by aryl hydrocarbon and xanthotoxin response cascades. *Gene* 358: 39-52.
- Bidart-Bouzat M, R Mithen, MR Berenbaum 2005. Elevated CO2 influences herbivory-induced defense responses of *Arabidopsis thaliana*. *Oecologia* 145: 415-424.
- Gog, L., M. R. Berenbaum, E. DeLucia, and A. R. Zangerl. 2005 Autotoxic effects of essential oils on photosynthesis in parsley, parsnip and rough lemon *Chemoecology* 15: 115-119.
- Castells E, MA Berhow, SF Vaughn and MR Berenbaum, 2005 Geographic variation in alkaloid production in *Conium maculatum* populations experiencing differential herbivory by *Agonopterix alstroemeriana*. *J. Chem. Ecol.* 31: 1693-1709
- Zangerl, AR and MR Berenbaum, 2005. Increase in toxicity of an invasive weed after re-association with its coevolved herbivore. *Proc. Nat. Acad. Sci.* 102: 15529-15532
- Mao, W, S. Rupasinghe, AR Zangerl, MA Schuler, MR Berenbaum. 2006. Remarkable substrate specificity of CYP6AB3 in *Depressaria pastinacella*, a highly specialized caterpillar *Insect Molecular Biology* 15: 169-179
- Tang, J., R. Zielinski, A. Zangerl, A. Crofts, M. Berenbaum, E. DeLucia, 2006 The differential effects of herbivory by first and fourth instars of *Trichoplusia ni* (Lepidoptera: Noctuidae) on photosynthesis in *Arabidopsis thaliana* *J Exp. Bot* 57: 527-536
- McGovern, JL, AR Zangerl, PJ Ode and MR Berenbaum, 2006 Furanocoumarins and their detoxification in a tri-trophic interaction. *Chemoecol.* 16: 45-50.
- Carroll MJ. Berenbaum MR. 2006 Lutein sequestration and furanocoumarin metabolism in parsnip webworms under different ultraviolet light regimes in the montane west. *Journal of Chemical Ecology.* 32(2):277-305
- Wen, Z, MR Berenbaum and MA Schuler, 2006. Inhibition of CYP6B1-mediated detoxification of xanthotoxin by plant allelochemicals in the black swallowtail (*Papilio polyxenes*) *J Chem Ecol* 32(3):507-522
- Mao, W, J L McGovern, M A Berhow, A Zangerl, M R Berenbaum, 2006. Cytochrome P450-mediated metabolism of xanthotoxin by *Papilio multicaudatus*. *J. Chem. Ecol* 32(3):523-536
- Castells E. Berenbaum MR. 2006 Laboratory rearing of *Agonopterix alstroemeriana*, the defoliating poison hemlock (*Conium maculatum* L.) moth, and effects of piperidine alkaloids on preference and performance. *Environmental Entomology.* 35(3):607-615
- Johnson RM. Wen ZM. Schuler MA. Berenbaum MR. 2006 Mediation of pyrethroid insecticide toxicity to honey bees (Hymenoptera : Apidae) by cytochrome P450 monooxygenases. *Journal of Economic Entomology.* 99(4):1046-1050

- Weinstock GM et al. 2006 Insights into social insects from the genome of the honey bee *Apis mellifera*. *Nature* 443(7114):931-949
- Claudianos, C, H Ranson, R Johnson, S Biswas, MA Schuler, MR Berenbaum, R Feyereisen, JG Oakeshott, 2006. A deficit of detoxification enzymes: pesticide sensitivity and environmental response in the honey bee. *Insect Molecular Biology* 15(5):615-636
- Aldea, M, JG Hamilton, JP Resti, AR Zangerl, MR Berenbaum, TD Frank and EH DeLucia 2006. Comparison of photosynthetic damage from arthropod herbivory and pathogen infection in understory hardwood saplings. *Oecologia* 149(2):221-232
- Zeng R, G Niu, Z Wen MA Schuler and MR Berenbaum, 2006. Toxicity of aflatoxin B1 to *Helicoverpa zea* and bioactivation by cytochrome P450 monooxygenases. *J. Chem. Ecol.* 32(7):1459-1471
- Wen ZM, Rupasinghe S, Niu GD, Berenbaum MR, Schuler MA. 2006 CYP6B1 and CYP6B3 of the black swallowtail (*Papilio polyxenes*): Adaptive evolution through subfunctionalization. *Molecular Biology & Evolution*. 23(12):2434-2443
- Zangerl, A.R. and M.R. Berenbaum. 2006. Parsnip webworms and host plants at home and abroad: trophic complexity in a geographic mosaic. *Ecology* 87: 3070-3081
- Zeng RS, Z Wen, MA Schuler, MR Berenbaum, 2007. Allelochemical induction of cytochrome P450 monooxygenases and amelioration of xenobiotic toxicity in *Helicoverpa zea*. *J Chem Ecol.* 33(3):449-461
- Li, X., M.A. Schuler, M.R. Berenbaum. 2007. Molecular mechanisms of metabolic resistance to synthetic and natural xenobiotics *Annual Review of Entomology* 51: 231-253.
- Mao, W, MA Schuler, MR Berenbaum, 2007 Cytochrome P450s in *Papilio multicaudatus* and the transition from oligophagy to polyphagy in the Papilionidae. *Insect Molecular Biology* 6(4):481-490
- Chambers JLE, Berenbaum MR, Zangerl AR. 2007. Benefits of trenching behavior in the context of an inducible defense. *Chemoecology*. 17(3):125-130,
- Mao, W, S Rupasinghe, A Zangerl, MR Berenbaum, MA Schuler, 2007. Allelic variation in the *Depressaria pastinacella* CYP6AB3 protein enhances metabolism of plant allelochemicals by altering a proximal surface residue and potential interactions with cytochrome P450 reductase *J. Biol. Chem.* 282(14):10544-10552
- Knepp, RG, JG Hamilton, AR Zangerl, MR Berenbaum and E DeLucia, 2007. Foliage of oaks grown under elevated CO<sub>2</sub> reduces performance of *Antheraea polyphemus* (Lepidoptera: Saturniidae). *Environ Entomol* 36(3):609-617
- Carroll, MJ, EC Lampert, MR Berenbaum, JS Noyes and PJ Ode, 2007 New records of *Copidosoma sosares* (Walker, 1837) (Hymenoptera: Encyrtidae), a parasitoid of the parsnip webworm (*Depressaria pastinacella*) (Lepidoptera: Elachistidae), in western North America. *J. Kansas Ent. Soc.* 80(4):309-318
- O'Neill, B., AR Zangerl, E DeLucia and MR Berenbaum, 2008. Longevity and fecundity of Japanese beetle (*Popillia japonica* Newman) on foliage grown under elevated CO<sub>2</sub> or O<sub>3</sub>. *Environmental Entomology* 37: 601-607.
- O'Neill B., AR Zangerl, CL Casteel, JA Zavala, EH DeLucia, and MR Berenbaum, 2008. Larval development and mortality of the painted lady butterfly, *Vanessa cardui* (Lepidoptera: Nymphalidae) on foliage grown under elevated carbon dioxide. *Great Lakes Entomologist* 41 (3-4): 103-110.
- Castells E. and MR Berenbaum 2008. Resistance of the generalist moth *Trichoplusia ni* (Noctuidae) to a novel chemical defense in the invasive plant *Conium maculatum* *Chemoecology*. 18(1):11-18.
- Mao, W, MR Berenbaum and MA Schuler, 2008. Modifications in the N-terminus of an insect cytochrome P450 enhance production of catalytically active protein in baculovirus-Sf9 cell expression systems. *Insect Biochem. Mol. Biol.* 38: 66-75.



- Casteel, C, BF O'Neill, JA Zavala, DD Bilgin, MR Berenbaum and EH DeLucia, 2008. Transcriptional profiling reveals elevated CO<sub>2</sub> and O<sub>3</sub> alters resistance of soybean (*Glycine max*) to Japanese beetles (*Popillia japonica*) Plant Cell Env. 31: 419-434.
- Zangerl, AR, M. C. Stanley and MR Berenbaum, 2008. Selection for chemical trait remixing in an invasive weed after reassociation with a coevolved specialist Proceedings of the National Academy of Sciences 105: 4547-4552.
- Zavala, J., Casteel, C., DeLucia, E., and Berenbaum, M. 2008 Anthropogenic increase in carbon dioxide compromises plant defense against invasive insects. Proc Nat Acad Sci USA 105: 5129-5133  
(Correction PNAS 105: 10631)
- Berenbaum, MR., 2008. Insect conservation and the Entomological Society of America. American Entomol. 54: 117-120.
- Niu, G, Z Wen, S Rupasinghe, R Zeng, MR Berenbaum and MA Schuler, 2008. Aflatoxin B1 detoxification by CYP321A1 to *Helicoverpa zea*. Archives Insect Biochem. Physiol. 69: 32-45.
- Castells E and MR Berenbaum, 2008. Host plant selection by a monophagous herbivore is not mediated by quantitative changes in unique plant chemistry: *Agonopterix alstroemeriana* and *Conium maculatum*. Arthropod-Plant Interactions 2: 43-51.
- Dermody, O, B O'Neill, M R Berenbaum, E H DeLucia, 2008, Feeding behavior of invasive and native insects in an agroecosystem modified by exposure to elevated carbon dioxide. Arthropod Plant Interactions 2: 125-135.
- Mao, W, AR Zangerl, MR Berenbaum and MA Schuler, 2008. Metabolism of myristicin by *Depressaria pastinacella* CYP6AB3v2 and inhibition by its metabolite. Insect Biochem Mol. Biol. 38: 645-651.
- Lampert, EC, AR Zangerl, MR Berenbaum, PJ Ode, 2008. Tritrophic effects of xanthotoxin on the polyembryonic parasitoid *Copidosoma sosares* (Hymenoptera: Encyrtidae). J. Chem Ecol. 34: 783-789
- Berenbaum, MR and AR Zangerl, 2008. Facing the future of plant-insect interaction research: Le Retour a la "Raison d'Etre." Plant Physiology 146: 804-811.
- Eisner, T. and M. R. Berenbaum, 2008. Perspective: Bugs' bugs. Science 322: 53-54.
- Wen, Z., RS Zeng, G Niu, MR Berenbaum and MA Schuler. 2009. Ecological significance of induction of broad-substrate cytochrome P450s by natural and synthetic inducers in *Helicoverpa zea*. J. Chem. Ecol. 35: 183-189
- Johnson, R.M., H. Pollock and M.R. Berenbaum, 2009. Synergistic interactions between in-hive miticides in *Apis mellifera*. *Journal of Economic Entomology* 102(2):474-479
- Zeng R, Z Wen, G Niu, MA Schuler and MR Berenbaum, 2009. Enhanced toxicity and induction of cytochrome P450s suggest a cost of "eavesdropping" in a multitrophic interaction. J. Chem. Ecol. 35:526-532.
- Berenbaum, M. R. 2009. Colony collapse disorder: Apis-pocalypse now? Atti Accademia Nazionale Entomologia in press.
- Zavala JA, C L. Casteel, PD. Nability MR Berenbaum and E H. DeLucia 2009. Role of cysteine proteinase inhibitors in preference of Japanese beetles (*Popillia japonica*) for soybean (*Glycine max*) leaves of different ages and grown under elevated CO<sub>2</sub> Oecologia 161: 35-41
- Zangerl AR and MR Berenbaum, 2009. Effects of florivory on floral volatile emissions and pollination success in the wild parsnip. Arthropod-Plant Interactions 3:181-191
- Johnson R.M., J. Evans, G. E. Robinson and M. R. Berenbaum, 2009. Changes in transcript expression relating to colony collapse disorder in *Apis mellifera*. Proceedings of the National Academy of Sciences 106: 14790-14795.

- Mao, W., R. M. Johnson, S. Rupasinghe, M. A. Schuler and M. R. Berenbaum, 2009. Quercetin-metabolizing CYP6AS enzymes of the pollinator *Apis mellifera* (Hymenoptera: Apidae). *Comp Biochem Physiol C: Toxicology and Pharmacology* 154: 427-434. doi: 10.1016/j.cbpb.2009.08.008
- Niu, G., J. Siegel, M.A. Schuler and M.R. Berenbaum. 2009. Comparison of toxicity and metabolism of mycotoxins (aflatoxin B1 and ochratoxin A) between two lepidopterans: *Helicoverpa zea* and *Amyelois transitella*. *J. Chemical Ecology* 35: 951-957. doi: 10.1007/s10886-009-9675-8
- Johnson, R. M., Huang, Z. Y. and Berenbaum, M. R., 2010. Role of detoxification in *Varroa destructor* (Acari: Parasitidae) tolerance of the miticide tau-fluvalinate. *Int. J.Acarol.* 36: 1-6 (Erratum to follow)
- O'Neill B., A. R. Zangerl, D. Bilgin, C. Casteel, J. Zavala, E H DeLucia and M.R. Berenbaum, 2010. Impact of elevated levels of atmospheric CO<sub>2</sub> and herbivory on flavonoids of soybean (*Glycine max* Linnaeus). *J. Chem. Ecol.* 36: 35-45 (special issue on global climate change, January 2010) 10.1007/s10886-009-9727-0
- O'Neill, BF, AR Zangerl, EH DeLucia and MR Berenbaum, 2010. Olfactory preferences of *Popillia japonica*, *Vanessa cardui*, and *Aphis glycines* for *Glycine max* grown under elevated CO<sub>2</sub>. *Environmental Entomology* 39: 1291-1301.
- The Nasonia Genome Sequencing Consortium (Werren JH, S Richards CA Desjardins et al.), 2010. Functional and evolutionary insights from the genomes of three parasitoid *Nasonia* species. *Science* 327: 343-348.
- Oakeshott J, M Berenbaum, R Johnson, H Ranson, A S Cristino, and C. Claudianos, 2010. Metabolic enzymes associated with xenobiotic and chemosensory responses in *Nasonia vitripennis*. *Insect Molecular Biology* 19(S1): 147-163.
- Body Louse Genome Sequencing Consortium, 2010. Genome sequences of the human body louse and its primary endosymbiont provide insights into the permanent parasitic lifestyle. *Proc. Nat. Acad. Sci. USA*: 107: 12168-12173 .
- Lee, S.H., J. S. Kang, J. S. Min, K.S. Yoon, J. P. Strycharz, R. Johnson, O. Mittapalli, V M Bargam, W Sun, H M Li, J Xie, J Wu, E F Kirkness, M R Berenbaum, B R Pittendrigh, J M Clark, 2010. Decreased detoxification genes and genome size make the human body louse an efficient model to study xenobiotic metabolism. *Insect Molecular Biology* 19: 599-615.
- Knolhoff, L M., J. J. Glas, J. L. Spencer, M. R. Berenbaum, 2010. Oviposition behavior in relation to rotation resistance in the western corn rootworm. *Environmental Entomology* 39: 1922-1928.
- Pittendrigh, B.R., M.R. Berenbaum, M. J. Seufferheld, V.M. Margam, J.P. Strycharz, K.S. Yoon, W. Sun, R. Reenan, S. H. Lee, and J.M. Clark, 2011. Simplify, simplify: lifestyles and compact genome of the body louse provide a unique functional genomics opportunity. *Communicative and Integrative Biology* 4: 188-191.
- Niu, G., R.M. Johnson, M. R. Berenbaum. 2011. Toxicity of mycotoxins to honeybees and its amelioration by propolis. *Apidologie* 42: 79-87.
- Lampert, E.C., A. R. Zangerl, M. R. Berenbaum, and P. J. Ode, 2011. Generalist and specialist host-parasitoid associations respond differently to effects of wild parsnip (*Pastinaca sativa*) defensive chemistry. *Ecological Entomology* 36: 52-61.
- Nabity, P.D., A. R. Zangerl, M. R. Berenbaum, E. DeLucia, 2011. Bioenergy crops *Miscanthus x giganteus* and switchgrass (*Panicum virgatum*) reduce growth and survivorship of *Spodoptera frugiperda* (Lepidoptera: Noctuidae). *J. Econ. Entomol.* 104: 459-464.
- Niu G., S. G. Rupasinghe, A.R. Zangerl, J P Siegel, M A. Schuler, M. R. Berenbaum, 2011. A substrate-specific cytochrome P450 monooxygenase, CYP6AB11, from the polyphagous navel orangeworm (*Amyelois transitella*). *Insect Biochem. Mol. Biol.* 41: 244-253.

O'Neill, B., A. Zangerl, E. DeLucia, C Casteel, J Zavala, M. Berenbaum, 2011. Leaf temperature of soybean grown under elevated CO<sub>2</sub> increases *Aphis glycines* (Hemiptera: Aphididae) population growth. *Insect Science* 18: 419-425.

Muturi, EJ, C-H Kim, BA Alto, MA Schuler, MR Berenbaum, 2011. Larval environmental stress alters *Aedes aegypti* development and competence for a model arbovirus. *Trop Med Int Health* 16: 955-964.

Mao W, MA Schuler and MR Berenbaum, 2011. CYP9Q-mediated detoxification of acaricides in the honey bee (*Apis mellifera*). *Proc. Natl. Acad. Sci. USA* 31: 12657-12662.

Niu, G., H. S. Pollock, A. *Lawrance*, J. Siegel, and M. R. Berenbaum. 2012. Effects of a naturally occurring and a synthetic synergist on the toxicity of three insecticides and a phytochemicals to the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae). *Journal of Economic Entomology* 105: 410-417.

Johnson, RM, W Mao, HS Pollock, G Niu, MA Schuler and MR Berenbaum, 2012. Ecologically appropriate xenobiotics induce cytochrome P450s in *Apis mellifera*. *PLoS ONE* 7(2): e31051. doi:10.1371/journal.pone.0031051

Casteel, C., O.K. Niziolek, M.R. Berenbaum, and E. H. DeLucia, 2012. Effects of elevated CO<sub>2</sub> and soil water content on phytohormone transcript induction in *Glycine max* after *Popillia japonica* feeding. *Arthropod-Plant Interactions* 6: 439-447.

Miresmailli, S, M Zeri, AR Zangerl, CJ Bernacchi, MR Berenbaum and EH DeLucia, 2012. Impacts of herbaceous energy crops on atmospheric volatile organic composition and potential consequences for global climate change. *Global Change Biology: Energy* 5: 375-383.

Nabity, PD, R Orpet, S Miresmailli, MR Berenbaum, EH DeLucia, 2012. Silica and nitrogen modulate physical defense against herbivores in bioenergy crops *Miscanthus x giganteus* and *Panicum virgatum*. *J. Econ. Entomol.* 105: 878-883

Zangerl, AR, T Jogesh, L-H. Liao and MR Berenbaum, 2012. Aliphatic esters as targets of esterase activity in the parsnip webworm (*Depressaria pastinacella*). *J. Chem. Ecol.* 38: 188-194 DOI 10.1007/s10886-012-0073-2

Casteel, CL, LM Segal, OK Niziolek, MR Berenbaum and EH DeLucia, 2012. Elevated carbon dioxide increases salicylic acid in *Glycine max*. *Environmental Entomology* 41(6):1435-1442.

Hamilton J, AR. Zangerl, MR Berenbaum, J Sparks, L Elich, A Gattis, A Eisenstein, and E DeLucia, 2012. Elevated atmospheric CO<sub>2</sub> alters arthropod community structure in a forest understory. *Acta Oecologica* 43: 80-85.

McDonnell, CM, D King, J M. Comeron, H Li, W Sun, MR Berenbaum, MA Schuler, and BR Pittendrigh, 2012. Evolutionary toxicogenomics: diversification of the *Cyp12d1* and *Cyp12d3* genes in *Drosophila* species. *Journal of Molecular Evolution* 74: 281-296.

DeLucia, EH, PD Nabity, JA Zavala, MR Berenbaum, 2012. Climate change: resetting plant-insect interactions. *Plant Physiol.* 160: 1677-1685.

Zeng RS, Z Wen, G Niu and MR Berenbaum 2013. Aflatoxin B1: Toxicity, bioactivation and detoxification in the polyphagous caterpillar *Trichoplusia ni*. *Insect Science* 20 (SI): 318-328.

Mao, W, MA Schuler and MR Berenbaum, 2013. Honey constituents upregulate detoxification and immunity genes in the western honey bee *Apis mellifera*. *Proceedings of the National Academy of Sciences* 110: 8842-8846.

Harrison, T and MR Berenbaum, 2013. Moth diversity in three biofuel crops and native prairie in Illinois. *Insect Science* 20 (SI): 407-419.

Miresmailli S, M Zeri, AR Zangerl, CJ Bernacchi, MR Berenbaum, EL DeLucia, 2013. Impacts of herbaceous bioenergy crops on atmospheric volatile organic composition and potential consequences for global climate change. *Global Change Biology Bioenergy* 5: 375-383.

- Niziolek, O., M.R. Berenbaum, and E. DeLucia, 2013. Impact of elevated CO<sub>2</sub> and increased temperature on Japanese beetle herbivory. *Insect Science* 20: 513-523.
- Nabity PD, MJ Haus, MR Berenbaum, EH DeLucia, 2013. Leaf-galling phylloxera on grapes reprogram host metabolism and morphology. *Proceedings of the National Academy of Sciences* 110: 16663-16668.
- Schuler, MA and MR Berenbaum, 2013. Structure and function of cytochrome P450s in insect adaptation to natural and synthetic toxins: insights gained from molecular modeling. *Journal of Chemical Ecology* 39: 1232-1245.
- Zangerl, A.R., S. Miresmailli, P. Nabity, A. Lawrance, A. Yanahan, C.A. Mitchell, K.J. Anderson-Teixeira, M.B. David, M.R. Berenbaum, and E. DeLucia, 2013. Role of arthropod communities in bioenergy crop litter decomposition. *Insect Science* 20: 671-678.
- Harrison TL, MR Berenbaum, 2013. A new, prairie-restricted species of *Filatima* Busck (Lepidoptera: Gelechiidae) from Illinois. *Zootaxa* 3734 (4): 469-476.
- Harrison TL, MR Berenbaum, 2013. A new, prairie-restricted species of *Anacampsis* Curtis (Lepidoptera: Gelechiidae) from Illinois. *Zootaxa* 3741 (1): 194-200.
- Jogesh, T., AR Zangerl, MA Stanley and MR Berenbaum, 2013. Implications of enemy escape on chemically mediated interactions with mutualists: wild parsnip pollination in two hemispheres. *Journal of Pollination Ecology* 11: 57-67.
- Randrianandrasana M, HA Razafindraleva, MR Berenbaum, 2014. Host plant records of *Antherina suraka* Boisduval, 1833 (Saturniidae) in Madagascar. *Journal of the Lepidopterists Society* 68: 130-140.
- Jogesh, T., J.C.H. Wong, M. C. Stanley, and M.R. Berenbaum, 2014. Impact of reassociation with a coevolved herbivore on oviposition deterrence in a hostplant. *Oecologia* 178: 117-127.
- Jogesh, T., M. Stanley and M.R. Berenbaum, 2014. Evolution of tolerance in an invasive weed after reassociation with its specialist herbivore. *Journal of Evolutionary Biology* 27: 2334-2346
- Harrison, T.L. and M.R. Berenbaum, 2014. Redefining the identity of *Anacampsis rhoifruetella* (Clemens), with clarification of its larval biology and differentiation from a similar species, *Anacampsis quadrimaculella* (Chambers), revised status (Lepidoptera: Gelechiidae). *Zootaxa* 3794 (4): 545-555. <http://dx.doi.org/10.11646/zootaxa.3794.4.5>
- Berenbaum, M.R. 2014. Happy anniversary, *Journal of Chemical Ecology*! *J. Chem. Ecol.* 40: 308.
- Berenbaum, M.R., 2014. Bees in crisis: colony collapse, honey laundering, and other problems bee-setting American apiculture. *Proc. Am. Phil Soc.* 158: 229-247.
- Berenbaum, M.R., 2015. Buzzkill: pollinators and food security (theirs + ours). *Cultures* 2: 38-51 (invited).
- Berenbaum, M.R and R. M. Johnson., 2015. Xenobiotic detoxification in the western honey bee *Apis mellifera*. *Current Opinion in Insect Science* 10: 51-58 (invited)
- Randrianandrasana, M. and M.R. Berenbaum. 2015. Edible non-crustacean arthropods in rural communities of Madagascar. *Journal of Ethnobiology* 35(2):354-383.
- Jogesh, T. and M. Berenbaum, 2015. Patterns of genetic diversity in the globally invasive species wild parsnip (*Pastinaca sativa*). *Invasive Plant Science and Management* 8: 415-429.
- Demkovich, M., J. Siegel, B. Higbee and M.R. Berenbaum, 2015. Mechanisms of resistance acquisition and potential associated fitness costs in navel orangeworm (*Amyelois transitella*) exposed to pyrethroid insecticides. *Environmental Entomology* 44: 855-863.

- Demkovich, M, C Dana, JP Siegel, MR Berenbaum, 2015. Effect of piperonyl butoxide on the toxicity of four classes of insecticides to navel orangeworm (*Amyelois transitella*) (Lepidoptera: Pyralidae). J. Econ. Entomol. 108: 2753-2760.
- Mao, W., MA Schuler, MR Berenbaum, 2015. Task-related differential expression of two cytochrome P450 genes in honeybee appendages. Insect Molecular Biology 24: 582-588.
- Mao, W., M.A. Schuler and M.R. Berenbaum, 2015. A dietary phytochemical alters caste determination gene expression in honeybees. Science Advances 1(7): e1500795  
DOI: 10.1126/sciadv.1500795.
- Ampt, E., D.S. Bush, J. Siegel, M.R. Berenbaum, 2016. Larval preference and performance of *Amyelois transitella* (navel orangeworm, Lepidoptera: Pyralidae) in relation to the fungus *Aspergillus flavus*. Environmental Entomology 45: 155-162.
- Berenbaum, MR, 2016. Does the honey bee “risk cup” runneth over? Estimating aggregate exposures for assessing pesticide risks to honey bees in agroecosystems. J. Ag. Food Chem. 64:13-20.
- Harrison, T.L., C.A.E. Dean, K.S. Parks, M.R. Berenbaum, 2016. *Depressaria depressana* (Fabricius) (Lepidoptera: Depressariidae), new to the midwestern USA. J. Lep. Soc. 70: 169-173.
- Randrianandrasana M, SH Berlocher, R Rougerie, MR Berenbaum, 2016. Intraspecific variation in *Antherina suraka* (Lepidoptera: Saturniidae), an endemic resident of endangered forests in Madagascar. Annals of the Entomological Society of America 109: 384-395.
- Randrianandrasana, R., W-Y Wu, D.A. Carney, A. Wagoner Johnson, and M.R. Berenbaum, 2016. Structural and mechanical properties of cocoons of *Antherina suraka*, an endemic species used for silk production in Madagascar. Journal of Insect Science 16: 1-8. (J Insect Science 17(1): 17.
- Belcher, A.K., M.R. Berenbaum, and A.V. Suarez, 2016. Urbana house ants 2.0: revisiting M.R. Smith’s 1926 survey of house-infesting ants in central Illinois after 87 years. American Entomologist 62: 182-193.
- Berenbaum, M.R., 2016. How ICE came to America (the first time). American Entomologist 62: 163-171.
- Bagchi, V.A., J.P. Siegel, M.R. Demkovich, L.N. Zehr, and M.R. Berenbaum, 2017. Impact of pesticide resistance on toxicity and tolerance of host-plant phytochemicals in *Amyelois transitella* (Lepidoptera: Pyralidae). J. Insect Science 17 (2): 62, 2016.
- Mao, W., M.A. Schuler and M.R. Berenbaum, 2017. Disruption of quercetin metabolism by fungicide affects energy production in honey bees (*Apis mellifera*). Proc. Natl. Acad. Sci. USA 114: 2538-2543.
- Liao, L-H, W-Y Wu and M R Berenbaum, 2017. Impacts of dietary phytochemicals in the presence and absence of pesticides on longevity of honey bees (*Apis mellifera*). Insects 2017 8, 22: doi:10.3390/insects8010022
- Bush, DS, JP Siegel, MR Berenbaum, 2017. Orientation of navel orangeworm (Lepidoptera: Pyralidae) larvae and adults toward volatiles associated with almond hull split and *Aspergillus flavus*. Environmental Entomology 46: 602-608
- \*Berenbaum, M.R., 2017. Communicating about science communication: an entomological history. Annals of the Entomological Society of America 110: 434-438.
- Calla, B., K. Noble, R.M. Johnson, K.O. Walden, M.A. Schuler, H.R. Robertson, and M.R. Berenbaum, 2017. CYPome diversification and hostplant utilization patterns in specialist and generalist moths: birth, death, and adaptation. Molecular Ecology: Epub 2017: Sept 15. Molecular Ecology 26: 6021-6035.
- Liao, L-H and M.R. Berenbaum, 2017. Behavioural responses of honey bees (*Apis mellifera*) to natural and synthetic xenobiotics in food. Scientific Reports 7: 15924.

- Johnson RM, A Zayed, B Harpur, K Dogantzis, and MR Berenbaum, 2018. Genomic footprint of evolution of eusociality in bees: floral food use and CYPome “blooms”. *Insectes Sociaux* 65: 445–454
- Calla, B., M MacLean, I. Dhanjal, L-H Liao, C Tittiger, G J Blomquist, M.R. Berenbaum, 2018. Functional characterization of CYP4G11—a highly conserved enzyme in the western honey bee *Apis mellifera*”. *Insect Mol Biol.*: <https://doi.org/10.1111/imb.12516>
- Demkovich, M., J. P. Siegel, Spenser Walse, and M.R. Berenbaum, 2018. Impact of agricultural adjuvants on the toxicity of the diamide insecticides chlorantraniliprole and flubendiamide on different life stages of the navel orangeworm (*Amyelois transitella*). *Journal of Pest Science* 91: 1127–1136
- Berenbaum, M.R., 2018. Preface: Valedictory from a gadfly grammarian; common errors in entomological writing. *Annual Review of Entomology* 63: v-ix.
- Seong, KM, BS Coates, MR Berenbaum, JM Clark, BR Pittendrigh, 2018. Comparative CYPomic analysis between the DDT-susceptible and resistant *Drosophila melanogaster* strains 91-C and 91-R. *Pest Management Science* 74: <https://doi.org/10.1002/ps.4936>
- Wong, M., L-H. Liao, and M.R. Berenbaum, 2018. Biphasic concentration-dependent interaction between imidacloprid and dietary phytochemicals in honey bees (*Apis mellifera*). *PLoS ONE* 13(11): e0206625. <https://doi.org/10.1371/journal.pone.0206625>
- Bush, D.S., J.P. Siegel, M.R. Beerenbaum, 2018. Accelerated development and toxin tolerance of the navel orangeworm *Amyelois transitella* (Lepidoptera: Pyralidae) in the presence of *Aspergillus flavus*. *J. Chem. Ecol.* 44: 1170-1177.
- Gog, L., M.R. Berenbaum, 2019. E.H. DeLucia, Mediation of impacts of elevated CO<sub>2</sub> and light environment adjusts *Arabidopsis thaliana* (L.) chemical defenses against insect herbivory via photosynthesis. *J. Chem. Ecol.* 45: 61-73.
- Njoroge, T. and M.R. Berenbaum, 2019. Laboratory evaluation of larvicidal and oviposition deterrent properties of edible plant oils for potential management of *Aedes aegypti* (Diptera: Culicidae) in drinking water containers. *J. Med. Entomol.* <https://doi.org/10.1093/jme/tjz021>
- Gog, L., M.R. Berenbaum, E.H. DeLucia, 2019. Mediation of impacts of elevated CO<sub>2</sub> and light environment on *Arabidopsis thaliana* (L.) chemical defenses against insect herbivory via photosynthesis. *J. Chem. Ecol.* 45: 61-7
- Njoroge TM, MR Berenbaum, 2019. Laboratory evaluation of larvicidal and oviposition deterrent properties of edible plant oils for potential management of *Aedes aegypti* (Diptera: Culicidae) in drinking water containers. *J. Med. Entomol.* 56: 1055-1063.
- Calla B, WY Wu, CE Dean, MA Schuler, MR Berenbaum, 2019. Substrate-specificity of cytochrome P450-mediated detoxification as an evolutionary strategy for specialization on furanocoumarin-containing hostplants: CYP6AE89 in parsnip webworms. *Insect Molecular Biology*. doi: 10.1111/imb.12612
- Berenbaum MR, Liao LH, 2019. Honey bees and environmental stress—toxicologic pathology of a superorganism. *Toxicologic Pathology* 47(8): 1076-1081
- Liao L-H, W-Y Wu, A Dad, MR Berenbaum. Fungicide suppression of flight performance in the honey bee (*Apis mellifera*) and its amelioration by quercetin. *Proc. Roy. Soc. B*: in press.
- Liao, L-H, DJ Pearlstein, W-Y Wu, A Kelley, W Montag, EM Hsieh, MR Berenbaum, Optimal range of concentration for amelioration of xenobiotic toxicity by honey phytochemicals in *Apis mellifera*
- Ngumbi EN, LM Hanks, AV Suarez, JG Millar, MR Berenbaum, Factors associated with variation in cuticular hydrocarbon profiles in the navel orangeworm, *Amyelois transitella* (Lepidoptera: Pyralidae). *Journal of Chemical Ecology* 46: 40-47.

Calla, B., W-Y Wu, C Dean, M.A. Schuler, and M.R. Berenbaum, Substrate-specificity of cytochrome P450-mediated detoxification as an adaptive strategy for specialization on furanocoumarin-containing hostplants: CYP6AE89 in the parsnip webworm. *Insect Molecular Biology*: in press.

Berenbaum, M.R. and L.H. Liao, 2019. Honey bees and environmental stress—toxicologic pathology of a superorganism. *Toxicologic Pathology*: <https://doi.org/10.1177/0192623319877154>

Calla, B., M. Demkovich, J. P. G. Viana, J.P. Siegel, K.K.O. Walden, H.M. Robertson and M.R. Berenbaum, Selective sweeps in a nutshell; genomic footprint of rapid insecticide resistance evolution in the navel orangeworm, *Amyelois transitella*. <https://www.biorxiv.org/content/10.1101/828418v1>

### **Book Reviews and Miscellaneous**

Berenbaum, M., 1982. Insect Life History Patterns: Habitat and Geographic Variation. *Bull. Ent. Soc. Amer.* 28: 339-340.

Berenbaum, M., 1983. Phytoalexins. *BioScience* 33: 664.

Berenbaum, M., 1984. Herbivorous Insects: Host-seeking Behavior and Mechanisms. *Bull. Ent. Soc. Amer.* (S. Ahmad, ed.) 30: 55-56.

Berenbaum, M., 1984. Herbivores and plants: the dynamic duo. Review of Herbivory: Dynamics of Animal-Plant Interactions (M. J. Crawley) *Ecology* 65: 1335.

Berenbaum, M., 1985. Chemical Ecology of Insects (W. Bell and R. Carde, eds.) *Amer. Scientist* 73: 292.

Berenbaum, M., 1985. A theme on variations. Review of Variable Plant and Herbivores in Natural and Managed Systems (R. Denno and M. McClure, eds.). *Ecology* 66: 1690.

Berenbaum, M., 1988. Surface tensions. Review of Insects and the Plant Surface (B. Juniper and T.R.E. Southwood, eds.) *Trends in Ecology and Evolution* 3: 119.

Berenbaum, M., 1990. Insects-Plants (Proceedings of the Sixth Interaction of Conference on Insect-Plant Relationships). *Amer. Scientist* 78: 274.

Berenbaum, M., 1991. Meat and veg: review of Plant-Animal Interactions: Evolutionary Ecology in Tropical and Temperate Regions. *Nature* 351: 617-618.

Berenbaum, M., 1995. The Coevolutionary Process--J.N. Thompson. *Science* 267: 910.

Berenbaum, M., 1995. Naturalist--E.O. Wilson. *BioScience* 45: 792-93.

Berenbaum, M., 1995. Brethren of the net – American entomology, 1840-1880 – Sorenson, WC. *Science*. 270: 2035-2036

Berenbaum, M., 1996. The Beauty of the Beastly--N. Angier. *BioScience* 46: 297-298.

Berenbaum, M., 1996. Pioneers--Brethren of the Net, by W.C. Sorensen. *Science* 270: 2035-2036.

Berenbaum, M., 1996. Still chemical after all these years--Chemical Ecology of Insects 2, by R. Carde and W. Bell. *Ecology* 77: 1954-55.

Berenbaum, M.R., 1998. Preface. *Annual Review of Entomology* 43: DOI: 10.1146/annurev.en.43.010198.100001

Berenbaum, M.R., 1999. Obituary--William G. Horsfall. *Amer. Entomol.* 45: 62-63.

Berenbaum, M.R., 1999. Obituary--Ellis G. MacLeod. *Amer. Entomol.* 45: 62.

Berenbaum, M.R., 1999. Obituary--Robert G. Metcalf. *Amer. Entomol.* 45: 60-61.

- Berenbaum, M.R., A. R. Zangerl, 1999. Genetic variation in cytochrome P450-based resistance to plant allelochemicals and insecticides. *Herbivores: Between plants and Predators*, pp. 55-84.
- Berenbaum, M. R., 2000. Gut reactions: how caterpillars and people disarm alarming substances with cytochrome P450s. *Am. Assoc. Arts Sci. Newsletter*
- Berenbaum, M. 2000. Blue book value (review of Nabokov's *Butterflies and Nabokov's Blues*). *Science* 290: 57-58.
- Berenbaum, M.R. 2000. Nabokov's blues – The scientific odyssey of a literary genius. *Science*. 290: 57-58
- Berenbaum, M., 2001. A splice of life: Two looks at genetically engineered food [reviews of *Lords of the Harvest* by D. Charles and *Dinner at the New Gene Café* by B. Lamprecht]. *St. Louis Post-Dispatch*, Oct. 17.
- Berenbaum, M. 2001. Palladino, Paolo, 1996. *Entomology, Ecology and Agriculture: The Making of Scientific Careers in North America, 1885-1985*. (Studies in the History of Science, Technology and Medicine, 3.) *Isis: Journal of the History of Science Society* 92: 638-639.
- Berenbaum, M., 2002. Parasite Rex. *Quart. Rev. Biol.* 77: 206.
- Berenbaum, M. and R. Lampman, 2001. Richard Lee Metcalf. *National Academy of Sciences Memoir* 80: 3-16.
- Berenbaum, M. 2002. Green genes. [reviews of *Lords of the Harvest* by D. Charles and *The Green Phoenix* by P. Lorquin]. *Amer. Scientist* 90: 192-193.
- Berenbaum, M. 2003. Jacket blurb for T. Eisner, 2003. *For Love of Insects*. Cambridge: Harvard University Press.
- Berenbaum, M. 2004. Jacket blurb for J. Lockwood, *Locust*. Salem: Perseus
- Berenbaum, M. 2005. Review of T. Acamovic, C.S. Stewart, T.W. Pennycott, eds. 2004. *Poisonous Plants and Related Toxins*. London: CABI International. (Proceedings of the Sixth International Symposium on Poisonous Plants, held in Glasgow, 2001). *Quarterly Review of Biology* 81: 65.
- Berenbaum, M. 2006. Class (Insecta) warfare. Review of *Secret Weapons - Defenses of insects, spiders, scorpions, and other many-legged creatures*. *Science*. 311(5758):178
- Berenbaum, M. 2006. Headless males. *Ecology* 87: 3219-3220.
- Berenbaum, M. 2006. Fliegge (Review of M. Dicke, *Killing two flies with one stone/Twee vliegen in een klap*. Wageningen: University of Wageningen). *Entomologisches Berichten* 66: 184-185.
- Berenbaum, M. 2007. Pop Fly. Review of Connor, Steven, 2006. *Fly*. London: Reaktion Books. *Science* 317: 1038.
- Berenbaum, M.R., 2011. Hive Hunting. Why bees and ants are worth subjects of intensive study at the public expense. *Times Literary Supplement* (review of *Honeybee Democracy* by Thomas Seeley and *Smart Swarm* by Peter Miller). January 28, 2011 (p. 3).
- Berenbaum, M.R. Foreword, *Insect Pathology and Microbial Pest Control*, Eds. H. Kaya and F. Vega.
- Berenbaum, M.R., 2011. Lively notes on nocturnal singers (review of J. Himmelman, *Cricket radio*. *Science* 333: 1095 (book review)
- Prashant, N and M.R. Berenbaum, 2011. QnAs with May R. Berenbaum. *Proc. Natl. Acad. Sci. USA* 108: 12583.
- Berenbaum, M. R., 2011. Retrospective. Thomas Eisner: Interpreter extraordinaire of nature's chemistry. *Proc. Natl. Acad. Sci. USA* 108: 19482-19483.



- Berenbaum, M.R., 2012. Resolution of Respect: Thomas Eisner. *Bull. Ecol. Soc. America* July 2012: 191-196.
- Berenbaum, M.R., 2012. Postlude. *Daedalus* 141: 121-124.
- Berenbaum, M.R., 2013. Preface. *Annual Review of Entomology* 58: v-vi.
- Berenbaum, M., 2013. A humble plea for the bumblebee; review of *A Sting in the Tale* by D. Goulson). *Times Literary Supplement* (London) September 9, 2013 <http://www.the-tls.co.uk/tls/public/article1311537.ece>
- Berenbaum, M.R., 2014. How (lady)birds, bees, and educated fleas do it (review of M. Zuk, *Sex on Six Legs: Lessons on Life, Love & Language from the Insect World*). *Quarterly Review of Biology* 89:39-42.
- Berenbaum, M.R., 2014. Thomas Eisner:1929-2011. A biographical memoir. National Academy of Sciences Biographical Memoirs series, National Academies Press (Washington DC) . <http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/eisner-thomas.pdf>
- Berenbaum, M.R., 2016. Presidential Welcome. XXV International Congress of Entomology program book, Orlando, FL.
- Berenbaum, M.R., 2016. Book review. *The Dancing Bees: Karl von Frisch and the Discovery of the Honeybee Language*, Tania Munz *Times Literary Supplement*, July 6, 2016. <http://www.the-tls.co.uk/articles/private/understanding-apis/>
- Berenbaum, M.R., 2018. Obituary—Stanley Friedman. *American Entomologist*
- Berenbaum, M.R., 2018. Bees, ants, spiders, and a side of Bacon. *Brooklyn Rail*  
<https://brooklynrail.org/2018/03/criticspage/Bees-Ants-Spiders-and-a-Side-of-Bacon>
- Berenbaum, M.R., 2018. Preface: valedictory from a gadfly grammarian. *Annual Review of Entomology* 63: v-ix.
- Berenbaum, M.R., 2018. Stanley Friedman 1925-2017 (obituary). *American Entomologist* 64: 59-60.

## Editorials

- Berenbaum, M.R., 1992. Invaded by insects. *New York Times*, July 11, pp. Y-13 (Op-Ed).
- Berenbaum, M.R., 2002. How little we know. *NewsDay* op-ed page Sunday, June 9.  
<http://www.newsday.com/news/opinion/ny-vpber092738442jun09.story>
- Berenbaum M.R. 2005. Notorious D.D.T. *Washington Post* (Outlook); (June 12, 2005)  
<http://www.washingtonpost.com/wp-dyn/content/article/2005/06/04/AR2005060400130.html>
- Berenbaum, M.R., 2007. Losing their buzz. *New York Times* op-ed, March 2, 2007.
- Berenbaum, M.. 2008. Saline a natural stream, not just a drainage ditch. *Champaign Urbana News Gazette* op-ed, April 20, 2008
- Gleick, P.H. et al. 2010. Climate change and the integrity of science. *Science* 328: 689-690.
- Berenbaum, M.R., 2010. This bedbug's life. *New York Times* (op-ed, August 7, 2010):  
<http://www.nytimes.com/2010/08/08/opinion/08berenbaum.html>
- Berenbaum, M.R. 2016. Op-ed: The Zika virus doesn't respect borders. It's time for immediate U.S. action. *Los Angeles Times* March 21, 2016. <http://www.latimes.com/opinion/op-ed/la-oe-0321-berenbaum-zika-funds-20160321-story.html>
- Berenbaum, M.R., 2016 (May 16, 2016). [ESA Communicates with NSF CSBR Program on Hiatus](#) (letter to the National Science Foundation on behalf of the Entomological Society of America)
- Berenbaum, M.R., 2016. OWT testimony on funding levels for: the Appropriations Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies (US House of Representatives) LHHS (House), CJS (Senate), and Interior (Senate)
- Berenbaum, M.R., 2016. Speaking of insects. Op-Ed, *Science* 353: 1343.
- Berenbaum, M.R., 2019. *Proceedings of the National Academy of Sciences*—Its evolution and adaptation. *Proc. Natl. Acad. Sci USA* 115: 704-706.
- Berenbaum, M.R., 2019. Speaking of gender bias. *Proceedings of the National Academy of Sciences* 116: 8086-8088
- Berenbaum, M.R., 2019. Impact factor impacts on early career scientist careers. *Proceedings of the National Academy of Sciences* 116: 16659-16662.
- Berenbaum, M.R., 2019. On a subject no one wants to read about (about which no one wants to read?) *Proceedings of the National Academy of Sciences* [www.pnas.org/cgi/doi/10.1073/pnas.1920932117](http://www.pnas.org/cgi/doi/10.1073/pnas.1920932117)
- Thorp, H.H., M.Skipper, V. Kiermer, M. Berenbaum, D. Sweet, R. Horton, 2019. Joint statement on EPA proposed rule and public availability of data (2019) *Science* 366, Issue 6470, eaba3197 DOI: 10.1126/science.aba3197 *Proceedings of the National Academy of Sciences* 116: 25368.

### **Published abstracts (selected)**

Berenbaum, M.R., 1984. Plant secondary substances and the insect/microbe interaction. XVII Int. Cong. Ent. pp. 841.

Zangerl, A.R., J.K. Nitao and M.R. Berenbaum, 1986. Strategic defense in the wild parsnip: who takes the initiative? Abst. IV Int. Cong. Ecology pp. 363.

Zangerl, A.R., M. Berenbaum and J.K. Nitao, 1987. No free lunch: limits on response to selection by dietary toxins for plant-feeding insects. Abst. Ann. Mtg. Ecol. Soc. America pp. 455.

Berenbaum, M., 1987. Coevolution of caterpillars and coumarins, Abst. XIV Int. Cong. Bot. pp. 120-122.

Berenbaum, M. R. and A. R. Zangerl, 1990. Genetic regulation of furanocoumarin biosynthesis: adaptive variation and ecological significance. Photochem. Photobiol. 51S: 705-715.

Ewert, K., J.A. DiPietro, M.R. Berenbaum and K.S. Todd, 1990. *Musca domestica* bioassay for detection of larvicidal activity of ivermectin in horse flies. Proc. Seventy-first Conf. Res. Workers in Animal Disease. Chicago, IL.

Ewert, K., J.A. DiPietro, M.R. Berenbaum and K.S. Todd, 1990. Larvicidal activity of ivermectin against *Musca domestica* in aged horse flies. Proc. 71st CRWAD. Chicago, IL.

McCloud, E.S. and M.R. Berenbaum, 1991. Effects of UV-B on nutritional and secondary chemistry of *Citrus limon*. Phytochem. Soc. North Amer. 31: 19.

Berenbaum, M.R. and E.S. McCloud, 1993. Effects of elevated UV-B on plant resistance to insects: *Citrus jambhiri* and *Trichoplusia ni*. 5PM-F34. Photochem. Photobiol 57S: 35S.

Zangerl, A.R. and M.R. Berenbaum, 1993. Detoxification by herbivores and the diversification of secondary pathways in plants. Bull. Ecol. Soc. Amer. 74(25): 498.

Wright, C.L., E. Green, and M. Berenbaum, 1998. A yellow eye mutant adult in the cabbage looper *Trichoplusia ni* (Lepidoptera: Noctuidae). Abstr. 49th Ann. Mtg. Lepidopterists Society, Eureka College, Eureka, IL.

### **Doctoral dissertation**

Berenbaum, M., 1980. Furanocoumarin chemistry, insect herbivory, and coevolution in the Umbelliferae. Cornell University (Ithaca, NY) 231

### **Popular science publications**

Berenbaum, M. 1973. Weather watchwords. Science on the March 53: 34.

Berenbaum, M. 1975. Anthelmintic plants in American botanic medicine. Yale Scientific 49: 9-12.

Berenbaum, M., 1977. Higgledy-piggledy. Journal of Irreproducible Results 1977: 16.

Berenbaum, M., 1978. Bees as symbols in heraldry. American Bee Journal 118: 178-180.

Berenbaum, M., 1979. The cabbage white butterfly: an American success story, unfortunately. Horticulture 57: 42-46.

Berenbaum, M., 1980. That devilish herb (parsley). Horticulture 58: 22-24.

Berenbaum, M., 1980. Of life on man. Cornell Engineer 46: 16-20.

Berenbaum, M., 1981. Catnip chemistry. Horticulture 59: 14-15.

Berenbaum, M., 1982. Bracken fern: friend or foe? Horticulture 60: 20-21.

Berenbaum, M., 1983. The life of the bagworm. Horticulture 61 (April): 41- 42.

- Berenbaum, M., 1983. The Colorado potato beetle. *Horticulture* 61 (July): 48-50.
- Berenbaum, M., 1983. The corn earworm. *Horticulture* 61 (Aug.): 45-46.
- Berenbaum, M., 1984. Red spider mites, *Horticulture* 62 (April): 45-49.
- Berenbaum, M., 1984. Black cutworm. *Horticulture* 63 (May): 54-58.
- Berenbaum, M., 1984. Watch out for wild carrots. *Ranger Rick* (Sept.): 40.
- Berenbaum, M., 1985. Scale. *Horticulture* 63 (Jan.): 20-22.
- Berenbaum, M., 1985. Japanese beetles. *Horticulture* 63 (June): 40-41.
- Berenbaum, M., 1986. Cucumber beetles. *Horticulture* 64 (May): 60-61.
- Berenbaum, M., 1987. Aphids. *Horticulture* 65 (June): 56-58.
- Berenbaum, M., 1988. Flea beetles. *Horticulture* 66: 62-63.
- Berenbaum, M., 1990. Tobacco hornworm. *Horticulture* 68 (May): 83-85.
- Berenbaum, M and R. Leskosky, 1991. Mosquitoes in the movies. *Vector Control Bull. North Central States* 1(2): 94-98.
- Berenbaum, M., 1991. Plum curculio. *Horticulture* 69(June/July): 77-79.
- Berenbaum, M., 1991. Mexican bean beetle. *Horticulture* 69(May): 70-73.
- Berenbaum, M., 1991. Buzzwords. Inquiring minds want to know. *American Entomologist* 37: 68-69.
- Berenbaum, M., 1991. Buzzwords. Rated GP (Generally Patronizing). *American Entomologist* 37: 133.
- Berenbaum, M., 1991. Buzzwords. Just say No-to-dontid? *Am. Ent.* 37: 196-197.
- Berenbaum, M., 1992. Buzzwords. Pick a number from 1 to 1041. *Am. Ent.* 38: 4-5.
- Berenbaum, M.R., 1992. Buzzwords. What's in a name? That which you call Eltringham's gland...*Amer. Ent.* 38: 74-75.
- Berenbaum, M.R. and R.J. Leskosky, 1992. Life history strategies and population biology in science fiction films. *Bull. Ecol. Soc. Amer.* 63(4): 236-240.
- Berenbaum, M.R., 1992. Buzzwords. Bizzy, bizzy entomologists. *Amer. Entomol.* 38: 132-133.
- Berenbaum, M.R., 1992. Buzzwords. Sounding off. *Amer. Entomol.* 38: 198-199.
- Berenbaum, M.R., 1993. Buzzwords. (Water) Penny for your thoughts? *Amer. Entomol.* 39: 4-5.
- Berenbaum, M.R., 1993. Buzzwords. P.C. Insects. *Amer. Entomol.* 39: 68-69.
- Berenbaum, M.R., 1993. Buzzwords. *Apis, Apis, Bobapis . . .* *Amer. Entomol.* 39: 133-134.
- Berenbaum, M.R., 1993. Buzzwords. Over-the-counter insects. *Amer. Entomol.* 39: 200-201.
- Berenbaum, M.R., 1994. Arachnids. *Grolier's New Book of Knowledge*.
- Berenbaum, M.R., 1993. Sequestered plant toxins and insect palatability. *Food Insects Newsletter* 6:1, 6-9.
- Berenbaum, M.R. 1994. Oops Agassiz 1846 and other omissions. *Amer. Entomol.* 40: 9-10.

- Berenbaum, M.R. 1994. Department of Ant-omology? *Amer. Entomol.* 40: 70-71.
- Berenbaum, M.R. 1994. Author! Author! et al. *Amer. Entomol.* 40: 134, 137.
- Berenbaum, M.R., 1994. On elderly ants. *Amer. Entomol.* 40: 196, 201.
- Berenbaum, M.R., 1994. More on sequestered plant toxins. *Food Insects Newsletter* 7: 6, 8.
- Berenbaum, M.R., 1995. Entomological legwork. *Amer. Entomol.* 41: 6-7.
- Berenbaum, M.R., 1995. Super-systematics. *Amer. Entomol.* 41: 68-69.
- Berenbaum, M.R., 1995. Ah! Humbug! *American Entomol.* 41: 132-133.
- Berenbaum, M.R., 1995. Putting on airs. *Amer. Entomol.* 41: 199-200.
- Berenbaum, M.R., 1995. Entomology's past, present and future. *Illinois Research* 36: 21-24.
- Berenbaum, M.R., 1995. Spider silk. *The Sciences* 35(5): 13-15.
- Berenbaum, M.R., 1995. Swallowtails on stamps. Pages 447-449 in J. M. Scriber, Y. Tsubaki, and R.C. Lederhouse, eds. *Swallowtail Butterflies: Their Ecology and Evolutionary Biology*. Gainesville; Scientific Publishers.
- Berenbaum, M.R., 1995. [Biological syzygies]. *Defenders of Wildlife* 70 (3): 18.
- Berenbaum, M.R., 1996. Buzzwords. I'm O.K.; are you okay? *Amer. Entomol.* 42: 5-6.
- Berenbaum, M.R., 1996. Entomophobe to entomophile: a metamorphosis. *Wings* 19: 8-11.
- Berenbaum, M.R., 1996. Buzzwords. Fatal attractions. *Amer. Entomol.* 42: 70-71.
- Berenbaum, M.R., 1996. Buzzwords. Let me tell you 'bout the birds and the bees. *Amer. Entomol.* 42: 134-135.
- Berenbaum, M.R., 1997. Buzzwords. Roach clips and other short subjects. *Amer. Entomol.* 42: 197-198.
- Berenbaum, M.R., 1997. Buzzwords. Grumpy old entomologists. *Amer. Entomol.* 43: 3-4.
- Berenbaum, M.R., 1997. Got my mojo workin' (badly). *Amer. Entomol.* 43: 69-70.
- Berenbaum, M.R., 1997. Weird Al-eyrodidae? Weird Al-eocharinae? *Amer. Entomol.* 43: 134-135.
- Berenbaum, M.R., 1997. From fly-fishing to aquatic entomology. Pages 13-17 in *Streamkeepers*. Portland: Xerces Society.
- Berenbaum, M.R., 1997. Dr. Berenbaum replies. *Amer. Entomol.* 43: 195.
- Berenbaum, M.R., 1997. Ain't no flies in me! *Amer. Entomol.* 43: 196-197.
- Berenbaum, M. R., 1998. Fruit flies: household pests and history makers. *Wings* 20: 7-12.
- Berenbaum, M.R., 1998. Is Paris buzzing? *Amer. Entomol.* 44: 4-5.
- Berenbaum, M. R., 1998. The birds and the bees, the flowers and the trees. *Encyclopedia Britannica Yearbook of Science and the Future*, pp. 148-165.
- Berenbaum, M.R., 1998. The image of the entomologist (moving and otherwise). *Amer. Entomol.* 44: 70-71.
- Berenbaum, M, 1998. Are insects getting a bad rap? *PARADE Magazine*, May 24, pp. 14-15.

- Berenbaum, M., 1998. This is your brain on bugs. *Amer. Entomol.* 44: 131-132.
- Berenbaum, M., 1998. "Quite without redeeming quality?" *Amer. Entomol.* 44: 196-197.
- Berenbaum, M.R. 1999. Head lice. *Encyclopedia Britannica*: in press.
- Berenbaum, M.R., 1999. House-dust mites. *Encyclopedia Britannica*: in press.
- Berenbaum, M.R., 1999. Getting up to speed. *Amer. Entomol.* 45: 4-5.
- Berenbaum, M.R., 1999. Sea monkey see, sea monkey do. *Amer. Entomol.* 45: 68-69.
- Berenbaum, M. R., 1999. Infield flies and other sporting types. *Amer. Entomol.* 45: 132-133.
- Berenbaum, M. R., 1999. A prayer before dining. *Amer. Entomol.* 45: 195-197.
- Berenbaum, M.R., 1999. Shelter-making caterpillars: rolling their own. *Wings* 22: 7-10.
- Berenbaum, M. R., 2000. Asian longhorned beetles. *Audubon* 102 (Jan/Feb.): 74-79.
- Berenbaum, M. R., 2000. Gut reactions: how caterpillars and people disarm alarming substances with cytochrome P450s. *American Academy of Arts and Sciences Newsletter* (March/April);
- Berenbaum, M. R., 2000. Grotto glow. *Amer. Entomol.* 46: 4-5.
- Berenbaum, M. R., 2000. Subpoenas envy. *Amer. Entomol.* 46: 66-68.
- Berenbaum, M.R., 2000. Getting to know the neighbors. *Wild Earth* 10: 17-19.
- Berenbaum, M.R., 2000. Safe affordable pesticides still needed in U. S. agriculture. *The Scientist* 14 (18): 6 (Sept. 18).
- Berenbaum, M.R., 2000. The "bug" stops here. *Amer. Entomol.* 46: 130-132.
- Berenbaum, M.R., 2000. A bee or not a bee—that is the question. *Whitmire Micro-Gen Prescription Treatment Quarterly*.
- Berenbaum, M.R., 2000. Viewpoint: Getting to know the neighbors. *Wild Earth Magazine* 10: (response).
- Berenbaum, M.R., 2000. See you in the movies? *American Entomologist* 46: 210-212.
- Berenbaum, M.R., 2001. Interpreting the scientific literature: differences in the scientific and lay communities. *Plant Physiology* 125: 509-512.
- Berenbaum, M.R., 2001. Invasion USA: Nonnative species are an immediate threat. *Institute of Government and Public Affairs Policy Forum* 13 (2): 1-5.
- Berenbaum, M.R., 2001. Caught in the net. *American Entomologist* 47: 4-5.
- Berenbaum, M.R., 2001. Forbidden fruit flies and other GMOs. *American Entomologist* 47: 66-67.
- Berenbaum, M.R., 2001. Unerwarteter Weltuntergang. *Neue Züricher Zeitung—Folio* July 7: 14-20 [reprinted in *Natur & Kosmos*, "Lebensretter auf sechs Beinen," November 2001, pp. 24-31]
- Berenbaum, M.R. 2001. 20/20: Jump-starting an appreciation for science. *National Academies Infocus* 1: 24.
- Berenbaum, M.R., 2001. Rad roaches. *American Entomologist* 47: 132-133.

- Berenbaum, M.R., 2001. Killer collectibles. *American Entomologist* 47: 194-195.
- Berenbaum, M.R., 2002. Insect and windshields: a crash course. *American Entomologist* 48: 2-3.
- Berenbaum, M.R. 2002. Honey, I shrunk the opposition. *American Entomologist* 48: 68-69.
- Berenbaum, M.R., 2002. A new world order. *American Entomologist* 48: 132-133.
- Berenbaum, M.R., 2002. Picture-winged flies—worth a thousand words? *Wings* 25: 13-17.
- Berenbaum, M.R., 2002. Bugged by voices. *American Entomologist* 48: 195-196
- Berenbaum, M.R. 2003. Physics disability. *American Entomologist* 49: 3-4.
- Berenbaum, M.R. 2003. Current issues surrounding the utilization of genetically modified organisms: introduction. *American Entomologist* 49: 39-40.
- Berenbaum, M.R., 2003. A stinging commentary. *American Entomologist* 49: 68-69.
- Berenbaum, M.R. and R J. Leskosky 2003. Movies, Insects In. Pages 756-762 in V. Resh and R Carde, eds., *Encyclopedia of Insects*. San Diego: Academic Press.
- Berenbaum, M.R. 2003. Frass-eating grins. *American Entomologist* 49: 132-133.
- Berenbaum, M.R. 2003. Fly on the wall. *American Entomologist*: 49: 156-157
- Berenbaum, M.R. 2004. Why we love bees. *Organic Gardening* 51: 30-33.
- Berenbaum, M.R. 2004. “The muse’s bitterest foe.” *Ninth Letter* 1: 169-173.
- Berenbaum, M.R. 2004. On the literary life of insects. Chapter 1 in E. Brown, ed. *Insect Poetics*.
- Berenbaum, M.R. 2004. Friendly fire. *Wings* 27: 8-12..
- Berenbaum, M.R., 2004. Cloudy, with a chance of butterflies. *Amer. Entomol.* 50: 4-5.
- Berenbaum, M.R. 2004. Heading off a problem. *American Entomologist* 50: 68-69.
- Berenbaum, M.R. 2004. An All-American bug. *Newsday* (Notebook feature): June 6, 2004.
- Berenbaum, M.R. 2004. Gold bugs and other variations. *Amer. Entomol.* 50: 124-25.
- Berenbaum, M.R. .2004. Daddy longleg deadly weapons. *Amer. Entomol.* 50: 188-189.
- Berenbaum, M.R. 2005. Freedom roaches. *Amer. Entomol.* 51: 4-5, 10.
- Berenbaum MR 2005. Face time. *Amer. Entomol.* 51: 68-69.
- Berenbaum, M.R. 2005. On the literary life of insects. Chapter 1 in E. Brown, ed. *Insect Poetics*.
- Berenbaum MR and T Harrison. 2005 Small is beautiful. *Wings* 28 (Fall 2005): 4-9.
- Berenbaum, MR 2005. Collar ID *Amer. Entomol.* 51: 129-131
- Leskosky RJ and MR Berenbaum, 2005. Animated evolution. *The Exchange* (Society for Technical Communication Newsletter) 12 (4):

- Berenbaum, M.R., 2005. Mosquitoes and the TV-ch? *Amer Entomol.* 51: 196-197.
- Berenbaum, M. R. 2006. Lousy designs. *Amer. Entomol.* 52: 4-6.
- Berenbaum, M.R. 2006. Poli-ticks as usual. *Amer. Entomol.* 52: 68-69.
- Berenbaum, M.R. 2006. All I really need to know I learned in genetics class. *Amer. Entomol.* 52: 132-33.
- Berenbaum, M.R., 2006. Incomplete teaching. *Amer. Entomol.* 52: 212-213.
- Berenbaum, M.R., 2007. Setal-mania. *Amer. Entomol.* 53: 4-5.
- Berenbaum, M., 2007. "A Persistent Controversy, a Still Valid Warning," *Rachel Carson: Pen Against Poison*, (U.S. Department of State, 2007) <http://usinfo.state.gov/products/pubs/carson/berenbaum.htm>.
- Berenbaum, M.R., 2007. Buzz-Woerter. *American Entomol.* 53: 68-69.
- Berenbaum, M.R. , 2007. A mite unappetizing. *Amer. Entomol.* 53: 132-133.
- Berenbaum, M.R., 2007. Lend me your earwigs. *Amer Entomol.* 53: 196-197.
- Berenbaum, M.R., 2008. Right-handed ants. *Amer Entomol* 54: 4-5.
- Berenbaum, M.R., 2008. Fly boys (and girls). *Amer Entomol.* 54:68-69.
- Berenbaum, M.R., 2008. Flea flickers and football fields. *Amer. Entomol.* 54: 132-133
- Berenbaum, M, 2008. If malaria's the problem, DDT's not the only answer." Pages 136-140 in T. Dunlap, ed. *DDT, Silent Spring and the Rise of Environmentalism: Classic Texts*. Seattle: University of Washington Press.
- Berenbaum, M.R., 2008. Foreword. Pages vii-viii in MR Jeffords, SL Post and C Warwick, editors. *Biologists in the Field; Stories, Tales and Anecdotes from 150 Years of Field Biology*. Champaign: Illinois Natural History Survey.
- Berenbaum, M.R. 2009. Revving up for the Year of Science. *Bioscience* 59: 3.
- Berenbaum, M.R. 2008. Entomological bandwidth. *American Entomologist* 54: 196-197.
- Berenbaum, M.R., 2009. Mosquito myth exploded. *American Entomologist* 55: 4-5.
- Berenbaum, M.R. 2009. "There Must Be A Moth"—Charles Darwin and the origins of pollination biology. *American Entomologist*:
- Berenbaum, M. R., 2009. Kiss and telmophage. *Amer. Entomol.* 55: 68-69..
- Berenbaum, May, 2009. Pollinator Partnership National Pollinator Week Recipe Contest Winner: Recipe: Apiscotti (bee-enabled biscotti) [http://www.pollinator.org/pw09\\_contestwinners.htm](http://www.pollinator.org/pw09_contestwinners.htm)
- Berenbaum, May, 2009. DDT vs. Malaria: The Lesser of Two Evils?? Podcast and online forum for PRI's The World. <http://www.world-science.org/forum/ddt-malaria-may-berenbaum/>
- Berenbaum, M. R., 2009. Saving bees: What we know now. A viral overload. September 3, 2009. <http://roomfordebate.blogs.nytimes.com/2009/09/02/saving-bees-what-we-know-now/>
- Berenbaum, M. R., 2009. The Friendly Tire Tie. *American Entomologist* 55: 132-133

Berenbaum, M. R., 2009. Eradicating ignorance. *Bioscience* 59: 923.

Berenbaum, M.R., 2009. Sons of bees. *American Entomologist* 55: 212-213.

Berenbaum M.R., 2010 Frequent flyer miles. *American Entomologist* 56: 4-5.

Berenbaum, M.R., 2010. Entomologists get it on. *American Entomologist* 56: 68-69.

Berenbaum, M.R. 2010. ICE breakers. *American Entomologist* 56: 132-133, 185.

Berenbaum, M.R., 2011. *Preseucoila imallshookupis* has left the building. *American Entomologist* 56: 196-197.

Berenbaum, M.R., 2011. Pork, with a side of French flies. *American Entomologist* 57: 4-5, 58-59.

Berenbaum, M.R., 2011. Off the cuff remarks. *American Entomologist* 57: 68-69. 123.

Berenbaum, M.R., 2011. OVO achievers. *American Entomologist* 57: 132-133.

Berenbaum, M.R., 2011. Tweet and run. *American Entomologist* 57: 196-197.

Berenbaum, M.R., 2012. Bee my symbol of affection. *American Entomologist* 58: 4-5.

Berenbaum, M.R., 2012. Biology with six legs. *Community Concierge* 9(3): 6-7, 14-15.

Berenbaum, M.R., 2012. Beespotter at University of Illinois. *American Entomologist* 58: 25-28.

Berenbaum, M.R., 2012. Luck be a ladybug tonight. *American Entomologist* 58:68-69, 123.

Berenbaum, M.R., 2012. Preparing for the Arthropocalypse. *American Entomologist* 58: 132-33.

Berenbaum, M.R., 2012. Ungeheuren Ungeziefer (big bugs in any language). *Amer. Entomol.* 58: 196-198.

Berenbaum, M.R., 2013. The truth (about insects) is out there. *American Entomologist* 59: 6-8.

Berenbaum, M.R., 2013. Insects as cat toys. *American Entomologist* 59: 68-69 (including cartoon)

Berenbaum, M.R., 2013. Creationist hit or myth. *American Entomologist* 59: 132-134 (including cartoon).

Berenbaum, M.R., 2013. DDT, the persistent pesticide (onscreen). *American Entomologist* 59: 196-198 (including cartoon)

Berenbaum, M.R., 2013. May Berenbaum's reply (response to letter to the editor). *American Entomologist* 59: 195.

Berenbaum, M.R., 2014. Spirits of the hive. *American Entomologist* 60: 5-7 (including cartoon)

Berenbaum, M.R., 2014. Not your father's patronym. *American Entomologist* 60: 68-70. (including cartoon).

Berenbaum, M.R., 2014. Incest, assassination and buzz (reprinted from Times Literary Supplement) <http://www.the-tls.co.uk/tls/public/tlssearch.do?querystring=When+bards+made+kings&offset=21150&hits=0&sortby=date&order=ASC>

Berenbaum, M.R., 2014. Presidential buzz. *American Entomologist* 60: 196-200.

Berenbaum, M.R., 2015. Road worrier. *American Entomologist* 61: 5-8. (including cartoon)

Berenbaum. M.R., 2015. Bees in bonnets (and purses). *American Entomologist* 61: 69-71 (including cartoon)

Berenbaum, M.R., 2015. Who will stomp the rain? *American Entomologist* 61: 133-135 (including cartoon)



Berenbaum, M.R., 2015. XX-rated entomologists. *American Entomologist* 61: 204-206 (including cartoon)

Berenbaum, M.R., 2016. Honey-pot-luck. *American Entomologist* 62: 3-5 (including cartoon)

Berenbaum, M.R., 2016. Mosquito screens. *American Entomologist* 62: 68-70 (including cartoon).

Berenbaum, M.R., 2016. Buzzwords. A consuming passion for entomophagy. *American Entomologist* 62: 140-142. (including cartoon)

Berenbaum, M.R., 2016. Chance the wrapper. *American Entomologist* 62: 203-205 (including cartoon)

Berenbaum, M.R., 2017 Explosive issues. *American Entomologist* 63: 1-5 (including cartoon)

Berenbaum, M.R., 2017. Pins and needles. *American Entomologist* 63: 67-69.

Berenbaum, M.R., 2017. Scientific pronouncements. *American Entomologist* 63: 140-142 (including cartoon)

Berenbaum, M.R. 2017. Yakety yak. *American Entomologist* 63: 205-207 (with cartoon).

Berenbaum, M.R., 2018. Lords of the Flies: Insects, humans, and the fate of the world we share. *The Animals in the Human World* issue. *Common Reader: A Journal of the Essay* (Washington University, St. Louis, MO), January 4, 2018 <https://commonreader.wustl.edu/c/lords-of-the-flies/>

Berenbaum, M.R., 2018. Damselflies in distress. *American Entomologist* 64: 3-6. (Spring 2018)

Berenbaum, M.R., 2018. Cinema-tick experiences. *American Entomologist* 64: 67-70 (Summer 2018)

Berenbaum, M.R., 2018. Reality bites. *American Entomologist* 64:134-137

Berenbaum, M.R., 2018. Bees, ants, spiders, and a side of Bacon. *Brooklyn Rail* <https://brooklynrail.org/2018/3/criticspage>

Berenbaum, M.R., 2018. The superposition principle: *American Entomologist* 64: 204-206.

Berenbaum, M.R., 2019. Out of order. *American Entomologist* 65: 3-5 (with cartoon)

Berenbaum, M.R., 2019. Bot-flying. *American Entomologist* 65: 76-79 (with cartoon)

Berenbaum, M.R., 2019. Domestic affairs. *American Entomologist* 65:154-15

Berenbaum, M.R., 2019. Catching ZZZZ's. *American Entomologist* 65: 220-223