

Monarch Papers 2009-2014

- 2009 Brower LP, Williams EH, Slayback DA, Fink LS, Ramirez MI, Zubieta RR, Garcia MIL, Gier P, Resource use
Lear JA, Van Hook T. 2009. Oyamel fir forest trunks provide thermal advantages for
overwintering monarch butterflies in Mexico. *Insect Conservation and Diversity* 2: 163-
175.
- 2009 Davis AK. 2009. Wing Color of Monarch Butterflies (*Danaus plexippus*) in Eastern North Physiology/behavior
America across Life Stages: Migrants Are Redder than Breeding and Overwintering
Stages. *Psyche: A Journal of Entomology* 2009.
- 2009 de Roode JC, Chi J, Rarick RM, Altizer S. 2009. Strength in numbers: high parasite Natural enemies
burdens increase transmission of a protozoan parasite of monarch butterflies (*Danaus
plexippus*). *Oecologia* 161: 67-75.
- 2009 Haeger JF, Barbudo DJ. 2009. The Monarch butterfly *Danaus plexippus* (Linnaeus, 1758) Population dynamics
in the Strait of Gibraltar (Lepidoptera: Danaidae). *Shilap-Revista De Lepidopterologia* 37:
421-438.
- 2009 Hashizume H, Mutoh A, Kato S, Kunitachi T, Itoh H. 2009. Emergence of Cross- Evolution/Range
Generational Migration Behavior in Multiagent Simulation. *Journal of Advanced
Computational Intelligence and Intelligent Informatics* 13: 304.
- 2009 Honey-Roses J. 2009. Disentangling the proximate factors of deforestation: the case of Habitat
the Monarch Butterfly Biosphere Reserve in Mexico. *Land Degradation & Development*
20: 22-32.
- 2009 Howard E, Davis AK. 2009. The fall migration flyways of monarch butterflies in eastern Migration
North America revealed by citizen scientists. *Journal of Insect Conservation* 13: 279-286.
- 2009 Knight A, Brower LP. 2009. The Influence of Eastern North American Autumnal Migrant Population dynamics
Monarch Butterflies (*Danaus plexippus* L.) on Continuously Breeding Resident Monarch
Populations in Southern Florida. *Journal of Chemical Ecology* 35: 816-823.

- 2009 Labhart T, Baumann F, Bernard GD. 2009. Specialized ommatidia of the polarization-sensitive dorsal rim area in the eye of monarch butterflies have non-functional reflecting tapeta. *Cell and Tissue Research* 338: 391-400. Orientation
- 2009 Lindsey E, Mehta M, Dhulipala V, Oberhauser K, Altizer S. 2009. Crowding and disease: effects of host density on response to infection in a butterfly-parasite interaction. *Ecological Entomology* 34: 551. Natural enemies
- 2009 Lindsey E, Altizer S. 2009. Sex differences in immune defenses and response to parasitism in monarch butterflies. *Evolutionary Ecology* 23: 607-620. Natural enemies
- 2009 McIntosh AH, Grasela JJ. 2009. Establishment of a monarch butterfly (*Danaus plexippus*, Lepidoptera: Danaidae) cell line and its susceptibility to insect viruses. *Applied Entomology and Zoology* 44: 331-336. Techniques
- 2009 Merlin C, Gegeer RJ, Reppert SM. 2009. Antennal Circadian Clocks Coordinate Sun Compass Orientation in Migratory Monarch Butterflies. *Science* 325: 1700-1704. Orientation
- 2009 Oberhauser KS, Manweiler SA, Lelich R, Blank M, Batalden RV, De Anda A. 2009. Impacts of ultra-low volume Resmethrin applications on non-target insects. *Journal of the American Mosquito Control Association* 25: 83-93. GMO/toxins
- 2009 Pelling AE, Wilkinson PR, Stringer R, Gimzewski JK. 2009. Dynamic mechanical oscillations during metamorphosis of the monarch butterfly. *Journal of the Royal Society Interface* 6: 29-37. Physiology/behavior
- 2009 Rasmann S, Johnson MD, Agrawal AA. 2009. Induced Responses to Herbivory and Jasmonate in Three Milkweed Species. *Journal of Chemical Ecology* 35: 1326. Hostplant biology
- 2009 Solensky MJ, Oberhauser KS. 2009. Male monarch butterflies, *Danaus plexippus*, adjust ejaculates in response to intensity of sperm competition. *Animal Behaviour* 77: 465-472. Physiology/behavior
- 2009 Solensky MJ, Oberhauser KS. 2009. Sperm precedence in monarch butterflies (*Danaus plexippus*). *Behavioral Ecology* 20: 328-334. Physiology/behavior
- 2009 Viana C, Campos R, Viegas F, Silva F, Fraca R, Reis V, Guerreiro M, Canha P. 2009. A borboleta monarca (*Danaus plexippus*) em Odemira - Portugal. *Captar* 1:79-88. Evolution/range

- 2009 Zhu HS, Gegear RJ, Casselman A, Kanginakudru S, Reppert SM. 2009. Defining behavioral and molecular differences between summer and migratory monarch butterflies. *Bmc Biology* 7. Orientation
- 2010 Altizer S, Davis AK. 2010. Populations of monarch butterflies with different migratory behaviors show divergence in wing morphology. *Evolution* 64: 1018-1028. Evolution/Range
- 2010 Atterholt AL, Solensky MJ. 2010. Effects of Larval Rearing Density and Food Availability on Adult Size and Coloration in Monarch Butterflies (Lepidoptera: Nymphalidae). *Journal of Entomological Science* 45: 366-377. Environmental performance
- 2010 Boquera MLE, Lobit P, Morales VC. 2010. Leaf chlorophyll content estimation in the monarch butterfly biosphere reserve. *Revista Fitotecnia Mexicana* 33: 175-181. Habitat
- 2010 Davis AK, Rendon-Salinas E. 2010. Are female monarch butterflies declining in eastern North America? Evidence of a 30-year change in sex ratios at Mexican overwintering sites. *Biology Letters* 6: 45-47. Population dynamics
- 2010 de Roode JC, Altizer S. 2010. Host-parasite genetic interactions and virulence-transmission relationships in natural populations of monarch butterflies. *Evolution* 64: 502-514. Natural enemies
- 2010 Hartzler RG. 2010. Reduction in common milkweed (*Asclepias syriaca*) occurrence in Iowa cropland from 1999 to 2009. *Crop Protection* 29: 1542. Hostplant biology
- 2010 Howard E, Aschen H, Davis AK. 2010. Citizen Science Observations of Monarch Butterfly Overwintering in the Southern United States. *Psyche: A Journal of Entomology* Population dynamics
- 2010 Lefevre T, Oliver L, Hunter MD, De Roode JC. 2010. Evidence for trans-generational medication in nature. *Ecology Letters* 13: 1485. Natural enemies
- 2010 Lopez SV, Jimenez OC, Boquera MLE, Baret F. 2010. Leaf area index estimation in the Monarch Butterfly Biosphere Reserve. *Revista Fitotecnia Mexicana* 33: 169-174. Habitat

- 2010 Lopez-Garcia J, Guzman AV. 2010. Vegetation and land use 2009: Monarch Butterfly Biosphere Reserve, Mexico. *Journal of Maps*: 665-673. Habitat
- 2010 McCord JW, Davis AK. 2010. Biological Observations of Monarch Butterfly Behavior at a Migratory Stopover Site: Results from a Long-term Tagging Study in Coastal South Carolina. *Journal of Insect Behavior* 23: 405-418. Migration
- 2010 Pereira DA, Ramos MV, Souza DP, Portela TCL, Guimaraes JA, Madeira SVF, Freitas CDT. 2010. Digestibility of defense proteins in latex of milkweeds by digestive proteases of Monarch butterflies, *Danaus plexippus* L.: A potential determinant of plant-herbivore interactions. *Plant Science* 179: 348-355. Hostplant biology
- 2010 Reppert SM, Gegear RJ, Merlin C. 2010. Navigational mechanisms of migrating monarch butterflies. *Trends in Neurosciences* 33: 399-406. Orientation
- 2010 Rodrigues D, Goodner BW, Weiss MR. 2010. Reversal Learning and Risk-Averse Foraging Behavior in the Monarch Butterfly, *Danaus plexippus* (Lepidoptera: Nymphalidae). *Ethology* 116: 270-280. Physiology/behavior
- 2010 Stevens SR, Frey DF. 2010. Host plant pattern and variation in climate predict the location of natal grounds for migratory monarch butterflies in western North America. *Journal of Insect Conservation* 14: 731-744. Population dynamics
- 2010 Zalucki MP, Lammers JH. 2010. Dispersal and egg shortfall in Monarch butterflies: what happens when the matrix is cleaned up? *Ecological Entomology* 35: 84-91. Population dynamics
- 2011 Bartel RA, Oberhauser KS, De Roode JC, Altizer SM. 2011. Monarch butterfly migration and parasite transmission in eastern North America. *Ecology* 92: 342-351. Natural enemies
- 2011 Blackiston D, Briscoe AD, Weiss MR. 2011. Color vision and learning in the monarch butterfly, *Danaus plexippus* (Nymphalidae). *Journal of Experimental Biology* 214: 509-520. Physiology/behavior
- 2011 Brower LP, Williams EH, Fink LS, Slayback DA, Ramirez MI, Garcia MV, Zubieta RR, Weiss SB, Calvert WH, Zuchowski W. 2011. Overwintering clusters of the monarch butterfly coincide with the least hazardous vertical temperatures in the Oyamel forest. *Journal of the Lepidopterists Society* 65: 27-46. Resource use

- 2011 de Roode JC, Rarick RM, Mongue AJ, Gerardo NM, Hunter MD. 2011. Aphids indirectly increase virulence and transmission potential of a monarch butterfly parasite by reducing defensive chemistry of a shared food plant. *Ecology Letters* 14: 453-461. Natural enemies
- 2011 de Roode JC, de Castillejo CLF, Faits T, Alison S. 2011. Virulence evolution in response to anti-infection resistance: toxic food plants can select for virulent parasites of monarch butterflies. *Journal of Evolutionary Biology* 24: 712-722. Natural enemies
- 2011 Garcia JL. 2011. Deforestation and forest degradation in the Monarch Butterfly Biosphere Reserve, Mexico, 2003-2009. *Journal of Maps*: 626-633. Habitat
- 2011 Heinze S, Reppert SM. 2011. Sun Compass Integration of Skylight Cues in Migratory Monarch Butterflies. *Neuron* 69: 345-358. Orientation
- 2011 Honey-Roses J, Baylis K, Ramirez MI. 2011. A spatially explicit estimate of avoided forest loss. *Conservation biology: the journal of the Society for Conservation Biology* 25. Habitat
- 2011 Howard E, Davis AK. 2011. A simple numerical index for assessing the spring migration of monarch butterflies using data from Journey North, a citizen-science program. *Journal of the Lepidopterists Society* 65: 267-270. Techniques
- 2011 Lefevre T, Williams AJ, de Roode JC. 2011. Genetic variation in resistance, but not tolerance, to a protozoan parasite in the monarch butterfly. *Proceedings of the Royal Society B-Biological Sciences* 278: 751-759. Natural enemies
- 2011 Miller NG, Wassenaar LI, Hobson KA, Norris DR. 2011. Monarch butterflies cross the Appalachians from the west to recolonize the east coast of North America. *Biology Letters* 7: 43-46. Migration
- 2011 Navarrete JL, Ramirez MI, Perez-Salicrup DR. 2011. Logging within protected areas: Spatial evaluation of the monarch butterfly biosphere reserve, Mexico. *Forest Ecology and Management* 262: 646-654. Habitat
- 2011 Sternberg ED, Lefevre T, Rawstern AH, de Roode JC. 2011. A virulent parasite can provide protection against a lethal parasitoid. *Infection, Genetics and Evolution* 11: 399. Natural enemies

- 2011 Zhan S, Merlin C, Boore JL, Reppert SM. 2011. The Monarch Butterfly Genome Yields Insights into Long-Distance Migration. *Cell* 147: 1171-1185. Evolution/Range
- 2012 Agrawal AA, Petschenka G, Bingham RA, Weber MG, Rasmann S. 2012. Toxic cardenolides: chemical ecology and coevolution of specialized plant-herbivore interactions. *New Phytologist* 194: 28. Hostplant biology
- 2012 Agrawal AA, Kearney EE, Hastings AP, Ramsey TE. 2012. Attenuation of the Jasmonate Burst, Plant Defensive Traits, and Resistance to Specialist Monarch Caterpillars on Shaded Common Milkweed (*Asclepias syriaca*). *Journal of Chemical Ecology* 38: 893-901. Hostplant biology
- 2012 Alcantara-Ayala I, Lopez-Garcia J, Garnica RJ. 2012. On the landslide event in 2010 in the Monarch Butterfly Biosphere Reserve, Angangueo, Michoacan, Mexico. *Landslides* 9: 263-273. Habitat
- 2012 Barve N, et al. 2012. Climate-change and mass mortality events in overwintering monarch butterflies. *Revista Mexicana De Biodiversidad* 83: 817-824. Population dynamics
- 2012 Baum KA, Sharber WV. 2012. Fire creates host plant patches for monarch butterflies. *Biology Letters* 8: 968-971. Hostplant biology
- 2012 Brower LP, Taylor OR, Williams EH, Slayback DA, Zubieta RR, Ramirez MI. 2012. Decline of monarch butterflies overwintering in Mexico: is the migratory phenomenon at risk? *Insect Conservation and Diversity* 5: 95-100. Population dynamics
- 2012 Brower LP, Taylor OR, Williams EH. 2012. Response to Davis: choosing relevant evidence to assess monarch population trends. *Insect Conservation and Diversity* 5: 327-329. Commentary or review
- 2012 Champo-Jimenez O, Valderrama-Landeros L, Espana-Boquera M. 2012. Forest cover loss in the monarch butterfly biosphere reserve, michoacan, mexico (2006-2010). *Revista Chapingo Serie Ciencias Forestales Y Del Ambiente* 18: 143-157. Habitat
- 2012 Davis AK, Nibbelink NP, Howard E. 2012. Identifying large-and small-scale habitat characteristics of monarch butterfly migratory roost sites with citizen science observations. *International Journal of Zoology* 2012. Migration

- 2012 Davis AK. 2012. Are migratory monarchs really declining in eastern North America? Examining evidence from two fall census programs. *Insect Conservation and Diversity* 5: 101-105. Population dynamics
- 2012 Davis AK, Chi J, Bradley C, Altizer S. 2012. The Redder the Better: Wing Color Predicts Flight Performance in Monarch Butterflies. *Plos One* 7. Physiology/behavior
- 2012 Dockx C. 2012. Differences in phenotypic traits and migratory strategies between eastern North American monarch butterflies, *Danaus plexippus* (L.). *Biological Journal of the Linnean Society* 106: 717-736. Migration
- 2012 Flockhart DTT, Martin TG, Norris DR. 2012. Experimental Examination of Intraspecific Density-Dependent Competition during the Breeding Period in Monarch Butterflies (*Danaus plexippus*). *Plos One* 7. Population dynamics
- 2012 Guerra PA, Merlin C, Gegear RJ, Reppert SM. 2012. Discordant timing between antennae disrupts sun compass orientation in migratory monarch butterflies. *Nature Communications* 3. Orientation
- 2012 Heinze S, Reppert SM. 2012. Anatomical basis of sun compass navigation I: The general layout of the monarch butterfly brain. *Journal of Comparative Neurology* 520: 1599-1628. Orientation
- 2012 Howard E, Davis AK. 2012. Mortality of migrating monarch butterflies from a wind storm on the shore of Lake Michigan, USA. *Journal of Research on the Lepidoptera* 45:49-54. Population dynamics
- 2012 Lefevre T, Chiang A, Kelavkar M, Li H, Li J, de Castillejo CLF, Oliver L, Potini Y, Hunter MD, de Roode JC. 2012. Behavioural resistance against a protozoan parasite in the monarch butterfly. *Journal of Animal Ecology* 81: 70-79. Natural enemies
- 2012 Leong KHL, Yoshimura MA, Williams C. 2012. Adaptive significance of previously mated monarch butterfly females (*Danaus plexippus* (Linnaeus)) overwintering at a California winter site. *Journal of the Lepidopterists Society* 66: 205-210. Physiology/behavior
- 2012 Lopez-Garcia J, Alcantara-Ayala I. 2012. Land-use change and hillslope instability in the Monarch Butterfly Biosphere Reserve, central Mexico. *Land Degradation & Development* 23: 384-397. Habitat

- 2012 Lyons JI, Pierce AA, Barribeau SM, Sternberg ED, Mongue AJ, de Roode JC. 2012. Lack of genetic differentiation between monarch butterflies with divergent migration destinations. *Molecular Ecology* 21: 3433-3444. Migration
- 2012 McCord JW, Davis AK. 2012. Characteristics of monarch butterflies (*Danaus plexippus*) that stopover at a site in coastal South Carolina during fall migration. *Journal of Research on the Lepidoptera* 45: 1. Migration
- 2012 Mebs D, Wagner MG, Toennes SW, Wunder C, Boppre M. 2012. Selective sequestration of cardenolide isomers by two species of *Danaus* butterflies (Lepidoptera: Nymphalidae: Danainae). *Chemoecology* 22: 269. Physiology/behavior
- 2012 Miller NG, Wassenaar LI, Hobson KA, Norris DR. 2012. Migratory Connectivity of the Monarch Butterfly (*Danaus plexippus*): Patterns of Spring Re-Colonization in Eastern North America. *Plos One* 7. Migration
- 2012 Oberhauser K. 2012. Tachinid flies and Monarch butterflies: citizen scientists document parasitism Patterns over broad spatial and temporal scales. *American Entomologist* 58. Natural enemies
- 2012 Rodrigues D, Weiss MR. 2012. Reward Tracking and Memory Decay in the Monarch Butterfly, *Danaus plexippus* L. (Lepidoptera: Nymphalidae). *Ethology* 118: 1122-1131. Physiology/behavior
- 2012 Saenz-Romero C, Rehfeldt GE, Duval P, Lindig-Cisneros RA. 2012. *Abies religiosa* habitat prediction in climatic change scenarios and implications for monarch butterfly conservation in Mexico. *Forest Ecology and Management* 275: 98-106. Habitat
- 2012 Sternberg ED, Lefevre T, Li J, Fernandez de Castillejo CL, Li H, Hunter MD, de Roode JC. 2012. Food plant-derived disease tolerance and resistance in a natural butterfly-plant-parasite interactions. *Evolution* 66:3367-3376. Natural enemies
- 2012 Suetsugu K, Mutoh A, Kato S, Kunitachi T, Itoh H. 2012. Emergence of migration behavior and adaptiogenesis to environments with sensory agents: Multigenerational migration of the monarch butterfly. *Electronics and Communications in Japan* 95: 46-55. Migration

- 2012 Zalucki MP, Malcolm SB, Hanlon CC, Paine TD. 2012. First-instar monarch larval growth and survival on milkweeds in southern California: effects of latex, leaf hairs and cardenolides. *Chemoecology* 22: 75-88. Physiology/behavior
- 2012 Zipkin EF, Ries L, Reeves R, Regetz J, Oberhauser KS. 2012. Tracking climate impacts on the migratory monarch butterfly. *Global Change Biology* 18: 3039-3049. Population dynamics
- 2013 Flockhart DTT, Wassenaar LI, Martin TG, Hobson KA, Wunder MB, Norris DR. 2013. Tracking multi-generational colonization of the breeding grounds by monarch butterflies in eastern North America. *Proceedings of the Royal Society B-Biological Sciences* 280: 8. Migration
- 2013 Guerra PA, Reppert SM. 2013. Coldness Triggers Northward Flight in Remigrant Monarch Butterflies. *Current Biology* 23: 419-423. Orientation
- 2013 Hanley D, Miller NG, Flockhart DTT, Norris DR. 2013. Forewing pigmentation predicts migration distance in wild-caught migratory monarch butterflies. *Behavioral Ecology* 24: 1108. Migration
- 2013 Heinze S, Florman J, Asokaraj S, el Jundi B, Reppert SM. 2013. Anatomical basis of sun compass navigation II: The neuronal composition of the central complex of the monarch butterfly. *Journal of Comparative Neurology* 521: 267-298. Orientation
- 2013 Luna T, Dumroese RK. 2013. Monarchs (*Danaus plexippus*) and milkweeds (*Asclepias* species) The Current Situation and Methods for Propagating Milkweeds. *Native Plants Journal* 14: 5. Hostplant biology
- 2013 Merlin C, Beaver LE, Taylor OR, Wolfe SA, Reppert SM. 2013. Efficient targeted mutagenesis in the monarch butterfly using zinc-finger nucleases. *Genome Research* 23: 159-168. Techniques
- 2013 Mouritsen H, Derbyshire R, Stalleicken J, Mouritsen OO, Frost BJ, Norris DR. 2013. An experimental displacement and over 50 years of tag-recoveries show that monarch butterflies are not true navigators. *Proceedings of the National Academy of Sciences of the United States of America* 110: 7348-7353. Orientation

- 2013 Mouritsen H, Derbyshire R, Stalleicken J, Mouritsen OO, Frost BJ, Norris DR. 2013. Reply to Oberhauser et al.: The experimental evidence clearly shows that monarch butterflies are almost certainly not true navigators. *Proceedings of the National Academy of Sciences of the United States of America* 110:E3681. Commentary or review
- 2013 Oberhauser KS, Taylor OR, Reppert SM, Dingle H, Nail KR, Pyle RM, Stenoien C. 2013. Are monarch butterflies true navigators? The jury is still out. *Proceedings of the National Academy of Sciences of the United States of America* 110: E3680-E3680 Commentary or review
- 2013 Perez-Ramirez S, Ramirez MI, Jaramillo-Lopez PF, Bautista F. 2013. Soil organic carbon content under different forest conditions: Monarch Butterfly Biosphere Reserve, Mexico. *Revista Chapingo Serie Ciencias Forestales Y Del Ambiente* 19: 157-173. Habitat
- 2013 Pleasants JM, Oberhauser KS. 2013. Milkweed loss in agricultural fields because of herbicide use: effect on the monarch butterfly population. *Insect Conservation and Diversity* 6: 135-144. Population dynamics
- 2013 Rafter JL, Agrawal AA, Preisser EL. 2013. Chinese mantids gut toxic monarch caterpillars: avoidance of prey defence? *Ecological Entomology* 38: 76-82. Natural enemies
- 2013 Sander SE, Altizer S, de Roode JC, Davis AK. 2013. Genetic Factors and Host Traits Predict Spore Morphology for a Butterfly Pathogen. *Insects* 4: 447. Natural enemies
- 2013 Serratore VR, Zalucki, MP, Carter PA. 2013. Thermoregulation in moulting and feeding *Danaus plexippus* L. (Lepidoptera: Nymphalidae) caterpillars. *Australian Journal of Entomology* 52: 8. Environmental performance
- 2013 Sharma M, Saini M, Singh M. 2013. Computational Sequence Analysis and Functional Annotation of KGM_05782 Protein of *Danaus Plexippus*. *International Journal of Molecular Biology & Biochemistry*. 1: 9. Physiology/behavior
- 2013 Sternberg ED, Li H, Wang R, Gowler C, de Roode JC. 2013. Patterns of Host-Parasite Adaptation in Three Populations of Monarch Butterflies Infected with a Naturally Occurring Protozoan Disease: Virulence, Resistance, and Tolerance. *American Naturalist* 182: E235-E248. Natural enemies

- 2013 Tao L, Hunter MD. 2013. Allocation of resources away from sites of herbivory under simultaneous attack by aboveground and belowground herbivores in the common milkweed, *Asclepias syriaca*. *Arthropod-Plant Interactions* 7: 217. Hostplant biology
- 2013 van der Heyden T, Jimenez D. 2013. Larval colour morphs of *Danaus plexippus* (Linnaeus, 1758) in Costa Rica (Lepidoptera: Nymphalidae, Danainae). *SHILAP Revista de Lepidopterologia* 41. Physiology/behavior
- 2013 Villanueva G, Lanz-Mendoza H, Hernandez-Martinez S, Zavaleta MS, Manjarrez J, Contreras-Garduno JM, Contreras-Garduno J. 2013. In the monarch butterfly the juvenile hormone effect upon immune response depends on the immune marker and is sex dependent. *Open Journal of Ecology* 3. Physiology/behavior
- 2013 Zhan S, Reppert SM. 2013. MonarchBase: the monarch butterfly genome database. *Nucleic Acids Research* 41: D758-D763. Techniques
- 2014 Agrawal AA, Ali JG, Rasmann S, Fishbein M. In press. Macroevolutionary trends in the defense of milkweeds against monarchs: latex, cardenolides, and tolerance of herbivory in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Hostplant biology
- 2014 Ali JG, Agrawal AA. 2014. Asymmetry of plant-mediated interactions between specialist aphids and caterpillars on two milkweeds. *Functional ecology* Online early. Hostplant dynamics
- 2014 Altizer S, de Roode JC. In press. Monarchs and their debilitating parasites: immunity, migration and medicinal plant use in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Natural enemies
- 2014 Batalden RV, Oberhauser KS. In press. Potential changes in Eastern North American monarch migration in response to an introduced milkweed, *Asclepias curassavica* in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Migration

- 2014 Baum KA, Mueller EK. In press. Grassland and roadside management practices affect milkweed abundance and opportunities for monarch recruitment in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Hostplant biology
- 2014 Borders B, Mader E. In press. Project milkweed: a strategy for monarch habitat conservation in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Brower LP, Fink LS, Kiphart RJ, Pocius V, Zubieta RR, Ramirez MI. In press. The effect of the 2010-2011 drought on the lipid content of monarch butterflies migrating thorough Texas to their overwintering sites in Mexico in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Environmental performance
- 2014 Brower LP, Fink LS. In press. Overview: Conserving North American monarch butterflies in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Davis A, Altizer S. In press. Overview: New perspectives on monarch migration, evolution and population biology in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 de Roode JC. In press. Overview: Monarchs as herbivores, prey, and hosts in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 DeAnda A, Oberhauser KS. In press. Invertebrate natural enemies and stage-specific mortality rates of monarch eggs and larvae in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Environmental performance

- 2014 Diffendorfer JE, Loomis JB, Ries L, Oberhauser K, Lopez-Hoffman L, Semmens D, Semmens B, Butterfield B, Bagstad K, Goldstein J. 2013. National valuation of monarch butterflies indicates an untapped potential for incentive-based conservation. *Conservation Letters*.
- 2014 Fernandez-Haeger J, Jordano D, Zalucki MP. In press. Monarchs across the Atlantic Ocean: what's happening on the other shore? in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press.
- 2014 Flockhart DTT, Pichancourt JB, Norris DR, Martin TG. 2014. Unravelling the annual cycle in a migratory animal: breeding-season habitat loss drives population declines of monarch butterflies. *Journal of Animal Ecology Online early*
- 2014 Howard E, Davis AK. In press. Tracking the fall migration of eastern monarchs with Journey North roost sightings: new findings about the pace of fall migration in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press.
- 2014 Ismail KS. 2014. Study of bacterial contaminants isolated from adult monarch butterfly (*Danaus plexippus*) found on milkweed (*Calotropis procera*) in the Jazan province of Saudi Arabia. *Journal of Science* 4: 36.
- 2014 Jepsen S, Black SH. In press. Understanding and conserving the western North American monarch population in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press.
- 2014 Johnson H, Solensky MJ, Satterfield DA, Davis AK. 2014. Does Skipping a Meal Matter to a Butterfly's Appearance? Effects of Larval Food Stress on Wing Morphology and Color in Monarch Butterflies *PLoS One* 9:e93492.
- 2014 Landis TD. 2014. Monarch waystations: propagating native plants to create travel corridors for migrating monarch butterflies. *Native Plant Journal* 15:5-16.

Conservation/social dimensions

Population dynamics

Population dynamics

Migration

Natural enemies

Population dynamics

Physiology/behavior

Conservation/social dimensions

- 2014 Lopez-Garcia, J, Manzo-Delgado LL, Alcantara-Ayala I. 2014. Rural aquaculture as a sustainable alternative for forest conservation in the Monarch Butterfly Biosphere Reserve, Mexico. *Journal of Environmental Management* 138:43-54. Conservation/social dimensions
- 2014 Martinez-Torres H, Cantu-Fernandez M, Ramirez MI, Perez-Salicrup D. In press. Fires and fire management in the Monarch Butterfly Biosphere Reserve in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Habitat
- 2014 Nail KR, Oberhauser KS. In press. Overview: Monarchs in a changing climate in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Nail KR, Batalden RV, Oberhauser KS. In press. What's too hot and what's too cold? Lethal and sub-lethal effects of extreme temperatures on developing monarchs in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Environmental performance
- 2014 Oberhauser KS. In press. Overview: Monarchs and People: Model programs for citizen science, education, and conservation in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Oberhauser KS, et al. In press. Contributions to monarch biology and conservation through citizen science: 70 years and counting in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Conservation/social dimensions
- 2014 Oberhauser K, Anderson M, Anderson S, Caldwell W, DeAnda A, Hunter M, Kaiser MC, Solensky MJ. In press. Lacewings, wasps and flies—"oh my: insect enemies take a bite out of monarchs in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Natural enemies

- 2014 Pierce AA, Altizer S, Chamberlain NL, Kronforst MR, de Roode JC. In press. Unraveling the Migration mysteries of monarch migration and global dispersal through molecular genetic techniques in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press.
- 2014 Pleasants J. In press. Monarch butterflies and agriculture in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Habitat
- 2014 Pyle RM. In press. Monarchs in the mist: new perspectives on monarch distribution in the Pacific Northwest in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Migration
- 2014 Ramirez MI, Saienz-Romero C, Rehfeldt G, Salas-Canela L. In press. Threats to the availability of overwintering habitat in the Monarch Butterfly Biosphere Reserve: land use and climate change in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Habitat
- 2014 Ries L, Oberhauser KS, Taron DJ, Rendon-Salinas E. In press. Connecting eastern monarch population dynamics across their migratory cycle in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Population dynamics
- 2014 Servin-Garciduenas LE, Martinez-Romero E. 2013. Complete mitochondrial genome recovered from the gut metagenome of overwintering monarch butterflies, *Danaus plexippus* (L.)(Lepidoptera: Nymphalidae, Danainae). *Mitochondrial DNA*: 1. Techniques
- 2014 Servin-Garciduenas LE, Sanchez-Quinto A, Martinez-Romero E. 2014. Draft Genome Sequence of Commensalibacter papalotli MX01, a Symbiont Identified from the Guts of Overwintering Monarch Butterflies. *Genome Announcements* 2:e00128-14 Other

- 2014 Shahani PC, del Rao Pesado G, Schappert P, Serrano EG. In press. Monarch habitat conservation across North America: past progress and future needs in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Tao L, Berns AR, Hunter MD. 2013. Why does a good thing become too much? Interactions between foliar nutrients and toxins determine performance of an insect herbivore. *Functional Ecology* 28:190-196. Physiology/behavior
- 2014 Vidal O, Lopez-Garcia J, Rendon-Salinas E. 2014. Trends in Deforestation and Forest Degradation after a Decade of Monitoring in the Monarch Butterfly Biosphere Reserve in Mexico. *Conservation Biology* 28: 177-186. Conservation/social dimensions
- 2014 Williams EH, Brower LP. In press. Microclimatic protection of monarch butterflies provided by Mexico's high elevation Oyamel fir forests: a review in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Young-Isebrand E, et al. In press. Environmental education and monarchs: reaching across disciplines, generations and nations in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Commentary or review
- 2014 Yu Q, Tijssen P. 2014. Iteradensovirus from the Monarch Butterfly, *Danaus plexippus plexippus*. *Genome Announcements* 2:e000321-14. Natural enemies
- 2014 Zalucki MP, Brower LP, Malcolm SB, Slager BH. In press. Estimating the climate signal in monarch population decline: no direct evidence for an impact of climate change? in Oberhauser KS, Nail KR, Altizer SM, eds. *Monarchs in a Changing World: Biology and Conservation of an Iconic Butterfly*. Ithaca, USA: Cornell University Press. Population dynamics