

CURRICULUM VITAE

ALISON K. BRODY

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ACADEMIC HISTORY

1976 – 1980 B.S. Zoology, Michigan State University, E. Lansing, MI
1981 – 1984 M.A. Department of Systematics and Ecology; Behavioral Ecology, University of Kansas, Lawrence, KS
1986 – 1991 Ph.D. Department of Entomology; Focus on Plant-Animal Interactions, University of California, Davis, CA

1992 – 1993 Visiting Assistant Professor, Albertson College of Idaho, Caldwell, ID
1993 – 1995 Post-doctoral Research Associate, Stanford University, Stanford, CA
1995 – 2000 Assistant Professor, University of Vermont, Burlington, VT
2001 – 2008 Associate Professor, University of Vermont, Burlington, VT
2009 – Full Professor, University of Vermont, Burlington, VT

RESEARCH INTERESTS

I am broadly interested in the ecological and evolutionary consequences of multiple species interactions. I study how pollinators, seed predators and pollen thieves contribute to the stability of females a gynodioecious plant, *Polemonium foliosissimum*. Gynodioecy, whereby some plants are hermaphrodites and others are female (having lost male function), provides an opportunity to examine extreme phenotypic differences in floral traits and the role of species interactions in trait selection and maintenance of gender morphs.

Most recently, in addition to examining how multiple species affect selection on the sexes in *Polemonium*, my work has focused on linking below and aboveground interactions among mycorrhizal fungi and pollinators in highbush blueberry, *Vaccinium corymbosum*. Blueberries depend on their fungal symbionts for nutrients and fungi, in turn, depend on their host plants for carbohydrates. These interactions affect floral trait expression and investment in pollinator rewards which ultimately determines yield, or plant fitness.

AWARDS, HONORS, SPECIAL APPOINTMENTS

- 2010-2015 **Elected Member Board of Trustees**, Rocky Mtn Biological Lab
2011-2012 **Co-Director** of UVM's Integrated Biological Science Major
2012-current **Associate Editor**, Ecological Applications
2010-current **Associate Editor**, Functional Ecology
2009-2011 **Committee Member** for the **Young Investigator Award**
American Society of Naturalists
2009 Jackie M. Gribbons Vermont **Women in Higher Education Leadership Award**
2008 **Nomination for Treasurer (declined)**; American Society of Naturalists
2007 **Nomination for the Kroepsch-Maurice - Associate Professor of the Year, Teaching Award; University of Vermont.**
(Nomination rescinded because I was an award recipient in 1998).
2006 **Dean's Lecturer Award Recipient**, College of Arts & Sciences
2002-2006 **Co-Director** of UVM's Integrated Biological Science Major
2001 **President** of the Plant Population Biology Section of the Ecological Society of America, 2001-2002.
1998 **Kroepsch-Maurice - Assistant Professor of the Year, Teaching Award; University of Vermont.**

TEACHING EXPERIENCE since joining UVM

- 1995-present **Undergraduate courses:** Ecology and Evolution, Principles of Biology, Exploring Biology, Plant-Animal Interactions, TAP-The Science of Knowing.
- Graduate courses:** Theories of Population Regulation, Scientific Integrity, Fundamental papers in Ecology and Evolution, Scientific Survival Skills, Graduate Survival Skills
- Guest Lectures** in Community Ecology, Environmental Biology, Plant Ecology, Genetics, Field Zoology, Evolution, Sociobiology, Symbioses

RESEARCH SUPPORT

EXTRAMURAL FUNDING APPLICATIONS AND SUPPORT (all efforts listed, only those funded list amount)

- 2018 NSF DEB-1754280. Effects of native pollinators and mycorrhizae on reproductive success in high-bush blueberry, *Vaccinium corymbosum*. Jeanne Harris, Taylor Ricketts (Co-PIs). \$198,000

- 2016 USDA AFRI- 2016-09204. Linking the belowground fungal microbiome to herbivore resistance, floral traits, pollination and yield in highbush blueberry. Jeanne Harris, Leif Richardson, Taylor Ricketts (Co-PIs).
- 2015-2017. USDA APHIS VTFB National Honeybee Survey. \$38,040
Samantha Alger (PI)
- 2015 USDA AFRI- 2016-09204. Linking the belowground fungal microbiome to herbivore resistance, floral traits, pollination and yield in highbush blueberry. Jeanne Harris, Leif Richardson, Taylor Ricketts (Co-PIs).
- 2014 NSF DEB-1429132 Preliminary Proposal: Effects of native pollinators and mycorrhizae on reproductive success in high-bush blueberry, *Vaccinium corymbosum*. Declined.
- 2013 NSF DEB-1328204 Preliminary Proposal: Effects of native pollinators and mycorrhizae on reproductive success in high-bush blueberry, *Vaccinium corymbosum*.
- 2012 NSF DEB-1259420 Sex under siege: effects of multiple species Interactions on the gynodioecious plant, *Polemonium foliosissimum*. Submitted 1/2011.
- 2012 NSF DEB- Sex under siege: effects of multiple species Interactions on the gynodioecious plant, *Polemonium foliosissimum*. Resubmitted as Pre-proposal 1/2012. **Invited**
- 2011 NSF DEB-1256095 Sex under siege: effects of multiple species interactions on the gynodioecious plant, *Polemonium foliosissimum*.
- 2010 NSF DEB-1021409 Sex under siege: effects of multiple species interactions on the gynodioecious plant, *Polemonium foliosissimum*.
- 2005 NSF DEB-0519223 Collaborative Research: \$ 505,000
Interactions among keystone species: effects of termites and ungulates on biodiversity in East African savannas. Todd M. Palmer, Dan Doak, Co-PIs. 09/05 – 08/11. (Total award: \$770,000)
- 2002-03 NSF DEB-0215390 \$ 12,000
Effects of resource availability and community composition on the outcome of multiple species interactions with *Ipomopsis aggregata*. REU Supplements to DEB-0089643
- 2001 NSF DEB-0089643 \$ 244,571
Effects of resource availability and community composition on the outcome of multiple species interactions with *Ipomopsis aggregata*. Co-PI with Rebecca E. Irwin. 6/01 – 8/04

2000	NSF DEB-9806501	\$ 5,050
	Nectar robbers, pollinators and plants: the importance of direct and indirect effects on individuals and communities. REU Supplement, received 5/00	
1999	NSF DEB-9806501	\$ 15,340
	Nectar-robbing in <i>Impatiens capensis</i> and <i>I. pallida</i> : effects on male and female reproductive success. ROA award with Helen Young. 5/99 - 7/01	
1998	NSF DEB-9805034	\$ 200,000
	Plant fitness and Population Dynamics: How Strong Are The Links? Co-PI with Mary Price, Nickolas Waser, and Diane Campbell. 9/98 - 8/02	
1998	NSF DEB-9806501	\$ 130,000
	Nectar robbers, pollinators and plants: the importance of direct and indirect effects on individuals and communities. 8/98 - 7/01	
1994	NSF DEB-9318602	\$ 160,000
	Reciprocal, Direct and Indirect Effects of Pre-dispersal Seed Predation and Pollination of Two Co-occurring Plants. Michael Zimmerman, Co-PI. 6/94- 10/97	

COMPETITIVE INTRAMURAL FUNDING

2014	Faculty SEED Grant, College of Arts and Sciences	\$ 9,400
2005	Faculty Development Grant, College of Arts and Sciences	\$ 2,000
2004	Vermont EPSCoR	\$ 48,000
1999	Faculty Development Grant, College of Arts and Sciences	\$ 1,385
1996	University Council on Research and Scholarship	\$ 4,589
	Identification of Ecological and Genetic Factors Affecting Host Plant Use in the Herbivore <i>Boloria titania helena</i> (Lepidoptera: Nymphalidae).	
1996	Grant Seed Funds, College of Arts and Sciences	\$ 2,600
	Effects of Nectar Robbers on the Fitness of a Hummingbird-pollinated Plant.	

INSTRUCTIONAL GRANTS RECEIVED

2006	UVM, Instructional Incentive Program	\$ 1,500
	Writing to learn and learning to write: A proposal to revamp the laboratory curriculum of BCOR 012, Exploring Biology.	
1998	College of Arts and Sciences, SUGR/FAME Award	\$ 2,000
	Ecotypic resistance to herbivory in <i>Arabidopsis thaliana</i> . With Heidi Albright, UVM undergraduate student.	
1996	UVM, Instructional Incentive Program	\$ 4,813
	Enhancing the First Year Experience with Molecular Biology Training.	
1995	UVM, Instructional Incentive Program	\$ 5,000
	First Year Experience for Potential Science Majors: Exploring Biology.	

PUBLICATIONS

- Brody, A.K.**, B. Waterman, T.H. Ricketts, A.L. Degrassi, J.B. González, J.M. Harris, and L.L. Richardson. 2019. Genotype-specific effects of ericoid mycorrhizae on floral traits and reproduction in *Vaccinium corymbosum*. *American Journal of Botany* 106:1412-1422.
- Alger, S.A., P.A. Burnham, and **A.K. Brody**. 2019. Flowers as viral hot spots: Honeybees (*Apis mellifera*) unevenly deposit viruses across plant species. *PLoS ONE* 14(9):e0221800
- Alger, S.A., P.A. Burnham, H.F. Boncristiani, and **A.K. Brody**. 2019. RNA virus spillover from managed honeybees (*Apis mellifera*) to wild bumblebees (*Bombus* spp.). *PLoS ONE* 14(6):e0217822
- Alger, S.A., P.A. Burnham, Z.S. Lamas, **A.K. Brody**, and L.L. Richardson. 2018. Home sick: impacts of migratory beekeeping on honey bee (*Apis mellifera*) pests, pathogens, and colony size. *PeerJ* 6:e5812; DOI10.7717/peerj.5812
- González, J.B., R.H. Petipas, O. Franken, E.T. Kiers, K.E. Veblen and **A.K. Brody**. 2018. Herbivore removal reduces reliance on arbuscular mycorrhizae for plant growth and tolerance in an East African savanna. *Oecologia* 187: 123-133.
- Campbell, D.R., **A.K. Brody**, M.V. Price, N.M. Waser, and G. Aldridge. 2017. Is Plant Fitness Proportional to Seed Set? An Experiment and a Spatial Model. *American Naturalist* 190:818-827.
- Petipas*, R., J.B. Gonzalez* and **A.K. Brody**. 2016. Habitat-specific AMF symbioses enhance drought tolerance of a native Kenyan grass. *Acta Oecologica*. DOI information: 10.1016/j.actao.2016.12.005
- Abonyo, E.A., N.K. Maniania, C.M. Warui, E.D. Kokwaro, T.M. Palmer, D.F. Doak and **A.K. Brody**. 2016 [Lack of] Effects of entomopathogenic fungus *Metarhizium anisopliae* on non-target ants associated with *Odontotermes* spp. (Isoptera: Termitidae) termite mounds in Kenya. *International Journal of Tropical Insect Science* 36:128-134.
- Clarke, G. and **A.K. Brody**. 2015. Gender inequality in predispersal seed predation contributes to female seed set advantage in a gynodioecious species. *Ecology* 5:1309-1317.
- Clarke, G. and **A.K. Brody**. 2015. Wise flies: a pre-dispersal seed predator prefers hermaphrodites over females in the gynodioecious *Polemonium foliosissimum*. *Ecological Entomology* DOI: 10.1111/een.12242
- Gonzalez, J.B., Clarke, G. and **A.K. Brody**. 2015. Lack of sex-specific differences in mycorrhizal associations and response to herbivory in the gynodioecious herb, *Polemonium foliosissimum*. *Plant Ecology* 216:951-962.

- Petipas, R. and **A.K. Brody**. 2014. Termites and ungulates affect arbuscular mycorrhizal richness and infectivity in a semi-arid savanna. *Botany*, 92:233-240.
- Palmer, T.M. and **A.K. Brody**. 2013. Enough is enough: The effects of symbiotic ant abundance on herbivory, growth and reproduction in an African acacia. *Ecology* 94:683-691.
- Brody, A. K. and R. E. Irwin**. 2012. When resources don't rescue: flowering phenology and species interactions affect compensation to herbivory in *Ipomopsis aggregata*. *Oikos*. 121:1424-1434.
- Irwin, R.E. and **A.K. Brody**. 2011. Additive effects of herbivory, nectar robbing and seed predation on male and female fitness components of the host plant *Ipomopsis aggregata*. *Oecologia*, 166:681-692.
- Hill-Bermingham, L. and **A.K. Brody**. 2011. Pollen source affects female reproductive success and early offspring traits in the rare endemic plant *Polemonium vanbruntiae* (Polemoniaceae). *Plant Species Biology*, 26:244-253.
- Waser, N.M., M.R. Campbell, M.V. Price and **A.K. Brody**. 2010. Density-dependent demographic responses of a semelparous plant to natural variation in seed rain. *Oikos* 119:1929-1935.
- Pringle, R.M., D.F. Doak, **A.K. Brody**, R. Jocke and T.M. Palmer. 2010. Spatial pattern enhances ecosystem functioning in an African savanna. *PLoS Biol* 8(5): e1000377. doi:10.1371/journal.pbio.1000377
- Brody, A.K.**, T.M. Palmer, K. Fox-Dobbs and D.F. Doak. 2010. Termites, vertebrate herbivores, and the fruiting success of *Acacia drepanolobium*. *Ecology*, 399-407.
- Fox-Dobbs, K., D.F. Doak, **A.K. Brody** and T.M. Palmer. 2010. Termites create spatial structure and govern ecosystem function by affecting nitrogen fixation in an East African savanna. *Ecology*, 1296-1397.
- Brody, A.K.**, R.E. Irwin, M.L. McCutcheon, E.C. Parsons. 2008. Interactions between nectar robbers and seed predators mediated by a shared host plant, *Ipomopsis aggregata*. *Oecologia*, 155:75–84
- Hill, L.M., **Brody, A.K.**, and C.L. Tedesco. 2008. Mating strategies & pollen limitation in globally threatened perennial *Polemonium vanbruntiae*. *Acta Oecologica*, 33: 314-323.
- Price, M.V., D.R. Campbell, N. M. Waser and **A.K. Brody**. 2008. Bridging the generation gap in plants: pollination, parental fecundity, and offspring demography. *Ecology*, 89: 1596-1604.
- Palmer, T. M. and A. K. Brody. 2008. Mutualism as reciprocal exploitation: ants and plants in Africa. *Bulletin of Ecology* 89:27-31.

- Palmer, T.M. and **A.K. Brody**. 2007. Mutualism as reciprocal exploitation: ant guards defend foliar but not reproductive structures of an African ant-plant. *Ecology* 88: 3004-3011.
- Brody, A.K.**, M.V. Price and N.M. Waser. 2007. Life-History Consequences of Vegetative Damage in Scarlet Gilia, a Monocarpic Plant. *Oikos* 116: 975-985.
- Price, M.V., N. M. Waser, R.E. Irwin, D.R. Campbell and **A.K. Brody**. 2005. Temporal and Spatial Variation in Pollination of a Montane Herb: a Seven-Year Study. *Ecology* 86: 2106–2116.
- Irwin, R.E., L. Adler and **A.K. Brody**. 2004. The dual role of floral traits: pollinator attraction and plant defense. *Ecology* 85:1503-1511.
- Cariveau, D., R.E. Irwin, **A.K. Brody**, L.S. Garcia-Mayeya, and A. von der Ohe. 2004. Direct and indirect effects of pollinators and seed predators to selection on plant and floral traits. *Oikos* 104: 15-26.
- Freeman, R.S., **A.K. Brody** and C.D. Neefus. 2003. Flowering phenology and compensation for herbivory in *Ipomopsis aggregata*. *Oecologia* 136: 394-401.
- Campbell, D.R., M. Crawford, **A.K. Brody** and T.A. Forbis. 2002. Resistance to pre-dispersal seed predators in a natural hybrid zone. *Oecologia* 131:436–443.
- Irwin, R.E., **A. K. Brody** and N.M. Waser. 2001. The impact of floral larceny on individuals, populations and communities. *Oecologia* 129:161-168.
- Brody, A.K.** and S. Morita. 2000. A positive association between oviposition and fruit set: female choice or manipulation? *Oecologia* 124:418-425.
- Irwin, R.E. and **A.K. Brody**. 2000. Nectar robbing bumblebees disrupt a plant-pollinator mutualism. *Ecology* 81:2637-2643.
- Irwin, R.E. and **A.K. Brody**. 1999. Nectar robbing bumblebees reduce the fitness of *Ipomopsis aggregata* (Polemoniaceae). *Ecology* 80:1703-1712.
- Irwin, R.E. and **A.K. Brody**. 1998. Nectar robbing in *Ipomopsis aggregata*: effects on pollinator behavior and plant fitness. *Oecologia* 116:519-527.
- Zimmerman, M. and **A.K. Brody**. 1998. Choices and consequences of oviposition in *Hylemya (Delia)* sp. (Diptera: Anthomyiidae). *Journal of Insect Behavior* 11:371-381.
- Brody, A.K.** 1997. Effects of pollinators, herbivores and seed predators on flowering phenology. *Ecology* 78:1624-1631.
- Brody, A.K.** and R. Mitchell. 1997. Effects of experimental manipulation of inflorescence size on pollination and pre-dispersal seed predation in the hummingbird-pollinated plant *Ipomopsis aggregata*. *Oecologia* 110:86-93.
- Brody, A.K.** 1996. Linking herbivory and pollination. *Bulletin of the Ecological Society of America*. 77:103-105.

- Brody, A.K.** and N.M. Waser. 1995. Oviposition patterns and larval success of a pre-dispersal seed predator attacking two confamilial host plants. *Oikos* 74:447-452.
- English-Loeb, G.M., **A.K. Brody** and R. Karban. 1993. Host plant mediated interactions between a generalist folivore and its tachinid parasitoid. *Journal of Animal Ecology* 62:465-471.
- Brody, A.K.** 1992. Oviposition choices by a pre-dispersal seed predator (*Hylemya* sp.). I. Correspondence with hummingbird pollinators, and the role of plant size, density and floral morphology. *Oecologia* 91:56-62.
- Brody, A.K.** 1992. Oviposition choices by a pre-dispersal seed predator (*Hylemya* sp.). II. A positive association between female choice and fruit set. *Oecologia* 91:63-67.
- Brody, A.K.** and R. Karban. 1992. Lack of a tradeoff between constitutive and induced defenses among varieties of cotton. *Oikos* 65:301-306.
- English-Loeb, G., Karban, R. and **A.K. Brody**. 1990. Arctiid larvae survive attack by a tachinid parasitoid and produce viable offspring. *Ecological Entomology* 15:361-362.
- Brody, A.K.**, Karban, R. and W.C. Schnathorst. 1990. Inverse relationship between cotton plant density and verticillium wilt incidence and severity: evidence for an alternative hypothesis. *Crop Protection* 9:174-176.
- Karban, R. **Brody, A.K.** and W.C. Schnathorst. 1989. Crowding and a plant's ability to defend itself against herbivores and diseases. *American Naturalist* 134:749-760.
- Brody, A.K.** and R. Karban. 1989. Demographic analysis of induced resistance against spider mites (Acari: Tetranychidae) in cotton. *Journal of Economic Entomology* 82:462-465.
- Rayor, L.S., **Brody, A.K.** and C. Gilbert. 1987. Hibernation in the Gunnison's prairie dog. *Journal of Mammalogy* 68:147-150.
- Tortorici, C., **Brody, A.K.** and W.J. Bell. 1986. Influence of spatial patterning of resource on search orientation of adult *Drosophila melanogaster*. *Animal Behaviour* 34:1568-1570.
- Brody, A.K.** and K.B. Armitage. 1985. The effects of adult removal on dispersal of yearling yellow-bellied marmots. *Canadian Journal of Zoology* 63:2560-2564.
- Brody, A.K.** and J. Melcher. 1984. Infanticide in yellow-bellied marmots. *Animal Behaviour* 33:673-674.

MANUSCRIPTS IN REVIEW OR IN PREPARATION (AVAILABLE ON REQUEST)

Brody, A.K., P.A. Burnham, and B. Smith. Feeding friend and foe: ample pollen mitigates the effects of pollen theft for *Polemonium foliosissimum* (Polemoniaceae). Submitted to *Annals of Botany*, 17 February 2020.

INVITED SEMINARS and SYMPOSIA

- 2019 Harvard University, Arnold Arboretum, Boston, MA
- 2016 Williams College, Williamstown, MA
- 2015 University of Maine, Orono, ME
- 2014 University of Texas, Austin, TX
- 2013 University of Florida, Gainesville, FL
University of Vermont – Gund Institute, Burlington, VT
- 2011 University of Vermont – Plant Biology, Burlington, VT
- 2009 International Center for Insect Physiology and Ecology, Nairobi, Kenya
University of Vermont – Dean’s Lecturer Award, Burlington, VT
- 2008 International Congress of Entomology, Durban, South Africa
- 2008 Entomological Society of American, Eastern Branch Meeting, Rochester, NY
- 2007 Mpala Research Center, Nanyuki, Kenya
- 2006 Dartmouth College, Dartmouth, NH
- 2005 Association for Tropical Biology and Conservation, Uberlandia, Brazil
- 2004 University of California, Santa Cruz
University of Vermont—Botany Department, Burlington, VT
Rocky Mountain Biological Laboratory
- 2002 University of Montana, Missoula, MT
- 2001 University of California, Davis, Bodega Marine Laboratory
- 2000 Boise State University, Boise, ID
- 1999 Idaho State University, Pocatello, ID
University of Arizona, Tucson, AZ
University of Vermont, Burlington, VT
- 1998 Rocky Mountain Biological Laboratory
- 1997 University of Nebraska, Lincoln, NE
University of California, 10th Annual Bodega Marine Laboratory Colloquium
Sonoma State University, Sonoma, CA
- 1996 Cornell University, Ithaca, NY
University of Kansas, Lawrence, KS
University of Vermont, Burlington, VT
- 1995 Ecological Society of America Symposium
- 1994 Southern Oregon State University, Ashland, O
University of Wisconsin-Oshkosh, WI

PAPERS PRESENTED/ABSTRACTS PUBLISHED

(the first author listed was the presenter)

- Richardson, L.L., **A.K. Brody**, and T.H. Ricketts. 2016. Mycorrhizal Fungi Affect Floral Traits Important to Pollination and Crop Yield. International Congress of Entomology, Orlando, FL.
- Richardson, L.L., S. Alger, **A.K. Brody**, and T.H. Ricketts. 2016. Mycorrhizal Fungi Affect Pollination Mutualisms Between Bees and Crop Plants. USDA National Institute of Food and Agriculture Project Directors' Meeting, Washington, DC.
- Richardson, L.L., S. Alger, **A.K. Brody**, and T.H. Ricketts. 2016. Mycorrhizal Fungi Affect Pollination Mutualisms Between Bees and Crop Plants. International Conference on Pollination Biology, Health, and Policy, Penn State University, State College, PA.
- Nasseri, N. and **A.K. Brody** 2015. Ant-hemipteran mutualism facilitates flower and fruit production of an invasive hardwood, honey mesquite (*Prosopis glandulosa*) in south Texas. Ecological Society of America, Baltimore, MD.
- Brody, A.K.**, G.L. Clarke and J.B. Gonzalez. 2012. Neither floral nor fungal mutualists predict the persistence of females in gynodioecious plants. Ecological Society of America, National Meeting, Portland, OR.
- Clarke, G.L. and **A.K. Brody**. 2012. Effects of pollinators, seed predators, and vertebrate herbivores on female and hermaphrodite sex morphs and demography of the gynodioecious plant, *Polemonium foliosissimum*. Ecological Society of America, National Meeting, Portland, OR.
- Brody, A.K.** 2009. When keystone species collide: combined effects of termites and vertebrate herbivores on *Acacia drepanolobium*. ESA Annual meeting.
- Brody, A.K.** 2008. Species interactions from Colorado to Kenya. Guild of Rocky Mountain Ecologists and Evolutionary Biologists.
- Brody, A.K.** 2007. Is overcompensation an artifact of timing? Guild of Rocky Mountain Ecologists and Evolutionary Biologists.
- Brody, A.K.** 2005. The effects of antagonists on mutualisms. Invited Symposium Speaker. Association for Tropical Biology and Conservation.
- Brody, A.K.** and T.M. Palmer. 2004. The role of termites in biodiversity of East African savannas. ESA Annual Meeting.
- Brody, A.K.**, M.V. Price, N.M. Waser, D.R. Campbell and R.E. Irwin. 2003. The effects of multiple species on individuals, populations and communities: a long-term study of the subalpine plant, *Ipomopsis aggregata*. Rocky Mountain Model Ecosystem Symposium.
- Brody, A.K.**, E.C. Parsons and R.E. Irwin. 2002. Combined effects of nectar robbers and pre-dispersal seed predators on their host plant, *Ipomopsis aggregata*. ESA, Annual Meeting.
- Cariveau, D.P., L. Sevillano Garcia-Mayeya, A. Van der Ohe, **A.K. Brody** and R.E. Irwin. 2002. Female reproductive biology of a facultative root hemiparasite, *Castilleja linariaefolia* Benth. (Scrophulariaceae). ESA, Annual Meeting.
- Irwin, R. E. and **A.K. Brody**. 2001. Nectar-robbing bumblebees reduce pollen flow and geitonogamy in a hummingbird-pollinated plant. ESA Annual Meeting.

- Brody, A.K.**, R.E. Irwin, M.V. Price, N.M. Waser, and D.R.Campbell. 2000. Linking flower visitation to plant population biology, part 2: Population and community consequences of nectar robbing and seed rain. Guild of Rocky Mountain Population Biologists.
- Waser, N.M., M.V. Price, **A.K. Brody** and D.R.Campbell. 2000. Pollination success and plant population size: How strong are the links? ESA Annual Meeting.
- Waser, N.M., M.V. Price, **A.K. Brody** and D.R.Campbell. 2000. Linking flower visitation to plant population biology, part 1: Variation in pollination, nectar robbing and seed set. Guild of Rocky Mountain Population Biologists.
- A.K. Brody** and Albright, H.A. 2000. A positive link between resistance to herbivores and flowering phenology in *Arabidopsis thaliana*. ESA Annual Meeting.
- Brody, A.K.** and Irwin, R.E. 1999. Direct and indirect effects of nectar robbing on hummingbird pollinated plants. ESA Annual Meeting.
- Irwin, R. E. and **A.K. Brody**. 1999. Nectar-robbing bumblebees disrupt a plant-pollinator mutualism. Invited Symposium, ESA Annual Meeting.

PROFESSIONAL ACTIVITIES and SERVICE

DEPARTMENTAL

2002-'05; 2011-'12, 2015-'16, 2017- Current	Director IBS Program
1995-Current	Representative to Visit days and Graduation
2013-2017	Tri-Beta Faculty Advisor
2011-2013	Advisory Council Member
2011-2012	Evolutionary Biologist Search Committee
2010-2011	Neurophysiologist Search Committee
2005-2006	Evolutionary Biologist Search Committee
2002-2003	Director of Undergraduate Research
2002-2003	Molecular Evolutionary Biologist Search Committee
1998–1999	Neurobiologist Search Committee
1995 – 1997	Interdepartmental Committee for the Development of Introductory Biology Curriculum
1995 – 1997	Advisory Council, Elected Member
1995 – 2000	Advisory Committee for AP Biology

COLLEGE OF ARTS AND SCIENCES (multi-year service is noted):

1995 - present	Participant in College Visit Days
2017	Dean's Task Force on Re-envisioning Distribution Requirements
2008 – 2011	Dean's Academic Planning and Budget Committee
2007 – 2008	Faculty Senate, Alternate Departmental Representative, Dean's Fund Committee Member
	Participant in College of Arts and Sciences, Brain Trust

Weekend
1997 – 2001 Elected Member of the College Curriculum Committee
1997-1998 Dean's Mission/Vision Planning Committee
Appointed Member, SUGR and FAME Awards Committee

COLLEGE OF AGRICULTURE AND LIFE SCIENCES:

2013-2014 Department of Botany and Agricultural Biochemistry
Ecological Genomicist Search
2000-2001 Department of Botany and Agricultural Biochemistry
Search Chairperson Search

RUBENSTEIN SCHOOL OF THE ENVIRONMENT AND NATURAL RESOURCES:

2018-2019 Associate Dean, Search Committee

UNIVERSITY

2017 Green & Gold Scholars Reception
2017-Current Gund Institute for Environment, Steering Committee
2016 Dean of CAS, Search Committee
2014-2015 Provost's Committee on design for the Environmental
Institute
2012-2013 Provost's Committee on Envisioning Environment at UVM

Community Service:

Association for Women in Science Participant and Mentor, 1995 - present
Vermont Technical College, Telementor for high school girls, 1998 - 2000

SERVICE TO PROFESSIONAL SOCIETIES

Editorial Board:

2011 - current Functional Ecology,
2012 - current Ecological Applications

2001-2002. **President**, Plant Population Biology Section of the ESA

Elected Member of the Board of Trustees, Rocky Mountain Biological Laboratory,
1992-1997, re-elected 1997-2002, 2010-2015

Mercer Award Committee, Ecological Society of America, 1999-2001

Braun/Buell Judge, Ecological Society of America, 1996 and 1999

NATIONAL SERVICE

2017 NSF DEB, Graduate Research Fellowship Program
2015 NSF Population and Community Processes Panel
2013 NSF Population and Community Processes Panel
2012 NSF Field Station and Marine Labs Infrastructure Panel
2010 NSF Ecological and Evolutionary Processes Panel Fall
2009 NSF-NEON Planning Committee

2001-02, 2004-06, 2008-09 NSF Panel Member, Ecology Program
1996-97 NSF Doctoral Dissertation Improvement Grants Program

Ad Hoc Reviewer (an average of 8-10 manuscripts per year) for the following journals and granting agencies: American Naturalist, Acta Oecologia, Biotropica, Biological Journal of the Linnaean Society, American Journal of Botany, Botany, Ecology, Ecological Entomology, Ecological Monographs, Ecology Letters, EcoScience, Environmental Entomology, Evolution, Evolutionary Ecology, Functional Ecology, Journal of Animal Ecology, Journal of Insect Behavior, Journal of Tropical Ecology, Journal of Arid Systems, Oecologia, Oikos, Plant Ecology, PLoS-One, VEGE, National Science Foundation, USDA

PROFESSIONAL SOCIETY MEMBERSHIPS

American Botanical Society
Ecological Society of America
Sigma Xi
Rocky Mountain Biological Laboratory

GRADUATE STUDENTS (degree, date of completion or expected date of completion) and thesis topic or title:

Jessica Cole (Ph.D. 2023); Thesis title TBD
Phillip Alex Burnham (Ph.D. 2021); Effects of pathogens and parasites on bumble bee foraging behavior and disease prevalence.
Erin O'Neill (M.S. 2020); Effects of ericoids on bud and flower development in highbush blueberry.
Emily Mikucki (Ph.D. 2020); Thermal physiology across continents: the evolution of responses to thermal variability in the invasive cabbage white butterfly.
Samantha Alger (Ph.D. 2018); Effects of RNA viruses on native bumble bees
Nabil Nasser (Ph.D. 2018); Effects of multiple invasive species on the life-history of their invasive host.
Jon Gonzalez (Master's 2014); Effects of mycorrhizae on tolerance to herbivory in grasses and herbaceous plants.
Gretel Clarke (Ph.D. 2013); Biotic and abiotic effects on sex-ratios for a gynodioecious plant.
Renee Petipas (M.S., 2010); Effects of mycorrhizae on grass distribution across a nutrient gradient in East Africa.
Laura Hill (Ph.D., 2008); Causes and consequences of rarity for an endangered plant, *Polemonium vibruntiae*.
Heidi Albright (M.S., 2001); Patterns of ecotypical resistance to herbivores and their relationship to life history traits in *Arabidopsis thaliana*.
Amy L. Seidl (Ph.D., 2001); The relationship between host preference and larval performance for the purple bog fritillary, *Boloria titania*.
Rebecca E. Irwin (Ph.D., 2000); The direct and indirect effects of a nectar robbing bumblebee, *Bombus occidentalis* on plant fitness for a hummingbird-pollinated plant, *Ipomopsis aggregata*.

GRADUATE STUDENT COMMITTEES (year degree completed or expected)

Kristian Omland (M.S. 1996); Amy Arnett (Ph.D., 1998); Zoe Richards (M.S., 1999); Declan McCabe (Ph.D., 2001); Shannon Morrison (M.S., 1998); John Carney (M.S., 1998); Temeika Fairley (Ph.D., 2000); Jerald Johnson (Ph.D., 2000); Cynthia Reigel (M.S., 2000); Emily Sprong (M.S., 2000); David Onyabe (Ph.D., 2001); Amy Wakefield (M.S., 2003); Justin Kiger (Ph.D., 2003); Steve Hudman (Ph.D., 2004); Paul Hapeman (Ph.D., 2005); Leslie Noa (M.S. 2005); Trevor Manendo (M.S., 2007); Lisa Osborn (Ph.D., 2007); Kate Farrell (M.S., 2007); William Scott Schwenk (Ph.D., 2007); Jens Stevens (M.S. 2007); Tom Tucker (M.S. 2008); Robin Collins (Ph.D. 2008); Sarah Wittman (Ph.D., 2008); Laura Farrell (Ph.D., 2010); Ted Hart (Ph.D., 2010); Kate Fournier (M.S., 2011); Cathy Bell (M.S. 2011); Luc Bernacki (Ph.D., 2012); Lily Calderwood (Ph.D. 2013); Victor Izzo (Ph.D., 2014); Michael Hermann (Ph.D. 2016); Allyson Degrassi (Ph.D. 2016); Jessica Griffin (2016); Chase Stratton (Ph.D. 2018); Lauren Ash (Ph.D. 2020); Jorge Ruiz-Arocho (Ph.D. 2020); Lindsey Pett (Ph.D. 2021).

GRADUATE STUDENT'S FOR WHOM I SERVED AS AN OUTSIDE-COMMITTEE MEMBER:

Dan Cariveau, Colorado State University, Ph.D. 2008
Kari Segraves, Vanderbilt University, Ph.D. 2003

UNDERGRADUATE HONORS THESIS ADVISOR:

Heidi Albright; Angela Dunkling; Jordan Armstrong; Haya Alshaabi; Yara Alshaabi; Owen Molind; Sophie Kogut; Gretchen Saveson, Joanna Santoro, Laney Williams

UNDERGRADUATE HONORS THESIS COMMITTEE MEMBER:

Daniel Amato; Christine SanAntonio; Amanda George; Rebecca Irwin; Allison Neale; Amy Wakefield; Scott Williamson; Melitta Schmeckpeper