Luis A. Abdala-Roberts

Universidad Autónoma de Yucatán
Departamento de Ecología Tropical
52 (999)-942-3206; abdala.luis@yahoo.com
Webpage: http://luisabdalaroberts-tritrophic.weebly.com/

Education

2010-14 Doctoral research, Ecology and Evolutionary Biology, University of California, Irvine. Advisor: Kailen A. Mooney.
2003-05 M. S. University of Missouri-St. Louis. Advisor: Robert J. Marquis.
1998-03 B. S. Universidad Autónoma de Yucatán.

Research and teaching appointments

2015- Associate Professor, Department of Ecology, University of Yucatán (Mexico)
2009-10 Coordinator in Yucatan (Mexico) of the project "Is Biodiversity Self-Limiting? Pollination of endemic species in hyperdiverse plant communities" (Project PI: Ma. Conchita Alonso; Estación Biológica de Doñana, Seville, Spain).
2006 -10 Collaborator in the project "Ecología evolutiva de respuestas correlacionadas y plasticidad fenotípica en interacciones herbívoro-planta-polinizador en *Ruellia nudiflora*" (CONACyT; Project PI: Víctor Parra-Tabla, UADY, Mexico).
2007-09 Lecturer, Departamento de Ecologia Tropical. Universidad Autónoma de Yucatán, México.
2006-07 Field technician, Departamento de Ecología Tropical. Universidad Autónoma de Yucatán
2006 Visiting researcher in charge of data collection and processing for project: "Mammal photo-trapping at Jasper Ridge Biological Preserve (Project PI: Rodolfo Dirzo, Stanford University, USA).
2004 Graduate research assistant for the project "The contribution of phylogeny and latitude to leaf traits in broad-leaved trees that influence insect herbivore attack (Project PI: Robert J. Marquis, Univ. Missouri-St. Louis, USA).

Awards and recognitions

2022-26 Member of the Sistema Nacional de Investigadores. Level III.
2018-21 Member of the Sistema Nacional de Investigadores. Level II.
2015 CONACyT Repatriation Fellow.
2014-17 Member of the Sistema Nacional de Investigadores (Mexico). Level 1 (renewal).
2010-15 CONACYT-UCMEXUS Ph.D. scholarship (University of California-Irvine).
2013-14 GAANN (Graduate Assistance in Areas of National Need) Fellowship through the University of California-Irvine.
2013 Dr. William F. Holcomb Scholarship (University of California-Irvine)
2013 Carl Storm Underrepresented Minority Fellowship to attend 2013 Gordon Conference on Plant-Herbivore Interactions.
2012-13 GAANN (Graduate Assistance in Areas of National Need) Fellowship through the University of California-Irvine.
2011-13 Member of the Sistema Nacional de Investigadores (Mexico). Level 1.
2011-12 GAANN (Graduate Assistance in Areas of National Need) Fellowship through the University of California-Irvine.
2004 Scholarship provided by LASPAU for M. Sc. Studies (via the University of Missouri, USA).
2002-03 Scholarship for undergraduate thesis project from CONACyT.
2002 Scholarship for the "First Research Summer of the Yucatan Peninsula" (UADY).

Publications

(† = peer-reviewed articles [115]; †† = refereed book chapters [7]; †††edited book [1])
*(supervised co-authors: *undergraduate student; **graduate student; ¥postdoc)*

123† Quijano-Medina, T.**, Briones-May, Y., Solís-Rodríguez, U., Mamin, M., Clancy, M., Ye, W., Bustos-Segura, C., Turlings, T. C. J., Moreira, X., and Abdala-Roberts, L. 2024. Soil salinization effects on volatile signals that mediate the induction of chemical defences in wild cotton. *Arthropod-Plant Interactions*. In press.

122† Vázquez-González, C., Castagneyrol, B., Barbaro, L., Muiruri, E., Abdala-Roberts, L., et al. 2024. Tree diversity enhances predation by birds but not by arthropods across forest biomes. *Ecology Letters*. In press.

121† Quiroga, G., Castagneyrol, B., Abdala-Roberts, L., and Moreira, X. 2024. A meta-analysis of the effects of climate-change related abiotic factors on aboveground and belowground plant-associated microbes. *Oikos*. In press.

120† Vázquez-González, C., Reyes-Hernández, M., Villa-Galaviz, E., Pérez-Niño, B., Quijano-Medina, T., Parra-Tabla, V., Mooney, K. A., and Abdala-Roberts, L. 2024. Temporal variation in tree diversity effects on insectivorous birds and its implications for top-down pressure in a tropical system. *Oecologia* 204: 603-612.

119† Moreira, X. and Abdala-Roberts, L. 2024. Ecological and evolutionary links between plant defences and life history traits. In: *Life History Evolution: Traits, Interactions, and Applications*, eds. Segoli, M., Wajnberg, E. Springer. In press.

118† Depauw, L., De Lombaerde, E., Dhiedt, E., Blondeel, H., Abdala-Roberts, L. et al. 2024. Enhancing tree performance through species mixing: a review of quarter-century TreeDivNet experiments revealing research gaps and practical insights. *Current Forestry Reports* 10: 1-10

117† Dean, L., Vázquez-González, C., Hellwitz, S., Abdala-Roberts, L., and Mooney, K. A. Decomposing elevational gradients in predation by insectivorous birds. *Ecosphere* 15: e4790.

116†† Abdala-Roberts, L. and Moreira, X. 2024. Introduction: ecology and evolution of plant-herbivore interactions on islands. In: *Ecology and Evolution of Plant-Herbivore Interactions on Islands*, eds. Moreira, X., Abdala-Roberts, L. Springer.

115†† Moreira, X., Vázquez-González, C., Lago-Núñez, B., and Abdala-Roberts, L. 2024. Island features and abiotic factors as drivers of insect leaf herbivory on islands. In: *Ecology and Evolution of Plant-Herbivore Interactions on Islands*, eds. Moreira, X., Abdala-Roberts, L. Springer.

114††† Moreira, X. and Abdala-Roberts, L. (eds.). 2024. *Ecology and Evolution of Plant-Herbivore Interactions on Islands*. Springer.

113† Moreira, X., Abdala-Roberts, L., Gols, R., Lago-Núñez, B., Rasmann, S., Röder, G., Soengas, P., Vázquez-González, C., and Cartea, M. E. 2024. Leaf herbivores but not pathogens drive floral volatile-mediated indirect effects on plant-pollinator interactions and plant fitness in *Brassica rapa*. *Journal of Ecology* 112: 402-415.

112† Moreira, X., Abdala-Roberts, L., Lago-Núñez, Cao, A., De Pauw, K., De Ro, A., Gasperini, C., Hedwall, P., Iacopetti, G., Lenoir, J., Meeussen, C., Plue, J., Sanczuk, P., Selvi, F., Spicher, F., Vanden Broek, A., and De Frenne, P. 2024. Effects of forest experimental microhabitat warming on oak leaf defences and insect herbivory across a contrasting environmental gradient. *Oikos* 2024: e10353.

111† Martín-Cacheda, L.**, Vázquez-González, C., Rasmann, S., Röder, G., Abdala-Roberts, L., and Moreira, X. 2024. Volatile-mediated signalling between potato plants in response to insect herbivory is not contingent on soil nutrients. *Journal of Chemical Ecology*. 49: 507-517.

110† Robinson, M. L., Hahn, P. G., Inouye, B. D., Underwood, N., Whitehead, S. R., Abbott, K. C., Bruna, E. M., Cacho, N. I., Dyer, L. A., Abdala-Roberts, L. et al. 2023. Plant size, latitude, and phylogeny explain variability in global herbivory. *Science* 382: 679-683.

109† Quiroga, G., Aguiño-Domínguez, N., Piperakis, N., Martín-Cacheda, L., Abdala-Roberts, L., and Moreira, X. 2023. Variation in plant-mediated interactions between pathogens on potato: Effects of initial infections on conspecific vs. heterospecific subsequent infections. *Journal of Chemical Ecology* 49: 465-473.

108† Quijano-Medina, T.**, Interian-Aguiñaga, J., Solís-Rodríguez, U., Mamin, M., Clancy, M., Ye, W., Bustos-Segura, C., Francisco, M., Ramos-Zapata, J. A., Turlings, T. C. J., Moreira, X., and Abdala-Roberts, L. 2023. Aphid and caterpillar feeding drive similar patterns of induced defences and resistance to subsequent herbivory in wild cotton. *Planta* 258: 113.

107†Abdala-Roberts, L., Pérez-Niño, B., Vázquez-González, C., Cristobal-Alejo, J., Reyes-Novelo, E., and Moreira, X. 2023. Effects of tree diversity and seedling density on insect herbivory and pathogen infection on seedlings of big-leaf mahogany, *Swietenia macrophylla*. *Oikos* 2023: e10093.

106† Abdala-Roberts, L., Berny-Mier y Terán, J., Vázquez-González, C., Reyes-Novelo, E., Mooney, K., and Moreira, X. 2023. Effects of conspecific seedling density and heterospecific frequency on insect herbivory in a tropical dry forest. *Agricultural and Forest Entomology* 25: 549-557.

105† Chappuis, L., Egger, A., Röeder, G., Glauser, G., Jaffuel, G., Benrey, B., Abdala-Roberts, L., Clancy, M., Turlings, T. C. J., and Bustos-Segura, C. 2023. Effects of experimental growth conditions on the chemical defences of two cotton species, *Gossypium hirsutum* and *G. herbaceum*. *Journal of Chemical Ecology* 49: 340-352.

104† Briones-May, Y.*, Quijano-Medina, T., Pérez-Niño, B., Benrey, B., Turlings, T. C. J., Bustos-Segura, C., and Abdala-Roberts, L. 2023. Soil salinization disrupts plant-plant signalling effects on extra-floral nectar induction in wild cotton. *Oecologia* 202: 313-323.

103† Martín-Chacheda, L.**, Vázquez-González, C., Rasmann, S., Röder, G., Abdala-Roberts, L., and Moreira, X. 2023. Plant genetic relatedness and volatile-mediated signalling between potato plants in response to insect herbivory. *Phytochemistry* 206: 113561.

102† Vázquez-González, C., Quiroga, V., Martín-Cacheda, L., Rasmann, S., Röder, G., Abdala-Roberts, L., and Moreira, X. 2023. Effect of herbivore density on VOC-mediated communication between potato plants. *Planta*. 257: 42.

101† Moreira, X. and Abdala-Roberts, L. 2023. Linking herbivory and ecosystem services in urban forests. *Trends in Plant Science* 28: 139: 141.

100† Clancy, M. V., Mamine, M., Flückinger, G., Quijano-Medina, T., Pérez-Niño, B., Abdala-Roberts, L., Turlings, T. C. J., and Bustos-Segura, C. 2023. Terpene chemotypes in wild cotton (*Gossypium hirsutum*) from the Yucatan Peninsula. *Phytochemistry* 205: 113454.

99† Vázquez-González, C., Pombo, L., Martín-Cacheda, L., Rassman, S., Röder, G., Abdala-Roberts, L., Mooney, K., and Moreira, X. 2022. Effect of water availability on communication between potato plants in response to herbivory. *Functional Ecology* 36: 2763-2773.

98† Interián-Aguiñaga**, J., Parra-Tabla, V., and Abdala-Roberts, L. 2022. Effects of tropical tree diversity and prey distribution on predation by birds and arthropods. *Arthropod-Plant Interactions* 16: 449-457.

97† Villa-Galaviz, E. ¥, Quinto, J., Abdala-Roberts, L., and Parra-Tabla, V. 2022. Neighboring plants and core herbivores determine the importance of *Swietenia macrophylla* in a plant-herbivore network. *Arthropod-Plant Interactions* 16: 387-399.

96† Abdala-Roberts, L., Vázquez-González, C., Rasmann, S., and Moreira, X. 2022. Test of communication between potato plants in response to herbivory by the Colorado potato beetle. *Agricultural and Forest Entomology* 24: 212-218

95† Moreira, X. and Abdala-Roberts, L. 2022. A roadmap for insularity effects on plant-herbivore interactions. *Global Ecology and Biogeography* 31: 602-610.

94† Moreira, X., Abdala-Roberts, L., Castagneyrol, B., Caujapé-Castells, J., Cruz-Guedes, J., Lago-Núñez, B., Vicens-Fornés, M., and García-Verdugo, C. 2022. A phylogenetically controlled test does

not support prediction of lower putative anti-herbivore leaf traits for insular woody species. *Journal of Biogeography* 49: 274-285.

93† Reyes-Hernández, M.¥, Quijano-Medina, T.**, Angulo-Pérez, D., Moreira, X., Parra-Tabla, V., and Abdala-Roberts, L. 2022. Experimental test of ant effects on insect herbivory and pathogen infection on wild cotton (*Gossypium hirsutum*). *Arthropod-Plant Interactions* 16: 77-86.

92† van Dijk, L. J. A., Moreira, X., Barr, A. E., Abdala-Roberts, L., et al. 2022. Urbanization effects on oak-pathogen interactions at multiple spatial scales. *Ecography* 2022: e06091.

91† Moreira, X., Vázquez-González, C., and Abdala-Roberts, L. 2021. Proximate drivers of population inter-annual variation in seed output in a masting conifer species. *Forest Ecology and Management* 492: 119562.

90† Quinto, C. J., Martínez-Falcón, A. P., Murillo-Pacheco, J., Abdala-Roberts, L., and Parra-Tabla, V. 2021. Diversity patterns of tropical epigeal beetle assemblages associated with monoculture and polyculture plantations with big-leaf mahogany. *Neotropical Entomology* 50: 551-561.

89† Moreira, X., Pérez-Ramos, I., Matías, L., Francisco, M., Vázquez-González, C., Abdala-Roberts, L., and Cambrolle, J. 2021. Effects of soil abiotic factors and seed chemical defences on seed predation by specialist caterpillars on sea fennel (*Crithmum maritimum*). *Plant and Soil* 465: 289-300.

88† Moreira, X., Abdala-Roberts, L., Granjel, R.R., Pasch, V., Soengas, P., Vázquez-González, C., Turlings, T.C.J., and Rasmann, S. 2021. Test of communication between potato plants in response to infection by a pathogenic fungus and its chemical and molecular correlates. *Plant, Cell and Environment* 44: 1192-1201.

87† Galmán, A., Abdala-Roberts, L., Wartalska, P., Covelo, F., Röder, G., Szenteczki, M., Moreira, X., and Rasmann, S. 2021. Elevational gradients in constitutive and induced oak defences using individual traits and their correlated expression patterns. *Oikos* 130: 396-407.

86† Moreira, X., Castagneyrol, B., García-Verdugo, C., and Abdala-Roberts, L. 2021. A meta-analysis of insularity on plant-herbivore interactions. *Journal of Biogeography* 48:386-393.

85† Moreira, X., Abdala-Roberts, L., De Frenne, P., Galmán, A., Gaytán, A., Jaatinen, R., Lago-Núñez, B., Meeussen, C., Pulkkinen, P., Rasmussen, P. U., ten Hoopen, P. J., Timmermans, B. G., Vázquez-González, C., Castagneyrol, B., and Tack, A. J. 2021. Effects of latitude and conspecific plant density on insect leaf herbivory in oak saplings and seedlings. *American Journal of Botany* 108:172-176.

84† Quijano-Medina, T.**, Moreira, X., Turlings, T.C.J., Sosenski, P., Grandi, L., Cervera, J.C., and Abdala-Roberts, L. 2021. Effects of salinity on the expression of direct and indirect defences in wild cotton *Gossypium hirsutum*. *Journal of Ecology* 109:354-368.

83† Moreira, X., Abdala-Roberts, L., Hidalgo-Galvez, M. D., Vázquez-González, C., and Pérez-Ramos, I. M. 2020. Microclimatic effects on plant phenolics at the community level in a Mediterranean savannah. *Scientific Reports* 10:14757.

82† Moreira, X., Abdala-Roberts, L., Galmán, A., Bartlow, A.W. Carrari, E., Covelo, F., de la Fuente, M., Ferrenberg, S., Fyllas, N.M., Hoshika, Y., Marquis, R.J., Nakamura, M., Nell, C.S., Pesendorfer, M.B., Steele, M.A., Vázquez-González, C., Zhang, S., and Rasmann, S. 2020. Ontogenetic consistency in oak defense syndromes. *Journal of Ecology* 108:1822-1834.

81†† Carmona, D., Moreira, X., and Abdala-Roberts, L. 2020. Latitudinal and elevational gradients in plant defences and herbivory in temperate trees: recent findings, underlying factors, and an evolutionary perspective using genomic tools. In: Plant-herbivore Interactions, eds. Núñez-Farfán, J., Valverde, P. Springer.

80†† Moreira, X. and Abdala-Roberts, L. 2020. Sources of variation in defensive traits in *Quercus* species: insights gained from research spanning individuals to communities and local- to broad-scale factors. In: Plant defence: Biological control, eds. Mérillon, J.M., Ramawat, K.G. Second edition. Springer.

79† May-Uc, Y.**, Nell, C., Parra-Tabla, V., Navarro, J., and Abdala-Roberts, L. 2020. Tree diversity effects through a temporal lens: implications for the abundance, diversity, and stability of foraging birds. *Journal of Animal Ecology* 89:1775-1787.

78† Moreira, X., Abdala-Roberts, L., Bruun, H. H., Covelo, F., De Frenne, P., Galmán, A., Gaytán, A., Jaatinen, R., Pulkkinen, P., Timmermans, B.G.H., Tack, A.J.M., and Castagneyrol, B. 2020. Latitudinal variation in seed predation correlates with latitudinal variation in seed defensive and nutritional traits in a widespread oak species. *Annals of Botany* 125:881-890.

77† Galmán, A., Abdala-Roberts, L., Covelo, F., Rasmann, S., and Moreira, X. 2019. Parallel increases in insect leaf herbivory with elevation for both saplings and adult trees of oak (*Quercus*) species. *American Journal of Botany* 106:1558-1565.

76† Moreira, X., Romero-Pérez, A., Luna-Chaparro, E., Orona-Tamayo, D., Quintana-Rodríguez, R., Abdala-Roberts, L., Cano-Santana, Z., and Hernández-Cumplido, J. 2019. Effects of plant sex on insect abundance across three trophic levels in the perennial shrub *Buddleja cordata*. *Entomologia Experimentalis et Applicata* 167:950-956.

75† Abdala-Roberts, L., Puentes, A., Mooney, K., Björkman, C., van Dam, N. M., Finke, D., Marquis, R., Montserrat-Larrosa, M., Poelman, E., Sentis, A., Rasmann, S., and Wimp, G. 2019. Tri-trophic interactions: bridging species, communities, and ecosystems. *Ecology Letters* 22: 2151-2167.

74† Abdala-Roberts, L., Quijano-Medina, T.**, Reyes-Hernández, M., Moreira, X., Francisco, M., Angulo-Pérez, D., Parra-Tabla, V., Virgen, A., and Rojas, J. C. 2019. Effects of amount and recurrence of herbivory on the induction of direct and indirect defences in wild cotton. *Plant Biology* 21:1063-1071.

73† Moreira, X., Abdala-Roberts, L., Nell, C. S., Vázquez-González, C., Pratt, J. D., and Mooney, K. A. 2019. Sexual dimorphism and genotypic variation in terpene quantitative and qualitative profiles in the dioecious shrub *Baccharis salicifolia*. *Scientific Reports* 9:14655.

72† Abdala-Roberts, L., Quijano-Medina, T.**, Moreira, X., Vázquez-González, C., Parra-Tabla, V., Berny-Mier y Terán, J. C., Grandi, L., Glauser, G., Turlings, T. C. J., and Benrey, B. 2019. Bottom-up control of geographic variation in insect herbivory on wild cotton (*Gossypium hirsutum*) by plant defenses and climate. *American Journal of Botany* 109:1059-1067.

71† Moreira, X., Vázquez-González, C., Encinas-Valero, M., Covelo, F., Castagneyrol, B., and Abdala-Roberts, L. 2019. Phylogenetic distance to native oaks predicts escape from insect leaf herbivores in saplings of non-native oak species. *American Journal of Botany* 106:1202-1209.

70† Quijano-Medina, T.**, Covelo, F., Moreira, X., and Abdala-Roberts L. 2019. Tolerance to leaf herbivory in wild cotton (*Gossypium hirsutum*): responses to multiple levels of damage and associated mechanisms. *Plant Biology* 21:805-812.

69† Moreira, X., Castagneyrol, B., Abdala-Roberts, L., and Traveset, A. 2019. A meta-analysis of herbivore effects on plant attractiveness to pollinators. *Ecology* 100:e02707.

68† Galmán, A., Petry, W. K., Abdala-Roberts, L., Butrón, A., de la Fuente, M., Francisco, M., Kergunteuil, A., Rasmann, S., and Moreira, X. 2019. Inducibility of chemical defences in young oak trees is stronger at high elevations. *Tree Physiology* 39:606-614.

67† Moreira, X., Castagneyrol, B., de la Mata, R., Fyllas, N. M., Galmán, A, García-Verdugo, C., Rodríguez Larrinaga, A., and Abdala-Roberts, L. 2019. Effects of insularity on insect leaf herbivory and chemical defences in holm oak. *Journal of Biogeography* 46:1226-1233.

66† Moreira, X., Abdala-Roberts, L., Pérez-Ramos, I. M., Knops, J. M. H., Pesendorfer, M. B., Koenig, W. D., and Mooney, K. A. 2019. Weather cues associated with masting behavior dampen the negative autocorrelation between past and current reproduction in oaks. *American Journal of Botany*. 106:51-60.

65† Abdala-Roberts, L., Pérez Niño, B., Moreira, X., Parra-Tabla, V., Grandi, L., Glauser, G., Benrey, B., and Turlings, T. 2019. Effects of early-season insect herbivory on subsequent pathogen infection and ant abundance on wild cotton. *Journal of Ecology* 107:1518-1529.

64† Moreira, X., Abdala-Roberts, L., Berny Mier y Teran, J. C., Covelo, F., de la Mata, R., Francisco, M., Hardwick, B., Matheus Pires, R., Roslin, T., Schigel, D. S., ten Hoopen, J. P., Timmermans, B. G., van Dijk, L. J., Castagneyrol, B., and Tack, A. J. 2019. Impacts of urbanization on insect herbivory and plant defences in oak trees. *Oikos* 128:113-123.

63† Moreira, X. and Abdala-Roberts, L. 2019. Specificity and context-dependency of plant-plant communication in response to insect herbivory. *Current Opinion in Insect Science* 35: 15-21.

62† Moreira, X., Galmán, A., Francisco, M., Castagneyrol, B., and Abdala-Roberts L. 2018. Host plant frequency and secondary metabolites are concurrently associated with insect herbivory in a dominant riparian tree. *Biology Letters* 14: 20180281.

61† Nell, C., Abdala-Roberts, L., Parra-Tabla, V., and Mooney, K. 2018. Tropical tree diversity mediates foraging and predatory effects of insectivorous birds. *Proceedings of the Royal Society B* 285: 20181842.

60† Moreira, X., Abdala-Roberts, L., and Castagneyrol, B. 2018. Interactions between plant defence signalling pathways: Evidence from bioassays with insect herbivores and plant pathogens. *Journal of Ecology* 106:2353-2364.

59† Rosado-Sánchez, S.**, Parra-Tabla, V., Betancur-Ancona, D., Moreira, X., and Abdala-Roberts L. 2018. Effects of tree species diversity on insect herbivory and leaf defenses in *Cordia dodecandra*. *Ecological Entomology* 43:703-711.

58† Abdala-Roberts, L., Galmán, A., Petry, W. K., Covelo, F., de la Fuente, M., Glauser, G., and Moreira, X. 2018. Interspecific variation in plant functional and defensive traits in oak species and its underlying climatic drivers. *PLoS ONE* 13: e0202548.

57† Moreira, X., Abdala-Roberts, L., Gols, R., and Francisco, M. 2018. Plant domestication decreases both constitutive and induced chemical defences in cabbage (*Brassica oleracea*). *Scientific Reports* 8:12678.

56† Moreira, L., Petry, W., Mooney, K., Rassman, S., and Abdala-Roberts, L. 2018. Elevational gradients in plant defense and herbivory: recent advances in the field and prospects for future research. *Ecography* 41:1485-1496.

55† Moreira, X., Castagneyrol, B., Abdala-Roberts, L., Berny-Mier y Terán, J. C., Timmermans, B. G., Bruun, H. H., Covelo, F., Glauser, G., Rasmann, S., and Tack, A. J. 2018. Latitudinal variation in plant chemical defences drives latitudinal patterns of leaf herbivory. *Ecography*. 41:1124-1134.

54† Moreira, X., Abdala-Roberts, L., Galmán, A., Francisco, M., de la Fuente, M., Butron, A., and Rasmann, S. 2018. Assessing the influence of biogeographical origin and phylogenetics on chemical defences and herbivory in *Quercus* species. *Phytochemistry* 153:64-73.

53† Paquette, A., Hector, A., Castegneyrol, B., Vanhellemont, M., Koricheva, J., Scherer-Lorenzen, M., Verheyen, K., Abdala-Roberts, L., et al. 2018. A million and more trees for science. *Nature Ecology and Evolution* 2: 763-766.

52† Mejía-Alva, B., Abdala-Roberts, L., Ramos-Zapata, J., and Parra-Tabla, V. 2018. Effects of arbuscular mycorrhizal fungi on aboveground tri-trophic interactions are contingent upon plant genetic effects of cross type in the perennial herb *Ruellia nudiflora*. *Journal of Ecology* 106:1133-1141.

51† Rosado-Sánchez, S.**, Parra-Tabla, V., Betancur-Ancona, D., Moreira, X., and Abdala-Roberts, L. 2018. Tree species diversity alters plant defense investment in an experimental forest plantation in southern Mexico. *Biotropica* 50:246-253.

50† Abdala-Roberts, L., Covelo, F., Parra-Tabla, V, Berny-Mier y Terán, J., Mooney, K. A., and Moreira, X. 2018. Intra-specific latitudinal variation in leaf nutrients and its underlying abiotic correlates in *Ruellia nudiflora*. *Scientific Reports* 8:596.

49† Galmán, A., Abdala-Roberts, L., Zhang, S, Berny-Mier y Terán, J. C., Rasmann, S., and Moreira, X. 2018. A global analysis of elevational gradients in leaf herbivory and its underlying drivers: effects of plant growth form, leaf habit, and climatic correlates. *Journal of Ecology* 106:413-421.

48†† Parra-Tabla, V., Téllez-Quiñones, P., Celaya, N., Abdala-Roberts, L., Salinas-Peba, L., and Alonso, C. 2017. Fenología de floración y visitantes florales de especies herbáceas. Pp. 104-121. In: Ecología y Funcionalidad de la Reserva Ecológica de Ría Lagartos, eds. Ramos, J., et al. UNAM-UADY.

47† Alonso, C., Arceo-Gómez, G., Meindl, G. A., Abdala-Roberts, L., Parra-Tabla, V., and Ashman, T-L. 2017. Delimiting plant diversity that is functionally related via interactions with diurnal pollinators: an expanded use of rarefaction curves. *Flora* 232: 56-62.

46† Esquivel-Gómez, L., Abdala-Roberts, L., Pinkus-Rendón, M., and Parra-Tabla, V. 2017. Variation in web-building spider communities among three tropical tree species in a young experimental plantation. *Journal of Arachnology* 45: 139-142.

45† Abdala-Roberts, L., Pratt, R., Pratt, J., and Mooney, K. 2017. Traits underlying community consequences of plant intra-specific diversity. *PLoS ONE* 12: e0183493.

44† Moreira, X., Pérez-Ramos, I., Abdala-Roberts, L., and Mooney, K. A. 2017. Functional responses of contrasting seed predator guilds to masting in two Mediterranean oak species. *Oikos* 126: 1042-1050.

43† Moreira, X., Glauser, G., and Abdala-Roberts, L. 2017. Interactive effects of plant neighbourhood and ontogeny on insect herbivory and plant defensive traits. *Scientific Reports* 7: 4047.

42† Abdala-Roberts, L., Parra-Tabla, V., Moreira, X., and Ramos-Zapata, J. 2017. Ecological and evolutionary consequences of tri-trophic interactions: spatial variation and effects of plant density. *American Journal of Botany* 104:241-251.

41† Esquivel-Gómez, L.*, Abdala-Roberts, L., Pinkus-Rendón, M., and Parra-Tabla, V. 2017. Effects of tree species diversity on a community of weaver spiders in a tropical forest plantation. *Biotropica*. 49:63-70.

40† Abdala-Roberts, L., Rasmann, S., Berny-Mier y Terán, J. C., Covelo, F., Glauser, G., and Moreira, X. 2016. Biotic and abiotic factors associated with altitudinal variation in plant traits and herbiory in a dominant oak species. *American Journal of Botany* 103: 2070-2078.

39† Abdala-Roberts, L., Hernández-Cumplido, J., Chel-Guerrero, L., Betancur-Ancona, D., Benrey, B., and Moreira, X. 2016. Effects of plant intra-specific genetic diversity across three trophic levels: underlying mechanisms and plant traits. *American Journal of Botany* 103:1810-1818.

38† Moreira, X., Abdala-Roberts, L., Zas, R., Merlo, E., Lombardero, M. J., Sampedro, L., and Mooney, K. A. 2016. Masting behavior in a Mediterranean pine tree alters seed predator selection on reproductive output. *Plant Biology* 18:973-980.

37† Arceo-Gómez, G., Abdala-Roberts, L., Jankowiak, A., Kohler, C., Meindl, G., Navarro-Fernández, C., Parra-Tabla, V., Ashman, T-L., and Alonso, C. 2016. Patterns of among- and within-species variation in heterospecific pollen receipt: the importance of ecological generalization. *American Journal of Botany* 103:1-12.

36† Arceo-Gómez, G., Alonso, C., Abdala-Roberts, L., and Parra-Tabla, V. 2016. Patterns and sources of spatial variation in pollen limitation in the endemic monoecious shrub *Cnidoscolus souzae* (Euphorbiaceae). *Plant Biology*18:594-600.

35† Abdala-Roberts, L., Pratt, J., Pratt, R., Schreck, T. K., Hannah, V., and Mooney, K. A. 2016. Multi-trophic consequences of plant genetic variation in sex and growth. *Ecology* 97:743-753.

34† Abdala-Roberts, L., Moreira, X., Rasmann, S., Parra-Tabla, V., and Mooney, K. A. 2016. Test of biotic and abiotic factors underlying latitudinal variation in plant defenses. *Journal of Ecology* 104:580-590.

33† Moreira, X., Abdala-Roberts, L., Rasmann, S., Castagneyrol, B., and Mooney, K. A. 2016. Plant diversity effects on insect herbivores and their natural enemies: current thinking, recent findings, and future directions. *Current Opinion in Insect Science* 14:1-7.

32† Abdala-Roberts, L., González-Moreno, A., Mooney, K. A., Moreira, X., González-Hernández, A., and Parra-Tabla, V. 2016. Effects of tree species and genotypic diversity on leafminer-parasitoid interactions. *Agricultural and Forest Entomology* 18:43-51.

31† Abdala-Roberts, L., Berny-Mier y Terán, J. C., Moreira, X., Durán-Yáñez, A., and Tut-Pech, F. 2015. Effects of pepper (*Capsicum chinense*) genotypic diversity on insect herbivores. *Agricultural and Forest Entomology* 17:433-438.

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28† Campos-Navarrete, M. J., Munguía-Rosas, M., Abdala-Roberts, L., Quinto-Cánovas, J., and Parra-Tabla, V. 2015. Effects of tree genotypic and species diversity on the arthropod community associated with big-leaf mahogany. *Biotropica* 47:579-587.

27† Moreira, X., Abdala-Roberts, L., Linhart, Y. B., and Mooney, K. A. 2015. Effects of climate on reproductive investment in a masting species: assessment of climatic predictors and underlying mechanisms. *Journal of Ecology* 103:1317-1324.

26† Campos-Navarrete, M. J., Abdala-Roberts, L., Munguía-Rosas, M., and Parra-Tabla, V. 2015. Are tree species diversity and genotypic diversity effects on insect herbivores mediated by ants? *PLoS ONE* 10: e0132671.

25† Abdala-Roberts, L., Mooney, K., Quijano-Medina, T., Campos-Navarrete, M. J., González-Moreno, A., and Parra-Tabla, V. 2015. Comparison of tree genotypic diversity and species diversity effects on different guilds of insect herbivores. *Oikos* 124:1527-1535.

24† Moreira, X., Abdala-Roberts, L., Parra-Tabla, V., and Mooney, K. A. 2015. Latitudinal variation in herbivory: Influences of climatic drivers, herbivore identity, and natural enemies. *Oikos* 124:1444-1452.

23†† Abdala-Roberts, L. and Mooney, K. A. 2015. *Plant and Herbivore Evolution within the Trophic Sandwich.* Pp. 340-364. In: Trophic Interactions: Bottom-up and Top-down Interactions in Aquatic and Terrestrial Ecosystems, eds. Hanley, T., La Pierre, K. Cambridge University Press.

22† Abdala-Roberts, L. and Mooney, K. A. 2014. Ecological and evolutionary consequences of plant genotype diversity in a tri-trophic system. *Ecology* 95:2879-2893.

21† Abdala-Roberts, L., Moreira, X., Cervera, J. C., and Parra-Tabla, V. 2014. Light availability influences growth-defense trade-offs in big-leaf mahogany (*Swietenia macrophylla* King). *Biotropica* 46:591-597.

20† Moreira, X., Abdala-Roberts, L., Parra-Tabla, V., and Mooney, K. A. 2014. Positive effects of plant genotypic and species diversity on anti-herbivore defences in a tropical tree species. *PLoS ONE* 9: e105438.

19† Abdala-Roberts, L., Parra-Tabla, V., Campbell, D. R., and Mooney, K. A. 2014. Soil fertility and parasitoids shape herbivore selection on plants. *Journal of Ecology* 102:1120-1128.

18† Abdala-Roberts, L., Berny-Mier y Terán, J. C., Mooney, K. A., Moguel-Ordoñez, Y. B., and Tut-Pech, F. 2014. Plant traits mediate effects of predators across pepper (*Capsicum annuum*) varieties. *Ecological Entomology* 39:361-370.

17† Moreira, X., Abdala-Roberts, L., Linhart, Y. B., and Mooney, K. A. 2014. Masting promotes individual- and population-level reproduction by decreasing pollen limitation: new insights for the pollination efficiency hypothesis. *Ecology* 95:801-807.

16† Abdala-Roberts, L., Marrufo-Zapata, D., Arceo-Gomez, G. and Parra-Tabla, V. 2014. Pollen limitation, fruit abortion and autonomous selfing in three populations of the perennial herb *Ruellia nudiflora*. *Plant Species Biology* 29:25-33.

15† Munguía-Rosas, M. A., Abdala-Roberts, L. and Parra-Tabla, V. 2013. Effects of pollen load, parasitoids and the environment on predispersal seed predation in the cleistogamous *Ruellia nudiflora*. *Oecologia* 173:871-880.

14† Berny-Mier y Terán, J. C., Abdala-Roberts, L., Duran-Yañez, A., and Felipe Tut-Pech. 2013. Variation in insect pest and virus resistance among Habanero peppers (*Capsicum chinense* Jacq.) in Yucatan, Mexico. *Agrociencia* 47:471-478.

13† Abdala-Roberts, L. and Mooney, K. A. 2013. Environmental and plant genetic effects on tri-trophic interactions. *Oikos* 122:1157-1166.

12† Abdala-Roberts, L., Agrawal, A. A. and Mooney, K. A. 2012. Ant-aphid interactions on *Asclepias syriaca* are mediated by plant genotype and caterpillar damage. *Oikos* 121:1905-1913.

11† Ortegón-Campos, I. G., Abdala-Roberts, L., Parra-Tabla, V., Cervera, J. C., Marrufo, D. and Herrera, C. M. 2012. Influence of multiple factors on plant local adaptation: soil type and folivore effects in *Ruellia nudiflora* (Acanthaceae). *Evolutionary Ecology* 26:545-558.

10† Rivera-Solís, G.*, Abdala-Roberts, L., Cervera-Herrera, J. C. and Parra-Tabla, V. 2012. Mechanisms and traits associated with compensation for defoliation in *Ruellia nudiflora*. *Plant Ecology* 213:303-314.

9† Marquis, R.J., Ricklefs, R., and Abdala-Roberts, L. 2012. Testing the high defense, low latitude hypothesis for broad-leaved tree species. *Oecologia* 169:811-820.

8† Ramos-Zapata, J., Parra-Tabla, V., Campos, M. J., Abdala-Roberts, L. and Navarro, J. 2010. Genotypic variation in the response of the weed *Ruellia nudiflora* to arbuscular mycorrhizal fungi. *Mycorrhiza* 20:275-280.

7† Abdala-Roberts, L., Parra-Tabla, V., Salinas-Peba, L., Díaz-Castelazo, C. and Delfín-González, H. 2010. Spatial variation in the intensity of a trophic cascade involving *Ruellia nudiflora* (Acanthaceae), a seed predator, and its associated parasitoid fauna. *Biotropica* 42:180-187.

6† Ortegón-Campos, I. G., Parra-Tabla, V., Abdala-Roberts, L. and Herrera, C. M. 2009. Local adaptation of *Ruellia nudiflora* (Acanthaceae) to biotic counterparts: Complex scenarios revealed when two herbivore guilds are considered. *Journal of Evolutionary Biology* 22: 2288-2297.

5† Parra-Tabla, V., Abdala-Roberts, L., Rojas, J. C., Navarro, J. and Salinas-Peba, L. 2009. Floral longevity and scent respond to pollen manipulation and resource status in the tropical orchid *Myrmecophila christinae* (Orchidaceae). *Plant Systematics and Evolution* 282: 1-11.

4† Abdala-Roberts, L., Parra-Tabla, V., Salinas-Peba, L. and Herrera, C.M. 2009. Noncorrelated effects of seed predators and pollinators on the perennial herb *Ruellia nudiflora* remain spatially consistent. *Biological Journal of the Linnean Society* 96: 800-807.

3† Abdala-Roberts, L., Parra-Tabla, V. and Navarro, J. 2007. Is floral longevity influenced by reproductive costs and pollination success in *Cohniella ascendens* (Orchidaceae)? *Annals of Botany* 100: 1367-1371.

2† Abdala-Roberts, L. and Marquis, R. J. 2007. Test of local adaptation to biotic interactions and soil abiotic conditions in the ant-tended *Chamaecrista fasciculata* (Fabaceae). *Oecologia* 154: 315-326.

1† Abdala-Roberts, L. and Parra-Tabla, V. 2005. Artificial defoliation induces trichome production in the tropical shrub *Cnidoscolus aconitifolius* (Euphorbiaceae). *Biotropica* 37: 251-257.

Grants

2022-24 "Investigating plant-plant signaling via volatile organic compounds as a tool for sustainable management of cotton plantations in Mexico" (24,000 Euros). Ministerio de Ciencia e

Innovación del Gobierno Español, ICOOP. Co-PIs: Luis Abdala Roberts y Xoaquín Moreira Tomé.

2020-22 "Exploiting plant communication between cotton plants" ($950,000 USD). SNSF. PI: Ted Turlings (UniNe), Collaborators: Luis Abdala Roberts, Thierry Brévault.

2017-20 "Evaluación del papel ecológico de compuestos defensivos en árboles y de aves insectívoras en una plantación forestal mixta" (85,000 USD). CONACyT. Co-Pi: Luis Abdala Roberts (UADY) and Víctor Parra Tabla (UADY).

2016-17 "Mecanismos para explicar los efectos de diversidad forestal sobre la comunidad de artrópodos: patrones de dispersión de insectos herbívoros y expresión de defensas químicas en plantas" ($8,000 USD). ICOOP-CSIC. Co-Pi's: Xoaquín Moreira Tomé (Misión Biológica de Galicia, CSIC) and Luis Abdala Roberts (UADY).

2015-16 "Chemical defences in wild and cultivated cotton" (20,000 USD). Swiss Science Foundation. PI: Ted Turlings (University of Neuchatel), Co-PIs: Víctor Parra Tabla (UADY) and Luis Abdala Roberts (UADY).

2015-16 Apoyo complementario para la consolidación institucional de grupos de investigación, modalidad repatriación" (25,000 USD). CONACyT. PI: Luis Abdala Roberts

2013-14 "Integrating predators to current theory of plant anti-herbivore defenses" (25,000 USD). UCMEXUS. PI's: Kailen Mooney (UC-Irvine) and Víctor Parra Tabla (UADY); Co-Pi's: Xoaquín Moreira (CSIC) and Luis Abdala Roberts (UADY)

2011-14 "Productividad e interacciones multi-tróficas en plantaciones forestales mixtas" (105,000 USD). CONACyT. Co-Pi's: Victor Parra Tabla (UADY) and Luis Abdala Roberts (UADY).

Meetings and symposia

*(supervised co-authors: *undergraduate student, **graduate student)*

34. Interian-Aguiñaga, J.**, Parra-Tabla, V., and Abdala-Roberts, L. Efectos de la diversidad arbórea tropical y la disponibilidad de presas sobre la depredación por aves y artrópodos (poster). VIII Congreso Mexicano de Ecología, 22-27 May 2022. Oaxaca, México.
33. Briones-May, Y.*, Quijano-Medina, T., Pérez-Niño, B., Benrey, B., Turlings, T. C. J., Bustos-Segura, C., and Abdala-Roberts, L. Efectos de salinidad y comunicación por volátiles sobre el néctar extrafloral de algodón silvestre (poster). VIII Congreso Mexicano de Ecología, 22-27 May 2022. Oaxaca, México.
32. Moreira, X., García-Verdugo, C., Castagneyrol, B., and Abdala-Roberts, L. Insularity effects on plant-herbivore interactions (oral). Ecological Society of America Annual Meeting, 2-6 August 2021. Denver, USA.
31. Quijano-Medina, T.**, Turlings, T. C. J., Francisco, M., Ramos-Zapata, J., Moreira, X., and Abdala-Roberts, L. Aphid and Caterpillar feeding drive similar levels of induced defences and resistance in wild cotton. 17th Symposium on Insect-Plant Relationships (poster). 25-30 July 2021, Leiden, Netherlands.
30. Galmán, A., Abdala-Roberts, L., Wartalska, P., Covelo, F., Röder, G., Szenteczki, M., Moreira, X., and Rasmann, S. 2021. Elevational gradients in constitutive and induced oak defences based on individual traits and their correlated expression patterns. 17th Symposium on Insect-Plant Relationships (poster). 25-30 July 2021, Leiden, Netherlands.
29. Martín-Cacheda, L.**, Vázquez-González, C., Abdala-Roberts, L., and Moreira, X. Plant-to-plant communication in response to insect herbivory is not specific to genetic relatedness between emitter and receiver *Solanum tuberosum* plants. 17th Symposium on Insect-Plant Relationships (poster). 25-30 July 2021, Leiden, Netherlands.
28. Galmán, A., Petry, W. K., Abdala-Roberts, L., Butrón, A., de la Fuente, M., Francisco, M., Kergunteuil, A., Rasmann, S., and Moreira, X. The simultaneous expression of constitutive chemical

defences and their inducibility is stronger at high elevations. First Meeting of the Iberian Ecological Society and XIV AEET Meeting, 4-7 February 2019. Barcelona, Spain.

27. Abdala-Roberts, L., Quijano-Medina, T.**, and Moreira, X. Factores bióticos y abióticos asociados a variación geográfica en herbivoría por insectos en algodón silvestre (*Gossypium hirsutum*) (oral). Congreso de la Sociedad Científica Mexicana de Ecología. 29 September-4 October, 2019. Juriquilla, Querétaro.
26. Mendoza, M.**, Parra-Tabla, V., and Abdala-Roberts, L. Effects of tree species diversity and genotypic diversity on growth and aboveground biomass in a tropical plantation (poster). 54th Annual Meeting of the Association for Tropical Biology and Conservation. July 9-14, 2017. Mérida, México.
25. Mejía-Alva, B., Ramos-Zapata, J., Abdala-Roberts, L., and Parra-Tabla, V. Effects of belowground interactions on aboveground tri-trophic interactions depend on cross type in *R. nudiflora* (poster). 54th Annual Meeting of the Association for Tropical Biology and Conservation. July 9-14, 2017. Mérida, México.
24. Rosado-Sánchez, S.**, Parra-Tabla, V., Betancur-Ancona, D., Moreira, X., and Abdala-Roberts, L. Effects of tree species diversity on insect herbivory and leaf defences in *Cordia dodecandra* (poster). 54th Annual Meeting of the Association for Tropical Biology and Conservation. July 9-14, 2017. Mérida, México.
23. Nell, C., Abdala-Roberts, L., and Mooney, K.A. Tree diversity mediates insectivorous bird communities and herbivore suppression (poster). North American Ornithological Conference, August 16-20, 2016. Washington D.C.
22. Abdala-Roberts, L., Parra-Tabla, V., and Mooney, K. A. Dinámicas ecológicas y evolutivas en sistemas tri-tróficos: efectos del ambiente, complejidad trófica, y diversidad vegetal (symposium). V Congreso Mexicano de Ecología, SCME. 2015. San Luis Potosí, México.
21. Campos-Navarrete, M. J., Abdala-Roberts, L., Munguia-Rosas, M., and Parra-Tabla, V. ¿El efecto de la diversidad de especies arbóreas en herbívoros es mediado por hormigas mutualistas? (symposium) V Congreso Mexicano de Ecología, SCME. 2015. San Luis Potosí, México.
20. Abdala-Roberts, L., Mooney, K. A., Quijano-Medina, T., Campos-Navarrete, M. A., González-Moreno, A., and Parra-Tabla, V. Herbivory in tropical trees: relative influence of tree species diversity, genotypic diversity, and herbivore identity (contributed oral). Annual Meeting of the Ecological Society of America. August 10-15, 2014. Sacramento, USA.
19. Moreira, X., Abdala-Roberts, L., Mooney, K. A., and Parra-Tabla, V. Latitudinal variation in herbivory: Influences of climatic drivers, herbivore identity and natural enemies. SIP15 – 15th International Symposium on Insect-Plant Relationships (poster). University of Neuchâtel. August 17-22, 2014. Neuchâtel, Switzerland.
18. Campos-Navarrete, M. J., Abdala-Roberts, L., González-Moreno, A., Quijano, T., and Parra-Tabla, V. Respuesta plástica a la herbivoría de seis genotipos de *Enterolobium ciclocarpum* en monocultivos y policultivos (contributed oral). IV Congreso Mexicano de Ecología, SCME. 2013, Villahermosa, Mexico.
17. Munguía-Rosas, M. A., Abdala-Roberts, L., and Parra-Tabla, V. Interacción compleja entre polinizadores, parasitoides y ambiente influencia la depredación de semillas en una planta cleistógama (symposium). IV Congreso de la Sociedad Científica Mexicana de Ecología. March 18-22, 2013. Villahermosa, Mexico.
16. Abdala-Roberts, L., Mooney, K. A., Parra-Tabla, V., and Campbell, D. Top-down and bottom-up forces shape herbivore selection on plants (poster). Gordon Research Conference, Plant-Herbivore Interactions. February 24-March 1, 2013. Ventura, USA.
15. Abdala-Roberts, L. and Mooney, K. A. Examining the mechanisms by which environmental and plant genetic variation influence tri-trophic interactions in a simple food web (contributed oral). Annual Meeting of the Ecological Society of America. August 5-10, 2012. Portland, USA.

14. Mooney, K.A., Petry, W. K., Abdala-Roberts, L., and Moreira, X. 2012. Consequences of monarch damage and plant genotype for ant-aphid interactions on the common milkweed *Asclepias syriaca*. Annual Meeting of the Ecological Society of America (symposium). August 5-10, 2012. Portland, USA.
13. Téllez-Quiñones, P., Parra-Tabla, V., Alonso-Menéndez, C., Abdala-Roberts, L., Celaya-Cordero, N. and Salinas-Peba, L. Biología reproductiva y ecología de la polinización de la especie endémica *Cienfuegosia yucatanensis* (Malvaceae) (contributed oral). Congreso de la Sociedad Mesoamericana para la Biología y la Conservación. October 24-28, 2011. Mérida, México.
12. Berny Mier y Terán, J. C., Abdala-Roberts, L. and Durán Yáñez, A. Preliminary assessment of pest susceptibility in commercial lines of Habanero pepper (*Capsicum chinense*) (poster). 8th World Pepper Convention. May 26-28, 2011. León, México.
11. Téllez Quiñones, P., Celaya-Cordero, N., Hernández-Mendoza, V., Abdala-Roberts, L., Salinas-Peba, L., Alonso-Menéndez, C. and Parra-Tabla, V. Fenología, polinización y éxito reproductivo en dos especies endémicas de la costa norte de Yucatán (poster). Tercer Congreso de la Sociedad Científica Mexicana de Ecología A.C. April 2011. Veracruz, México.
10. Parra-Tabla, V., Ortegón Campos, I. and Abdala-Roberts, L. Variación espacio-temporal y mosaicos de adaptación local y maladaptación en interacciones antagónicas (symposium). Congreso de la Sociedad Científica Mexicana de Ecología A.C. April 2011. Veracruz, México.
9. Rivera-Solís, G.*, Abdala-Roberts L., Cervera-Herrera, C. and Parra-Tabla, V. Variación en caracteres de la hierba *Ruellia nudiflora* bajo un contexto espacial: delineando el potencial de diferenciación genética (poster). Congreso de la Sociedad Científica Mexicana de Ecología A.C. November 16-20, 2008. Mérida, Mexico.
8. Ortegón-Campos, I., Parra-Tabla, V., Abdala-Roberts, L. and Herrera, C. M. Adaptación local en *Ruellia nudiflora* (Acanthaceae): Efectos contrastantes de dos gremios de herbívoros (contributed oral). Congreso de la Sociedad Científica Mexicana de Ecología A.C. November 16-20, 2008. Mérida, Mexico.
7. Parra-Tabla, V., Abdala-Roberts, L., Díaz-Castelazo, C., Delfín-González, H. and Salinas-Peba, L. Spatial variation in trophic cascades: Ecological and evolutionary implications (symposium). Congreso de la Sociedad Científica Mexicana de Ecología A.C. November 16-20, 2008. Mérida, Mexico.
6. Abdala-Roberts, L., Parra-Tabla, V. and Salinas-Peba, L. Efectos no correlacionados de depredadores de semillas y polinizadores sobre la hierba perenne *Ruellia nudiflora* (contributed oral). Congreso de la Sociedad Científica Mexicana de Ecología A.C. November 16-20, 2008. Mérida, México.
5. Marquis, R. J., Ricklefs, R. and Abdala-Roberts, L. Role of latitude and phylogeny for plant defense traits in broad-leaved tree species (symposium). Annual Meeting of the Association for Tropical Biology and Conservation (ATBC). July 15-19, 2007, Morelia, México.
4. Parra-Tabla V., Abdala-Roberts L., Navarro-Alberto, J. and Salinas-Peba, L. Reproductive investment costs and pollination influence floral longevity and scent chemistry in *Myrmecophila christinae* (Orchidaceae) (contributed oral). Annual Meeting of the ATBC. July 15-19, 2007. Morelia, México.
3. Abdala-Roberts, L. and Marquis, R. J. Producción de néctar extrafloral en *Chamaecrista fasciculata* (Fabaceae): Adaptación local a condiciones de suelo contrastantes? (poster). Congreso de la Sociedad Científica Mexicana de Ecología A.C. November 26-30, 2006. Morelia, México.
2. Abdala-Roberts, L. and Marquis, R. J. Biotic interactions, soil conditions, and local adaptation in *Chamaecrista fasciculata* Michx (Fabaceae) (contributed oral). Annual Meeting of the Ecological Society of America". August 7-12, 2005. Montreal, Canada.
1. Abdala-Roberts, L. and Parra-Tabla, V. Ecology of the tropical shrub *Cnidosculus aconitifolius* in contrasting environments II: herbivory and experimental trichome induction (poster). Biotic interactions in the tropics: A special symposium of the British Ecological Society and the annual meeting of the ATBC. July, 2003. Aberdeen, Scotland.

Teaching experience

2017- Graduate course "Causes and Consequences of Biodiversity", at the Universidad Autónoma de Yucatán.
2015- Undergraduate courses "Evolution" and "Community Ecology", at the Universidad Autónoma de Yucatán.
2010-14 Teaching assistant for the undergraduate courses: "Field Methods in Ecology", "Organisms to Ecosystems", "Freshwater Biology", "Global Sustainability", and "Introduction to Ecology" at the University of California-Irvine.
2009 Invited speaker for undergraduate course "Environmental Sciences" at the Autonomous University of Yucatán, México (UADY).
2007-09 Lecturer for undergraduate courses: "Community Ecology", "Ecology", "Environmental Impact Assessment", "Numerical Ecology", and "Community Ecology" at the UADY.
2004 Teaching assistant for undergraduate course "Microbiology" at the University of Missouri in St. Louis, USA.

Professional service

Editorial boards, journal reviews and scientific societies

2018- Subject Editor of Biotropica.
2005- Member of the Sociedad Científica Mexicana de Ecología.
2008-18 Reviews for: Plant Ecology (5), Annals of Botany (5), Ecological Entomology (2), Ecology Letters (1), Functional Ecology (3), Oikos (4), Arthropod-Plant Interactions (1), PLoS One (1), Proceedings of the Royal Society B (2), New Phytologist (1), American Journal of Botany (1), Biology Letters (2), Hortscience (1), Current Forestry Reviews (1), Axios (1), Plant Biology (1), Journal of Ecology (1).
2010-12 Member of the International Review Board of Annals of Botany.

Other services

2013 Graduate student representative in the search committee for assistant professor in ecology at the Ecology and Evolutionary Biology Department, UC-Irvine.

Student mentoring

Undegraduate students

2022 Yeyson Briones
2022 Uziel Martínez
2021 Jonathan Interián
2009 Gustavo Rivera Solís
2009 Paulo Carbajal Borges

Graduate students

2022 Lucía Cacheda Martín (Ph.D.)
2022 Jesús Interían Aguiñaga (M. Sc.)
2022 Teresa Quijano Medina (Ph.D.)
2018 Silvia Rosado Sánchez (Ph.D.)
2018 Yaneli May Uc (M. Sc.)
2017 Maybeth Mendoza Espinosa (M.Sc.)